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PART 36
PERMIT
APPLICATION

Volume III Part 1

November 7, 2013

STATE OF NEW MEXICO
DIRECTOR OF OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF DNCS PROPERTIES, LLC FOR A SURFACE WASTE MANAGEMENT FACILITY PERMIT

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

NOVEMBER 2013

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS

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VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

1.0 INTRODUCTION

DNCS Environmental Solutions (DNCS Facility) is a proposed Surface Waste Management Facility for oil field waste processing and disposal services. The proposed DNCS Facility is subject to regulation under the New Mexico Oil and Gas Rules, specifically 19.15.36 NMAC, administered by the Oil Conservation Division (OCD). The Facility has been designed in compliance with 19.15.36 NMAC, and will be constructed and operated in compliance with a Surface Waste Management Facility Permit issued by the OCD. The Facility is owned by, and will be constructed and operated by, DNCS Properties, LLC.

1.1 Description

The DNCS site is comprised of a 562-acre ± tract of land located south of NM 529 in portions of Section 31, Township 17 South, Range 33 East; and in the northern half of Section 6, Township 18 South, Range 33 East, Lea County, NM. A portion of the 562-acre tract is a drainage feature that will be excluded from development. The drainage feature includes a 500-ft setback and totals 67 acres ±. The DNCS Facility will include two main components; a liquid oil field waste Processing Area (177 acres ±), and an oil field waste Landfill (318 acres ±); therefore the DNCS Facility comprises 495 acres ±. Oil field wastes are anticipated to be delivered to the DNCS Facility from oil and gas exploration and production operations in southeastern NM and west Texas. The Site Development Plan provided in the **Permit Plans, Sheet 3**, identifies the locations of the Processing Area and Landfill facilities.

2.0 DESIGN CRITERIA

This Section, "Engineering Design" is provided as a summary of the engineering design elements for the DNCS Landfill and Processing Facility. The Engineering Design has been developed in accordance with the Oil and Gas Rules. More specifically, 19.15.36.17.A

NMAC requires an "Engineering Design Plan" for evaporation, storage, treatment and skimmer ponds. In addition, the construction standards for these facilities are also addressed in compliance with 19.15.36.17.B NMAC. Engineering requirements specific to landfills as referenced in 19.15.36.14.C-F NMAC, including landfill design standards, liner specifications, requirements for the soil component of composite liners, and the leachate collection and removal system are addressed herein. The Engineering Design also addresses the requirements of 19.15.36.13.M NMAC pertaining to the control of run-on and runoff from the 25-year, 24 hour design storm (**Volume III.4** and **Permit Plans, Attachment III.1.A**).

Compliance with the design standards is demonstrated on the **Permit Plans** listed in **Table III.1.1**, which are sealed by Mr. I. Keith Gordon, P.E., of Gordon Environmental, Inc., a New Mexico Professional Engineer with extensive experience in geotechnical engineering and waste containment design employing geosynthetics. The **Permit Plans** are provided for reference in **Attachment III.1.A** as 11 x 17 inch (in.) plots and are also submitted as "D" size sealed plots (i.e., 24 x 36 in.) as part of this Application for Permit.

Table III.1.1
List of Permit Plans
DNCS Environmental Solutions

Sheet No.	Title
1.	Cover Sheet and Drawing Index
2.	Existing Site Conditions
3.	Site Development Plan
4.	Landfill Base Grading Plan
5.	Landfill Final Grading Plan
6.	Landfill Cross Sections
7.	Landfill Completion Drainage Plan
8.	Liner System and Cover Details
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13.	Evaporation Pond and Stabilization/Solidification Area Cross Sections
14.	Processing Area Cross Sections

3.0 LANDFILL DESIGN STANDARDS

The proposed DNCS Landfill will be located within "eastern tract" (318 acres ±) as shown on the **Permit Plans, Sheet 3** (**Attachment III.1.A**). The DNCS Landfill disposal footprint will be approximately 234 acres ± in size with a depth from the top of the 15-foot (ft) perimeter berm to the base grades of approximately 20 ft on the east end and 50 ft on the west end. The base grades of the Landfill are in excess of 100 ft from groundwater. The Landfill consists of nine independent units (Units 1 through 9), each having an independent leachate collection system, cleanout riser, and collection sump located at the west end (**Permit Plans, Sheet 4**).

3.1 Liner System

A double liner and leak detection system design is proposed for the DNCS Landfill. An alternate liner system is being proposed that meets the requirements of 19.15.36.14.C NMAC demonstrated as equivalent in the United States Environmental Protection Agency (USEPA) Hydrologic Evaluation of Landfill Performance (HELP) Model (**Volume III.4)** and has a demonstrated track record for long-term waste containment performance. The liner system consists of, from top to bottom:

- 24-in. protective soil/leachate drainage layer (on-site soils with permeability $\geq 5.2 \times 10^{-4}$ cm/sec)
- 60-mil HDPE primary liner
- 200-mil HDPE geonet leak detection layer
- 60-mil HDPE secondary liner
- Geosynthetic Clay Liner (GCL)
- 6-in. soil compacted subgrade

The liner system is designed to meet the performance requirement of no more than one foot of leachate on the primary liner as required in 19.15.36.14.F NMAC and demonstrated in the HELP Model (**Volume III.4**).

HDPE material is proposed for the leachate collection layer, leak detection layer and liners as HDPE has proven to be the preferred material for waste containment facilities due to its durability and resistance to degradation by waste constituents. **Volume III.6** provides documentation regarding HDPE material compatibility in compliance with

19.15.36.14.D.(2)(a) NMAC.

3.2 Leachate Collection and Leak Detection System

The leachate collection system designed for the Landfill consists of an alternate 2-ft protective soil/leachate collection layer consisting of "SM" soil material with a permeability of $\geq 5.2 \times 10^{-4}$ centimeters per second (cm/sec). The leak detection system layer will incorporate a 200-mil geonet specifically prescribed for this application (**Permit Plans)**. With a design transmissivity of 1×10^{-3} square meters per second (m^2/sec), the geonet will provide fluid flow potential superior to the prescriptive soil leak detection layer of 2 ft of pervious soils (19.15.36.14.C.(3) NMAC and 19.15.36.14.C.(5) NMAC). This fact has been demonstrated in the HELP Model (**Volume III.4**).

The leachate collection layer slopes at 2.8% to a 6-in. diameter standard dimension ratio (SDR) 11 high density polyethylene (HDPE or Sch 80 PVC) perforated leachate collection pipe to the center of the units and is directed at a 2% slope to the leachate collection sumps on the west end of the Landfill (**Permit Plans, Sheet 4**). The leak detection geonet slopes at 2.8% to the center of the units and is directed at a 2% slope to each of the nine leak detection sumps located on the west end of the Landfill (**Permit Plans, Sheet 4**). Each of the sumps is approximately 2 ft deep and contains ¾-in. to 2.0-in. diameter pre-qualified select aggregate installed on and wrapped in a geotextile cushion placed over the HDPE liners. Classification criteria for the aggregate are specified in the Liner Construction Quality Assurance (CQA) Plan (**Volume II.7**), which state that it not be angular (i.e., sharp edges which could damage the liners) or calcareous (which could degrade over time).

The fluids collected in the leachate collection and leak detection sumps will be monitored and collected by separate 12-in. diameter sidewall riser pipes, that do not penetrate the liners, in compliance with 19.15.36.14.C.(10) NMAC. The piping is demonstrated to resist degradation by the waste constituents as documented in the Geosynthetic Application and Compatibility Documentation (**Volume III.6**).

The leachate collection system pipe will consist of a minimum 6-in. diameter perforated SDR 11 HDPE. The leachate collection and leak detection sump riser pipes will consist of a 12-in. diameter, SDR 11 HDPE; and will be perforated or slotted for the bottom 2 ft depth within the sump (i.e., 8 ft length at 4:1 slope). HDPE piping has shown superior characteristics for waste containment applications vs. the Schedule (SCH) 80 polyvinylchloride (PVC) specified in the Oil and Gas Rules; and has a greater wall thickness as shown on **Tables III.1.2** and **III.1.3**. The piping is demonstrated to resist degradation by the waste constituents as documented in the Geosynthetic Application and Compatibility Documentation (**Volume III.6**).

TABLE III.1.2
Comparison of 6-in. Diameter PVC and HDPE Leachate Collection Pipe
DNCS Environmental Solutions

Characteristic	6-in. Diameter Leachate Collection Pipe	
	Schedule 80	SDR 11 HDPE
Dimension Ratio	15.3	11.0
Method of Joining	Gasketed/Glued	Welded
Manning's Number (n)	0.009	0.010
Outside Diameter (in.)	6.625[1]	6.625[2]
Min. Wall Thickness (in.)	0.432[1]	0.602[2]
Tensile Strength (psi)	5,000	5,000
Modulus of Elasticity (psi)	400,000	130,000
Flexural Strength (psi)	14,450	135,000

Notes:
*[1]Handbook of PVC Pipe, pg. 340 (**Attachment III.1.G**)*
*[2]PolyPipe, A-4 (**Attachment III.1.G**)*

TABLE III.1.3
Comparison of 12-in. Diameter PVC and HDPE Sump Riser Pipe
DNCS Environmental Solutions

Characteristic	12-in. Diameter Leachate and Leak Detection Riser Pipes	
	Schedule 80	**SDR 11 HDPE**
Dimension Ratio	18.6	11.0
Method of Joining	Gasketed/Glued	Welded
Manning's Number (n)	0.009	0.010
Outside Diameter (in)	12.75[1]	12.75[2]
Min. Wall Thickness (in.)	0.687[1]	1.159[2]
Tensile Strength (psi)	5,000	5,000
Modulus of Elasticity (psi)	400,000	130,000
Flexural Strength (psi)	14,450	135,000

Notes:
*[1]Handbook of PVC Pipe, pg. 340 (**Attachment III.1.G**)*
*[2]PolyPipe, A-4 (**Attachment III.1.G**)*

The details in the **Permit Plans**, **Sheet 10** reflect the deployment of SDR 11 HDPE piping for the leachate collection pipe and leak detection sump riser pipes. HDPE flat stock or four layers of geonet will be placed beneath the beveled edge of the perforated risers in the sumps to prevent potential liner damage (**Permit Plans**). Solid-wall HDPE piping will extend from above the sumps to the permanent wellheads shown on the **Permit Plans**.

The entire leachate collection system will be covered by 2 ft of protective soil with a hydraulic conductivity greater than or equal to $\geq 5.2 \times 10^{-4}$ cm/sec. The HELP Model, provided in **Volume III.4**, confirms that the design meets the requirements of 19.15.36.14.F NMAC.

The leachate collection system and protective soil cover on the top of the liner system in the Landfill will protect the floor and sidewall liner by providing ballast and blocking sunlight (i.e., UV rays), with the upper sections of sidewall liner secured by the anchor trench as depicted on the **Permit Plans**.

3.3 Landfill Final Cover System

The final cover for the top of the Landfill will utilize the prescriptive final cover (defined by 19.15.36.14 (C) (8) NMAC) and consists of the following layers:

- 12-in. soil erosion layer
- 12-in. protection layer
- 12-in. drainage layer (w/saturated hydraulic conductivity $\geq 1 \times 10^{-2}$ cm/sec)
- 60-mil HDPE liner
- 12-in. foundation layer
- Oil Field Waste and soil compacted to 80% Standard Proctor

The sideslopes will utilize an alternative cover system consisting of the following:

- 12-in. erosion layer
- 24-in. infiltration layer
- Oil Field Waste and soil compacted to 80% Standard Proctor

On-site soils will be used to construct the final cover, and the cap will be placed as the Landfill reaches final grades. The Landfill will have 4:1 design sideslopes with drainage benches spaced at a vertical distance of approximately 30-ft; and a top slope of 5%. The final cover (sideslope) was modeled using the HELP Model (**Volume III.4**), and results indicate that percolation through the cover will not exceed that of the bottom liner as required in 19.15.36.14.C.(9) NMAC.

4.0 LANDFILL CONSTRUCTION

Construction of the Landfill will be accomplished by constructing individual cells within the units. Detailed Construction Plans and Technical Specifications will be prepared for the proposed DNCS Landfill cells and submitted to several pre-qualified Liner Installation Contractors for quotes. The cell excavation, construction, floor grading/compaction, and geosynthetics installation will be subject to the rigorous CQA standards specified in the Liner CQA Plan (**Volume II.7**).

OCD will be provided a major milestone schedule in advance of construction; and will be notified via e-mail or phone at least 3 working days prior to the installation of the primary liner. An Engineering Certification Report, sealed by a Professional Engineer with expertise in geotechnical engineering, will be submitted to OCD documenting compliance of completed construction with the Permit, regulatory requirements, industry standards, and the plans and specification.

The Engineering Design, as demonstrated by the Volumetric Calculations (**Volume III.2**) deliberately provides a "sustainable" configuration that does not require the import of off-site soils. The materials equation provides an excess of soils excavated (i.e., cut) and fill for the cover and perimeter berms. The in-situ and on-site fill soil will be pre-qualified in accordance with the CQA Plan (**Volume II.7**). At least one Standard Proctor Density test will be conducted in the laboratory for each 5,000 cubic yards of subgrade soils, fill material or a change in subgrade material. These tests will be the basis for field density measurements during construction (i.e., 90% standard Proctor dry density) conducted at a minimum frequency of 4 tests/acre/lift.

Fill for the berms will be placed in horizontal compacted lifts that do not exceed 12-in. in thickness. The subgrade surface will be inspected to confirm the absence of any deleterious materials, abrupt changes in slope, evidence of erosion, etc. The compliance of the completed subgrade construction will be confirmed prior to secondary liner installation, and documented in the Engineering Certification Report.

The 60-mil HDPE secondary liner will be installed for the proposed Cells in direct contact with the prepared and certified subgrade liner in accordance with the CQA Plan (**Volume II.7**). Installation of the geonet; geotextile, aggregate and riser pipes in the sumps will follow. The installation of all soil and geosynthetic components will meet or exceed the requirements of 19.15.36.14.C NMAC, as detailed in the CQA Plan. Finally, the primary liner will be constructed, and liner/leak detection/leachate collection system elements (i.e., secondary, geonet, primary) will be secured in the common anchor trench at the top of the Landfill sideslope**.** The anchor trench will be carefully backfilled with select on-site soils

compacted to 90% of standard Proctor dry density by mechanical and/or hand-tamping devices as required by the CQA Plan. Documentation will be provided in the Engineering Certification Report submitted to OCD upon completion of construction.

5.0 POND DESIGN STANDARDS

The designs for the Ponds are identical, except that Pond elevations are different depending on their site location (**Permit Plans, Sheets 12** and **13; Attachment III.1.A**). Each pond is approximately 420 ft east-west by 200 ft north-south as measured at the top of the surrounding berms, for a footprint of 2.0 ± acres each. The floor of the ponds is designed with a 2% slope to facilitate drainage in the leak detection system to the two sumps in each basin situated on the interior sidewall.

Because the berms have a uniform top elevation, the 2% floor slope creates a pond depth that ranges from a maximum of 12 ft to a minimum of just less than 8 ft. The maximum water depth occurs at the sump locations and does not exceed 8.5 ft. Maintaining a high water elevation of 3,966 ft in the Phase I Ponds; 3,965.5 ft in the Phase III Ponds; and 3,965 ft in the Phase IV Ponds; will provide a freeboard in excess of 3.5 ft in each pond. This is more than adequate to meet the 3 ft minimum freeboard standard; while also accommodating the minimal impact potential of rainfall or wave action (**Volume III.12**). The resultant capacity of each pond is approximately 9.5 acre-ft, not including freeboard, below the maximum 10 acre-ft volume prescribed by 19.15.36.17.B(12) NMAC.

Section 5.0 (Pond Construction) below and the CQA Plan (**Volume II.7**) provide documentation on the installation of berms, soil subgrade, and geosynthetics. Exceeding the standards specified in 19.15.36.17.B(4) NMAC, both the exterior and interior sidewalls of all of the Ponds have design slopes of 3:1. The top platform of the berms surrounding the Ponds has a minimum design width of 10 ft, which is more than adequate for the 2 ft anchor trench shown on the **Permit Plans**; and to accommodate pipe risers.

5.1 Liner System

A double liner and leak detection system design is proposed for each pond. An alternate liner system is being proposed that meets the requirements of 19.15.36.17.B(9) NMAC and has a demonstrated track record for long-term waste containment performance. The pond liner system consists of, from top to bottom:

- 60-mil HDPE primary liner
- 200-mil HDPE geonet leak detection layer
- 60-mil HDPE secondary liner
- GCL under the leak detection sumps
- 6-in. compacted soil subgrade

HDPE material is proposed for the liners and leak detection layer as HDPE has proven to be the preferred material for waste containment facilities due to its durability and resistance to degradation by waste constituents. **Volume III.6** provides documentation regarding HDPE material compatibility in compliance with 19.15.36.17.B(3) NMAC

5.2 Leak Detection System

The leak detection system layer designed for the ponds consists of a 200-mil geonet specifically prescribed for these applications (**Permit Plans**). With a design transmissivity of 1×10^{-3} m^2/sec, the geonet will provide fluid flow potential superior to the prescriptive leak detection layer of 2 ft of pervious soils (19.15.36.17.B(9) NMAC).

The underlying 60-mil HDPE secondary liner, the 200-mil geonet leak detection layer, and the overlaying 60-mil HDPE primary liner, will slope at 2% to the 2 leak detection sumps located in each pond (**Permit Plans**). Fluids collected in the leak detection layer, which encompasses the entire footprint for each pond, are directed with the 2% slope to the leak detection sumps. Each of the sumps will be approximately 2 ft deep, as measured from the secondary liner to the primary liner. The sumps will contain ¾-in. to 2.0-in. diameter pre-qualified select aggregate installed on a geotextile cushion placed over the secondary liner. Classification criteria for the aggregate are specified in the CQA Plan (**Volume II.7**), which state that it not be angular (i.e., sharp edges which could damage the liners) or calcareous (which could degrade over time).

The fluids collected in the leak detection sumps will be monitored and removed through a 6-in. diameter, SDR 11 HDPE sidewall riser pipes that do not penetrate the liners. The leak detection sump riser pipes will be perforated or slotted for the bottom 2 ft depth within the sump (i.e., 6 ft length at 3:1 slope). HDPE piping has shown superior characteristics for waste containment applications vs. the SCH 80 PVC specified in the Oil and Gas Rules; and has a greater wall thickness as shown on **Table III.1.4**. The piping is demonstrated to resist degradation by the waste constituents as documented in **Volume III.6**.

TABLE III.1.4
Comparison of 6-in. Diameter PVC and HDPE Sump Riser Pipe
DNCS Environmental Solutions

Characteristic	6-in. Diameter Leak Detection Riser Pipes	
	Schedule 80	**SDR 11 HDPE**
Dimension Ratio	15.3	11.0
Method of Joining	Gasketed/Glued	Welded
Manning's Number (n)	0.009	0.010
Outside Diameter (in.)	6.625[1]	6.625[2]
Min. Wall Thickness (in.)	0.432[1]	0.602[2]
Tensile Strength (psi)	5,000	5,000
Modulus of Elasticity (psi)	400,000	130,000
Flexural Strength (psi)	14,450	135,000

Notes:
[1]*Handbook of PVC Pipe, pg. 340 (**Attachment III.1.G**)*
[2]*PolyPipe, A-4 (**Attachment III.1.G**)*

The details in the **Permit Plans** reflect the deployment of SDR 11 HDPE piping for the leak detection sump riser pipes. HDPE flat stock or four layers of geonet will be placed beneath the beveled edge of the perforated risers in the sumps to prevent potential liner damage (**Permit Plans**). Solid-wall HDPE piping will extend from above the sumps to the permanent wellheads shown on **Permit Plans**. The sidewall liners and leak detection geonet will be secured by the anchor trench as depicted on the **Permit Plans.**

6.0 POND CONSTRUCTION

Detailed Construction Plans and Technical Specifications will be prepared for the proposed Ponds, and submitted to several pre-qualified Liner Installation Contractors for quotes. The berm construction, floor grading/compaction, and geosynthetics installation will be subject to the rigorous CQA standards specified in **Volume II.7**.

OCD will be provided a major milestone schedule in advance of construction; and notified via email or phone at least 3 working days prior to the installation of the primary liner in compliance with 19.15.36.17.B(10) NMAC. An Engineering Certification Report, sealed by a Professional Engineer with expertise in geotechnical engineering, will be submitted to OCD documenting compliance of completed construction with the Permit, regulatory requirements, industry standards, and the plans and specification.

The Engineering Design presented on the **Permit Plans** (**Attachment III.1.A**) deliberately provides a "sustainable" configuration that does not require import of off-site soils. The materials equation provides a balance between soils excavation (i.e., pond) and fill for the sidewalls. The in-situ and on-site fill soil will be pre-qualified in accordance with the CQA Plan (**Volume II.7**). At least one standard Proctor dry density test will be conducted in the laboratory for each pond footprint, 5,000 cubic yards (cy) of fill material for berms, or change in subgrade material. These tests will be the basis for field density measurements during construction (i.e., 90% standard Proctor dry density) conducted at a minimum frequency of 4 tests/acre/lift.

Fill for the berms will be placed in horizontal compacted lifts that do not exceed 12 in. in thickness. The subgrade surface will be inspected to confirm the absence of any deleterious materials, abrupt changes in slope, evidence of erosion, etc. The compliance of the completed subgrade construction shall be confirmed prior to secondary liner installation, and documented in the Engineering Certification Report.

The double liner and leak detection system design, planned for the ponds, consists of proven technology with a demonstrated track record of long-term waste containment performance. The secondary liner proposed for the ponds, consists of a smooth 60-mil HDPE

geomembrane placed in direct contact with a prepared and compacted soil subgrade, certified in accordance with the CQA Plan (**Volume II.7**). The same HDPE material will be used for the primary liner and the geonet for the leak detection layer. HDPE has proven to be the preferred material for waste containment facilities due to its durability and resistance to attack by waste constituents.

Volume III.6 provides documentation regarding liner and leak detection material compatibility in compliance with 19.15.36.17.B(3) NMAC. An additional layer of 60-mil HDPE (22.5 ft x 40 ft ±) will be welded above the primary Pond liner where active wastewater discharge will occur (**Permit Plans**). This will protect the Pond liner from excessive hydrostatic force or mechanical damage. External discharge lines and leak detection system discharge lines will not penetrate the liner. The CQA Plan (**Volume II.7**) provides the most current technical specifications for the geosynthetics.

Fluid in the Ponds will protect the floor and lower sidewall liner by providing ballast and deflecting sunlight (i.e., UV rays). The upper sections of pond sidewall liner will be secured by the anchor trench. The anchor trench will be carefully backfilled with select on-site soils compacted to 90% of standard Proctor dry density by mechanical and/or hand-tamping devices (per the CQA Plan). Documentation will be provided in the Engineering Certification Report submitted to OCD upon completion of construction.

Although the freeboard zone of the pond sidewall liner will be exposed to the elements, recent research indicates that exposed HDPE in similar environments has a functional longevity in excess of 25 years (**Attachment III.1.B**). GEI has inspected several similar water storage ponds in New Mexico and has found exposed geomembrane liners to be functionally intact after over 25 years.

7.0 POND OPERATION

Detailed plans for the operation of the Ponds are prescribed in the Operations, Maintenance, and Inspection Plan (**Volume II.1**). Essentially, it is anticipated that some fluids will accumulate in the leak detection sumps as a result of condensation, construction water, etc. As described in **Volume II.1**, the leak detection sumps will be monitored at least monthly for

the presence of fluids, which may be extracted and tested when the level in the sump(s) exceeds 24 in. A reduced monitoring frequency may be proposed to OCD dependent upon historical results. The design of the Ponds allows for isolation of potential leaks into isolated drainage basins, facilitating necessary evaluation or repair by allowing each pond to be emptied.

8.0 PROCESS AREA TANK CONTAINMENT

As proposed in this Application, produced water receiving tanks, produced water settling tanks, and the crude oil receiving tanks depicted in **Attachment III.1.C** and oil sales tanks as depicted in **Attachment III.1.D** will be installed in the excavated tank farm as shown on the **Permit Plans**. Detailed operations of the tanks are described in the Operations, Maintenance, and Inspection Plan (**Volume II.1**), and a schematic of the process area is provided in **Attachment III.1.E**. The tanks will be constructed with an underlying, continuous, system which is designed to capture any fluids within the watershed of the tank farm.

The secondary containment liner in the tank area is a 30-mil polyester liner (XR-5 8130 Reinforced Geomembrane). The use of the XR-5 8130 Reinforced Geomembrane in the tank area is primarily based on the chemical compatibility and puncture resistance of the material compared to either PVC or HDPE material. The chemical resistance of the XR-5 material exceeds the chemical compatibility of either PVC or HDPE to hydrocarbon products (see Chemical Resistance Chart, Page 13, "Technical Data and Specifications for XR-5", **Attachment III.1.H**). Since PVC material has marginal chemical resistance in a hydrocarbon environment, physical properties of the XR-5 geomembrane (**Attachment III.1.H**) are compared to 60-mil HDPE geomembrane (**Attachment III.1.I**) as shown in **Table III.1.5**:

TABLE III.1.5
Physical Properties: XR-5 8130 Reinforced Geomembrane
and 60-mil HDPE Geomembrane
DNCS Environmental Solutions

Property	XR-5 8130	60-mil HDPE
Thickness	30-mil	60-mil
Tear Strength	40 lbs	42 lbs
Puncture Resistance	275 lbs	108 lbs
Break Strength	400 lbs/in.	228 lbs/in.
Break Elongation	25%	700%
Hydrostatic Resistance	800 psi	> 450 psi
Hydraulic Conductivity	1×10^{-12} cm/sec	2×10^{-13} cm/sec
Seam Properties		
Shear Strength	500 lbs	120 lbs/in.
Peel Strength	40 lbs/2 in.	91 lbs/in.

The necessary storage capacity for the interconnected tank/containment system will be sufficiently managed by the proposed lined volume of the Ponds. In the unlikely event of a total failure of all affected storage units, the contents of the tanks will flow into the ponds, which have a lined storage capacity of 884,400 barrels (bbl) ± (excluding freeboard). When the freeboard is included, the storage capacity of the ponds is over 1,714,600 bbl, which results in a net surplus of over 830,200 bbl. The entire volume of the proposed receiving tanks will be 70,000 bbl, providing a net excess capacity of over 760,200 bbl. Thus, the Ponds will hold the entire volume of the receiving/settling tanks within the required permanent freeboard of 3 ft.

The maximum proposed number of interconnected tanks is five 1,000 bbl tanks for a total of 5,000 bbl. Allowing for an additional 30% capacity will require a minimum of 6,500 bbl of bermed capacity in the tank farm. The containment area is conservatively sized to surround the entire tank farm, which results in a holding capacity of 13,100 bbl, and is 12,100 bbl greater than the capacity of the largest tank (1,000 bbl) and 6,600 bbl greater than the combined connected tank volume, including a 30% factor of safety within the containment area. Therefore the containment area surrounding the receiving/settling tanks is more than sufficient. Included in this Section is a spreadsheet (**Attachment III.1.F**), that identifies all of the proposed tanks and Evaporation Ponds in this Application.

9.0 STABILIZATION AND SOLIDIFICATION AREA

The design for the stabilization and solidification (S&S) area relies on many of the Pond design characteristics, except that the S&S area is designed to allow dump trucks and tanker trucks delivering materials that require stabilization and/or solidification to discharge directly into the S&S area from a concrete unloading pad. (**Attachment III.1.A**). The S&S area covers approximately 5-acres and measures 660 ft east-west by 330 ft north-south at the top of the surrounding berms. The floor of this area is designed with a 2% slope to facilitate drainage on the liner and in the leak detection system to collect in a sump situated along the east sidewall of the area.

Because the three perimeter berms have a uniform top elevation, the 2% floor slope creates a pond depth that ranges from a minimum of 5 ft at the unloading pad to a maximum of 20 ft at the sump along the eastern perimeter berm. The bottom liner slope allows for a 5-ft-thick protective and operational cover on the liner. This slope also provides operation capacity for the S&S function proposed for this area while providing the capacity to meet the 3 ft minimum freeboard standard and accommodating the minimal impact potential of rainfall. The resultant capacity of the S&S area is approximately 5.6 acre-ft, not including freeboard, well below the maximum 10 acre-ft volume prescribed by 19.15.36.17.B(12) NMAC.

Section 5.0 (Pond Construction) and the CQA Plan (**Volume II.7**) provide documentation on the installation of berms, soil subgrade, and geosynthetics. Exceeding the standards specified in 19.15.36.17.B(4) NMAC, both the exterior and interior sidewalls of S&S area have design slopes of 3:1. The top platform of the berms surrounding the S&S area has a minimum design width of 10 ft, which is more than adequate for the 2 ft anchor trench.

9.1 Liner System

As with the Ponds, the S&S area is designed with a double liner and leak detection system proposing the same alternate liner system that meets the requirements of 19.15.36.17.B(9) NMAC and has a demonstrated track record for long-term waste containment performance. The S&S Area liner system consists of, from top to bottom:

- 5 ft protective soil and operational layer
- 60-mil HDPE primary liner
- 200-mil HDPE geonet leak detection layer
- 60-mil HDPE secondary liner
- GCL under the leak detection sumps
- 6-in. compacted soil subgrade

HDPE material is proposed for the liners and leak detection layer as HDPE has proven to be the preferred material for waste containment facilities due to its durability and resistance to attack by waste constituents. **Volume III.6** provides documentation regarding HDPE material compatibility in compliance with 19.15.36.17.B(3) NMAC

9.2 Leak Detection System

The leak detection system layer designed for the S&S area consists of a 200-mil geonet specifically prescribed for these applications. With a design transmissivity of 1×10^{-3} m^2/sec, the geonet will provide fluid flow potential superior to the prescriptive leak detection layer of 2 ft of pervious soils (19.15.36.17.B(9) NMAC).

The underlying 60-mil HDPE secondary liner, the 200-mil geonet leak detection layer, and the overlaying 60-mil HDPE primary liner, will slope at 2% to the leak detection sump located on the eastern berm of the S&S area. Fluids collected in the leak detection layer, which encompasses the entire footprint of the S&S area, are directed with the 2% slope to the leak detection sump. This sump will be approximately 2 ft deep, as measured from the secondary liner to the primary liner. The sump will contain ¾-in. to 2.0-in. diameter pre-qualified select aggregate installed on a geotextile cushion placed over the secondary liner. Classification criteria for the aggregate are specified in the CQA Plan (**Volume II.7**), which state that it not be angular (i.e., sharp edges which could damage the liners) or calcareous (which could degrade over time).

The fluids collected in the leak detection sump will be monitored and removed through a 12-in. diameter, SDR 11 HDPE sidewall riser pipe that does not penetrate the liners. The leak detection sump riser pipe will be perforated or slotted for the bottom 2 ft depth within the

sump (i.e., 6 ft length at 3:1 slope). HDPE piping has shown superior characteristics for waste containment applications vs. the SCH 80 PVC specified in the OCD standards; and has a greater wall thickness as shown on **Table III.1.4**. The piping is demonstrated to resist degradation by the waste constituents as documented in **Volume III.6**. The details in the **Permit Plans** reflect the deployment of SDR 11 HDPE piping for the leak detection sump riser pipe.

HDPE flat stock or four layers of geonet will be placed beneath the beveled edge of the perforated riser in the sump to prevent potential liner damage. Solid-wall HDPE piping will extend from above the sump to the permanent wellhead shown on the **Permit Plans**. The sidewall liners and leak detection geonet will be secured by the anchor trench as depicted on the **Permit Plans**.

9.3 Stabilization & Solidification Area Construction

Detailed Construction Plans and Technical Specifications will be prepared for the proposed S&S area, and submitted to several pre-qualified Liner Installation Contractors for quotes. The berm construction, floor grading/compaction, and geosynthetics installation will be subject to the rigorous CQA standards specified in **Volume II.7**.

OCD will be provided a major milestone schedule in advance of construction; and notified via email or phone at least 3 working days prior to the installation of the primary liner in compliance with 19.15.36.17.B(10) NMAC. An Engineering Certification Report, sealed by a Professional Engineer with expertise in geotechnical engineering, will be submitted to OCD documenting compliance of completed construction with the Permit, regulatory requirements, industry standards, and the plans and specification.

The Engineering Design presented on the **Permit Plans** (**Attachment III.1.A**) deliberately provides a "sustainable" configuration that does not require import of off-site soils. The materials equation provides a balance between soils excavation (i.e., S&S area) and fill for the sidewalls. The in-situ and on-site fill soil will be pre-qualified in accordance with the CQA Plan (**Volume II.7**). At least one standard Proctor dry density test will be conducted in the laboratory for the S&S area footprint, 5,000 cubic yard (cy) of fill material for berms, or

change in subgrade material. These tests will be the basis for field density measurements during construction (i.e., 90% standard Proctor dry density) conducted at a minimum frequency of 4 tests/acre/lift.

Fill for the berms will be placed in horizontal compacted lifts that do not exceed 12 in. in thickness. The subgrade surface will be inspected to confirm the absence of any deleterious materials, abrupt changes in slope, evidence of erosion, etc. The compliance of the completed subgrade construction shall be confirmed prior to secondary liner installation, and documented in the Engineering Certification Report.

The double liner and leak detection system design planned for the S&S area consists of proven technology with a demonstrated track record of long-term waste containment performance. The secondary liner proposed for the area, consists of a smooth 60-mil HDPE geomembrane placed in direct contact with a prepared and compacted soil subgrade, certified in accordance with the CQA Plan (**Volume II.7**). The same HDPE material will be used for the primary liner and the geonet for the leak detection layer. HDPE has proven to be the preferred material for waste containment facilities due to its durability and resistance to attack by waste constituents. **Volume III.6** provides documentation regarding liner and leak detection material compatibility in compliance with 19.15.36.17.B(3) NMAC. Leak detection system discharge lines will not penetrate the liner. The CQA Plan (**Volume II.7**) provides the most current technical specifications for the geosynthetics.

Protective cover in the S&S area will protect the floor and lower sidewall liner by providing ballast and deflecting sunlight (i.e., UV rays). The upper sections of S&S area sidewall liner will be secured by the anchor trench (**Permit Plans**). The anchor trench will be carefully backfilled with select on-site soils compacted to 90% of standard Proctor dry density by mechanical and/or hand-tamping devices (per the CQA Plan). Documentation will be provided in the Engineering Certification Report submitted to OCD upon completion of construction.

Although the freeboard zone of the S&S area sidewall liner will be exposed to the elements, recent research indicates that exposed HDPE in similar environments has a functional

longevity in excess of 25 years (**Attachment III.1.B**). GEI has inspected similar applications in New Mexico and has found exposed geomembrane liners to be functionally intact after over 25 years.

9.4 Stabilization and Solidification Area Operation

Detailed plans for the operation of the S&S area are prescribed in the Operations, Maintenance, and Inspection Plan (**Volume II.1**). To ensure compliance with the capacity limits imposed on the operation of this area, volumes in and out of this area will be tracked to document the volume in processing at any time. Equipment operating within the S&S area may be equipped with Global Positioning System (GPS) equipment (see **Attachment III.1.J** for information on the Computer Aided Earthmoving System provided by Caterpillar) to monitor the location of the equipment relative to the liner system. This system may be implemented to maintain adequate separation of equipment and the liner system during the stabilization and solidification operation. Material that has completed the S&S operation will be relocated to the Landfill for disposal. Solidification material will be excavated from borrow sources within the solid waste management facility.

10. FACILITY DRAINAGE DESIGN

The **Permit Plans**, **Attachment III.1.A,** show the stormwater management systems that will be employed to manage both run-on and runoff for the DNCS Landfill and Processing Facilities. The design event, pursuant to 19.15.36.13.M NMAC (i.e., 25-year, 24 hour storm) will be managed by a series of drainageways that surround the proposed Ponds, Processes, and Landfill and capture stormwater from other on-site areas.

Stormwater detention basins are planned for installation as shown on the **Permit Plans**; and the Stormwater Management Plan is included in **Volume III.4** that demonstrates the efficacy of the proposed system.

The berms surrounding the Landfill and processing area have a maximum exterior slope of 3:1, and an average height of less than 10 ft, minimizing the potential for soil erosion. The drainageways and detention basins will be regularly inspected and cleaned out, as necessary.

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

ATTACHMENT III.1.A

PERMIT PLANS

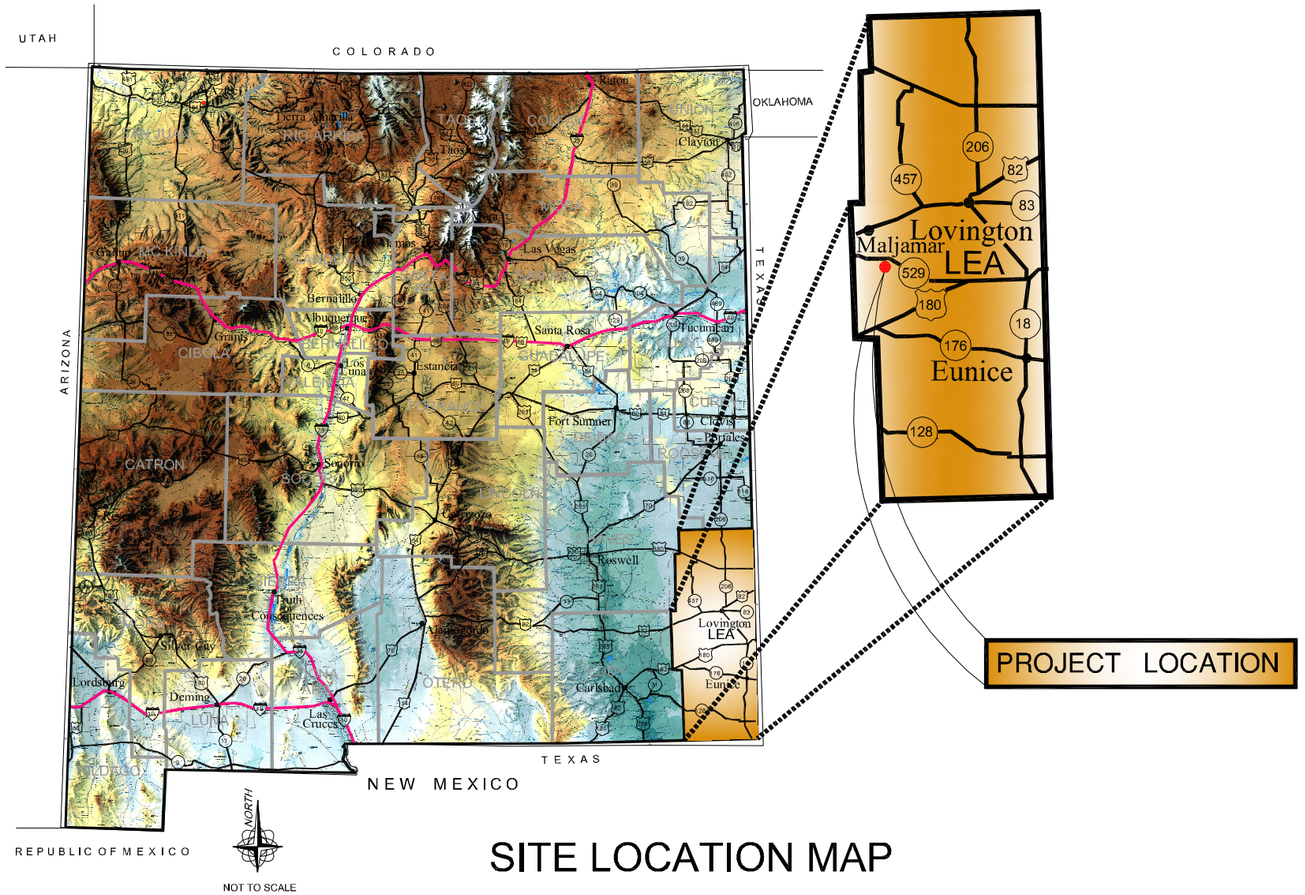
Sheet No.	Title
1.	Cover Sheet and Drawing Index
2.	Existing Site Conditions
3.	Site Development Plan
4.	Landfill Base Grading Plan
5.	Landfill Final Grading Plan
6.	Landfill Cross Sections
7.	Landfill Completion Drainage Plan
8.	Liner System and Cover Details
9.	Leachate Collection System Details
10.	Stormwater Drainage Details
11.	Processing Area Layout
12.	Evaporation Pond Details
13.	Evaporation Pond and Stabilization/Solidification Area Cross Sections
14.	Processing Area Cross Sections

PERMIT PLANS

FOR

DNCS ENVIRONMENTAL SOLUTIONS

LEA COUNTY, NEW MEXICO



NOT TO SCALE

SITE LOCATION MAP

SHEET	TITLE
01 COVER.DWG	1 COVER SHEET AND DRAWING INDEX
02 EXIST.DWG	2 EXISTING SITE CONDITIONS
03 SITE DEV.DWG	3 SITE DEVELOPMENT PLAN
04 BASE GRADES.DWG	4 LANDFILL BASE GRADING PLAN
05 FINAL GRADING.DWG	5 LANDFILL FINAL GRADING PLAN
06 X-SECTIONS.DWG	6 LANDFILL CROSS SECTIONS
07 DRAINAGE PLAN.DWG	7 LANDFILL COMPLETION DRAINAGE PLAN
08 LINER DET.DWG	8 LINER SYSTEM AND COVER DETAILS
09 LEACHATE DET.DWG	9 LEACHATE COLLECTION SYSTEM DETAILS
10 STORMWATER DET.DWG	10 STORMWATER DRAINAGE DETAILS
11 PROCESS AREA.DWG	11 PROCESSING AREA LAYOUT
12 EVAP POND DET.DWG	12 EVAPORATION POND DETAILS
13 EVAP X-SECT.DWG	13 EVAPORATION POND AND STABILIZATION/SOLIDIFICATION AREA CROSS SECTIONS
14 PROCESS X-SECT.DWG	14 PROCESSING AREA LAYOUT CROSS SECTIONS

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N.M. PROFESSIONAL ENGINEER NO. 10984

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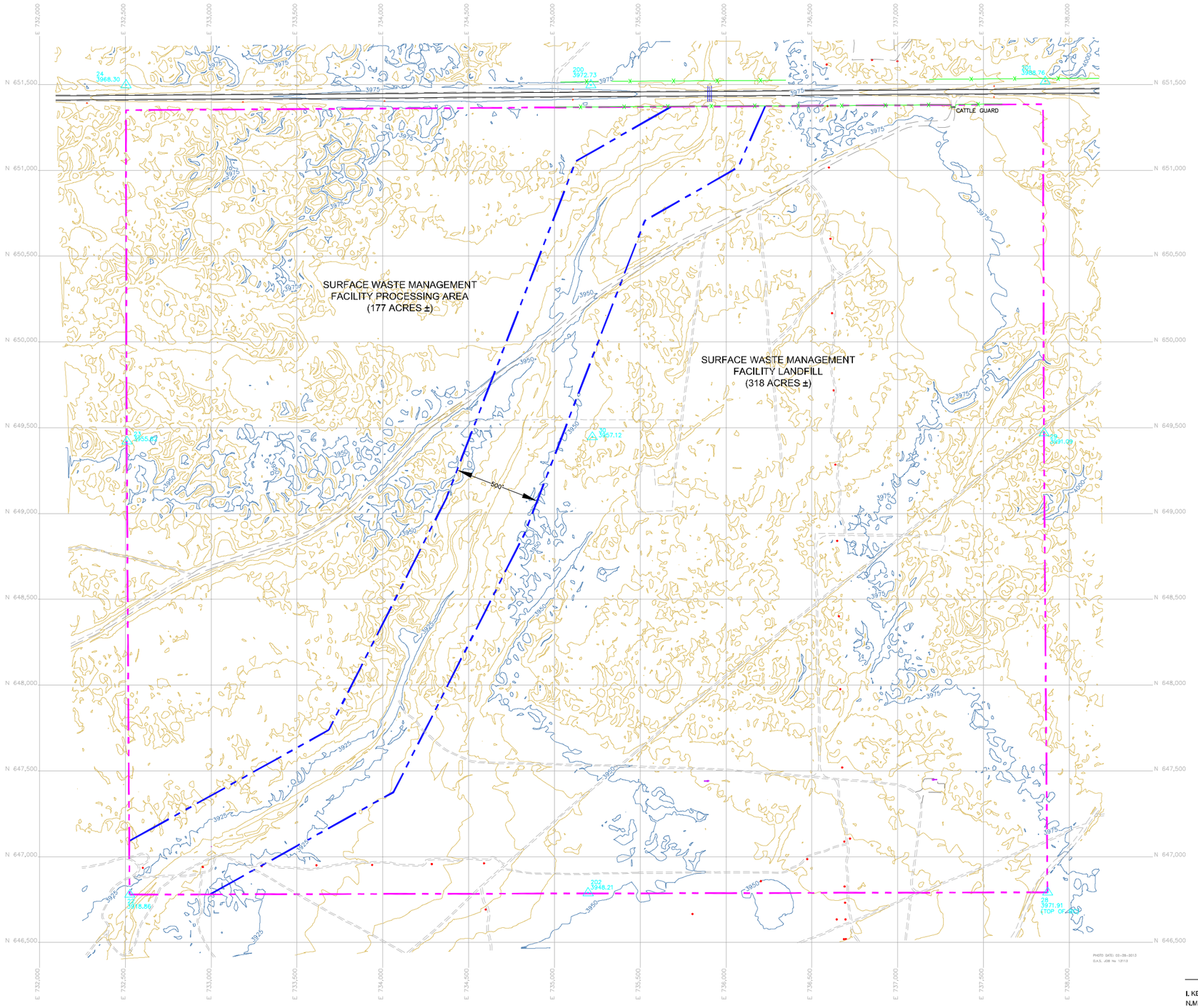
COVER SHEET AND DRAWING INDEX

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
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DATE: 10/21/2013	CAD: 01 COVER.dwg	PROJECT #: 542.01.01
DRAWN BY: DMI	REVIEWED BY: MRH	SHEET 1 of 14
APPROVED BY: IKG	gek@gordonenvironmental.com	

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Date/Time:Nov. 04, 2013-16:04:38
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LEGEND

- SITE BOUNDARY (562 ACRES±)
- DRAINAGE FEATURE SETBACK (67 ACRES±)
- 3975 — 25' EXISTING CONTOUR
- 5' EXISTING CONTOUR
- EXISTING FENCE
- PAVED ROAD AND SHOULDER (NM 529)
- EXISTING UNPAVED ROAD/TRAIL
- POWER POLE
- CULVERT
- CATTLE GUARD
- ROAD SIGN
- ABANDONED WELL
- 201 3988.76 — SURVEY CONTROL POINT
- N 650,500 / E 738,000 — SITE GRID

SURVEY CONTROL POINT DATA			
POINT	NORTHING	EASTING	ELEVATION
22	646780.31	732525.87	3918.86
23	649422.09	732509.41	3955.82
24	651498.31	732504.10	3968.30
28	646793.35	737874.03	3971.91
29	649469.84	737853.32	3991.09
30	649446.48	735220.56	3957.12
200	651498.13	735212.57	3972.73
201	651518.82	737859.97	3988.76
202	646789.93	735196.38	3948.21

NOTES:

1. BASE MAP PROVIDED BY DALLAS AERIAL SURVEYS, INC
2. FIELD SURVEY PROVIDED BY PETTIGREW & ASSOCIATES PA (12/13/2012)
3. DATE OF AERIAL PHOTOGRAPHY: 02-28-2013
4. SITE GRID BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAVD 88.
5. THE DNCS SURFACE WASTE MANAGEMENT FACILITY COMPRISES A TOTAL OF 495 ACRES ± (i.e., the processing area (177 acres ±) and the landfill (318 acres ±).

NORTH

0 300 600

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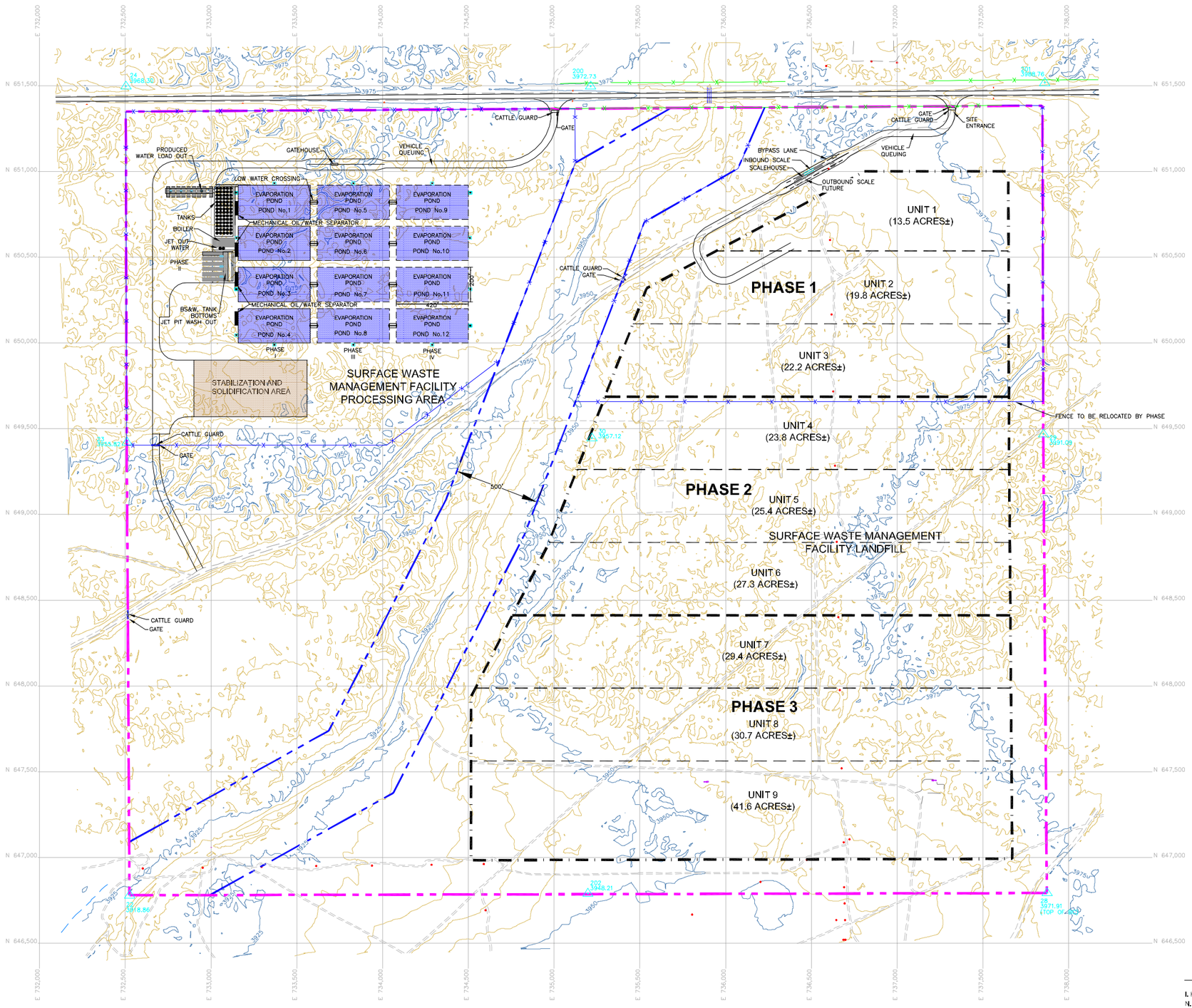
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EXISTING SITE CONDITIONS

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
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DATE: 10/21/2013	CAD: 02 EXIST.DWG	PROJECT #: 542.01.01
DRAWN BY: DMI	REVIEWED BY: MRH	SHEET 2 of 14
APPROVED BY: IKG	gel@gordonenvironmental.com	



LEGEND

- SITE BOUNDARY (562 ACRES±)
- DRAINAGE FEATURE SETBACK (67 ACRES±)
- LIMIT OF WASTE
- LANDFILL PHASE BOUNDARY
- LANDFILL UNIT BOUNDARY
- 3975 — 25' EXISTING CONTOUR
- 5' EXISTING CONTOUR
- EXISTING FENCE
- PROPOSED FENCE
- PAVED ROAD AND SHOULDER (NM 529)
- EXISTING UNPAVED ROAD/TRAIL
- PROPOSED FACILITY ACCESS ROAD
- POWER POLE (TO BE RELOCATED IN ADVANCE OF CONSTRUCTION)
- EXISTING CULVERT
- CATTLE GUARD
- HYDROGEN SULFIDE MONITORING STATION
- ROAD SIGN
- ABANDONED WELL
- 201 3988.76 — SURVEY CONTROL POINT
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SURVEY CONTROL POINT DATA

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NORTH

0 300 600

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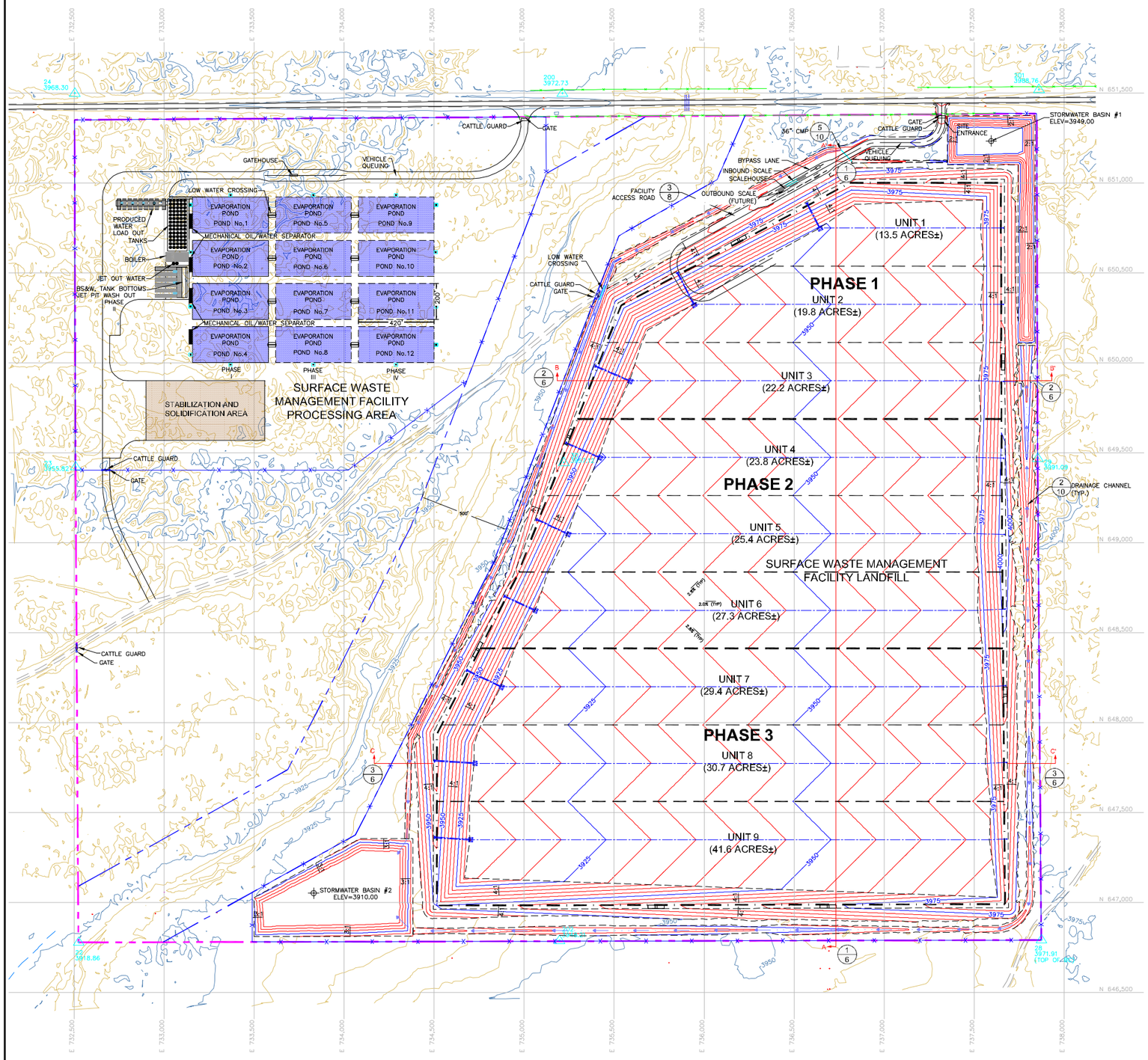
SITE DEVELOPMENT PLAN

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

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Consulting Engineers
213 S. Camino del Pueblo
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DATE: 10/17/2013	CAD: 03 SITE DEV.DWG	PROJECT #: 542.01.01
DRAWN BY: DMI	REVIEWED BY: MRH	SHEET 3 of 14
APPROVED BY: IKG	gel@gordonenvironmental.com	

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LEGEND

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- LEACHATE COLLECTION SUMP & EXTRACTION RISER PIPES
- SURVEY CONTROL POINT
- EXISTING CULVERT
- NEW CULVERT
- HYDROGEN SULFIDE MONITORING STATION
- ROAD SIGN
- SITE GRID
- CROSS SECTION LOCATION
- DETAIL NUMBER / SHEET NUMBER

SURVEY CONTROL POINT DATA

POINT	NORTHING	EASTING	ELEVATION
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30	649445.19	735219.09	3957.12
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LANDFILL EXCAVATION AND PERIMETER BERM FILL VOLUMES

CUT VOLUME: 6257969 CUBIC YARDS
FILL VOLUME: 646225 CUBIC YARDS
NET VOLUME: 5611744 CUBIC YARDS <CUT>

NORTH

0 300' 600'

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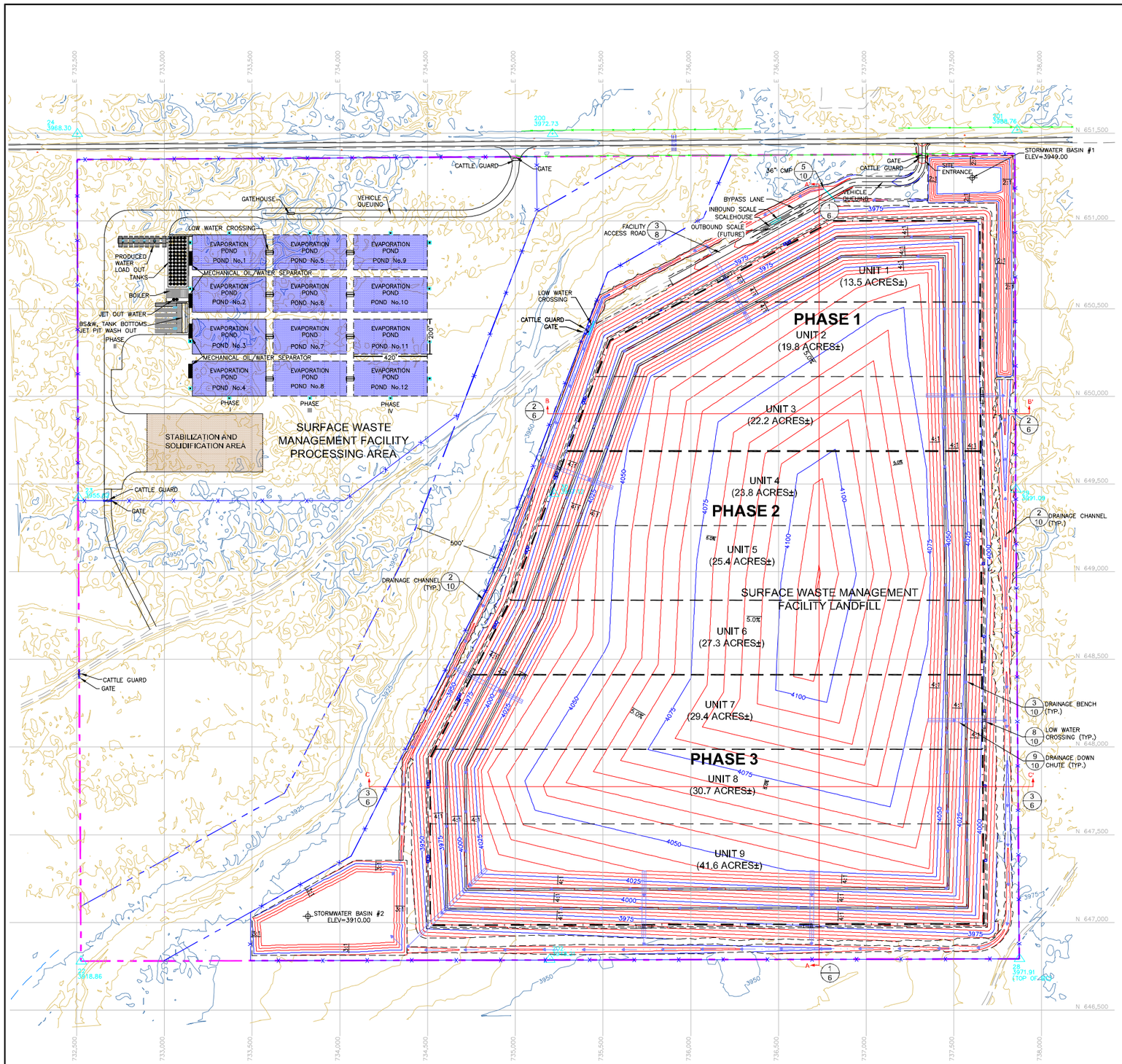
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Date/TimesNov. 05, 2013-08:30:42; LAYOUT: D (LS)
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LANDFILL BASE GRADING PLAN

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

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DATE: 10/21/2013	CAD: 04 BASE GRADING.dwg	PROJECT #: 542.01.01
DRAWN BY: JMC	REVIEWED BY: MRH	SHEET 4 of 14
APPROVED BY: IKG	gel@gordonenvironmental.com	



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- SURVEY CONTROL POINT
- POWER POLE
- EXISTING CULVERT
- NEW CULVERT
- HYDROGEN SULFIDE MONITORING STATION
- ROAD SIGN
- SITE GRID
- CROSS SECTION LOCATION
- DETAIL NUMBER / SHEET NUMBER

SURVEY CONTROL POINT DATA

POINT	NORTHING	EASTING	ELEVATION
22	646780.31	732525.87	3918.86
23	649420.79	732507.95	3955.82
24	651497.01	732502.64	3968.19
28	646792.06	737872.55	3971.24
29	649468.54	737851.84	3991.09
30	649445.19	735219.09	3957.12
200	651498.13	735212.57	3972.73
201	651518.82	737859.97	3988.76
202	646789.93	735196.38	3948.21

NOTES:

1. BASE MAP PROVIDED BY DALLAS AERIAL SURVEYS, INC
2. FIELD SURVEY PROVIDED BY PETTIGREW & ASSOCIATES PA (12/13/2012)
3. DATE OF AERIAL PHOTOGRAPHY: 02-28-2013
4. SITE GRID BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAVD 88.
5. THE DNCS SURFACE WASTE MANAGEMENT FACILITY COMPRISES A TOTAL OF 495 ACRES ± (i.e., the processing area (177 acres ±) and the landfill (318 acres ±).

LANDFILL VOLUME

GROSS FILL VOLUME: 39,669,880 CUBIC YARDS

NORTH

0 300' 600'

I, KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

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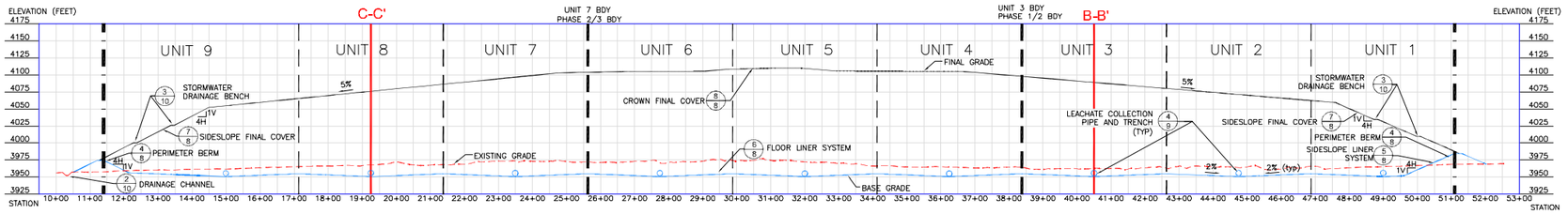
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LANDFILL FINAL GRADING PLAN

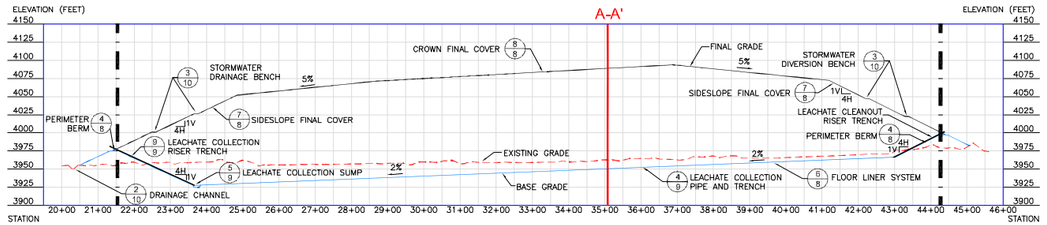
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LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

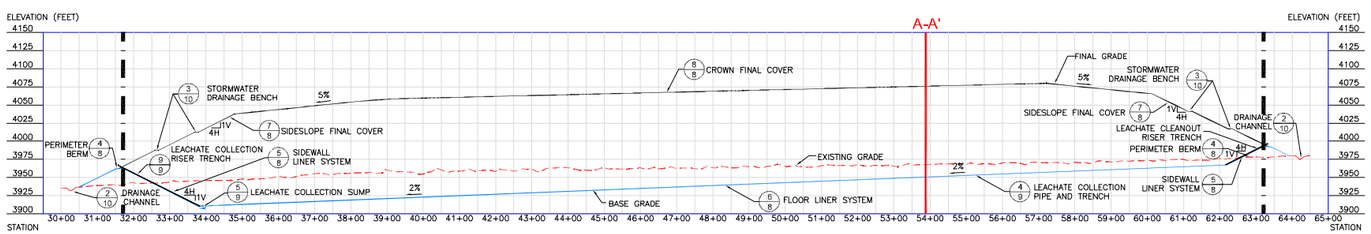
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DRAWN BY: JMC	REVIEWED BY: MRH	SHEET 5 of 14
APPROVED BY: IKG	gel@gordonenvironmental.com	



1/6 CROSS SECTION A-A'



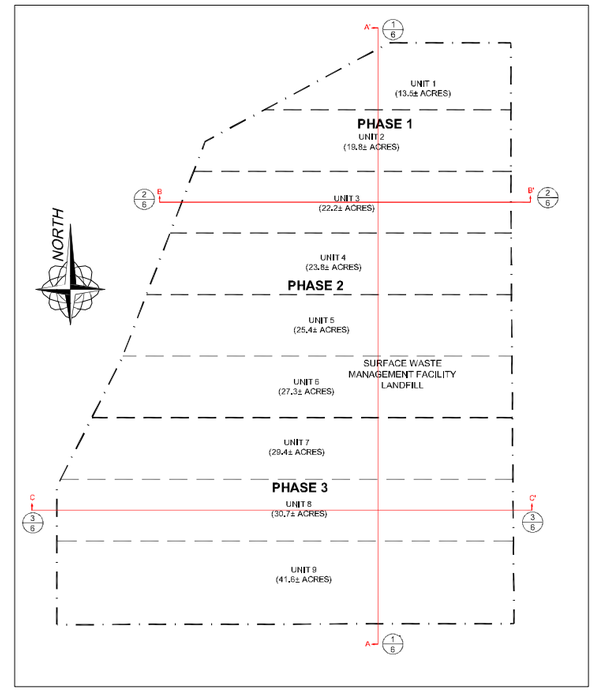
2/6 CROSS SECTION B-B'



3/6 CROSS SECTION C-C'

LEGEND

- LIMIT OF WASTE
- LANDFILL PHASE BOUNDARY
- LANDFILL UNIT BOUNDARY
- EXISTING GRADE
- BASE GRADE
- FINAL GRADE
- CROSS SECTION LOCATION (A A')
- DETAIL NUMBER / SHEET NUMBER (7/8)



KEY MAP
N.T.S.

200' / 100' VERTICAL — CROSS SECTION SCALE — HORIZONTAL 0 200' 400'

NOT FOR CONSTRUCTION
DrawingPlacad 2003\542.01.01\PERMIT PLANS\06 X-SECTIONS.dwg
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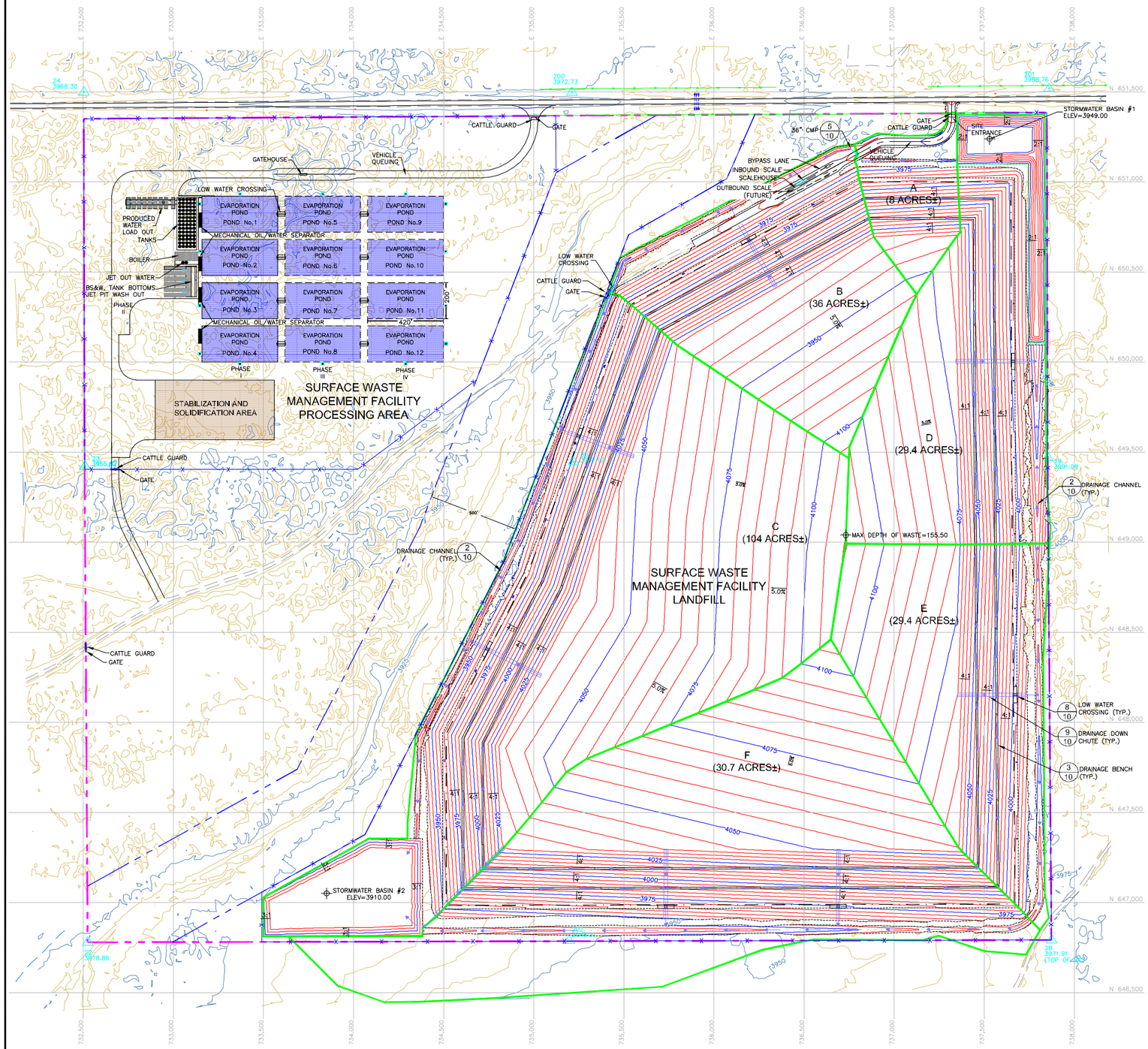
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LANDFILL CROSS SECTIONS

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213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
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LEGEND

- SITE BOUNDARY (562 ACRES±)
- WATER FEATURE SETBACK (67 ACRES±)
- LIMIT OF WASTE
- LANDFILL PHASE BOUNDARY
- LANDFILL UNIT BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- 3975 — 25' EXISTING CONTOUR
- 5' EXISTING CONTOUR
- 3975 — 25' DESIGN CONTOUR
- 5' DESIGN COUNTOUR
- TOP/TOE OF SLOPE
- PAVED ROAD AND SHOULDER (NM 529)
- EXISTING UNPAVED ROAD/TRAIL
- PROPOSED FACILITY ACCESS ROAD
- DIRECTION OF STORMWATER FLOW
- LEACHATE EXTRACTION RISER PIPES
- LEACHATE CLEANOUT RISER PIPES
- A (8 ACRES±) — DRAINAGE AREA
- 29 3991.09 — SURVEY CONTROL POINT
- EXISTING CULVERT
- NEW CULVERT
- HYDROGEN SULFIDE MONITORING STATION
- ROAD SIGN
- 8/10 — DETAIL NUMBER / SHEET NUMBER
- N 650,500 / E 738,000 — SITE GRID

NOTES:

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STORMWATER DISCHARGE			
DRAINAGE ID	DRAINAGE AREA (ACRES)	FLOW RATE (CFS)	VOLUME (ACRE-FT)
A	8	42	1.5
B	36	103	6.6
C	104	183	19.1
D	43	142	7.9
E	39	103	7.2
F	89	196	16.3

RETENTION BASIN CAPACITIES					
BASIN ID	CONTRIBUTING DRAINAGE AREAS	DISCHARGE VOLUME (ACRE-FT)	BASIN CAPACITY W/ 1 FT. FREEBOARD (ACRE-FT)	BASIN MAX. CAPACITY W/O 1 FT. FREEBOARD (ACRE-FT)	FACTOR OF SAFETY
1	D+NE RUN-ON	55.2	61.0	65.3	1.2
2	A+B+C+E+F+SE RUN-ON	58.1	61.5	68.6	1.2

NORTH

0 200' 400'

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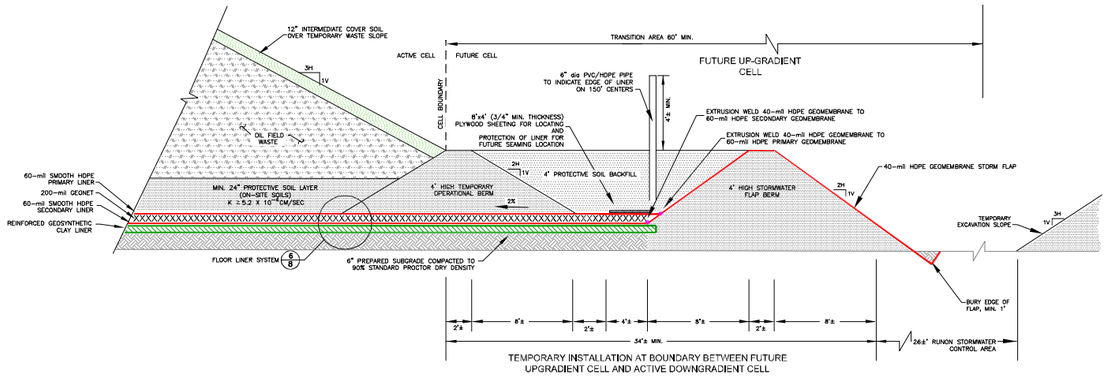
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LANDFILL COMPLETION DRAINAGE PLAN

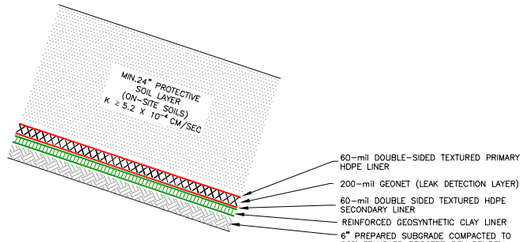
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Bernalillo, New Mexico, USA
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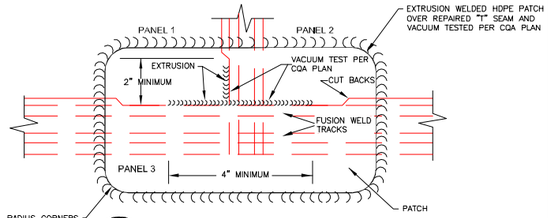
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APPROVED BY: IKG	gel@gordonenvironmental.com	



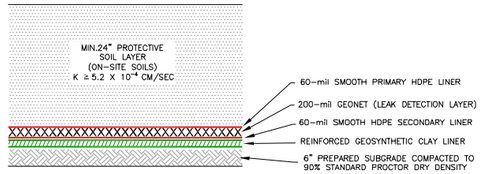
1/8 TYPICAL TRANSITION AREA LINER TERMINATION
NOT TO SCALE



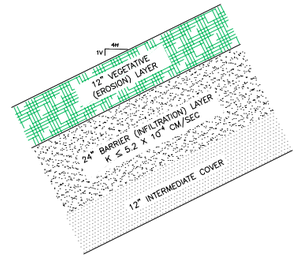
5/8 SIDEWALL LINER SYSTEM
NOT TO SCALE



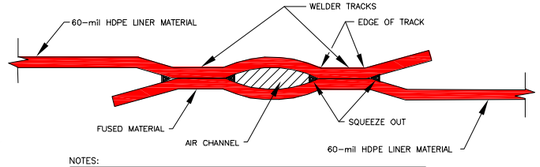
11/8 TYPICAL "T" AT BUTT SEAM
PLAN VIEW NOT TO SCALE



6/8 FLOOR LINER SYSTEM
NOT TO SCALE

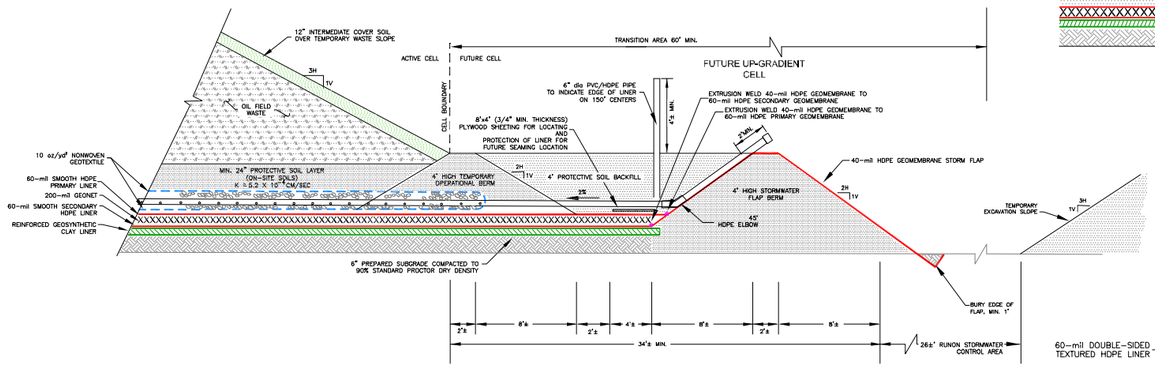


SIDESLOPE SECTION FINAL COVER EVAPOTRANSPORATION DESIGN
7/8
NOT TO SCALE

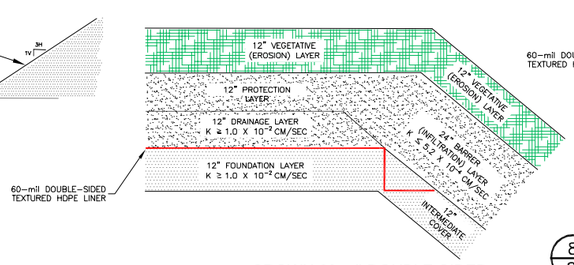


NOTES:
1. BOTH AREAS OF FUSED MATERIAL SHOULD BE VOID OF ANY SEAM LINES.
2. EDGE OF TRACKS NOT TO CUT THE LINER.
3. AIR CHANNEL SHOULD BE CLEAR.
4. BOTH WELDER TRACKS SHALL BE EQUAL WIDTHS.
5. SQUEEZE OUT SHOULD BE JUST BARELY VISIBLE IN ALL 4 LOCATIONS WHEN VIEWED IN THE TEST CROSS-SECTION.

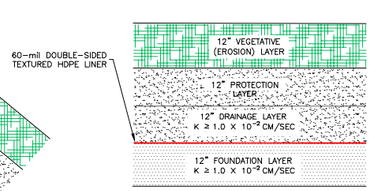
12/8 TYPICAL FUSION WELD
SECTION VIEW NOT TO SCALE



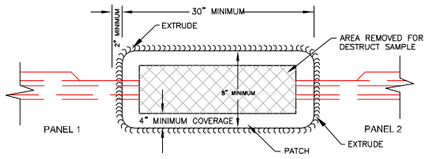
2/8 TEMPORARY LEACHATE COLLECTION RISER PIPE
NOT TO SCALE



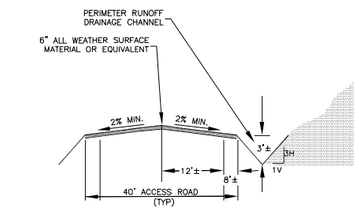
10/8 CROWN 60-mil DOUBLE-SIDED TEXTURED HDPE LINER TERMINATION
NOT TO SCALE



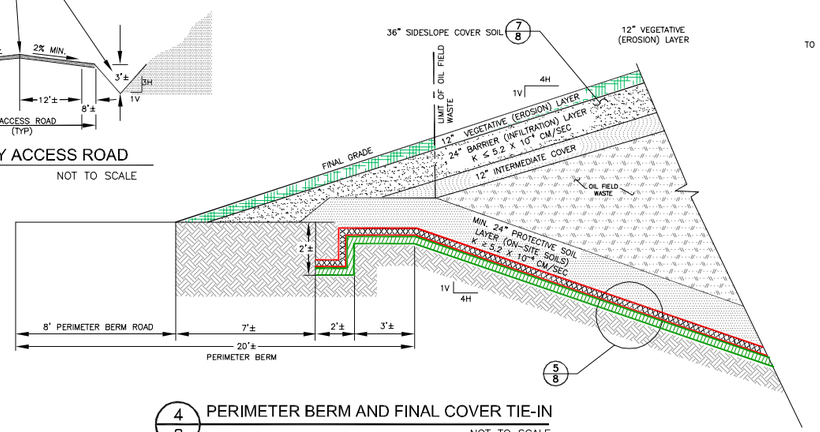
CROWN OF LANDFILL FINAL COVER SECTION PRESCRIPTIVE DESIGN
8/8
NOT TO SCALE



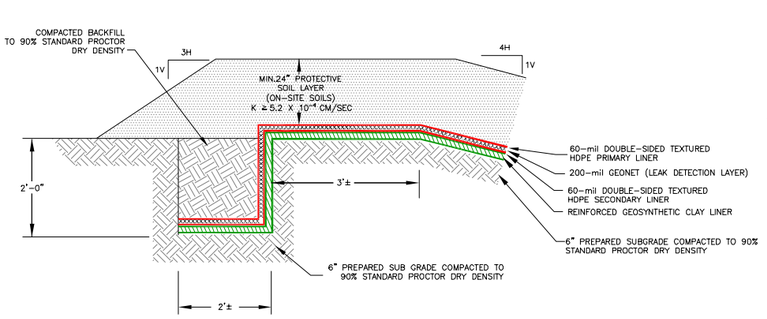
13/8 TYPICAL DESTRUCT SAMPLE PATCH 60-mil HDPE LINER
PLAN VIEW NOT TO SCALE



3/8 FACILITY ACCESS ROAD
NOT TO SCALE

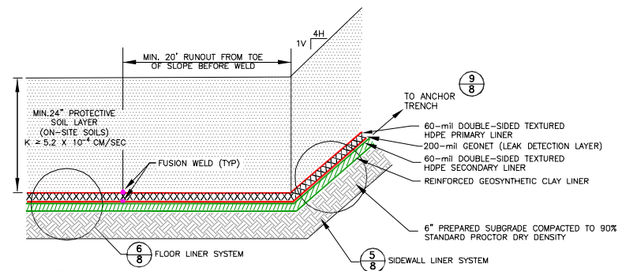


4/8 PERIMETER BERM AND FINAL COVER TIE-IN
NOT TO SCALE



NOTE: COMPACTED SOIL BACKFILL SHALL BE GRADED SO THAT WATER DRAINS AWAY FROM THE ANCHOR TRENCH.

9/8 ANCHOR TRENCH
SECTION VIEW NOT TO SCALE



14/8 LINER RUNOUT ON LANDFILL FLOOR
NOT TO SCALE

I, KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

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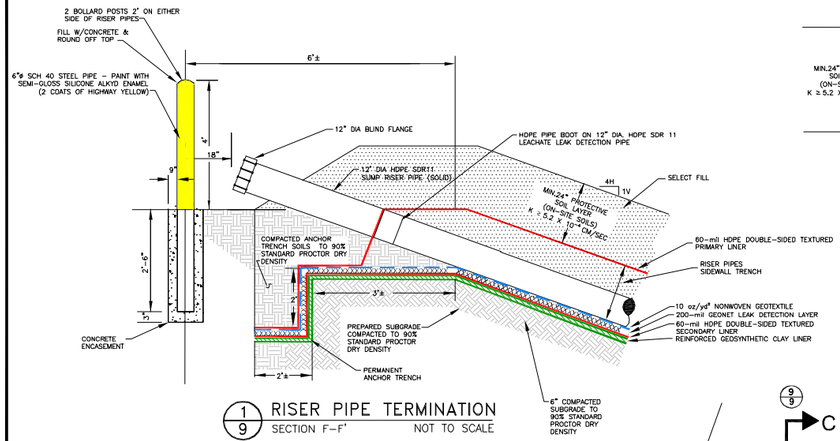
LINER SYSTEM AND COVER DETAILS

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

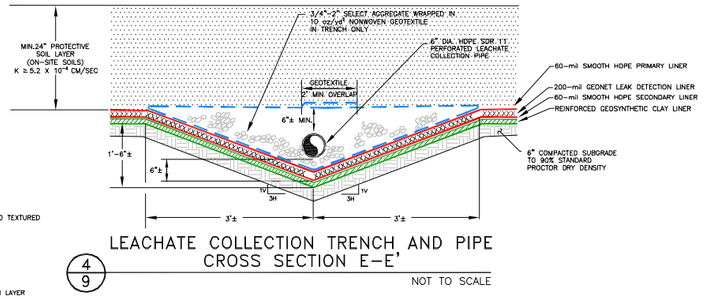
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APPROVED BY: IKG	gel@gordonenvironmental.com	

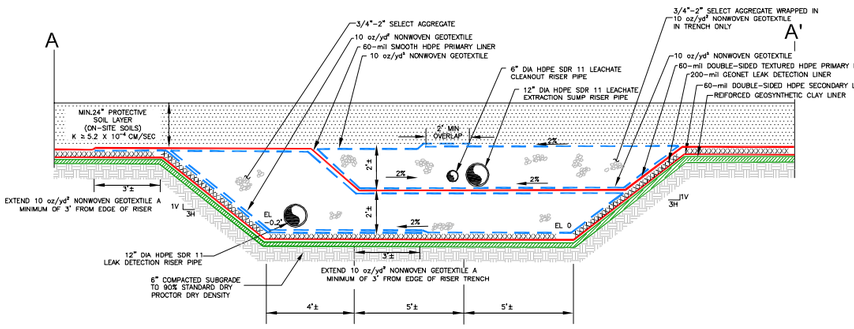
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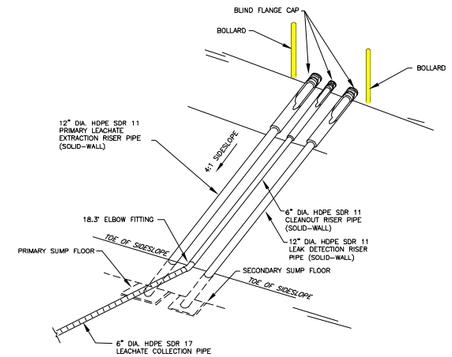
1/9 RISER PIPE TERMINATION
SECTION F–F' NOT TO SCALE



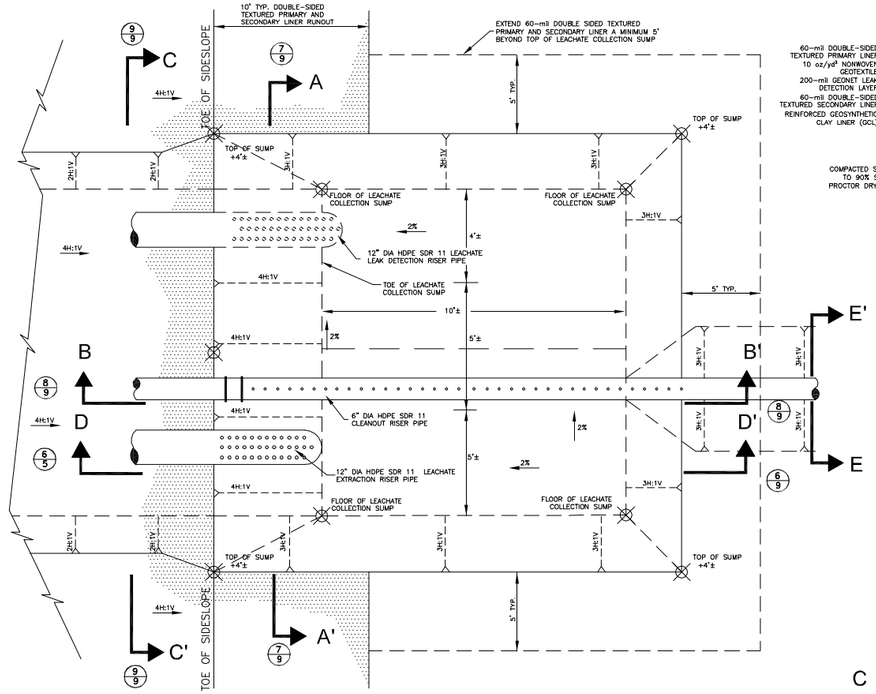
4/9 LEACHATE COLLECTION TRENCH AND PIPE CROSS SECTION E–E'
NOT TO SCALE



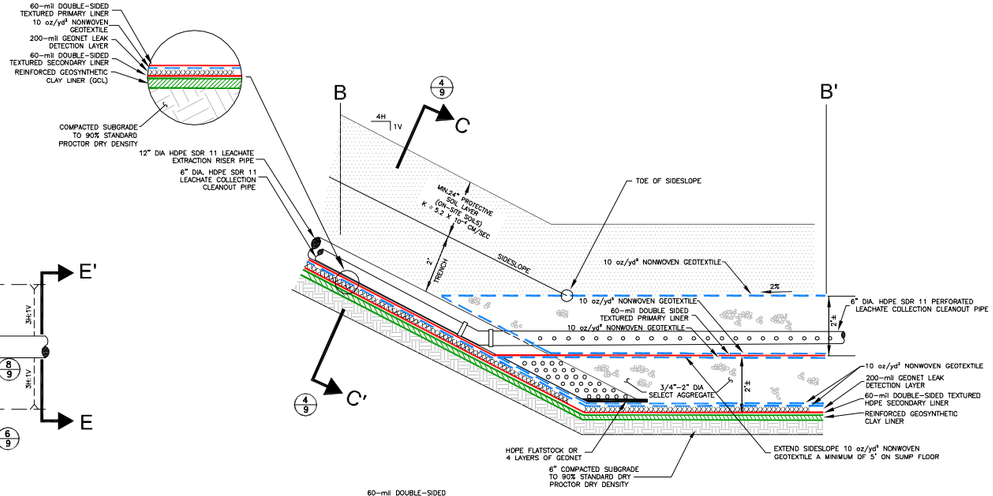
7/9 LEACHATE COLLECTION SUMP
SECTION A–A' NOT TO SCALE



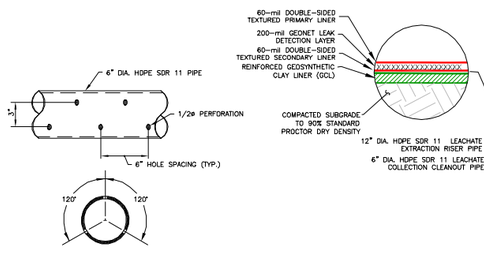
2/9 SUMP CLEANOUT/RISER CONFIGURATION SCHEMATIC
NOT TO SCALE



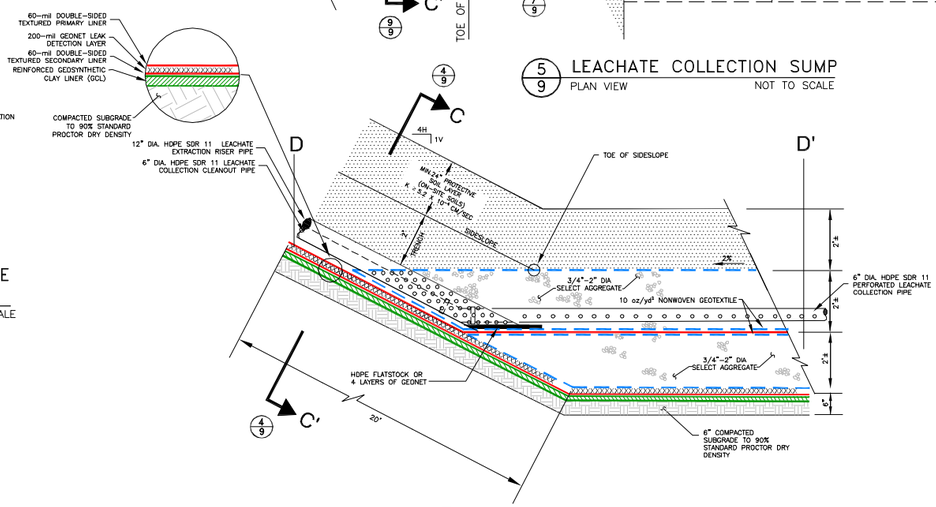
5/9 LEACHATE COLLECTION SUMP
PLAN VIEW NOT TO SCALE



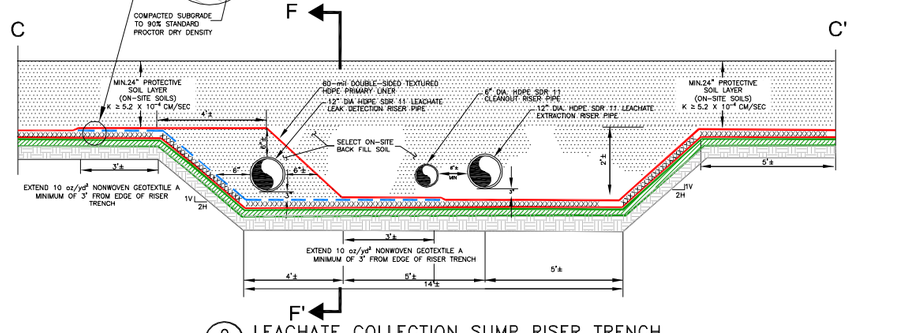
8/9 LEAK DETECTION RISER PIPE
SECTION B–B' NOT TO SCALE



3/9 PERFORATED LEACHATE COLLECTION PIPE
NOT TO SCALE



6/9 LEACHATE EXTRACTION RISER PIPE
SECTION D–D' NOT TO SCALE



9/9 LEACHATE COLLECTION SUMP RISER TRENCH
SECTION C–C' NOT TO SCALE

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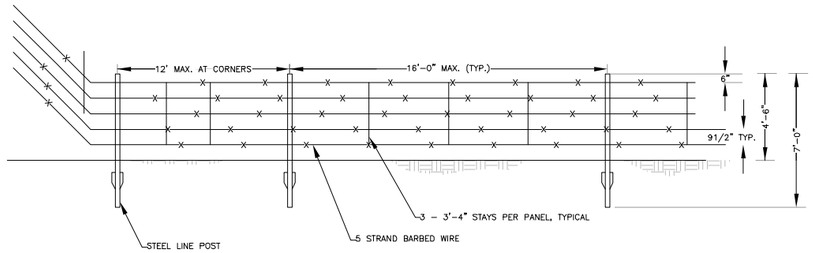
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LEACHATE COLLECTION SYSTEM DETAILS

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LEA COUNTY, NEW MEXICO

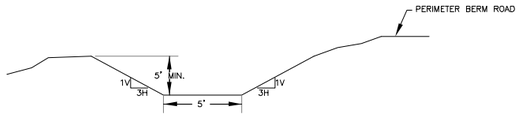
Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

DATE: 10/21/2013	CAD: 09 LEACHATE DET.dwg	PROJECT #: 542.01.01
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APPROVED BY: IKG	gel@gordonenvironmental.com	



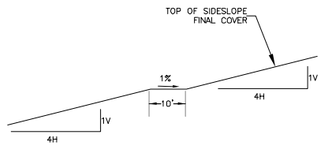
1/10 5-STRAND BARBED WIRE FENCE

NOT TO SCALE



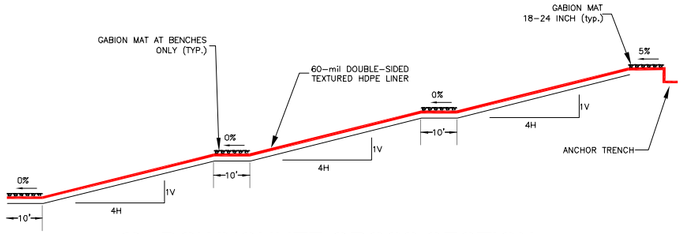
2/10 DRAINAGE CHANNEL TYPICAL SECTION

NOT TO SCALE



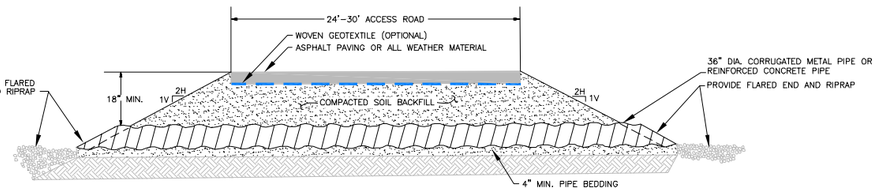
3/10 DRAINAGE BENCH

NOT TO SCALE



4/10 DOWNCHUTE CROSS SECTION (LONGITUDINAL)

NOT TO SCALE

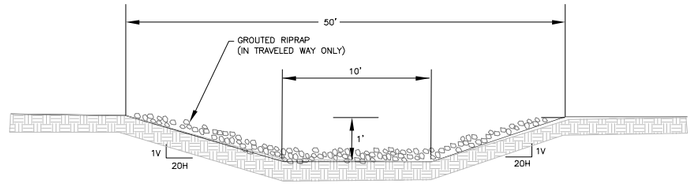


NOTES:

1. INVERT OF CORRUGATED METAL PIPE TO BE DETERMINED DURING INSTALLATION.
2. PROVIDE RIPRAP OR EQUIVALENT EROSION PROTECTION AT INLET AND OUTLET OF CULVERT.
3. PROVIDE FLARED END SECTION AT INLET AND OUTLET OF CULVERT TO PROVIDE A SMOOTH TRANSITION OF FLOW.

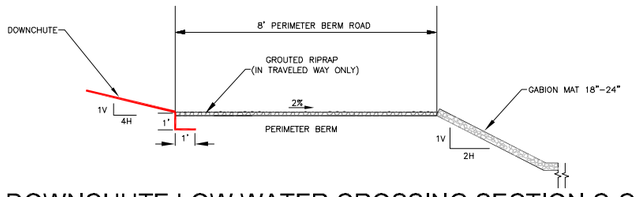
5/10 TYPICAL CULVERT INSTALLATION

NOT TO SCALE



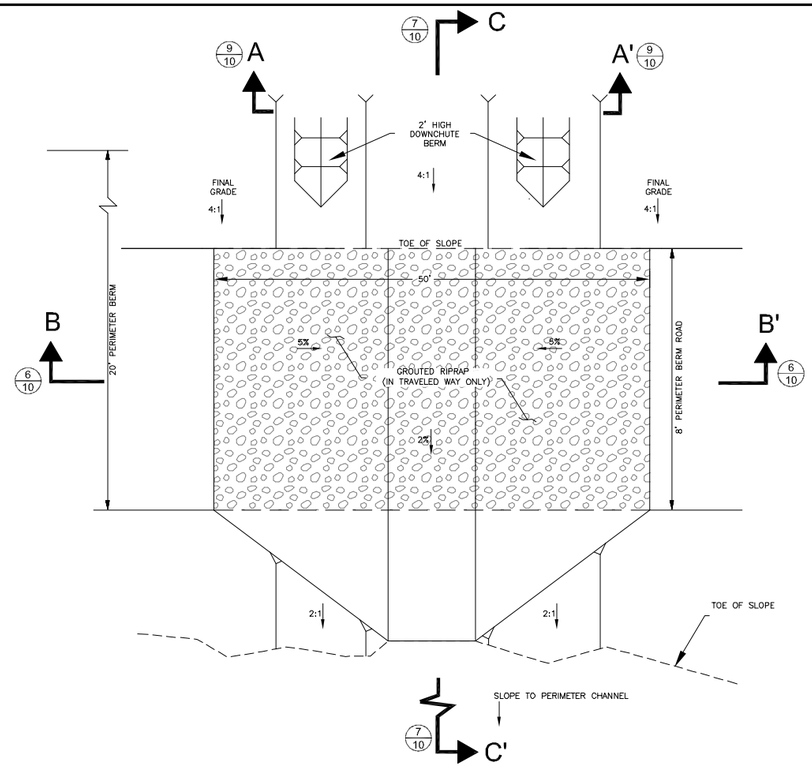
6/10 DOWNCHUTE LOW WATER CROSSING SECTION B-B'

NOT TO SCALE



7/10 DOWNCHUTE LOW WATER CROSSING SECTION C-C'

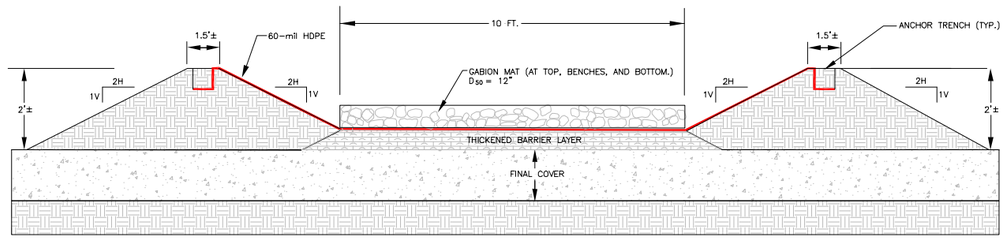
NOT TO SCALE



8/10 CHANNEL INTERSECTION/DOWNCHUTE LOW WATER CROSSING

PLAN VIEW

NOT TO SCALE



9/10 TYPICAL RIP-RAP LINED PORTION OF DOWNCHUTE SECTION A-A'

NOT TO SCALE

NOT FOR CONSTRUCTION

Drawing:P:\acad 2003\542.01.01\PERMIT PLANS\10 STORMWATER DET.dwg

Date/Time:Nov. 05, 2013-08:31:28 ; LAYOUT: D (LS)

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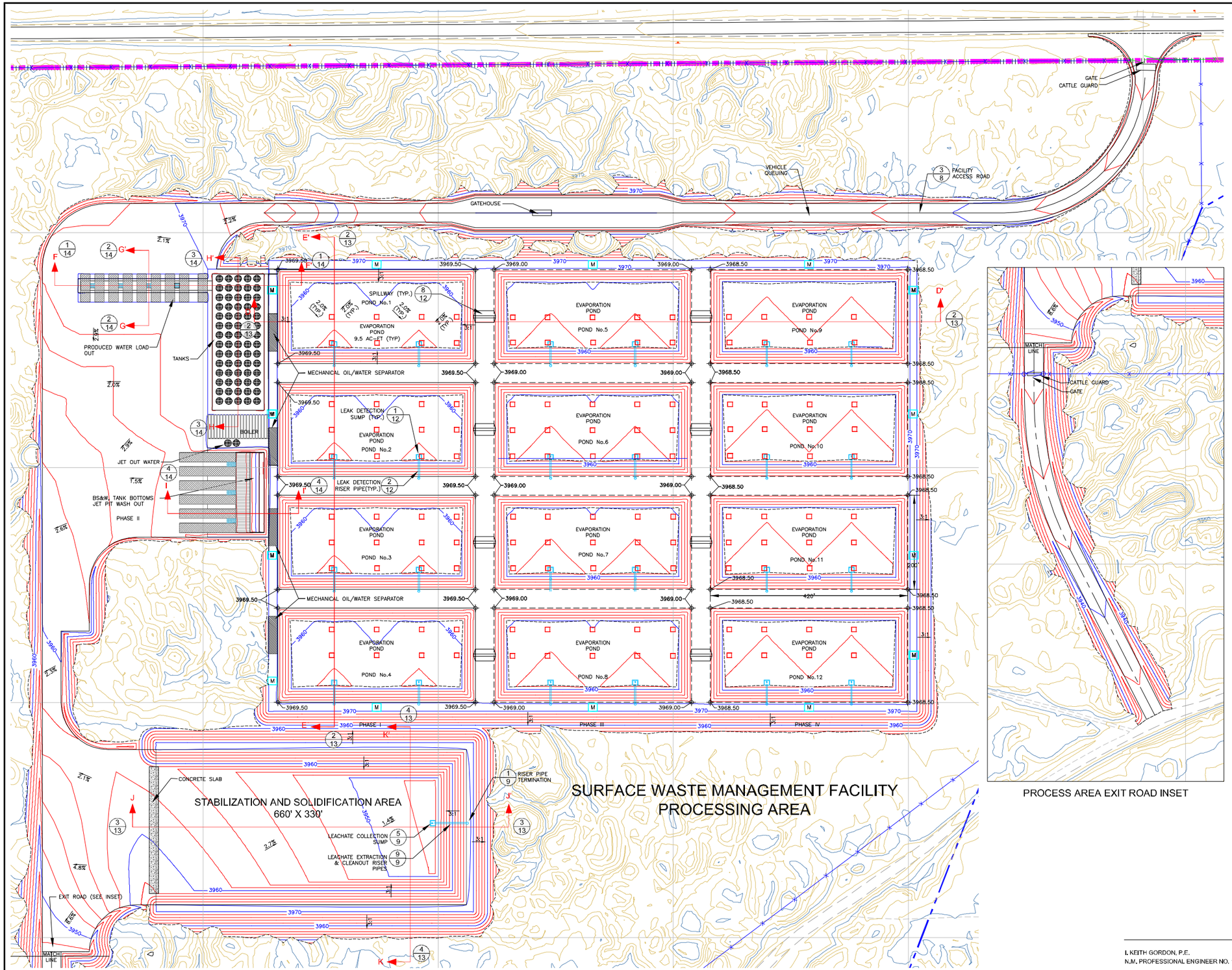
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STORMWATER DRAINAGE DETAILS

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DRAWN BY: DMI	REVIEWED BY: MRH	SHEET 10 of 14
APPROVED BY: IKG	gek@gordonenvironmental.com	



PROCESS AREA EXIT ROAD INSET

LEGEND

- SITE BOUNDARY (562 ACRES±)
- DRAINAGE FEATURE SETBACK (67 ACRES±)
- 25' EXISTING CONTOUR
- 5' EXISTING CONTOUR
- 25' DESIGN CONTOUR
- 5' DESIGN COUNTOUR
- TOP/TOE OF SLOPE
- EXISTING FENCE
- PROPOSED FENCE
- PAVED ROAD AND SHOULDER (NM 529)
- EXISTING UNPAVED ROAD/TRAIL
- PROPOSED FACILITY ACCESS ROAD
- CULVERT
- CATTLE GUARD
- ROAD SIGN
- HYDROGEN SULFIDE MONITORING STATION
- EVAPORATORS
- LEAK DETECTION SUMP & RISER PIPE
- CROSS SECTION LOCATION
- DETAIL NUMBER / SHEET NUMBER
- SITE GRID

NOTES:

1. BASE MAP PROVIDED BY DALLAS AERIAL SURVEYS, INC
2. FIELD SURVEY PROVIDED BY PETTIGREW & ASSOCIATES PA (12/13/2012)
3. DATE OF AERIAL PHOTOGRAPHY: 02-28-2013
4. SITE GRID BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAVD 88.
5. THE DNCS SURFACE WASTE MANAGEMENT FACILITY COMPRISES A TOTAL OF 495 ACRES ± (i.e., the processing area (177 acres ±) and the landfill (318 acres ±).

VOLUME

ENTRANCE ROAD

CUT VOLUME	11583	CU. YD.
FILL VOLUME	6290	CU. YD.
NET VOLUME	5293	CU. YD.<CUT>

EVAP PONDS

CUT VOLUME	182856	CU. YD.
FILL VOLUME	106752	CU. YD.
NET VOLUME	76104	CU. YD.<CUT>

PROCESSING AREA

CUT VOLUME	51153	CU. YD.
FILL VOLUME	24228	CU. YD.
NET VOLUME	26925	CU. YD.<CUT>

STABILIZATION AND SOLIDIFICATION AREA

CUT VOLUME	11996	CU. YD.
FILL VOLUME	51002	CU. YD.
NET VOLUME	39006	CU. YD.<FILL>

EXIT ROAD

CUT VOLUME	18072	CU. YD.
FILL VOLUME	0	CU. YD.
NET VOLUME	18072	CU. YD.<CUT>

NORTH

0 100 200

PROCESSING AREA LAYOUT

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

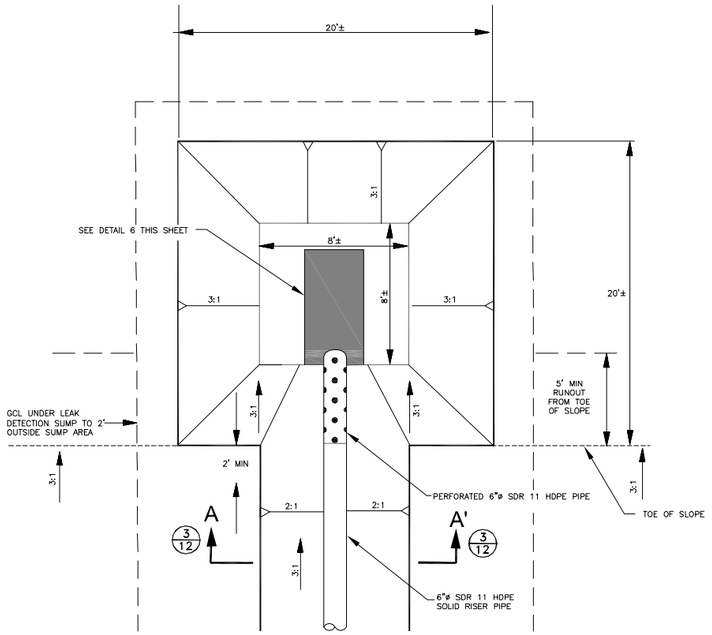
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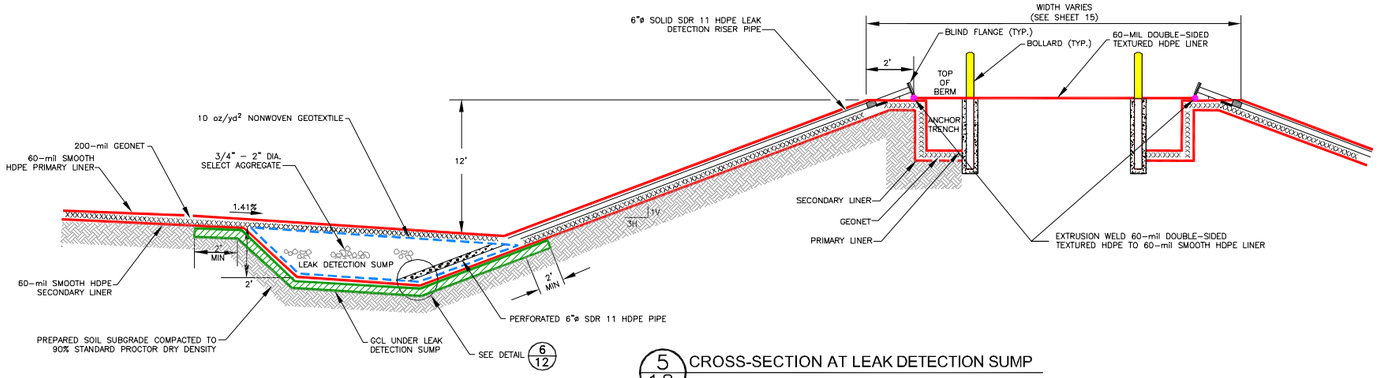
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DATE: 10/21/2013	CAD: 11 PROCESS AREA .DWG	PROJECT #: 542.01.01
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APPROVED BY: IKG	gek@gordonenvironmental.com	

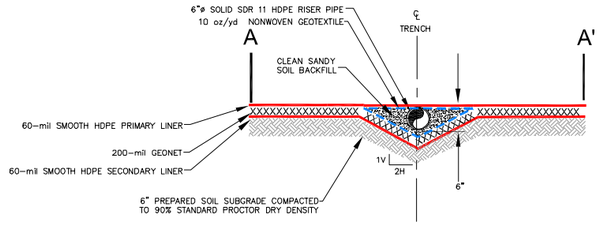
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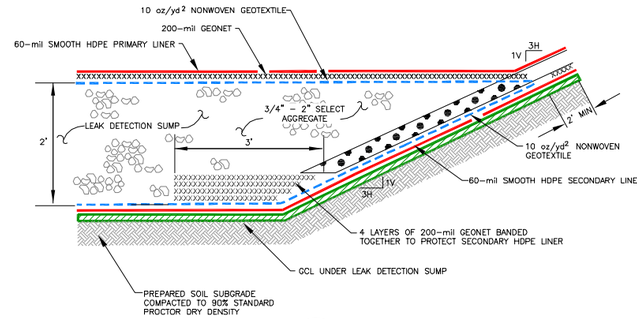
1/12 LEAK DETECTION SUMP
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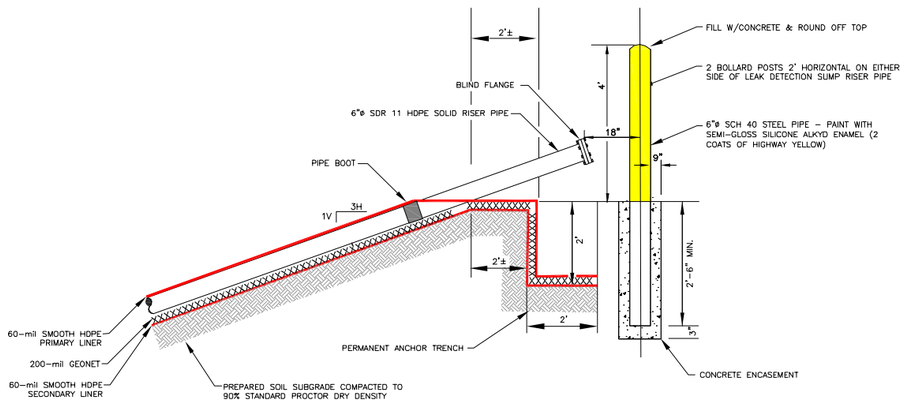
5/12 CROSS-SECTION AT LEAK DETECTION SUMP
NOT TO SCALE



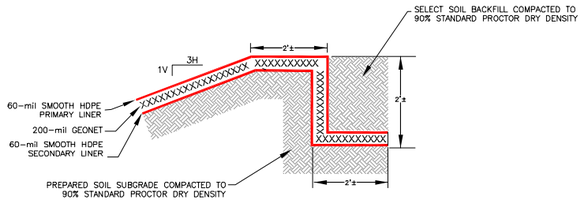
3/12 LEAK DETECTION SUMP RISER PIPE CROSS SECTION A-A'
NOT TO SCALE



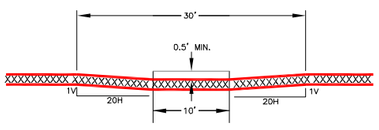
6/12 SUMP FLOOR DETAIL
NOT TO SCALE



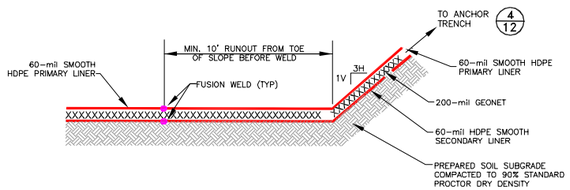
2/12 LEAK DETECTION SUMP RISER PIPE
SECTION VIEW NOT TO SCALE



4/12 ANCHOR TRENCH DETAIL
NOT TO SCALE



8/12 SPILLWAY
NOT TO SCALE



7/12 LINER RUNOUT ON POND FLOOR
NOT TO SCALE

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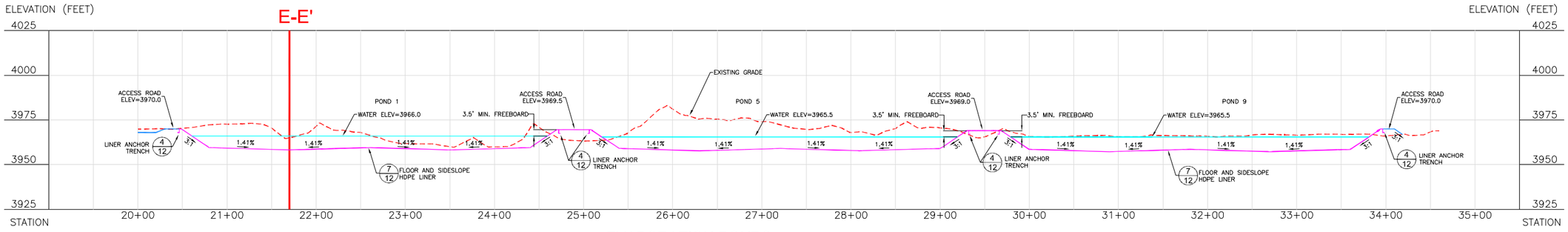
EVAPORATION POND DETAILS

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

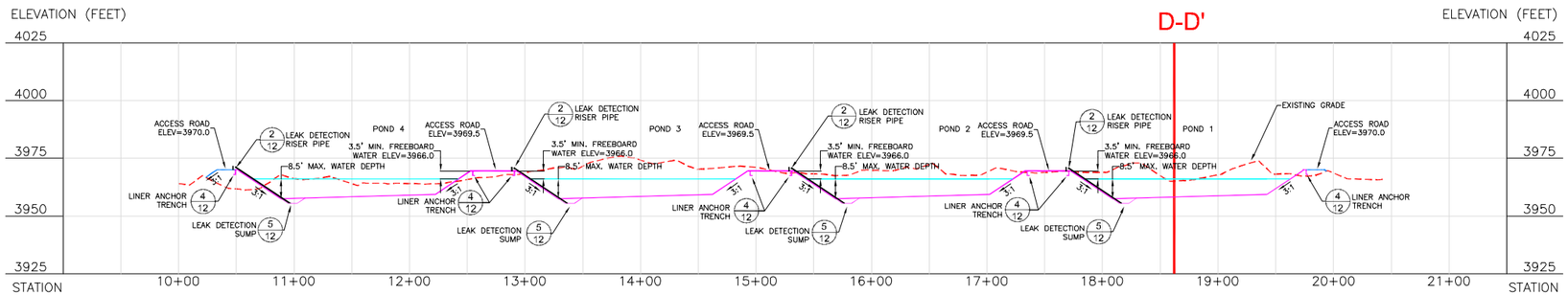
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APPROVED BY: IKG	gek@gordonenvironmental.com	

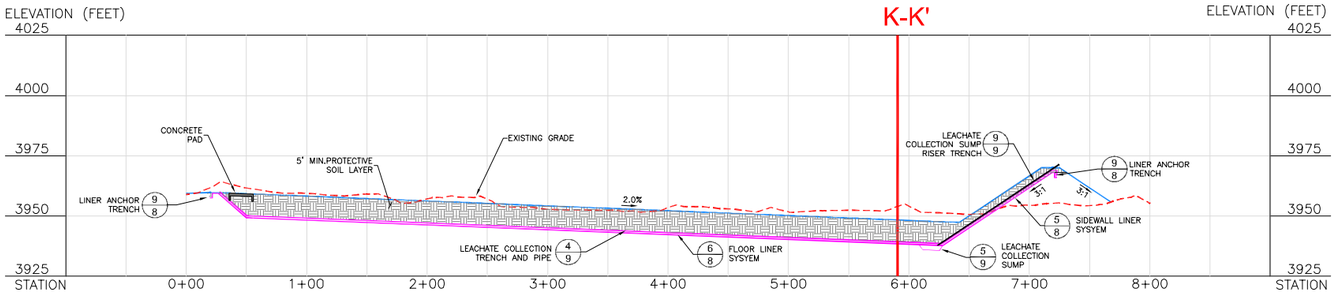
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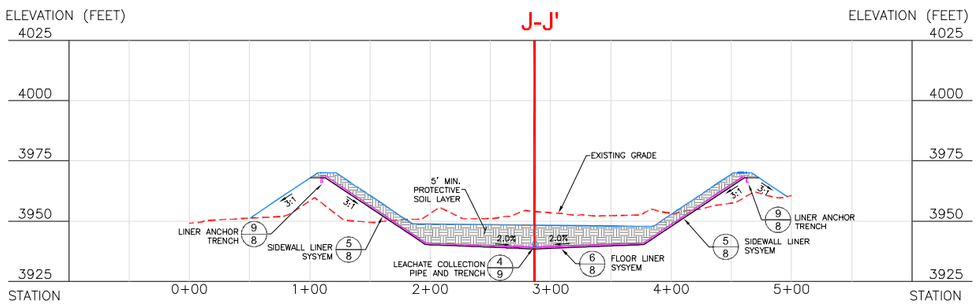
1/13 EVAPORATION PONDS SECTION D-D'



2/13 EVAPORATION PONDS SECTION E-E'



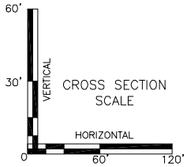
3/13 STABILIZATION AND SOLIDIFICATION AREA SECTION J-J'

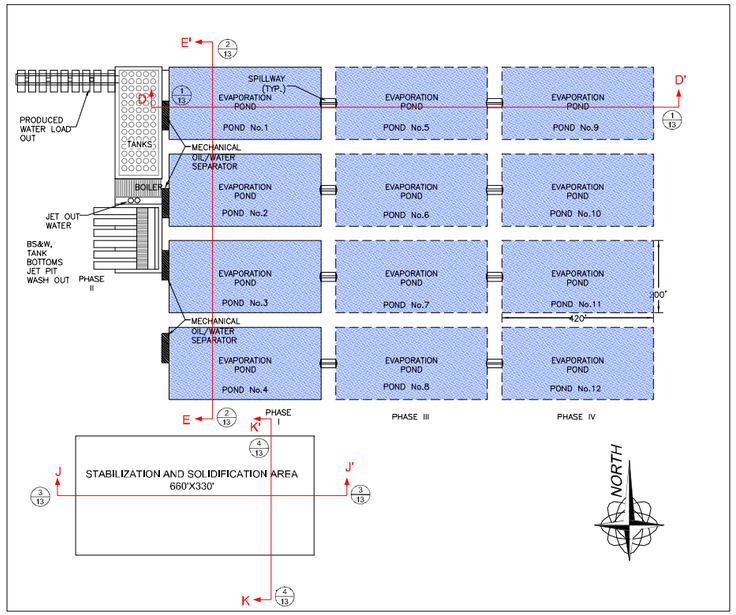


4/13 STABILIZATION AND SOLIDIFICATION AREA SECTION K-K'

LEGEND

- EXISTING GROUND
- DOUBLE LINER SYSTEM
- WATER SURFACE
- D D' CROSS SECTION LOCATION
- 1/13 DETAIL NUMBER / SHEET NUMBER





KEY MAP
N.T.S.

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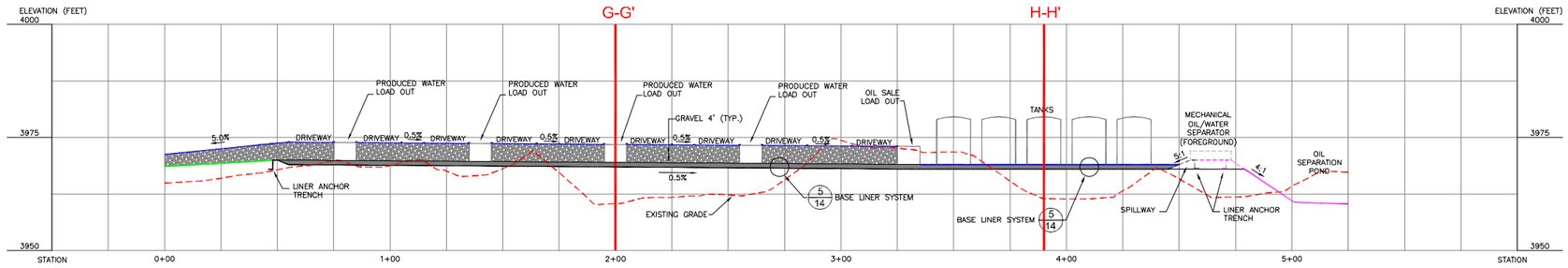
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EVAPORATION POND AND STABILIZATION/SOLIDIFICATION AREA CROSS SECTIONS

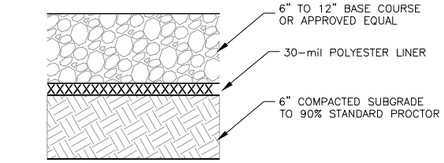
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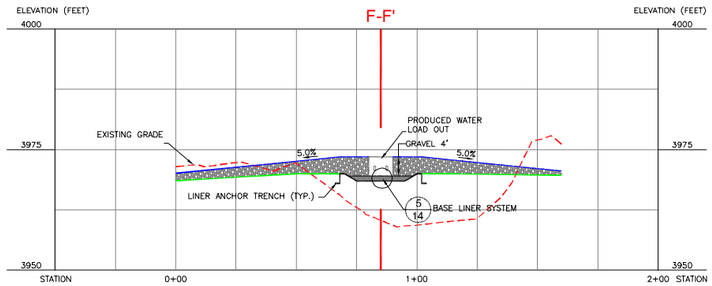
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APPROVED BY: IKG	gek@gordonenvironmental.com	



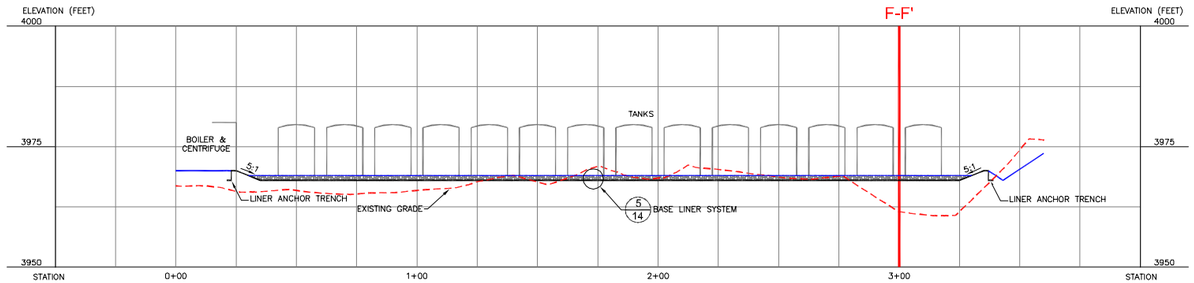
1/14 PROCESSING AREA SECTION F-F'



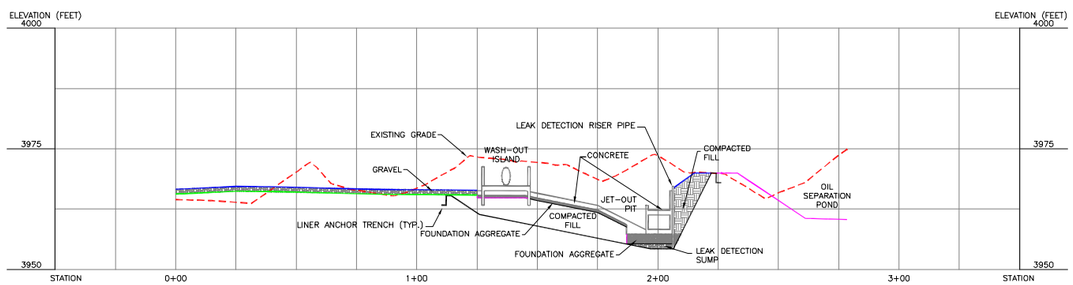
5/14 BASE LINER SYSTEM
NOT TO SCALE



2/14 PROCESSING AREA SECTION G-G'



3/14 PROCESSING AREA SECTION H-H'



4/14 PROCESSING AREA SECTION I-I'

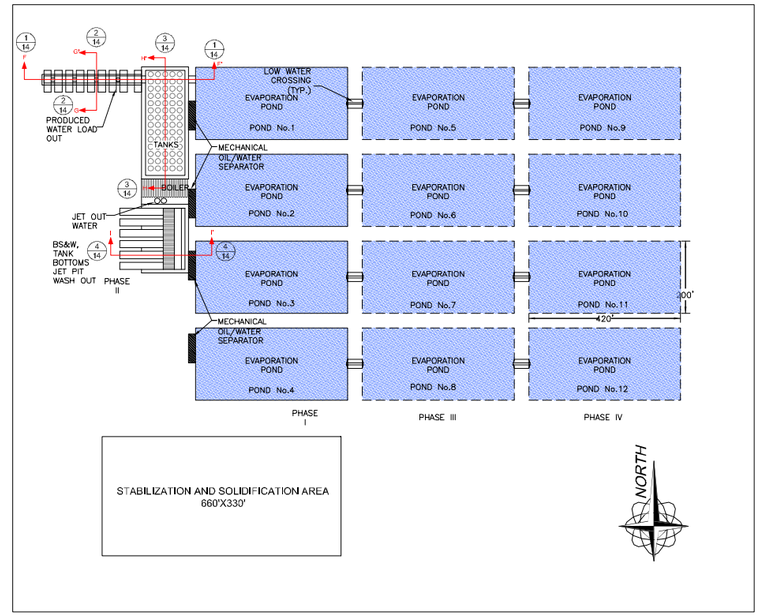
LEGEND

- EXISTING GROUND
- FINISHED GRADE
- SUBGRADE
- 30-mil POLYESTER LINER
- 60-mil HDPE LINER

F F' — CROSS SECTION LOCATION

1/14 — DETAIL NUMBER / SHEET NUMBER

30' VERTICAL, 15' — CROSS SECTION SCALE — HORIZONTAL 0, 30', 60'



KEY MAP
N.T.S.

PROCESSING AREA LAYOUT CROSS SECTIONS

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

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N.M. PROFESSIONAL ENGINEER NO. 10984

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APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

ATTACHMENT III.1.B

LINER LONGEVITY ARTICLE:

GEOSYNTHETICS MAGAZINE, OCT/NOV 2008

How long will my liner last?

| What is the remaining service life of my HDPE geomembrane?

By Ian D. Peggs, P.E., P.Eng., Ph.D.

Introduction

In his keynote lecture at the GeoAmericas-2008 conference last March, Dr. Robert Koerner (et al., 2008) of the Geosynthetic Institute (GSI) reported the ongoing Geosynthetic Research Institute (GRI) work to make the first real stab at assessing the service lives of high-density polyethylene (HDPE), linear low-density polyethylene (LLDPE), reinforced PE, ethylene propylene diene terpolymer (EPDM), and flexible polypropylene (fPP) exposed geomembranes.

The selected environment simulated that of Texas, USA, in sunny ambient temperatures between ~7°C (45°F) and 35°C (95°F). Of course, an exposed black HDPE geomembrane in the sun will achieve much higher temperatures, probably in excess of 80°C (176°F).

I do not know what the temperature would be at 150-300mm above the liner (for those still specifying this parameter), but it is quite immaterial. The only temperature of concern is the actual geomembrane temperature.

The lifetimes are shown in **Table 1**, but it must be recognized that these data are for specific manufactured products with specific formulations. The "greater than" notation indicates that laboratory exposures (incubations) are still on-going, not that some samples have failed after the indicated time period. The PE-R-1 material is a thin LLDPE, so it might be expected to be the first to reach the defined end of life; the half-life—the time to loss of 50% of uniaxial tensile properties.

It is interesting to note that HDPE-1 and LLDPE-1 are proceeding apace, but it would be expected that the LLDPE-1 would reach its half-life earlier than HDPE-1. However, this does not automatically follow. With adequate additive formulations, perhaps LLDPE could be left exposed and demonstrate more weathering resistance than some HDPEs. This demonstrates the fact that all PEs, whether HD or LLD, are not identical—they can have different long-term performances dependent on the PE resin used and the formulation of the stabilizer package. However, such differences are not evident in the conventional mechanical properties such as tensile strength/elongation, puncture and tear resistances, and so on.

The two fPPs are performing well. However, there had also been an fPP-1, one of the first PP geomembranes that did not perform well. This was due to a totally inappropriate stabilizer formulation. That particular product lasted 1.5 years in service. In

Final Inspection continued on page 44

Type	Specification	Predicted Lifetime in Texas, USA
HDPE-1	GRI-GM13	>28 years (Incubation ongoing)
LLDPEE-1	GRI-GM17	>28 years (Incubation ongoing)
EPDM-1	GRI-GM21	>20 years (Incubation ongoing)
PE-R-1	GRI-GM22	≈17 years (reached halflife)
fPP-2	GRI-GM18 (temp. susp.)	>27 years (Incubation ongoing)
fPP-3	GRI-GM18 (temp. susp.)	>17 years (Incubation ongoing)

Table 1 | Estimated exposed geomembrane lifetimes

| Ian Peggs is president of I-CORP International Inc. and is a member of *Geosynthetics* magazine's Editorial Advisory Committee.

Final Inspection continued from page 56

the QUV weatherometer, it lasted 1,800 light hours at 70°C (158°F). Therefore, the lab/field correlation is that 1,000 QUV light hours is equivalent to a 0.83yr service life under those specific environmental conditions.

At another location in Texas, Koerner/GRI found 1,000hr of QUV exposure was equivalent to 1.1 year actual field exposure. Consequently, for Texas exposures GRI is using a correlation of 1000hr QUV exposure as equivalent to 1yr of in-service exposure. Clearly, the correlation would be different in less sunny and colder environments.

The failed fPP-1 liner was replaced with a correctly stabilized fPP that, subsequently, performed well.

So how can we evaluate the condition of our exposed liners in a simple and practical manner to ensure they will continue to provide adequate service lifetimes and to get sufficient warning of impending expiration?

For each installation, a baseline needs to be established, and changes from that baseline need to be monitored.

A liner lifetime evaluation program

Rather than be taken by surprise when a liner fails or simply expires, it should be possible to monitor the condition of the liner to obtain a few years of notice for impending expiration. One can then plan for a timely replacement without the potential for accidental environmental damage and undesirable publicity. A program of periodic liner-condition assessment is proposed.

... it should be possible to monitor the condition of the liner to obtain a few years of notice for impending expiration.

While estimated correlations might be made for other locations using historical weather station sunshine and temperature data, there is no question that the best remaining lifetime assessments will be obtained using samples removed from the field installation of interest.

A lifetime in excess of 28yr, demonstrated for a recently-made HDPE geomembrane, is comparable to the present actual service periods of as long as 30-35yr. However, actual lifetimes of as low as ~15yr have also been experienced.

Do service lifetimes now exceeding 30yr mean that we might expect to see another round of stress cracking failures as exposed liners finally oxidize sufficiently on the surface to initiate stress cracking?

This would be frustrating after resolving the early 1980s problems with stress cracking failures at welds and stone protrusions when the liners contracted at low temperatures, but it is the way end-of-life will become apparent. And will that be soon or in another 5-20 years? It would be useful to know.

For baseline data, it would be useful to have some archive material to test, but that is not usually available. Manufacturers often discard retained samples after about 5 years. Perhaps facility owners should be encouraged to keep retained samples at room temperature and out of sunlight. The next best thing is to use material from the anchor trench or elsewhere that has not experienced extremes in temperature and that has not been exposed to UV radiation or to expansion/contraction stresses.

Less satisfactory options are to use the original NSF 54 specifications, the manufacturer's specifications, or the GRI-GM13 specifications at the appropriate time of liner manufacturing. The concern with using these specifications is that while aged material may meet them, there is no indication of whether the measured values have significantly decreased from the actual as-manufactured values that generally significantly exceed the specification.

A final option for the baseline would be to use the values at the time of the first liner assessment.

The first liner condition assessment would consist of a site visit during which a general visual examination would be done together with a mechanical probing of the edges of welds. A visual examination would include the black/gray shades of different panels that might indicate low carbon contents.

A closer examination should be done using a loupe (small magnifier) on suspect areas such as wrinkle peaks, the tops and edges of multiple extrusion weld beads, and the apex-down creases of round die-manufactured sheet.

The last detail is significant because the combination of oxidizing surface and exposed surface tension when the liner contracts at low temperatures and the crease is pulled flat can be one of the first locations to crack. The apex-up creases do not fail at the same time because the oxidized exposed surface is under compression (or less tension) when the crease is flattened out.

Appropriate samples for detailed laboratory testing will be removed.

It may be appropriate to do a water lance electrical integrity survey on the exposed sideslopes, but this would only be effective on single liners, and on double liners with a composite primary liner, a conductive geomembrane, or a geocomposite with a conductive geotextile on top.

A sampling and testing regime

A liner lifetime evaluation program should be simple, meaningful, and cost-effective.

While it will initially require expert polymer materials science/engineering input to analyze the test data and to define the critical parameters, it should ultimately be possible to use an expert system to automatically make predictions using the input test data.

Small samples will be taken from deep in the anchor trench and from appropriate

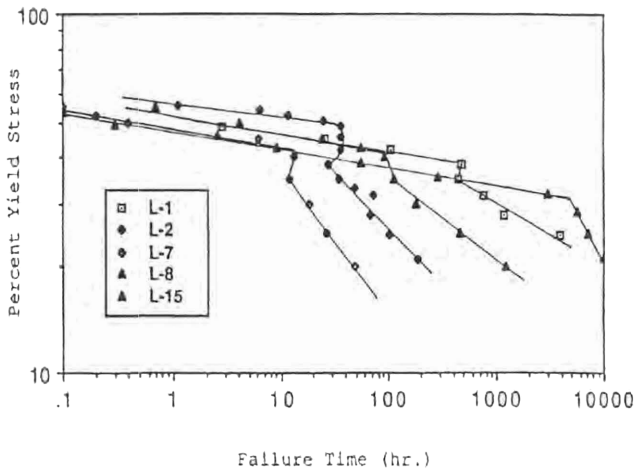


Figure 1 | Standard stress rupture curves for five HDPE geomembranes (Hsuan, et al. 1992)

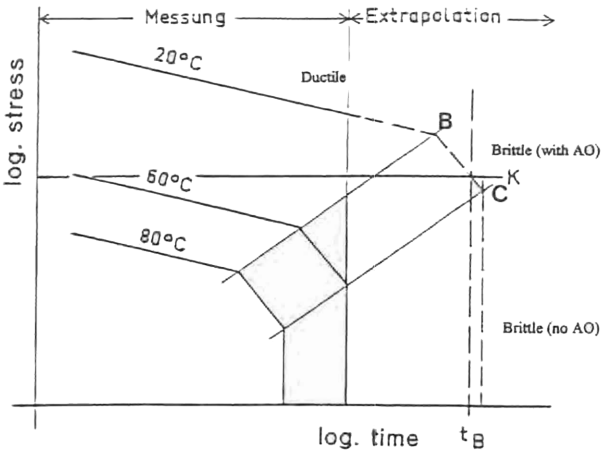


Figure 2 | Stress rupture curves showing third stage (Brittle no AO) oxidized limit. (Gaube, et al. 1985)

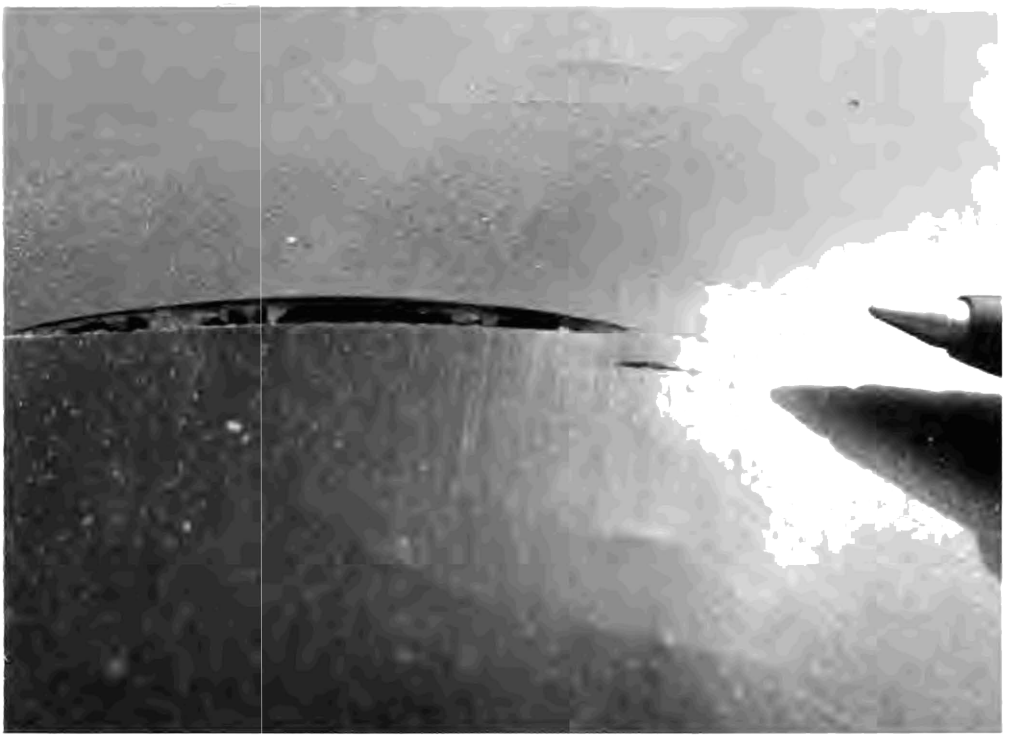


Figure 3 | Stress crack initiated by extruder die line at stone protrusion

exposed locations. Potential sites for future sample removal by the facility owner for future testing will be identified and marked by the expert during the first site visit.

The baseline sample(s) will be tested as follows:

- Single-point stress cracking resistance (SCR) on a molded plaque by ASTM D5397
- High-pressure oxidative induction time (HP-OIT) by ASTM D5885
- Fourier transform infrared spectroscopy (FTIR-ATR) on upper surface to determine carbonyl index (CI) on nonarchive samples only
- Oven aging/HP-OIT (GRI-GM13)
- UV resistance/HP-OIT (GRI-GM13)

The exposed samples will be tested as follows:

- Carbon content (ASTM D1603)
- Carbon dispersion (ASTM D5596)
- Single-point SCR on molded plaque (ASTM D5397)
- Light microscopy of exposed surface, through-thickness cross sections, and thin microsections (~15 µm thick) as necessary
- HP-OIT on 0.5-mm-thick exposed surface layers from basic sheet and from sheet at edge of extruded weld bead (ASTM D5885), preferably at a double-weld bead
- FTIR-ATR on exposed surface to determine CI
- Oven aging/HP-OIT on 0.5mm surface layer (GRI-GM13)
- UV resistance/HP-OIT on 0.5 mm surface layer (GRI-GM13)

Carbon content is done to ensure adequate basic UV protection. Carbon dispersion is done to ensure uniform surface UV protection and to evaluate agglomerates that might act as initiation sites for stress cracking.

HP-OIT is used to assess the remaining amount of stabilizer additives, both in the liner panels and in the sheet adjacent to an extrusion weld. Most stress cracking is observed at the edges of extrusion

weld beads in the lower sheet, so it is important to monitor this location.

While standard OIT (ASTM D3895 at 200°C) better assesses the relevant stabilizers effective at processing (melting) and welding temperatures, the relevant changes in effective stabilizer content during continued service, including in the weld zone, will be provided by measurement of HP-OIT. There will be no future high temperature transient where knowledge of S-OIT will be useful. It is expected that the liner adjacent to the weld bead will be more deficient in stabilizer than the panel itself. Therefore, S-OIT is not considered in this program.

Note that HP-OIT is measured on a thin surface layer because the surface layer may be oxidized while the body of the geomembrane may not. If material from the full thickness of the geomembrane is used it could show a significant value of OIT, implying that there is still stabilizer present and that oxidation is far from occurring. However, the surface layer could be fully oxidized with stress cracks already initiated and propagating. A crack will then propagate more easily through unoxidized material than would initiation and propagation occur in unoxidized material.

The fact that the HP-OIT meets a certain specification value in the as-manufactured condition provides no guarantee that thermo- and photo-oxidation protection will be provided for a long time. Stabilizers might be consumed quickly or slowly while providing protection. They may also be consumed quickly to begin with, then more slowly, or vice versa.

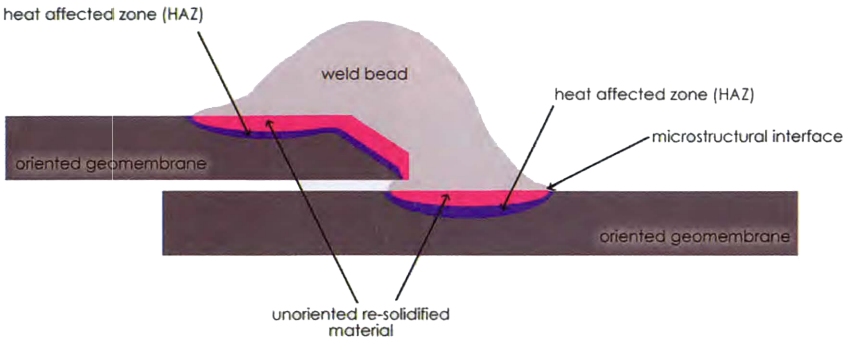


Figure 4 | Schematic of microstructure at extrusion weld

Hence, the need for continuing oven (thermal) aging and UV resistance tests. These two parameters, assessed by measuring retained HP- OIT, are critical to the assessment of remaining service life.

Oven (thermal) aging and UV resistance tests performed in this program will provide an extremely valuable data base that relates laboratory testing to in-service performance and that will further aid in more accurately projecting in-service performance from laboratory testing results.

Special considerations

Because we do not know, by OIT measurements alone, whether the surface layer is or is not oxidized (unless OIT is zero), and since we do not yet know at what level of OIT loss there might be an oxidized surface layer (the database has not yet been generated), FTIR directly on the surface of the geomembrane is performed using the attenuated total reflectance (ATR) technique to deny or confirm the presence of oxidation products (carbonyl groups).

Following the practice of Broutman, et al. (1989) and Duvall (2002) on HDPE pipes, if the ratio of the carbonyl peak at wave number 1760 cm-1 and the C-H stretching (PE) peak at wave number 1410 cm -1 is more than 0.10, there is a sufficiently oxidized surface layer that stress cracking might be initiated. For those familiar with the two slope stress rupture curve (**Figure 1**) where the brittle stress cracking region is the steeper segment below the knee, there is a third vertical part of the curve (**Figure 2**) where the material is fully oxidized and fracture occurs at the slightest stress. This is what will happen at the end of service life. But first note the times to initiation of stress cracking (the knees in the curves) in **Figure 1**—they range from ~10/hr to ~5,000/hr—clearly confirming that all HDPEs are not the same. Some are far more durable than others.

At the end of service life, at some level of OIT, there will be a critically oxidized surface layer that when stressed, such as at low temperatures by an upwards protruding stone, or by flexing due to wind uplift, will initiate a stress crack on the surface that will propagate downward through the geomembrane, as shown by the crack in **Figure 3**.

This crack, initiated at a stress concentrating surface die mark, occurred when the liner contracted at low temperatures, and tightened over an upwardly protruding stone. The straight morphology of the crack, and the ductile break at the bottom surface as the stress in the remaining ligament rose above the knee in the stress rupture curve, are typical of a stress crack. Note the shorter stress cracks initiated along other nearby die marks.

Stress cracks are preferentially initiated along the edges of welds because the adjacent geomembrane has been more depleted of stabilizers during the high temperature welding process. Thus, under further oxidizing service conditions, it will become the first location to

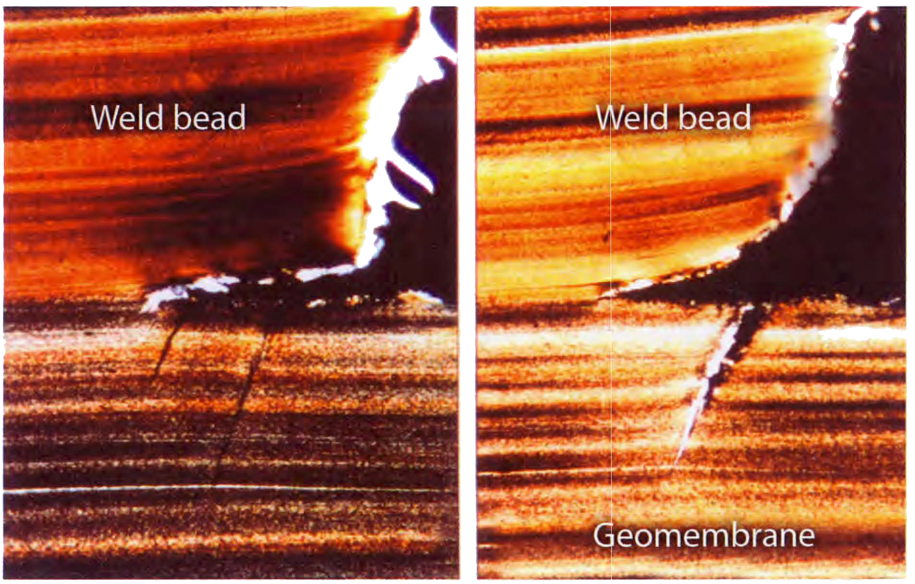


Figure 5 | Typical off-normal angle of precursor crazes (left) and stress crack (right) at edge of extrusion weld.

Type	Specification	Predicted Lifetime in Texas, USA
Side wall exposed	54	5
Side wall concrete side	81	71
Lower launder exposed	16	3
Lower launder concrete side	145	1

Table 2 | S-OIT values on solution and concrete liner surfaces (Peggs, 2008).

be oxidized to the critical level at which stress cracks will be initiated under any applied stress. In addition, the geometrical notches at grinding gouges and at the edges of the bead increase local stresses to critical levels for SC to occur.

I also believe that an internal microstructural flaw exists between the originally oriented geomembrane structure and the pool of more isotropic melted and resolidified material at the edge of the weld zone, as shown schematically in **Figure 4**. Most stress cracks occur at an off-normal angle at the edge of the weld bead that may be related to the angle of this molten-pool to oriented-structure interface (**Figure 5**). It is also known that stress increases the extraction of stabilizers from polyolefin materials.

With all of these agencies acting synergistically, it is not surprising that stress cracking often first occurs adjacent to extrusion welds.

Looking ahead

With the first field assessment test results available to us, and the extent of changes from the baseline sample known, removal of a second set of samples by the facility owner (at locations previously identified and marked by the initial surveyor), will be planned for a future time, probably in 2 or 3 years.

Why 2 or 3 years? In an extreme chemical environment, extensive reductions in S-OIT of studded HDPE concrete protection liners in mine solvent extraction facilities using kerosene/aromatic hydrocarbon/sulfuric acid process solutions at 55°C (131°F) have been observed on the solution and concrete sides of the liner (**Table 2**) within 1 year (Peggs 2008). But it is unlikely that such rapid decreases will be observed in air-exposed material.

With this second set of field samples, and with three sets of data points, practically reliable extrapolations of remaining lifetime can start to be made.

It is expected that a few years of notice for impending failures will be possible.

The key point to note in making these condition assessments is that, while all HDPE geomembranes have very similar conventional index properties, they can have widely variable photo-oxidation, thermal-oxidation, and stress-cracking resistances. Therefore, some HDPEs are more durable than others.

Thus, while one HDPE geomembrane manufactured in 1990 failed after 15 years in 2005, another HDPE geomembrane made in 1990 from a different HDPE resin (or more correctly a medium-density polyethylene [MDPE] resin), and with a better stabilizer additive package, could still have a remaining lifetime of 5, 20, or 30 years.

So, keep a close eye on those exposed liners and we'll learn a great deal more about liner performance and get notice of the end of service lifetime. And if owners can retain some archive material from new installations, so much the better.

References

Broutman L.J., Duvall, D.E., So, P.K. (1989). "Fractographic Study of a Polyethylene Sewer Pipe Failure." SPE Antec, pp 1599-1602.

Duvall, D.E. (2002). "Analyses of Large Diameter Polyethylene Piping Failures." Proceedings of the Society of Plastics Engineers, 60th Annual Technical Conference.

Gaube, E., Gebler, H., Müller, W., and Gondro, C. (1985). "Creep Rupture Strength and Aging of HDPE Pipes 30 Years Experience in Testing of Pipes." Kunststoffe 74 7, pp 412-415.

Koerner, R.M., Hsuan, Y.G., Koerner, G. (2008). "Freshwater and Geosynthetics: A Perfect Marriage." Keynote Lecture at GeoAmericas 2008, IFAI, Roseville, Minn., USA.

Hsuan, Y.G., Koerner, R.M., Lord, A.E., Jr., (1992). "The Notched Constant Tensile Load (NCTL) Test to Evaluate Stress Cracking Resistance." 6th GRI Seminar, MQC/MQA and CQC/CQA of Geosynthetics, Folsom, Pa., USA, pp 244-256.

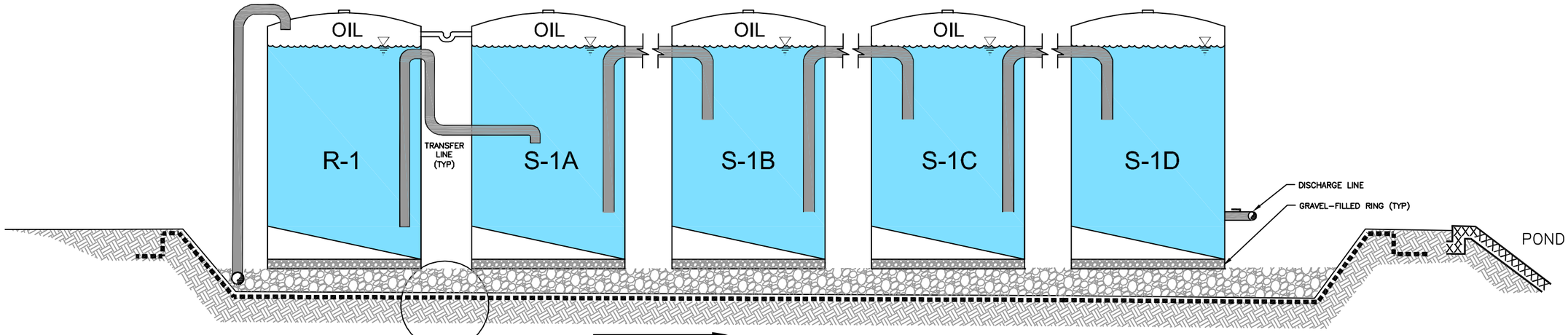
Peggs, I.D., (2008). "The Performance of Concrete Protection liners in Mine SX/EW Mixers and Settlers: The Need for Chemical Resistance Testing." Proceedings of GeoAmericas 2008, IFAI, Roseville, Minn., USA.

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VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

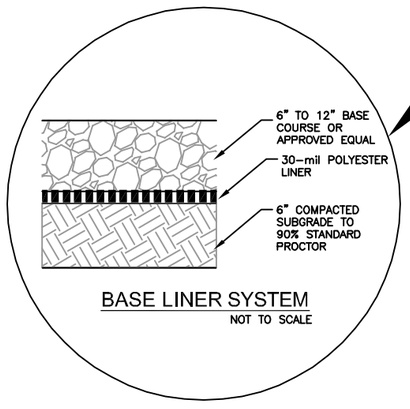
ATTACHMENT III.1.C

TYPICAL RECEIVING TANK INSTALLATION DETAILS



ELEVATION - SECTION A-A'

NOT TO SCALE



BASE LINER SYSTEM

NOT TO SCALE

TYPICAL RECEIVING TANK INSTALLATION DETAILS

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

DATE: 10/02/13	CAD: TANK ELEV.dwg	PROJECT #: 542.01.01
DRAWN BY: DMI	REVIEWED BY: DRT	ATTACHMENT III.I.C
APPROVED BY: IKG	gei@gordonenvironmental.com	

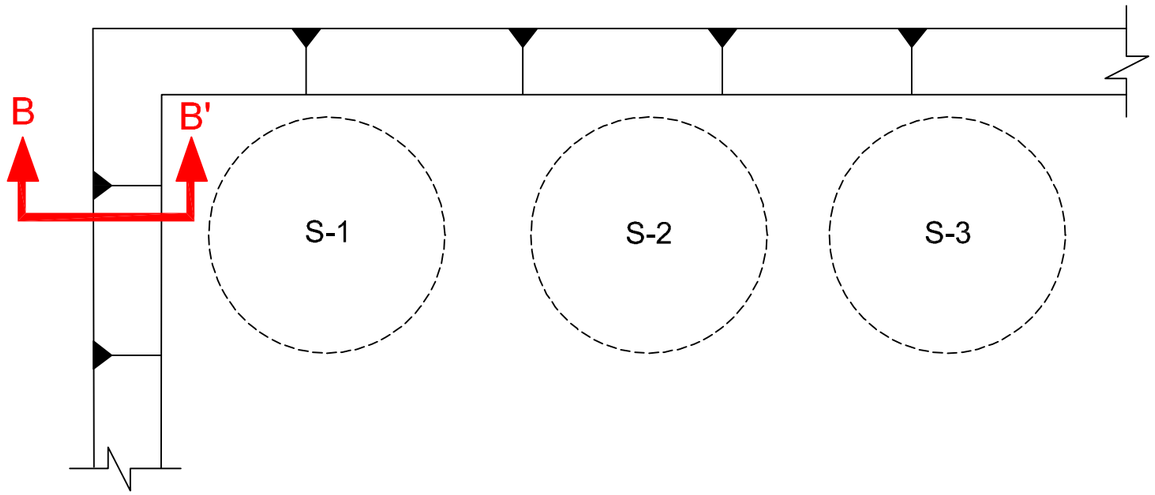
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VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

ATTACHMENT III.1.D

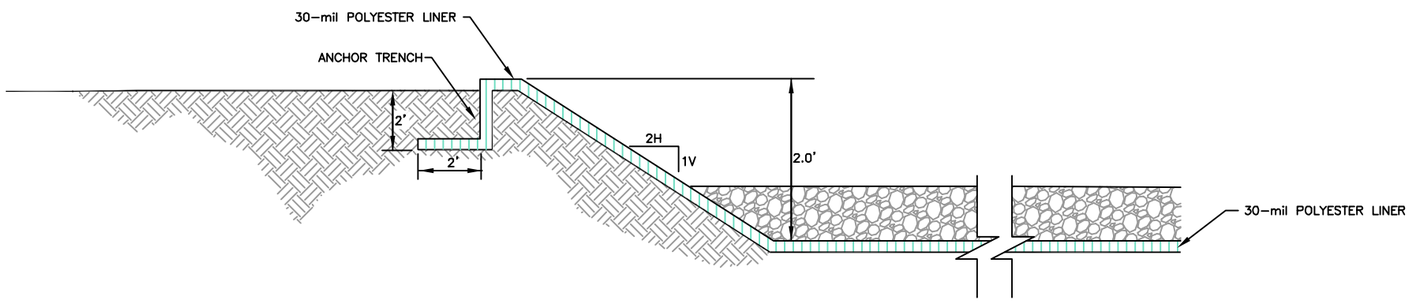
TYPICAL SALES TANK INSTALLATION DETAILS



PLAN VIEW
NOT TO SCALE

LEGEND

S-1 PROPOSED TANK



CROSS SECTION B-B'
NOT TO SCALE

TYPICAL SALES TANK INSTALLATION DETAILS

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

DATE: 10/02/13	CAD: TYP TANK.dwg	PROJECT #: 542.01.01
DRAWN BY: DMI	REVIEWED BY: MRH	ATTACHMENT III.I.D
APPROVED BY: IKG	gei@gordonenvironmental.com	

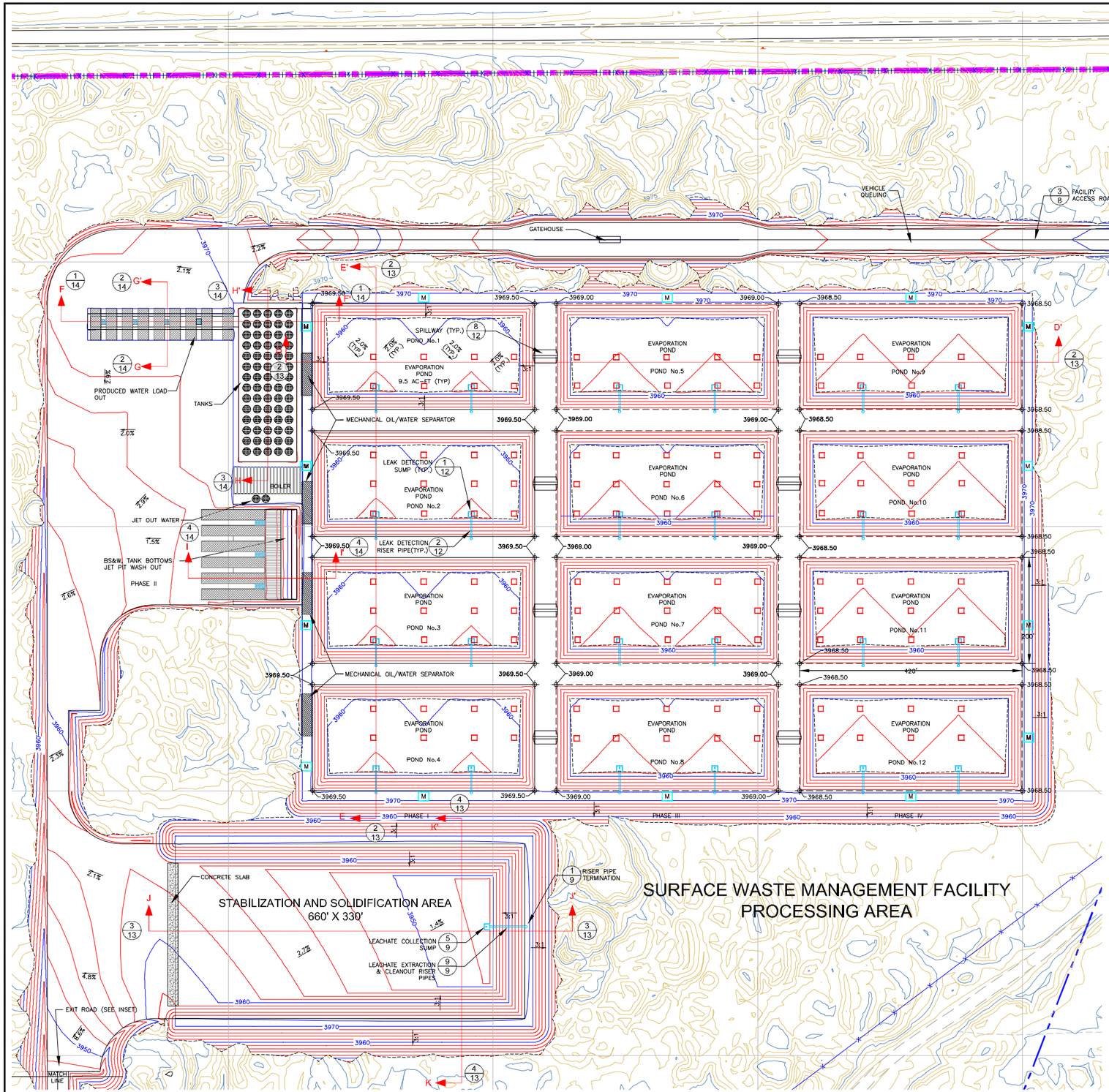
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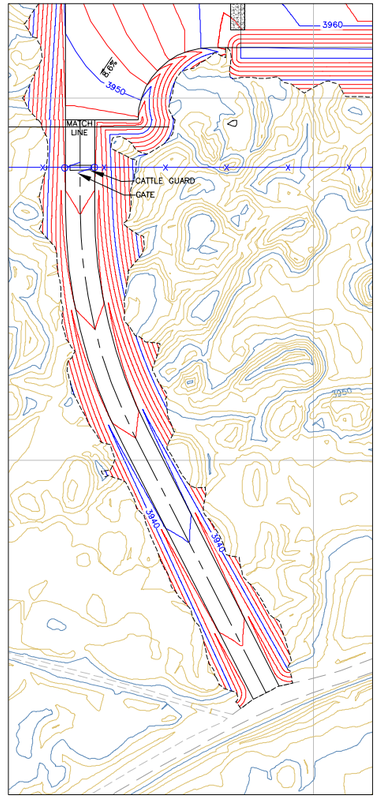
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VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

ATTACHMENT III.1.E

SITE SCHEMATIC





PROCESS AREA EXIT ROAD INSET

LEGEND

- SITE BOUNDARY (562 ACRES±)
- DRAINAGE FEATURE SETBACK (67 ACRES±)
- 3975 25' EXISTING CONTOUR
- 5' EXISTING CONTOUR
- 3975 25' DESIGN CONTOUR
- 5' DESIGN COUNTOUR
- TOP/TOE OF SLOPE
- EXISTING FENCE
- PROPOSED FENCE
- PAVED ROAD AND SHOULDER (NM 529)
- EXISTING UNPAVED ROAD/TRAIL
- PROPOSED FACILITY ACCESS ROAD
- CULVERT
- CATTLE GUARD
- ROAD SIGN
- M HYDROGEN SULFIDE MONITORING STATION
- EVAPORATORS
- LEAK DETECTION SUMP & RISER PIPE
- D D' CROSS SECTION LOCATION
- 2/13 DETAIL NUMBER / SHEET NUMBER
- N 650,500 / E 738,000 SITE GRID

NOTES:

1. BASE MAP PROVIDED BY DALLAS AERIAL SURVEYS, INC
2. FIELD SURVEY PROVIDED BY PETTIGREW & ASSOCIATES PA (12/13/2012)
3. DATE OF AERIAL PHOTOGRAPHY: 02-28-2013
4. SITE GRID BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAVD 88.
5. THE DNCS SURFACE WASTE MANAGEMENT FACILITY COMPRISES A TOTAL OF 495 ACRES ± (i.e., the processing area (177 acres ±) and the landfill (318 acres ±).

VOLUME

ENTRANCE ROAD

CUT VOLUME	11583	CU. YD.
FILL VOLUME	6290	CU. YD.
NET VOLUME	5293	CU. YD.<CUT>

EVAP PONDS

CUT VOLUME	182856	CU. YD.
FILL VOLUME	106752	CU. YD.
NET VOLUME	76104	CU. YD.<CUT>

PROCESSING AREA

CUT VOLUME	51153	CU. YD.
FILL VOLUME	24228	CU. YD.
NET VOLUME	26925	CU. YD.<CUT>

STABILIZATION AND SOLIDIFICATION AREA

CUT VOLUME	11996	CU. YD.
FILL VOLUME	51002	CU. YD.
NET VOLUME	39006	CU. YD.<FILL>

EXIT ROAD

CUT VOLUME	18072	CU. YD.
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NET VOLUME	18072	CU. YD.<CUT>

NORTH

0 100 200

NOT FOR CONSTRUCTION

DrawingPolacad 2003\542.01.01\PERMIT FIGURES\SITE SCHEMATIC.dwg
Date/Time:Nov. 07, 2013-08:51:11; LAYOUT: D (LS)

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I, KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

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SITE SCHEMATIC

DNCS ENVIRONMENTAL SOLUTIONS
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Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
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DATE: 11/05/2013	CAD: SITE SCHEMATIC.DWG	PROJECT #: 542.01.01
DRAWN BY: JMC	REVIEWED BY: MRH	ATTACHMENT III.1.E
APPROVED BY: IKG	gel@gordonenvironmental.com	

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

ATTACHMENT III.1.F

TANK CAPACITY CALCULATIONS

ATTACHMENT III.1.F
Tank Capacity Calculations
DNCS Environmental Solutions

DNCS is a surface waste management facility.

A. Produced Water is delivered by trucking companies into one of twelve proposed heated Produced Water Receiving Tanks located within a bermed, lined containment area:

Proposed Tank No.	Volume	Permitted
R-1	1000 bbls	Permitted under this Application
R-2	1000 bbls	Permitted under this Application
R-3	1000 bbls	Permitted under this Application
R-4	1000 bbls	Permitted under this Application
R-5	1000 bbls	Permitted under this Application
R-6	1000 bbls	Permitted under this Application
R-7	1000 bbls	Permitted under this Application
R-8	1000 bbls	Permitted under this Application
R-9	1000 bbls	Permitted under this Application
R-10	1000 bbls	Permitted under this Application
R-11	1000 bbls	Permitted under this Application
R-12	1000 bbls	Permitted under this Application

i. The Receiving tanks serve to gravity separate solids and oil from the water. Solids collect in the bottoms and oil floats to the tops of the receiving tanks.
ii. The Receiving Tanks bottoms are solidified and taken to the OCD permitted Landfill.
iii. The Receiving Tanks are set on gravel or sand pads on top of a lined bermed impermeable pad that drains into the evaporation pond.

B. Water from each Receiving Tanks flows in series through four additional Settling Tanks to remove oil prior to discharge in the mechanical oil water separator:

Proposed Tank No.	Volume	Permitted
S-1A	1000 bbls	Permitted under this Application
S-1B	1000 bbls	Permitted under this Application
S-1C	1000 bbls	Permitted under this Application
S-1D	1000 bbls	Permitted under this Application
S-2A	1000 bbls	Permitted under this Application
S-2B	1000 bbls	Permitted under this Application
S-2C	1000 bbls	Permitted under this Application
S-2D	1000 bbls	Permitted under this Application
S-3A	1000 bbls	Permitted under this Application
S-3B	1000 bbls	Permitted under this Application
S-3C	1000 bbls	Permitted under this Application
S-3D	1000 bbls	Permitted under this Application
S-4A	1000 bbls	Permitted under this Application
S-4B	1000 bbls	Permitted under this Application
S-4C	1000 bbls	Permitted under this Application
S-4D	1000 bbls	Permitted under this Application
S-5A	1000 bbls	Permitted under this Application
S-5B	1000 bbls	Permitted under this Application
S-5C	1000 bbls	Permitted under this Application
S-5D	1000 bbls	Permitted under this Application
S-6A	1000 bbls	Permitted under this Application
S-6B	1000 bbls	Permitted under this Application
S-6C	1000 bbls	Permitted under this Application

S-6D	1000 bbls	Permitted under this Application
S-7A	1000 bbls	Permitted under this Application
S-7B	1000 bbls	Permitted under this Application
S-7C	1000 bbls	Permitted under this Application
S-7C	1000 bbls	Permitted under this Application
S-7D	1000 bbls	Permitted under this Application
S-8A	1000 bbls	Permitted under this Application
S-8B	1000 bbls	Permitted under this Application
S-8C	1000 bbls	Permitted under this Application
S-8D	1000 bbls	Permitted under this Application
S-9A	1000 bbls	Permitted under this Application
S-9B	1000 bbls	Permitted under this Application
S-9C	1000 bbls	Permitted under this Application
S-9D	1000 bbls	Permitted under this Application
S-10A	1000 bbls	Permitted under this Application
S-10B	1000 bbls	Permitted under this Application
S-10C	1000 bbls	Permitted under this Application
S-10D	1000 bbls	Permitted under this Application
S-11A	1000 bbls	Permitted under this Application
S-11B	1000 bbls	Permitted under this Application
S-11C	1000 bbls	Permitted under this Application
S-11D	1000 bbls	Permitted under this Application
S-12A	1000 bbls	Permitted under this Application
S-12B	1000 bbls	Permitted under this Application
S-12C	1000 bbls	Permitted under this Application
S-12D	1000 bbls	Permitted under this Application

i. The Settling Tanks increase the detention time available to provide additional gravity separation of oil from the water,
ii. The Settling Tank bottoms are taken to the OCD permitted Landfill.
iii. The Settling Tanks are set on gravel or sand pads on top of a lined bermed impermeable pad that drains into the evaporation pond.

C. The separated oil flows into one of five heated Crude Oil Receiving Tanks:

Proposed Tank No.	Volume	Permitted
C-1	1000 bbls	Permitted under this Application
C-2	1000 bbls	Permitted under this Application
C-3	1000 bbls	Permitted under this Application
C-4	1000 bbls	Permitted under this Application
C-5	1000 bbls	Permitted under this Application

i. The Crude Oil Receiving Tanks are set inside the proposed lined containment berm.
ii. The Crude Oil Receiving Tanks are interconnected at the top of the tanks for oil removal.
iii. Water recovered from the Crude Oil Receiving Tanks is redirected to the Produced Water Receiving Tanks.
iv. Sludges recovered from the Crude Oil Receiving Tanks are stabilized, solidified and sent for landfill disposal.

D. The water from the Settling Tanks is discharged through one of up to four Dissolved Air Floatation (DAF) Units.

Proposed Tank No.	Volume	Permitted
D-1	10 bbls	Permitted under this Application
D-2	10 bbls	Permitted under this Application
D-3	10 bbls	Permitted under this Application
D-4	10 bbls	Permitted under this Application

i. The DAF Units are situated on the lined Evaporation Pond berm in a location where any leackage would drain
ii. The DAF use air bubles to lift any remaining oil from the water prior to dischage into one of four Ponds.
iii. The oil containing foam generated by the DAF is collected and discharged into the Crude Oil Receiving Tanks for further processing.

E.

Proposed Pond No.	Storage Volume	Permitted

P-1	73,700 bbls	Permitted under this Application
P-2	73,700 bbls	Permitted under this Application
P-3	73,700 bbls	Permitted under this Application
P-4	73,700 bbls	Permitted under this Application
P-5	73,700 bbls	Permitted under this Application
P-6	73,700 bbls	Permitted under this Application
P-7	73,700 bbls	Permitted under this Application
P-8	73,700 bbls	Permitted under this Application
P-9	73,700 bbls	Permitted under this Application
P-10	73,700 bbls	Permitted under this Application
P-11	73,700 bbls	Permitted under this Application
P-12	73,700 bbls	Permitted under this Application

i. Surface aeration and bleach are used to maintain water chemistry parameters:
:O_2 at or above 0.5 ppm one foot off the bottom of the pond.

:pH above 8

ii. H2S monitors are placed around the pond covering the four major points on the compass.
iii. The H2S monitors continually monitor the ambient air.
iv. Two chlorine monitors are placed around the ponds covering the North and West borders.
v. Treatment capacity of each Pond is 73,994 bbls (~9.5 acre feet)
vi. 3.5 Feet of Freeboard is proposed, storage volume does not include freeboard
vii. Volume including freeboard is 122,640 bbls (15.76 acre-feet)per pond
viii. Inside grade shall be no steeper than 3H:1V
ix. Levees shall have an outside grade no steeper than 3H:1V
x. Levees' tops shall be wide enough to install an anchor trench and provide adequate room for inspection/maintenance.
xi. Liner seams shall be minimized and oriented up and down, not across a slope
Each pond shall have a:
:primary liner (60-mil HDPE liner, UV resistant)
:secondary liner (60-mil HDPE liner, UV resistant)
xii. Slope shall be 2% (2 ft V for 100 ft H)
xiii. A mechanical evaporation system shall be installed in each pond to enhance evaporation.
xiv. Approximate size of each pond is 200 x 420 feet x 7.6 feet deep

F. Bleach for H2S management is stored in two proposed chemical tanks:

Proposed Tank No.	Volume	Permitted
B-1	60 bbls	Permitted under this Application
B-2	60 bbls	Permitted under this Application

i. The Chemical Tanks are set on a bermed concrete pad that drains into the pond.
ii. The Bleach is pumped through lines to discharge points in each of the ponds.

G. Water from Pond 1 (P-1) is:
i. Pumped through lines to floating evaporators in Ponds 2, 3, and 4 (P-2, P-3, P-4).
ii. Three floating evaporators are situated in each Pond.
iii. Water that does not evaporate from Ponds 2, 3, or 4 is pumped to floating evaporators in Ponds 5 and 6.
iv. Water that does not evaporate from Ponds 5 and 6 is pumped to floating evaporators in Ponds 7 and 8.
v. Water that does not evaporate from Ponds 7 and 8 is pumped to floating evaporators in Ponds 9 and 10.

H. The Jet-Out Pit receives discharges from tankers bringing oil contaminated drilling mud, BS&W, tank bottoms and washout from tank cleanings.

Proposed Pit No.	Volume	Permitted
J-1	1000 bbls	Permitted under this Application

Proposed Tank No.	Volume	Permitted
WW-1	1000 bbls	Permitted under this Application
FW-1	1000 bbls	Permitted under this Application

i. Wash-Water for the Jet-Out Pit is recycled through a line from Pond-10 to WW-1. A pump connected to WW-1 pumps the water through a line to one of six wash-out stations for use cleaning the tankers.
ii. Fresh-Water for the Jet-Out Pit is discharged from the water supply through an air gap into FW-1. A pump connected to FW-1 pumps the water through a line to one of six wash-out stations for use cleaning the tanks.
ii. Oil from the Jet-Out Pit is transferred through a line to the Crude Oil Receiving Tanks for further Processing..
iii. Water from the Jet-Out Pit is transferred through a line to the Produced Water Receiving Tanks for processing.
iv. Sludges and sediments from the Jet Out Pit is removed with a bucket loader and transferred to the waste stabilization area for stabilization, solidification and disposal.

I. Oil from the Crude Oil Receiving Tanks C1-C5 completed the dewatering process with the finished product transferred to the Oil Sales Tanks.

Proposed Tank No.	Volume	Permitted
S-1	1000 bbls	Permitted under this Application
S-2	1000 bbls	Permitted under this Application
S-3	1000 bbls	Permitted under this Application
S-4	1000 bbls	Permitted under this Application
S-5	1000 bbls	Permitted under this Application

i. The proposed Oil Sales Tanks are set inside the lined berm next to the Crude Oil Receiving Tanks.
ii. Oil is removed from the Oil Sales tank to a tanker at the Oil Sales Load-Out

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VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

ATTACHMENT III.1.G

PIPE WALL THICKNESS INFORMATION

PVC PIPE DIMENSIONS

Nominal Pipe Size	Wall Thickness		Outside Diameters		
				Tolerance	
	Minimum	Tolerance	Average OD	Average	Out-of-Roundness
ASTM D 1785, PVC PIPE, SCHEDULE 40					
1	0.133	+0.020	1.315	±0.005	±0.010
1¼	0.140	+0.020	1.660	±0.005	±0.012
1½	0.145	+0.020	1.900	±0.006	±0.012
2	0.154	+0.020	2.375	±0.006	±0.012
2½	0.203	+0.024	2.875	±0.007	±0.015
3	0.216	+0.026	3.500	±0.008	±0.015
3½	0.226	+0.027	4.000	±0.008	±0.050
4	0.237	+0.028	4.500	±0.009	±0.050
5	0.258	+0.031	5.563	±0.010	±0.050
6	0.280	+0.034	6.625	±0.011	±0.050
8	0.322	+0.039	8.625	±0.015	±0.075
10	0.365	+0.044	10.750	±0.015	±0.075
12	0.406	+0.049	12.750	±0.015	±0.075
ASTM D 1785, PVC PIPE, SCHEDULE 80					
1	0.179	+0.021	1.315	±0.005	±0.010
1¼	0.191	+0.023	1.660	±0.005	±0.012
1½	0.200	+0.024	1.900	±0.006	±0.012
2	0.218	+0.026	2.375	±0.006	±0.012
2½	0.276	+0.033	2.875	±0.007	±0.015
3	0.300	+0.036	3.500	±0.008	±0.015
3½	0.318	+0.038	4.000	±0.008	±0.015
4	0.337	+0.040	4.500	±0.009	±0.015
5	0.375	+0.045	5.563	±0.010	±0.030
6	0.432	+0.052	6.625	±0.011	±0.035
8	0.500	+0.060	8.625	±0.015	±0.075
10	0.593	+0.071	10.750	±0.015	±0.075
12	0.687	+0.082	12.750	±0.015	±0.075
ASTM D 2241, PVC PIPE (SDR-PR), SDR 21 (200)					
1	0.063	+0.020	1.315	±0.005	±0.015
1¼	0.079	+0.020	1.660	±0.005	±0.015
1½	0.090	+0.020	1.900	±0.006	±0.030
2	0.113	+0.020	2.375	±0.006	±0.030
2½	0.137	+0.020	2.875	±0.007	±0.030
3	0.167	+0.020	3.500	±0.008	±0.030
3½	0.190	+0.023	4.000	±0.008	±0.050
4	0.214	+0.026	4.500	±0.009	±0.050
5	0.265	+0.032	5.563	±0.010	±0.050

Table A-2 (cont'd)
PIPE WEIGHTS AND DIMENSIONS *(IPS)*
PE3608 *(BLACK)*

OD			SDR	Nominal ID		Minimum Wall		Weight	
Nominal	Actual							lb. per	kg. per
in.	in.	mm.		in.	mm.	in.	mm.	foot	meter
			7	2.44	61.98	0.500	12.70	2.047	3.047
			7.3	2.48	63.08	0.479	12.18	1.978	2.943
			9	2.68	67.96	0.389	9.88	1.656	2.464
			9.3	2.70	68.63	0.376	9.56	1.609	2.395
			11	2.83	71.77	0.318	8.08	1.387	2.065
3	3.500	88.90	11.5	2.85	72.51	0.304	7.73	1.333	1.984
			13.5	2.95	74.94	0.259	6.59	1.153	1.716
			15.5	3.02	76.74	0.226	5.74	1.015	1.511
			17	3.06	77.81	0.206	5.23	0.932	1.386
			21	3.15	79.93	0.167	4.23	0.764	1.136
			26	3.21	81.65	0.135	3.42	0.623	0.927
			7	3.14	79.68	0.643	16.33	3.384	5.037
			7.3	3.19	81.11	0.616	15.66	3.269	4.865
			9	3.44	87.38	0.500	12.70	2.737	4.073
			9.3	3.47	88.24	0.484	12.29	2.660	3.958
			11	3.63	92.27	0.409	10.39	2.294	3.413
4	4.500	114.30	11.5	3.67	93.23	0.391	9.94	2.204	3.280
			13.5	3.79	96.35	0.333	8.47	1.906	2.836
			15.5	3.88	98.67	0.290	7.37	1.678	2.497
			17	3.94	100.05	0.265	6.72	1.540	2.292
			21	4.05	102.76	0.214	5.44	1.262	1.879
			26	4.13	104.98	0.173	4.40	1.030	1.533
			32.5	4.21	106.84	0.138	3.52	0.831	1.237
			7	3.88	98.51	0.795	20.19	5.172	7.697
			7.3	3.95	100.27	0.762	19.36	4.996	7.435
			9	4.25	108.02	0.618	15.70	4.182	6.224
			9.3	4.29	109.09	0.598	15.19	4.065	6.049
			11	4.49	114.07	0.506	12.85	3.505	5.216
5	5.563	141.30	11.5	4.54	115.25	0.484	12.29	3.368	5.012
			13.5	4.69	119.11	0.412	10.47	2.912	4.334
			15.5	4.80	121.97	0.359	9.12	2.564	3.816
			17	4.87	123.68	0.327	8.31	2.353	3.502
			21	5.00	127.04	0.265	6.73	1.929	2.871
			26	5.11	129.78	0.214	5.43	1.574	2.343
			32.5	5.20	132.08	0.171	4.35	1.270	1.890
			7	4.62	117.31	0.946	24.04	7.336	10.917
			7.3	4.70	119.41	0.908	23.05	7.086	10.545
			9	5.06	128.64	0.736	18.70	5.932	8.827
			9.3	5.11	129.92	0.712	18.09	5.765	8.579
			11	5.35	135.84	0.602	15.30	4.971	7.398
6	6.625	168.28	11.5	5.40	137.25	0.576	14.63	4.777	7.109
			13.5	5.58	141.85	0.491	12.46	4.130	6.147
			15.5	5.72	145.26	0.427	10.86	3.637	5.413
			17	5.80	147.29	0.390	9.90	3.338	4.967
			21	5.96	151.29	0.315	8.01	2.736	4.072
			26	6.08	154.55	0.255	6.47	2.233	3.322
			32.5	6.19	157.30	0.204	5.18	1.801	2.680

See ASTM D3035, F714 and AWWA C-901/906 for OD and wall thickness tolerances.
Weights are calculated in accordance with PPI TR-7.

Table A-2 (cont'd)
PIPE WEIGHTS AND DIMENSIONS *(IPS)*
PE3608 *(BLACK)*

OD			SDR	Nominal ID		Minimum Wall		Weight	
Nominal	Actual							lb. per	kg. per
in.	in.	mm.		in.	mm.	in.	mm.	foot	meter
			7	6.01	152.73	1.232	31.30	12.433	18.503
			7.3	6.12	155.45	1.182	30.01	12.010	17.872
			9	6.59	167.47	0.958	24.34	10.054	14.962
			9.3	6.66	169.14	0.927	23.56	9.771	14.541
			11	6.96	176.85	0.784	19.92	8.425	12.538
8	8.625	219.08	11.5	7.04	178.69	0.750	19.05	8.096	12.049
			13.5	7.27	184.67	0.639	16.23	7.001	10.418
			15.5	7.45	189.11	0.556	14.13	6.164	9.174
			17	7.55	191.76	0.507	12.89	5.657	8.418
			21	7.75	196.96	0.411	10.43	4.637	6.901
			26	7.92	201.21	0.332	8.43	3.784	5.631
			7	7.49	190.35	1.536	39.01	19.314	28.743
			7.3	7.63	193.75	1.473	37.40	18.656	27.764
			9	8.22	208.73	1.194	30.34	15.618	23.242
			9.3	8.30	210.81	1.156	29.36	15.179	22.589
			11	8.68	220.43	0.977	24.82	13.089	19.478
10	10.750	273.05	11.5	8.77	222.71	0.935	23.74	12.578	18.717
			13.5	9.06	230.17	0.796	20.23	10.875	16.184
			15.5	9.28	235.70	0.694	17.62	9.576	14.251
			17	9.41	239.00	0.632	16.06	8.788	13.078
			21	9.66	245.48	0.512	13.00	7.204	10.721
			26	9.87	250.79	0.413	10.50	5.878	8.748
			32.5	10.05	255.24	0.331	8.40	4.742	7.058
			7	8.89	225.77	1.821	46.26	27.170	40.433
			7.3	9.05	229.80	1.747	44.36	26.244	39.056
			9	9.75	247.57	1.417	35.98	21.970	32.695
			9.3	9.84	250.03	1.371	34.82	21.353	31.777
			11	10.29	261.44	1.159	29.44	18.412	27.400
12	12.750	323.85	11.5	10.40	264.15	1.109	28.16	17.693	26.330
			13.5	10.75	272.99	0.944	23.99	15.298	22.767
			15.5	11.01	279.56	0.823	20.89	13.471	20.047
			17	11.16	283.46	0.750	19.05	12.362	18.397
			21	11.46	291.16	0.607	15.42	10.134	15.081
			26	11.71	297.44	0.490	12.46	8.269	12.305
			32.5	11.92	302.73	0.392	9.96	6.671	9.928
			7	9.76	247.90	2.000	50.80	32.758	48.750
			7.3	9.93	252.33	1.918	48.71	31.642	47.089
			9	10.70	271.84	1.556	39.51	26.489	39.420
			9.3	10.81	274.54	1.505	38.24	25.745	38.313
			11	11.30	287.07	1.273	32.33	22.199	33.036
14	14.000	355.60	11.5	11.42	290.05	1.217	30.92	21.332	31.746
			13.5	11.80	299.76	1.037	26.34	18.445	27.449
			15.5	12.09	306.96	0.903	22.94	16.242	24.170
			17	12.25	311.25	0.824	20.92	14.905	22.181
			21	12.59	319.70	0.667	16.93	12.218	18.183
			26	12.86	326.60	0.538	13.68	9.970	14.836
			32.5	13.09	332.40	0.431	10.94	8.044	11.970

See ASTM D3035, F714 and AWWA C-901/906 for OD and wall thickness tolerances.
Weights are calculated in accordance with PPI TR-7.

APPLICATION FOR PERMIT
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VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

ATTACHMENT III.1.H

TECHNICAL DATA AND SPECIFICATIONS FOR XR GEOMEMBRANES

Technical Data and Specifications for

XR® Geomembranes

XR-3®
XR-5®
XR-3® PW

Industrial, Municipal and Potable Water Grade Geomembranes

Seaman Corporation
1000 Venture Blvd.
Wooster, Ohio 44691
(330) 262-1111
www.xr-5.com

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Section 1: Product Overview/Applications
Product Application Chart

Section 2: Physical Properties
Part 1: Material Specifications
8130/8138 XR-5
6730 XR-5
8228 XR-3
8130 XR-3 PW

Part 2: Elongation Properties
8130/8138 XR-5
6730 XR-5
8228 XR-3

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XR-5/HDPE Physicals - Comparative Properties
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Puncture Strength Comparison
Coated Fabric Thermal Stability

Section 5: Sample Specifications

Section 6: Warranty Information

Seaman Corp. XR Geomembranes

Section 1 - Product Overview/Applications

- All XR Geomembrane products are classified as an Ethylene Interpolymer Alloy (EIA)
- XR-5 grade is high strength and chemically resistant for maximum resistance to high temperature, and broad chemical resistance, including acids, oils and methane
- XR-3 grade for moderate chemical resistant requirement applications such as stormwater and domestic wastewater
- NSF 61 approved XR-3 PW grade for potable water contact
- Heat weldable-thermal weldable for seams as strong as the membrane. Factory panels over 15,000 square feet (1400 sq meters) for less field seaming
- Stability is excellent, with low thermal expansion-contraction properties
- 30+ year application history

Product Application Chart

	XR-5			XR-3	XR-3 PW
	8130	**8138**	**6730**	**8228**	**8130**
High Puncture Resistance	X	X	X		X
UV Resistance	X	X	X	X	X
High Strength Applications	X	X	X		X
Floating Covers (Nonpotable)	X	X	X	X	
Diesel/Jet Fuel Containment	X	X	X		
Industrial Wastewater	X	X	X		
Stormwater	X	X	X	X	
Municipal/Domestic Wastewater	X	X	X	X	
Floating Diversion Baffles/Curtains	X		X		X
Potable Water					X
<-65 Deg F Applications	Contact Seaman Corp.				
Chemically Resistant Applications	X	X	X		

XR-5® is a registered trademark of Seaman Corporation
XR-3® is a registered trademark of Seaman Corporation
XR® is a registered trademark of Seaman Corporation

Section 2 - Physical Properties

Part 1- Material Specifications

Property	Test Method	8130 XR-5	8138 XR-5	6730 XR-5
Base Fabric Type Base Fabric Weight	ASTM D 751	Polyester 6.5 oz/yd^2 nominal (220 g/m^2 nominal)	Polyester 6.5 oz/yd^2 nominal (220 g/m^2 nominal)	Polyester 7 oz/yd^2 nominal (235 g/m^2 nominal)
Thickness	ASTM D 751	30 mils min. (0.76 mm min.)	40 mils nom. (1.0 mm nom.)	30 mils min. (0.76 mm min.)
Weight	ASTM D 751	30.0 +- 2 oz/sq yd (1017 +- 2 g/m^2)	38.0 +- 2 oz/sq yd (1288 +- 70 g/m^2)	30.0 +- 2 oz/sq yd (1017 +- 70 g/m^2)
Tear Strength	ASTM D 751 Trap Tear	40/55 lbs. min. (175/245 N min.)	40/55 lbs. min. (175/245 N min.)	
Breaking Yield Strength	ASTM D 751 Grab Tensile	550/550 lbs. min. (2,447/2,447 N min.)	550/550 lbs. min. (2,447/2,447 N min.)	600/550 lbs. min. (2,670/2,447 N min.)
Low Temperature Resistance	ASTM D 2136 4 hrs-1/8" Mandrel	Pass @ -30° F Pass @ -35° C	Pass @ -30° F Pass @ -35° C	Pass @ -30° F Pass @ -35° C
Dimensional Stability	ASTM D 1204 100° C-1 Hr.	0.5% max. each direction	0.5% max. each direction	0.5% max. each direction
Hydrostatic Resistance	ASTM D 751 Procedure A	800 psi min. (5.51 MPa min.)	800 psi min. (5.51 MPa min.)	800 psi min. (5.51 MPa min.)
Blocking Resistance	ASTM D 751 180° F	#2 Rating max.	#2 Rating max.	#2 Rating max.
Adhesion-Ply	ASTM D 413 Type A	15 lbs./in. min. or film tearing bond (13 daN/5 cm min. or FTB)	15 lbs./in. min. or film tearing bond (13 daN/5 cm min. or FTB)	15 lbs./in. min. or film tearing bond (13 daN/5 cm min. or FTB)
Adhesion (minimum) Heat Welded Seam	ASTM D 751 Dielectric Weld	40 lbs./2in. RF weld min. (17.5 daN/5 cm min.)	40 lbs./2in. RF weld min. (17.5 daN/5 cm min.)	15 lbs./in. RF weld min. (15 daN/5 cm min.)
Dead Load Seam Strength	ASTM D 751, 4-Hour Test	Pass 220 lbs/in @ 70° F (Pass 980 N/2.54 cm @ 21° C) Pass 120 lbs/in @ 160° F (Pass 534 N/2.54 cm @ 70° C)	Pass 220 lbs/in @ 70° F (Pass 980 N/2.54 cm @ 21° C) Pass 120 lbs/in @ 160° F (Pass 534 N/2.54 cm @ 70° C)	
Bonded Seam Strength	ASTM D 751 Procedure A, Grab Test Method	550 lbs. min. (2,450 N min.)	550 lbs. min. (2,450 N min.)	550 lbs. min. (2,560 N min.)

Abrasion Resistance	ASTM D 3389 H-18 Wheel 1 kg Load	2,000 cycles min. before fabric exposure, 50 mg/100 cycles max. weight loss	2,000 cycles min. before fabric exposure, 50 mg/100 cycles max. weight loss	2,000 cycles min. before fabric exposure, 50 mg/100 cycles max. weight loss
Weathering Resistance	Carbon-Arc ASTM G 153	8,000 hours min. with no appreciable changes or stiffening or cracking of coating	8000 hours min. with no appreciable change or stiffening or cracking of coating	8000 hours min. with no appreciable change or stiffening or cracking of coating
Water Absorption	ASTM D 471, Section 12 7 Days	0.025 kg/m^2 max. @70° F/21° C 0.14 kg/m^2 max at 212° F/100° C	0.025 kg/m^2 max. @70° F/21° C 0.14 kg/m^2 max at 212° F/100° C	0.025 kg/m^2 max. @70° F/21° C 0.14 kg/m^2 max at 212° F/100° C
Wicking	ASTM D 751	1/8" max (0.3 cm max)	1/8" max. (0.3 cm max.)	1/8" max. (0.3 cm max.)
Bursting Strength	ASTM D 751 Ball Tip	750 lbs. min. (3,330 N min.)	750 lbs. min. (3,330 N min.)	750 lbs. min. (3,330 N min.)
Puncture Resistance	ASTM D 4833	275 lbs. min. 1,200 N min.	275 lbs. min. 1,200 N min.	275 lbs. min. 1,200 N min.
Coefficient of Thermal Expansion/ Contraction	ASTM D 696	8 x 10^{-6} in/in/° F max. (1.4 x 10^{-5} cm/cm/° C max.)	8 x 10^{-6} in/in/° F max. (1.4 x 10^{-5} cm/cm/° C max.)	8 x 10^{-6} in/in/° F max. (1.4 x 10^{-5} cm/cm/° C max.)
Environmental/Chemical Resistant Properties		See Chemical Resistance Table, Page 8	See Chemical Resistance Table, Page 8	See Chemical Resistance Table, Page 8
Puncture Resistance	FED-STD-101C Method 2031	350 lbs. (approx.)	350 lbs. (approx.)	
Cold Crack	ASTM D 2136 4 Hrs, 1/8" Mandrel	Pass at -30° F/-34° C	Pass @ -30° F/-34° C	Pass @ -30° F/-34° C

Section 2 - Physical Properties

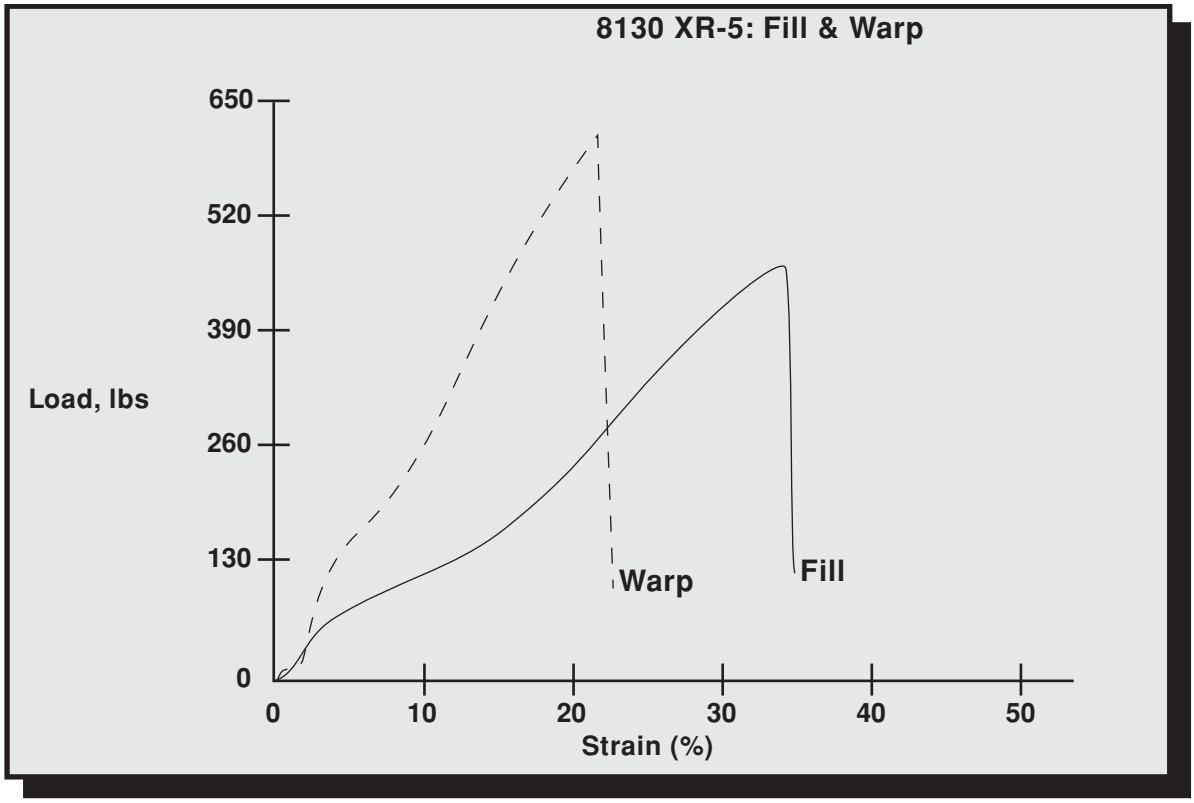
Part 1- Material Specifications (cont.)

Property	Test Method	8130 XR-3 PW	8228 XR-3
Base Fabric Type Base Fabric Weight	ASTM D 751	Polyester 6.5 oz/yd^2 nominal (220 g/m^2 nominal)	Polyester 3.0 oz/yd^2 nominal (100 g/m^2 nominal)
Thickness	ASTM D 751	30 mils min. (0.76 mm min.)	30 mils min. (0.76 mm min.)
Weight	ASTM D 751	30.0 +- 2 oz./sq. yd. (1017 +- 70 g/sq. m)	28.0 +- 2 oz./sq. yd. (950 +- 70 g/sq. m)
Tear Strength	ASTM D 751 Trap Tear	40/55 lbs. min. (175/245 N min.)	30/30 lbs. nom. (133/133 N nom.)
Breaking Yield Strength	ASTM D 751 Grab Tensile	550/550 lbs. min. (2,447/2447 N min.)	250/200 lbs. min. (1,110/890 N min.)
Low Temperature Resistance	ASTM D 2136 4hrs-1/8" Mandrel	Pass @ -30° F (Pass @ -35° C)	Pass @ -25° F (Pass @ -32° C)
Dimensional Stability	ASTM D 1204 100° C-1 hr.	0.5% max. each direction	5% max. each direction
Hydrostatic Resistance	ASTM D 751 Method A	800 psi min. (5.51 MPa min.)	300 psi min. (2.07 MPa min.)
Blocking Resistance	ASTM D 751 180° F	#2 Rating max.	#2 Rating max.
Adhesion-Ply	ASTM D 413 Type A	15 lbs./in. min. or film tearing bond (13 daN/5 cm min. or FTB)	12 lbs./in. (approx.) (10 daN/5 cm approx.)
Adhesion- Heat Welded Seam	ASTM D 751 Dielectrc Weld	40 lbs./2in. min. (17.5 daN/5 cm min.)	10 lbs./in min. (9 daN/5 cm min.)
Dead Load Seam Strength	ASTM D 751, 4-Hour Test	Pass 220 lbs/in. @ 70° F (Pass 980 N/2.54 cm @ 21° C) Pass 120 lbs/in. @ 160° F (Pass 534 N/2.54 cm @ 70° C)	Pass 100 lbs/in @ 70° F (Pass 445 N @ 21° C) Pass 50 lb @ 160° F (Pass 220 N @ 70° C)
Bonded Seam Strength	ASTM D 751 Procedure A, Grab Test Method	550 lbs. min. (2,450 N min.)	250 lbs. (approx.) (1,112 N min.)

Abrasion Resistance	ASTM D 3389 H-18 Wheel 1 kg Load	2000 cycles min. before fabric exposure, 50 mg/100 cycles max. weight loss	2000 cycles min.
Weathering Resistance	ASTM G 153	8000 hours min. with no appreciable change or stiffening or cracking of coating	8000 hours min.
Water Absorption	ASTM D 471, Section 12 7 Days	0.025 kg/m^2 max. @ 70° F/21° C 0.14 kg/m^2 max @ 212° F/100° C	0.05 kg/m^2 max. @ 70° F/21° C (approx.) 0.28 kg/m^2 max. @ 212° F/100° C (approx.)
Wicking	ASTM D 751	1/8" max. (0.3 cm max.)	1/8" max (0.3 cm max.)
Bursting Strength	ASTM D 751 Ball Tip	750 lbs. min. (3330 N min.)	350 lbs. (approx.) (1557 N min.)
Puncture Resistance	ASTM D 4833	275 lbs. min. 1200 N min.	50 lb typ. (225 N typ.)
Coefficient of Thermal Expansion/ Contraction	ASTM D 696	8 x 10^{-6} in/in/° F max. (1.4 x 10^{-5} cm/cm/° C max.)	8 x 10^{-6} in/in/° F max. (approx.) (1.4 x 10^{-5} cm/cm/° C max. approx.)
Environmental/Chemical Resistant Properties	ASTM D 741 7-Day Total Immersion With Exposed Edges	NSF 61 approved for potable water	Crude oil 5% max. weight gain Diesel fuel 5% max. weight gain
Puncture Resistance	FTMS 101C Method 2031	350 lbs. (approx.)	205 lbs. (approx.)
Tongue Tear	ASTM D 751		50 lbs. (approx.)

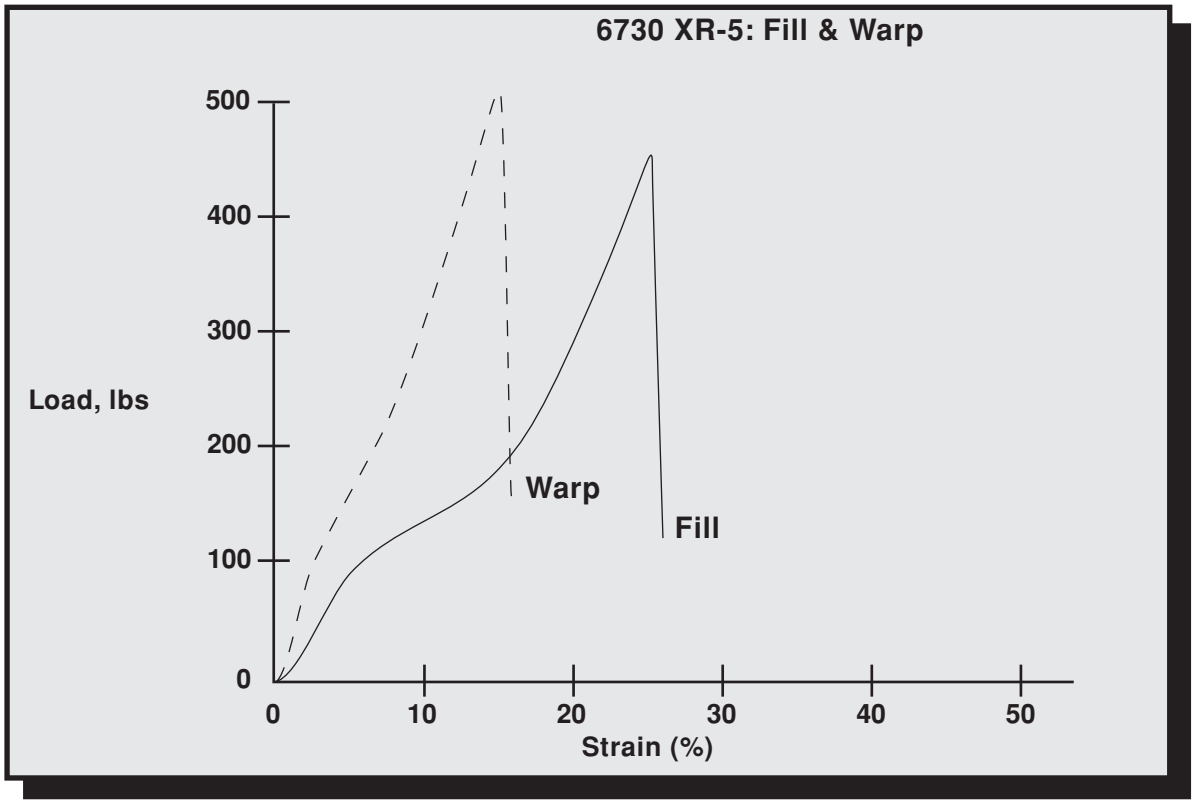
Part 2 - Elongation Properties Test

8130 XR-5



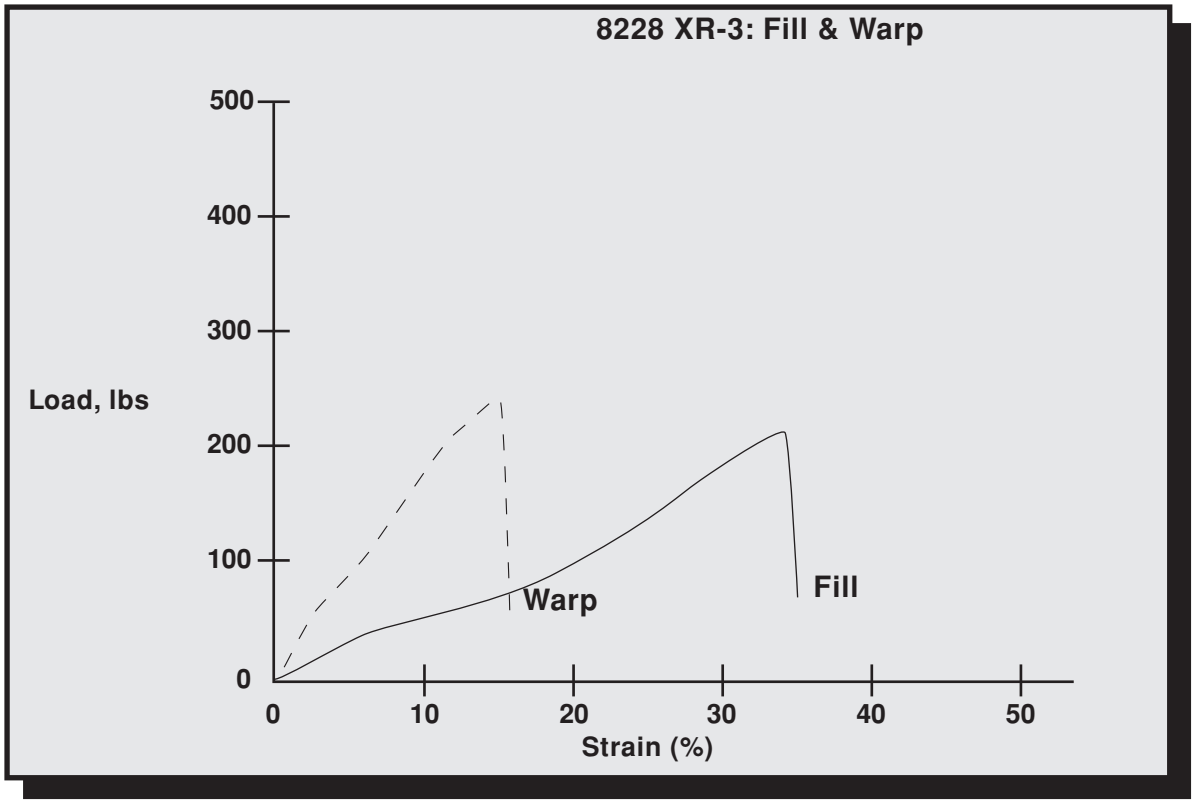
Part 2 - Elongation Properties Test

6730 XR-5



Part 2 - Elongation Properties Test

8228 XR-3



Section 3 - Chemical/Environmental Resistance

Part 1 - XR-5® Fluid Resistance Guidelines

The data below is the result of laboratory tests and is intended to serve only as a guide. No performance warranty is intended or implied. The degree of chemical attack on any material is governed by the conditions under which it is exposed. Exposure time, temperature, and size of the area of exposure usually varies considerably in application, therefore, this table is given and accepted at the user's risk. Confirmation of the validity and suitability in specific cases should be obtained. Contact a Seaman Corporation Representative for recommendation on specific applications.

When considering XR-5 for specific applications, it is suggested that a sample be tested in actual service before specification. Where impractical, tests should be devised which simulate actual service conditions as closely as possible.

EXPOSURE	RATING	EXPOSURE	RATING
AFFF	A	JP-4 Jet Fuel	A
Acetic Acid (5%)	B	JP-5 Jet Fuel	A
Acetic Acid (50%)	C	JP-8 Jet Fuel	A
Ammonium Phosphate	T	Kerosene	A
Ammonium Sulfate	T	Magnesium Chloride	T
Antifreeze (Ethylene Glycol)	A	Magnesium Hydroxide	T
Animal Oil	A	Methanol	A
Aqua Regia	X	Methyl Alcohol	A
ASTM Fuel A (100% Iso-Octane)	A	Methyl Ethyl Ketone	X
ASTM Oil #2 (Flash Pt. 240° C)	A	Mineral Spirits	A
ASTM Oil #3	A	Naphtha	A
Benzene	X	Nitric Acid (5%)	B
Calcium Chloride Solutions	T	Nitric Acid (50%)	C
Calcium Hydroxide	T	Perchloroethylene	C
20% Chlorine Solution	A	Phenol	X
Clorox	A	Phenol Formaldehyde	B
Conc. Ammonium Hydroxide	A	Phosphoric Acid (50%)	A
Corn Oil	A	Phosphoric Acid (100%)	C
Crude Oil	A	Phthalate Plasticizer	C
Diesel Fuel	A	Potassium Chloride	T
Ethanol	A	Potassium Sulphate	T
Ethyl Acetate	C	Raw Linseed Oil	A
Ethyl Alcohol	A	SAE-30 Oil	A
Fertilizer Solution	A	Salt Water (25%)	B
#2 Fuel Oil	A	Sea Water	A
#6 Fuel Oil	A	Sodium Acetate Solution	T
Furfural	X	Sodium Bisulfite Solution	T
Gasoline	B	Sodium Hydroxide (60%)	A
Glycerin	A	Sodium Phosphate	T
Hydraulic Fluid- Petroleum Based	A	Sulphuric Acid (50%)	A
Hydraulic Fluid- Phosphate Ester Based	C	Tanic Acid (50%)	A
Hydrocarbon Type II (40% Aromatic)	C	Toluene	C
Hydrochloric Acid (50%)	A	Transformer Oil	A
Hydrofluoric Acid (5%)	A	Turpentine	A
Hydrofluoric Acid (50%)	A	Urea Formaldehyde	A
Hydrofluosilicic Acid (30%)	A	UAN	A
Isopropyl Alcohol	T	Vegetable Oil	A
Ivory Soap	A	Water (200°F)	A
Jet A	A	Xylene	X
		Zinc Chloride	T

Ratings are based on visual and physical examination of samples after removal from the test chemical after the samples of Black XR-5 were immersed for 28 days at room temperature. Results represent ability of material to retain its performance properties when in contact with the indicated chemical.

Rating Key:
A – Fluid has little or no effect
B – Fluid has minor to moderate effect
C – Fluid has severe effect
T – No data - likely to be acceptable
X – No data - not likely to be acceptable

Vapor Transmission Data

Tested according to ASTM D814-55 Inverted Cup Method

Perhaps a more meaningful test is determination of the diffusion rate of the liquid through the membrane. The vapor transmission rate of Style 8130 XR-5® to various chemicals was determined by the ASTM D814-55 inverted cup method. All tests were run at room temperature and results are shown in the table.

Chemical	8130 XR-5 Black g/hr/m2
Water	**0.11**
#2 Diesel Fuel	**0.03**
Jet A	**0.11**
Kerosene	**0.15**
Hi-Test Gas	**1.78**
Ohio Crude Oil	**0.03**
Low-Test Gas	**5.25**
Raw Linseed Oil	**0.01**
Ethyl Alcohol	**0.23**
Naphtha	**0.33**
Perchlorethylene	**38.58**
Hydraulic Fluid	**0.006**
100% Phosphoric Acid	**7.78**
50% Phosphoric Acid	**0.43**
Ethanol (E-96)	**0.65**
Transformer Oil	**0.005**
Isopropyl Alcohol	**0.44**
JP4 (E-96)	**0.81**
JP8 (E-96)	**0.42**
Fuel B (E-96)	**6.28**
Fuel C (E-96)	**7.87**

Note: The tabulated values are measured Vapor Transmission Rates (VTR). Normal soil testing methods to determine permeability are impractical for synthetic membranes. An "equivalent hydraulic" permeability coefficient can be calculated but is not a direct units conversion. Contact Seaman Corporation for additional technical information.

Seam Strength

Style 8130 XR-5 Black Seam Strength After Immersion

Two pieces of Style 8130 were heat sealed together (seam width 1 inch overlap) and formed into a bag. Various oils and chemicals were placed in the bags so that the seam area was entirely covered. After 28 days at room temperature, the chemicals were removed and one inch strips were cut across the seam and the breaking strength immediately determined. Results are listed below.

Chemical	Seam Strength
None	340 Lbs. Fabric Break- No Seam Failure
Kerosene	355 Lbs. Fabric Break- No Seam Failure
Ohio Crude Oil	320 Lbs. Fabric Break- No Seam Failure
Hydraulic Fluid- Petroleum Based	385 Lbs. Fabric Break- No Seam Failure
Toluene	0 Lbs. Adhesion Failure
Naphtha	380 Lbs. Fabric Break- No Seam Failure
Perchloroethylene	390 Lbs. Fabric Break- No Seam Failure

Even though 1-inch overlap seams are used in the tests to study the accelerated effects, it is recommended that XR-5 be used with a 2-inch nominal overlap seam in actual application. In some cases where temperatures exceed 160ºF and the application demands extremely high seam load, it may be necessary to use a wider width seam.

Long Term Seam Adhesion

11 Years Immersion
ASTM D 751
Lbs./In.

Seam samples of 8130 XR-5® were dielectrically welded together and totally immersed in the liquids for 11 years. The samples were taken out, dried for 24 hours and visually observed for any signs of swelling, cracking, stiffening or degradation of the coating. The coating showed no appreciable degradation and no stiffening, swelling, cracking or peeling.

The adhesion, or resistance to separation of the coating from the base cloth, was then measured by ASTM D 751. Results show 8130 XR-5 maintains seam strength over this long period (11 years).

	Control	Crude Oil	JP-4 Jet Fuel	Diesel Fuel	Kerosene	Naphtha
8130 XR-5	20+	18	33	25	40	33*

Values in lbs./in.

*The naphtha sample was sticky.

We believe this information is the best currently available on the subject. We offer it as a suggestion in any appropriate experimentation you may care to undertake. It is subject to revision as additional knowledge and experience are gained. We make no guarantee of results and assume no obligation or liability whatsoever in connection with this information.

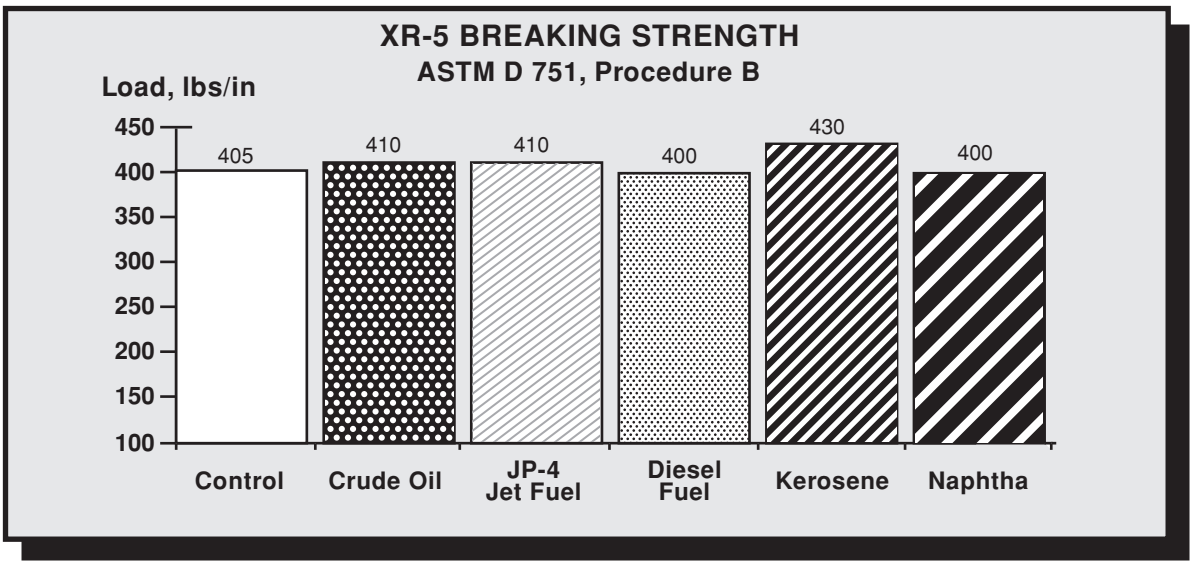
Fuel Compatibility - Long Term Immersion

Test: Samples of 8130 XR-5® Black were immersed in Diesel Fuel, JP-4 Jet Fuel, Crude Oil, Kerosene, and Naphtha for 6 1/2 years.

The samples were then taken out of the test chemicals, blotted and dried for 24 hours. The samples were observed for blistering, swelling, stiffening, cracking or delamination of the coating from the fiber.

Results: It was found in all cases that the 8130 XR-5, after immersion for six years, maintained its strength and there was no evidence of blistering, swelling, stiffening, cracking or delamination.

The strip tensile strength, or breaking strength, of the samples was measured after six years of immersion and the following are the results.



XR-3 Chemical Resistance Statement (Summary)

XR-3® is recommended for moderate chemical resistant applications such as stormwater and municipal wastewater and is not recommended for prolonged contact with pure solutions. XR-3 PW® membranes are recommended only for contact with drinking water and are resistant to low levels of chlorine found in drinking water. XR-5 has a broad range of chemical resistance which is detailed in this section.

Part 2: XR-5® Comparative Chemical Resistance

Chemical Resistance Chart
Comparative Chemical Resistance

	XR-5	HDPE	PVC	Hypalon	Polypropylene
Kerosene	A	B	C	C	C
Diesel Fuel	A	A	C	C	C
Acids (General)	A	A	A	B	A
Naphtha	A	A	C	B	C
Jet Fuels	A	A	C	B	C
Saltwater, 160° F	A	A	C	B	A
Crude Oil	A	B	C	B	C
Gasoline	B	B	C	C	C

A= Excellent B= Moderate C= Poor

Source: Manufacturer's Literature

XR-5 data based on conditions detailed in Section 3, Part 1.

Part 3: Weathering Resistance

Accelerated Weathering Test
XR-5 has been tested in the carbon arc weatherometer for over 10,000 hours of exposure and in the Xenon weatherometer for over 12,000 hours of exposure. The sample showed no loss in flexibility and no significant color change. Based on field experience of Seaman Corporation products and similar weatherometer exposure tests, XR-5 should have an outdoor weathering life significantly longer than competitive geomembranes, particularly in tropical or subtropical applications.

EMMAQUA Testing: ASTM E-838-81 was performed on a modified form of XR-5, FiberTite, used in the single-ply roofing industry. After 3 million Langleys in Arizona, no signs of degradation were noted with no evidence of cracking, blistering, swelling or adhesion delamination failure of the coating.

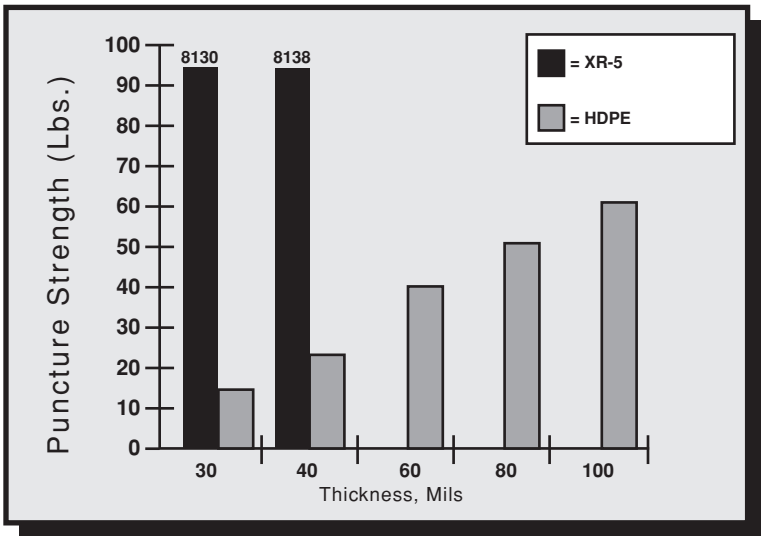
Natural Exposure
After over 17 years as a holding basin at a large oil company in the Texas desert, XR-5 showed no signs of environmental stress cracking, thermal expansion/contraction, or low yield strength problems. Temperature ranges from near zero to over 100° F.

In service approximately 17 years in a solar pond application at a research facility in Ohio, UV exposed samples, as well as immersed samples, retained over 90% of the tensile strength. Examination of the material determined there was little effect on the coating compound. The solar pond was exposed to temperatures from below zero to over 100° F.

XR5 was exposed for 12½ years in Sarasota, Florida, on a weathering rack, facing the southern direction at 45°. No significant color loss, cracking, crazing, blistering, or adhesion delamination failure of the coating was noted.

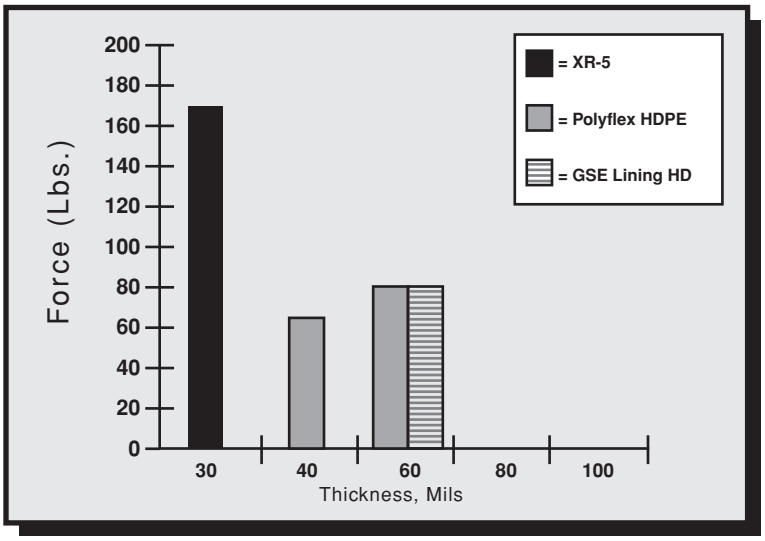
Section 4 - Comparative Physical Properties

XR-5/HDPE Comparative Properties

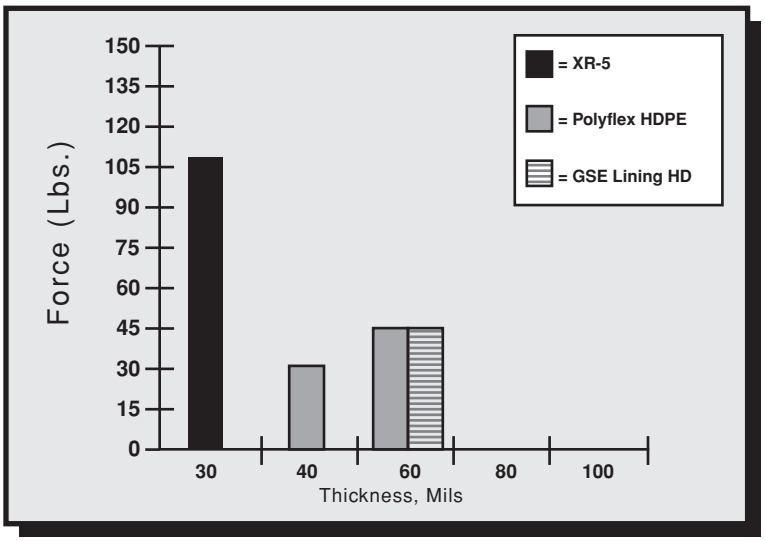


Puncture Resistance

1. ASTM D 751, Screwdriver Tip, 45° Angle (Room Temperature) Puncture Resistance, XR5 vs. HDPE



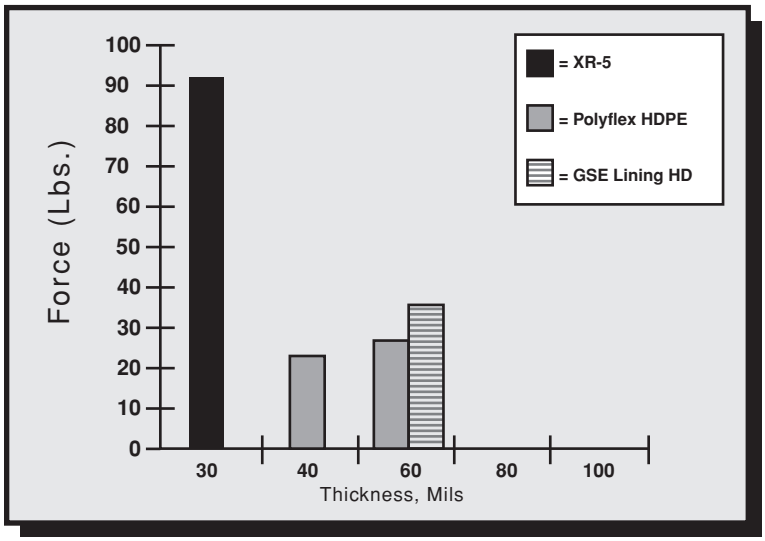
2. FED-STD-101C Method 2065 (Room Temperature)*



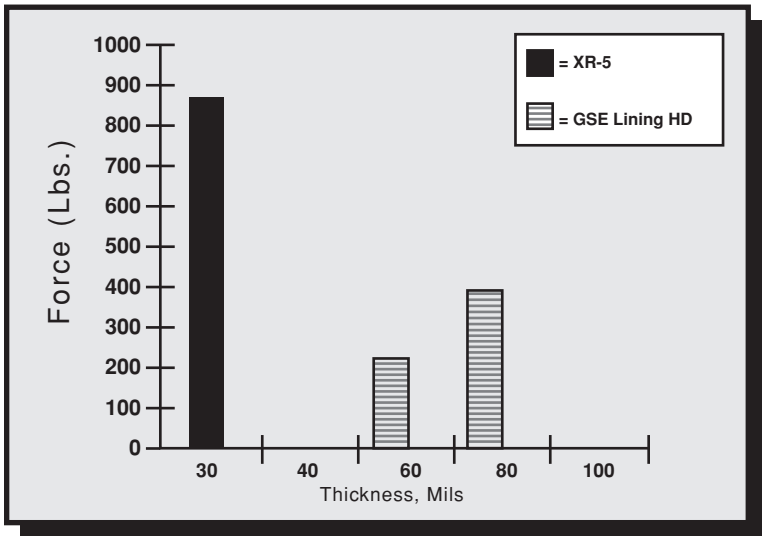
3. FED-STD-101C Method 2065 (70°C)*

* Data provided by E.I. DuPont de Nemours & Co. Wilmington, Delaware

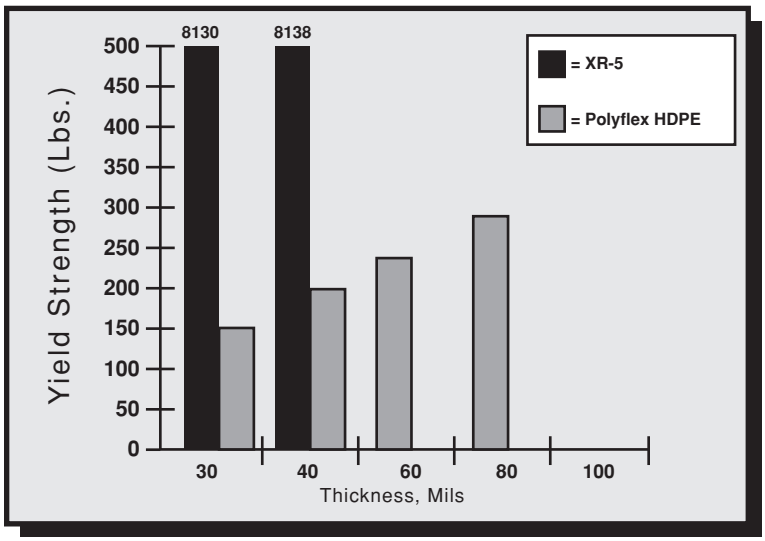
GSE is a registered trademark of GSE Lining Technology, Inc.



4. FED-STD-101C Method 2065 (100ºC)*



5. ASTM D 751 Ball Burst Puncture



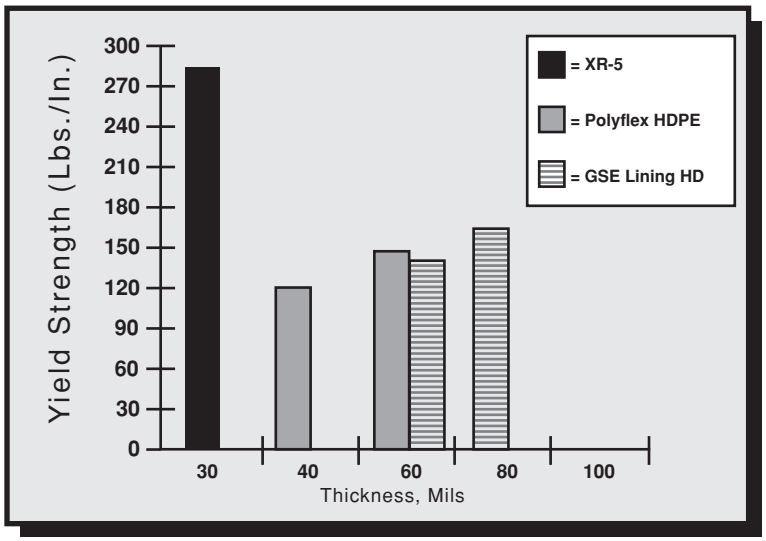
Yield Strength

1. Yield Strength, XR-5 vs. HDPE

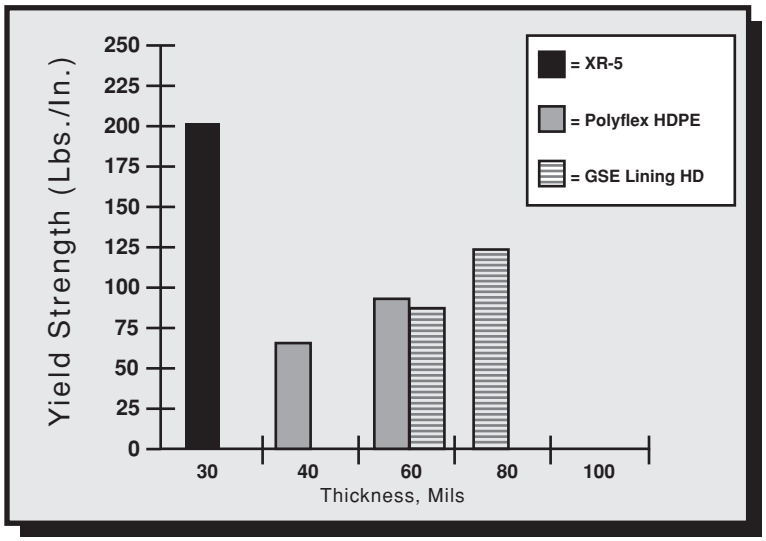
Test Method: Grab Tensile, ASTM D 751, 70° C

* Data provided by E.I. DuPont de Nemours & Co. Wilmington, Delaware

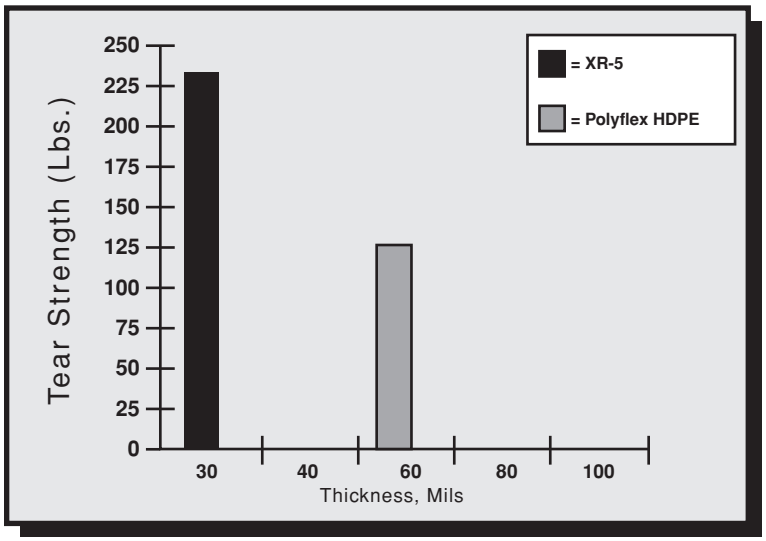
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2. Strip Tensile, ASTM D 751, Room Temperature*



3. Strip tensile, ASTM D 751, 70ºC*

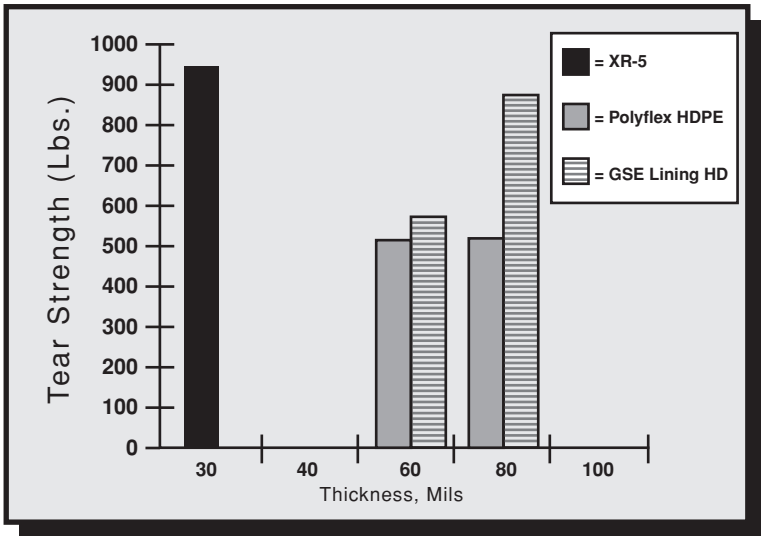


Tear Strength

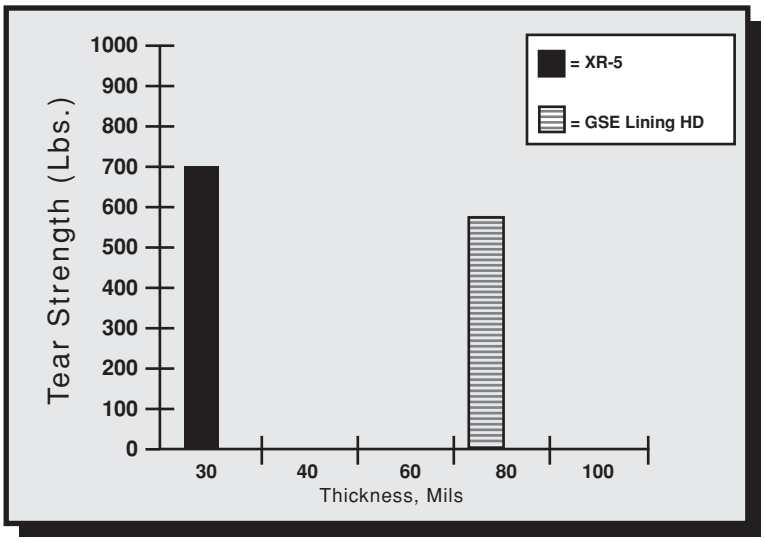
1. Tongue Tear (8" x 10" Specimens), ASTM D 751, Room Temperature*

* Data provided by E.I. DuPont de Nemours & Co. Wilmington, Delaware

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1. Graves Tear, ASTM D 624, Die C, Room Temperature*

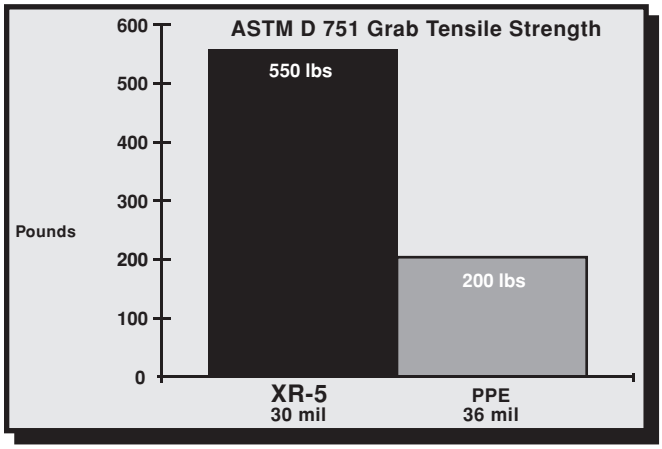


2. Graves Tear, ASTM D 624, Die C, 70°C*

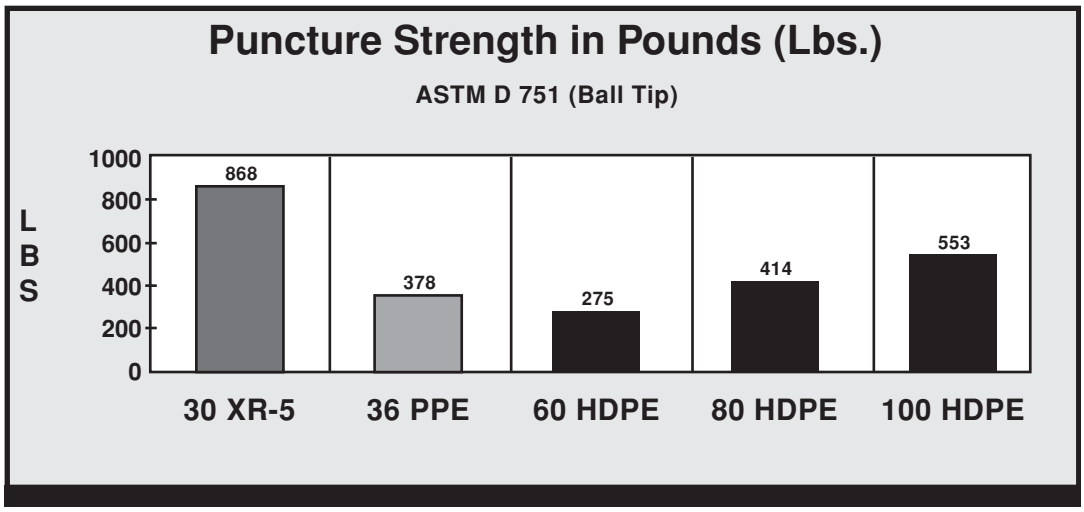
* Data provided by E.I. DuPont de Nemours & Co. Wilmington, Delaware

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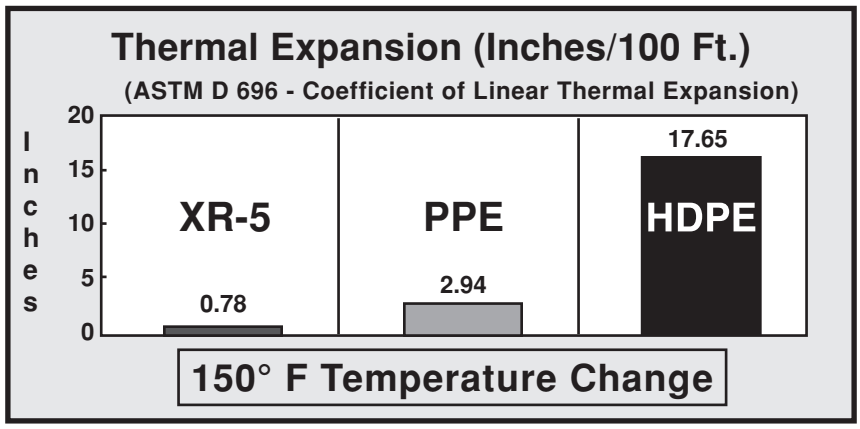
Grab Strength – XR-5® vs. Polypropylene Tensile



Puncture Strength Comparison



Coated Fabric Thermal Stability



Specification For Geomembrane Liner

(Sample specification: 8130 XR-5®. For other product specifications, go to www.xr-5.com)

General

1.01 Scope Of Work

Furnish and install flexible membrane lining in the areas shown on the drawings. All work shall be done in strict accordance with the project drawings, these specifications and membrane lining fabricator's approved shop drawings.

Geomembrane panels will be supplied sufficient to cover all areas, including appurtenances, as required in the project, and shown on the drawings. The fabricator/installer of the liner shall allow for shrinkage and wrinkling of the field panels.

1.02 Products

The lining material shall be 8130 XR-5 as manufactured by Seaman Corporation (1000 Venture Boulevard, Wooster, OH 44691; 330-262-1111), with the following physical specifications:

Base- (Type)	Polyester
Fabric Weight (ASTM D 751)	6.5 oz./sq. yd.
Finished Coated Weight (ASTM D 751)	30 ± 2 oz./sq. yd.
Trapezoid Tear (ASTM D 751)	40/55 lbs. min.
Grab Yield Tensile (ASTM D 751, Grab Method Procedure A)	550/550 lbs. min.
Elongation @ Yield (%)	20% min.
Adhesion- Heat Seam (ASTM D 751, Dielectric Weld)	40 lbs./2in. weld min.
Adhesion- Ply (ASTM D 413, Type A)	15 lbs./in. or film tearing bond
Hydrostatic Resistance (ASTM D 751, Method A)	800 psi min.
Puncture Resistance (ASTM D 4833)	275 lbs. min.
Bursting Strength (ASTM D 751 Ball Tip)	750 lbs. min.
Dead Load (ASTM D 751) Room Temperature	220 lbs. min.
(2" overlap seam, 4 hours) 160ºF	120 lbs. min.
Bonded Seam Strength (ASTM D 751 Grab Test Method, Procedure A)	575 lbs. min.
Low Temperature (ASTM D 2136, 4 hours- 1/8" Mandrel)	Pass @ -30ºF
Weathering Resistance ASTM G 153 Carbon Arc	8,000 hours min. With no appreciable changes or stiffening or cracking of coating
Dimensional Stability (ASTM D 1204, 212ºF 1 Hour, Each Direction)	0.5% max.
Water Absorption (ASTM D 471, 7 Days)	0.025 kg/m² max. @ 70ºF 0.14 kg/m² max. @ 212ºF
Abrasion Resistance ASTM D 3389, H-18 Wheel, 1000 g load	2000 cycles before fabric exposure; 50 mg/100 cycles max. wgt. Loss
Coefficient of Thermal Expansion/Contraction (ASTM D 696)	8 x 10^{-6} in/in/º F max.

1.03 Submittals

The fabricator of panels used in this work shall prepare shop drawings with a proposed panel layout to cover the liner area shown in the project plans. Shop drawings shall indicate the direction of factory seams and shall show panel sizes consistent with the material quantity requirements of 1.01.

Details shall be included to show the termination of the panels at the perimeter of lined areas, the methods of sealing around penetrations, and methods of anchoring.

Placement of the lining shall not commence until the shop drawings and details have been approved by the owner, or his representative.

1.04 Factory Fabrication
The individual XR-5® liner widths shall be factory fabricated into large sheets custom designed for this project so as to minimize field seaming. The number of factory seams must exceed the number of field seams by a factor of at least 10.

A two-inch overlap seam done by heat or RF welding is recommended. The surface of the welded areas must be dry and clean. Pressure must be applied to the full width of the seam on the top and bottom surface while the welded area is still in a melt-type condition. The bottom welding surface must be flat to insure that the entire seam is welded properly. Enough heat shall be applied in the welding process that a visible bead is extruded from both edges being welded. The bead insures that the material is in a melt condition and a successful chemical bond between the two surfaces is accomplished.

Two-inch overlapped seams must withstand a minimum of 240 pounds per inch width dead load at 70º F. and 120 pounds per inch width at 160º F. as outlined in ASTM D 751. All seams must exceed 550 lbs. bonded seam strength per ASTM D 751 Bonded Seam Strength Grab Test Method, Procedure A.

1.05 Inspection And Testing Of Factory Seams
The fabricator shall monitor each linear foot of seam as it is produced. Upon discovery of any defective seam, the fabricator shall stop production of panels used in this work and shall repair the seam, and determine and rectify the cause of the defect prior to continuation of the seaming process.

The fabricator must provide a Quality Control procedure to the owner or his representative which details his method of visual inspection and periodic system checks to ensure leak-proof factory fabrication.

1.06 Certification and Test Reports
Prior to installation of the panels, the fabricator shall provide the owner, or his representative, with written certification that the factory seams were inspected in accordance with Section 1.05.

1.07 Panel Packaging and Storage
Factory fabricated panels shall be accordian-folded, or rolled, onto a sturdy wooden pallet designed to be moved by a forklift or similar equipment. Each factory fabricated panel shall be prominently and indelibly marked with the panel size. Panels shall be protected as necessary to prevent damage to the panel during shipment.

Panels which have been delivered to the project site shall be stored in a dry area.

1.08 Qualifications of Suppliers
The fabricator of the lining shall be experienced in the installation of flexible membrane lining, and shall provide the owner or his representative with a list of not less than five (5) projects and not less than 500,000 square feet of successfully installed XR-5 synthetic lining. The project list shall show the name, address, and telephone number of an appropriate party to contact in each case. The manufacturer of the sheet goods shall provide similar documentation with a 10 million square foot minimum, with at least 5 projects demonstrating 10+ years service life.

The installer shall provide similar documentation to that required by the fabricator.

1.09 Subgrade Preparation By Others
Lining installation shall not begin until a proper base has been prepared to accept the membrane lining. Base material shall be free from angular rocks, roots, grass and vegetation. Foreign materials and protrusions shall be removed, and all cracks and voids shall be filled and the surface made level, or uniformly sloping as indicated

on the drawings. The prepared surface shall be free from loose earth, rocks, rubble and other foreign matter. Generally, no rock or other object larger than USCS sand (SP) should remain on the subgrade in order to provide an adequate safety factor against puncture. Geotextiles may be used to compensate for irregular subgrades. The subgrade shall be uniformly compacted to ensure against settlement. The surface on which the lining is to be placed shall be maintained in a firm, clean, dry and smooth condition during lining installation.

1.10 Lining Installation
Prior to placement of the liner, the installer will indicate in writing to the owner or his representative that he believes the subgrade to be adequately prepared for the liner placement.

The lining shall be placed over the prepared surface in such a manner as to assure minimum handling. The sheets shall be of such lengths and widths and shall be placed in such a manner as to minimize field seaming.

In areas where wind is prevalent, lining installation should be started at the upwind side of the project and proceed downwind. The leading edge of the liner shall be secured at all times with sandbags or other means sufficient to hold it down during high winds.

Sandbags or rubber tires may be used as required to hold down the lining in position during installation. Materials, equipment or other items shall not be dragged across the surface of the liner, or be allowed to slide down slopes on the lining. All parties walking or working upon the lining material shall wear soft-sole shoes.

Lining sheets shall be closely fit and sealed around inlets, outlets and other projections through the lining. Lining to concrete seals shall be made with a mechanical anchor, or as shown on the drawings. All piping, structures and other projections through the lining shall be sealed with approved sealing methods.

1.11 XR-5 Field Seaming
All requirements of Section 1.04 and 1.05 apply. A visible bead should be extruded from the hot air welding process.

Field fabrication of lining material will not be allowed.

1.12 Inspection
All field seams will be tested using the Air Lance Method. A compressed air source will deliver 55 psi minimum to a 3/16 inch nozzle. The nozzle will be directed to the lip of the field seam in a near perpendicular direction to the length of the field seam. The nozzle will be held 4 inches maximum from the seam and travel at a rate not to exceed 40 feet per minute. Any loose flaps of 1/8" or greater will require a repair.

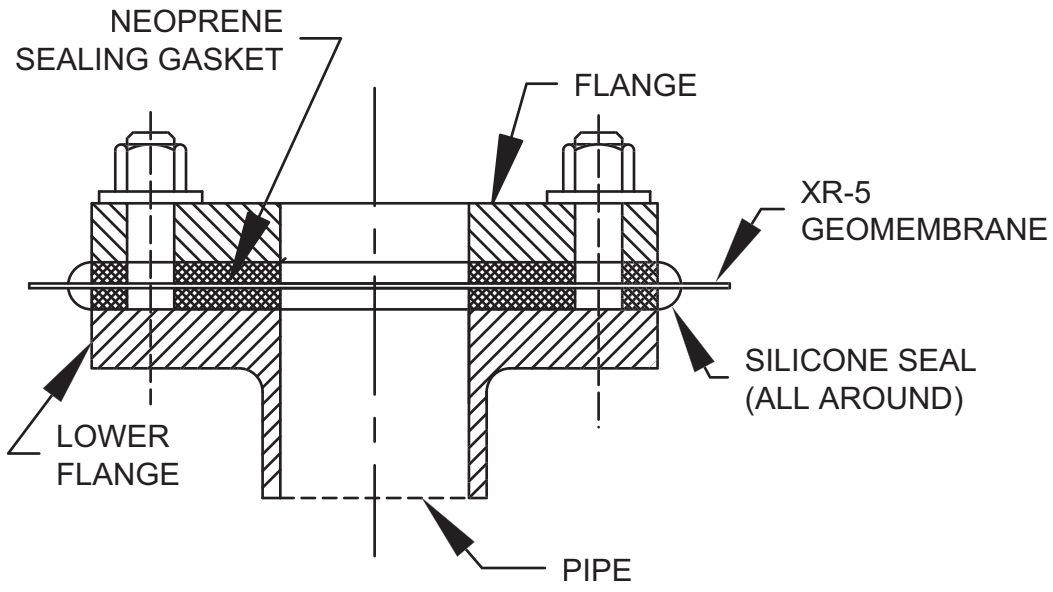
Alternatively all field seams should also be inspected utilizing the Vacuum Box Technique as described in Standard Practice for Geomembrane Seam Evaluation by Vacuum Chamber (ASTM D 5641-94 (2006)), using a 3 to 5 psi vacuum pressure. All leaks shall be repaired and tested.

All joints, on completion of work, shall be tightly bonded. Any lining surface showing injury due to scuffing, penetration by foreign objects, or distress from rough subgrade, shall as directed by the owner or his representative be replaced or covered, and sealed with an additional layer of lining of the proper size, in accordance with the patching procedure.

1.13 Patching
Any repairs to the lining shall be patched with the lining material. The patch material shall have rounded corners and shall extend a minimum of four inches (4") in each direction from the damaged area.

Seam repairs or seams which are questionable should be cap stripped with a 1" wide (min.) strip of the liner material. The requirements of Section 1.11 apply to this cap stripping.

1.14 Warranty
The lining material shall be warranted on a pro-rated basis for 10 years against both weathering and chemical compatibility in accordance with Seaman Corporation warranty for XR-5® Style 8130. A test immersion will be performed by the owner and the samples evaluated by the manufacturer. Workmanship of installation shall be warranted for one year on a 100% basis.



Seaman Corporation

ENGINEERED PRODUCTS GROUP

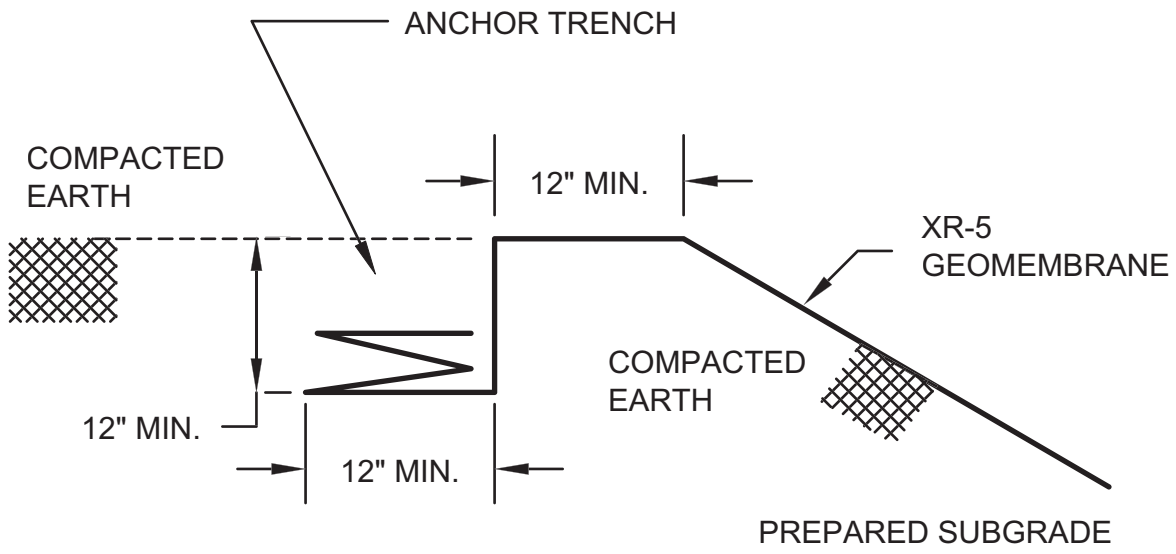
1000 Venture Blvd.,Wooster, Ohio 44691

FLANGE CONNECTION
TO
PIPE SECTION

SCALE: NONE

SHEET 1 of 1

DRAW NO. XRD-019



Seaman Corporation

ENGINEERED PRODUCTS GROUP

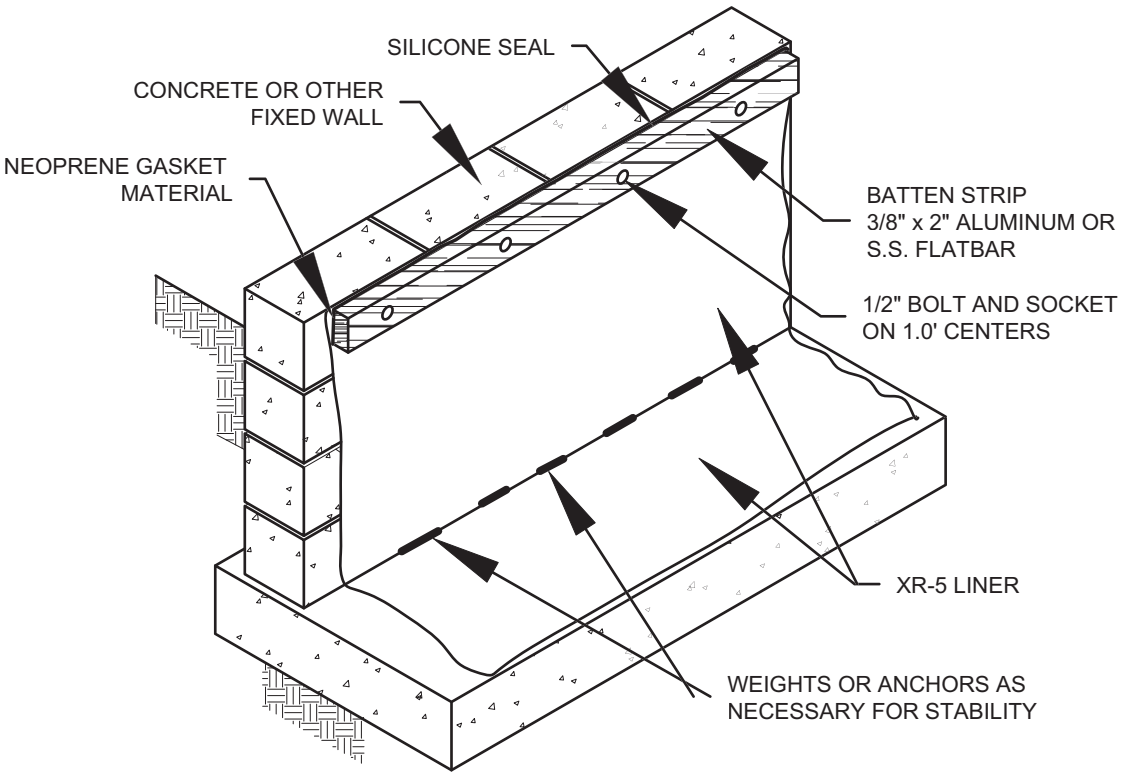
1000 Venture Blvd.,Wooster, Ohio 44691

ELEVATION VIEW
TYPICAL ANCHOR DETAILS
XR-5 LINER

SCALE: NONE

SHEET 1 of 1

DRAW NO. XRD-001



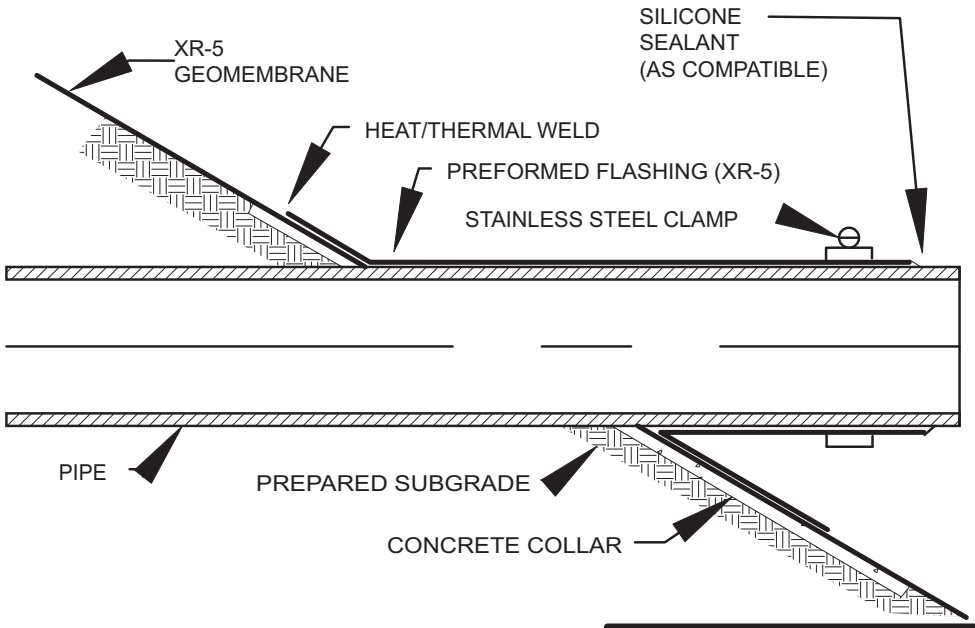
Seaman Corporation

ENGINEERED PRODUCTS GROUP

1000 Venture Blvd.,Wooster, Ohio 44691

ANCHORING DETAIL
XR-5 LINER TO FIXED WALL

SCALE: NONE	
SHEET 1 of 1	DRAW NO. XRD-023



Seaman Corporation

ENGINEERED PRODUCTS GROUP

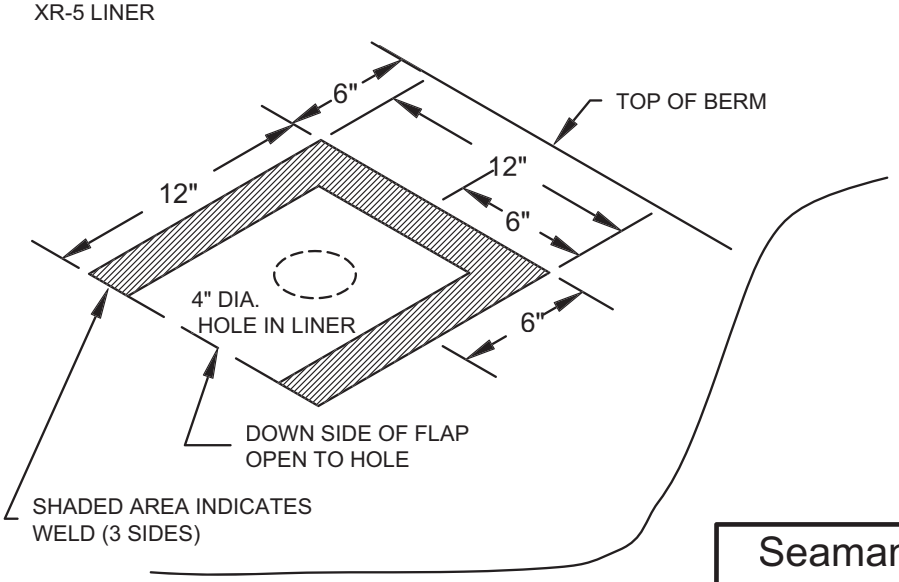
1000 Venture Blvd.,Wooster, Ohio 44691

ELEVATION VIEW
TYPICAL PIPE PUNCTURE
SEAL DETAIL XR-5 LINER

SCALE: NONE

SHEET 1 of 1

DRAW NO. XRD-018



Seaman Corporation

ENGINEERED PRODUCTS GROUP

1000 Venture Blvd.,Wooster, Ohio 44691

PLAN VIEW
FLAP VENT DETAIL
XR-5 LINER

SCALE: NONE

SHEET 1 of 1

DRAW NO. XRD-012

Section 6 - Warranty Information

Warranty

XR-5® is offered with Seaman Corporation standard warranty which addresses weathering and chemical compatibility for a 10-year period. A test immersion is required with subsequent testing and approval by Seaman Corporation.

Instructions for XR-5 Test Immersions and Warranty Requests

1. Completely immerse six Style 8130 XR-5 samples (8-1/2" x 11" size) in the liquid to be contained.
2. At the end of approximately thirty days, retrieve three of the samples. The samples should be rinsed with fresh water and dried.
3. Send the three samples to:

   Attn: Geomembrane Department
   Seaman Corporation
   1000 Venture Blvd.
   Wooster, OH 44691

4. Keep the other three samples immersed until further notice in case longer immersion data is required.
5. Complete and return the information form on the liner application.

8228 XR-3® and all PW Geomembranes are offered with a standard 10-year warranty for weathering. The attached information form should be completed.

XR® Membrane Application and Utilization Form

Installation Owner and Address:

Physical Location of Installation:

Expected Date of Installation: _____

Expected Beginning Date of Service: _____

Description of Application:
(Example: impoundment used to contain brine on an emergency basis.)

Physical Features of Application:
(Example: 1.3 million gallon earthen impoundment with overall top dimensions of 160′ x 160′ with 3:1 slopes and 10′ deep.)

Description of Liquid:

(Describe content of liquid including pollutants and expected temperature extremes in basin and at application point. Attach analysis of liquid chemistry, composition taken on a representative basis.)

Operational Characteristics:

(Describe the operation of the facility such as filling schedules, fluctuating liquid levels, operating temperatures, etc.)

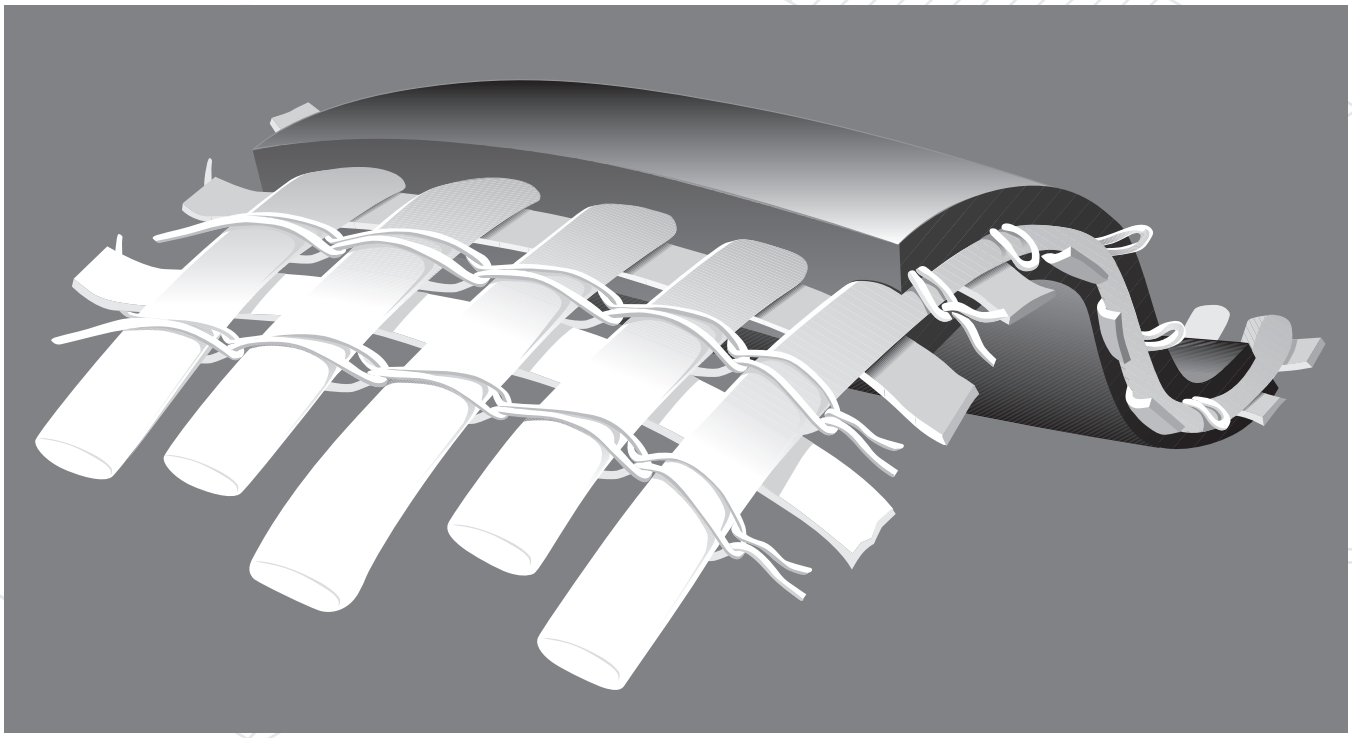
Performance Requirements, Etc:

(State any other requirements, such as rate of permeability required.)

Owner represents the information herein is complete and accurate, and understands and agrees that issuance of Seaman Corporation Warranty for XR products are conditioned upon such completeness and accuracy.

OWNER'S SIGNATURE

Reference Materials:



XR-5®: High Performance Composite Geomembrane

Seaman Corporation
1000 Venture Blvd.
Wooster, Ohio 44691
(330) 262-1111
www.xr-5.com

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

ATTACHMENT III.1.I

SMOOTH HDPE GEOMEMBRANE

SMOOTH HDPE GEOMEMBRANE
ENGLISH UNITS

Property	Test Method	Minimum Average Values				
		30 mil	40 mil	60 mil	80 mil	100 mil
Thickness, mils	ASTM D 5199					
minimum average		30	40	60	80	100
lowest individual reading		27	36	54	72	90
Sheet Density, g/cc	ASTM D 1505/D 792	0.940	0.940	0.940	0.940	0.940
Tensile Properties[1]	ASTM D 6693					
1. Yield Strength, lb/in		63	84	126	168	210
2. Break Strength, lb/in		114	152	228	304	380
3. Yield Elongation, %		12	12	12	12	12
4. Break Elongation, %		700	700	700	700	700
Tear Resistance, lb	ASTM D 1004	21	28	42	56	70
Puncture Resistance, lb	ASTM D 4833	54	72	108	144	180
Stress Crack Resistance[2], hrs	ASTM D 5397 (App.)	300	300	300	300	300
Carbon Black Content[3], %	ASTM D 1603	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	ASTM D 5596			--Note 4--		
Oxidative Induction Time (OIT)						
Standard OIT, minutes	ASTM D 3895	100	100	100	100	100
Oven Aging at 85°C	ASTM D 5721					
High Pressure OIT - % retained after 90 days	ASTM D 5885	60	60	60	60	60
UV Resistance[5]	GRI GM11					
High Pressure OIT[6] - % retained after 1600 hrs	ASTM D 5885	50	50	50	50	50
Seam Properties	ASTM D 6392 (@ 2 in/min)					
1. Shear Strength, lb/in		57	80	120	160	200
2. Peel Strength, lb/in - Hot Wedge		45	60	91	121	151
- Extrusion Fillet		39	52	78	104	130
Roll Dimensions						
1. Width (feet):		23	23	23	23	23
2. Length (feet)		1000	750	500	375	300
3. Area (square feet):		23,000	17,250	11,500	8,625	6,900
4. Gross weight (pounds, approx.)		3,470	3,470	3,470	3,470	3,470

1 Machine direction (MD) and cross machine direction (XMD) average values should be on the basis of 5 test specimens each direction. Yield elongation is calculated using a gauge length of 1.3 inches; Break elongation is calculated using a gauge length of 2.0 inches.
2 The yield stress used to calculate the applied load for the SP-NCTL test should be the mean value via MQC testing.
3 Other methods such as ASTM D 4218 or microwave methods are acceptable if an appropriate correlation can be established.
4 Carbon black dispersion for 10 different views: Nine in Categories 1 and 2 with one allowed in Category 3.
5 The condition of the test should be 20 hr. UV cycle at 75°C followed by 4 hr. condensation at 60°C.
6 UV resistance is based on percent retained value regardless of the original HP-OIT value.

This data is provided for informational purposes only and is not intended as a warranty or guarantee. Poly-Flex, Inc. assumes no responsibility in connection with the use of this data. These values are subject to change without notice. REV. 11/06

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 1: ENGINEERING DESIGN

ATTACHMENT III.1.J

COMPUTER AIDED EARTHMOVING SYSTEM

Computer Aided Earthmoving System

CAES for Landfills



Landfill Compactors
Track-Type Tractors
Wheel Tractor Scrapers
Motor Graders

System Components	
Communications Radio	TC900B
GPS Antenna	L1/L2
GPS Receiver	MS840
In-Cab Display	CAES Touch Screen Display
CAESoffice™/METSmanager	

Computer Aided Earthmoving System for Landfills

Advanced GPS technologies for earthmoving equipment improve machine efficiency, maximize air space utilization, and extend landfill life.

Caterpillar is helping customers revolutionize the way they compact trash, grade slopes and manage their operation with new technology solutions for landfills. Solutions that provide greater accuracy, higher productivity, lower operating costs, more profitability and longer landfill life.

The Computer Aided Earthmoving System (CAES) is a high technology earthmoving tool that allows machine operators to achieve maximum landfill compaction, desired grade/slope, and conserve and ensure even distribution of valuable cover soil with increased accuracy without the use of traditional survey stakes and crews. Using global positioning system (GPS) technology, machine-mounted components, a radio network, and office management software, this state-of-the-art machine control system delivers real-time elevation, compaction and grade control information to machine operators on an in-cab display. By monitoring grade and compaction progress, operators have the information they need to maximize the efficiency of the machine, resulting in proper drainage and optimum airspace utilization.

This advanced technology tool also aids in the identification of site-specific storage areas for hazardous, medical, industrial, and organic waste requiring special handling and placement records.

Applications

CAES is an ideal tool for landfill planning, engineering, surveying, grade control, and production monitoring applications in dump areas. CAES is specifically designed for use on landfill compactors, track-type tractors, wheel tractor scrapers, and motor graders.

On-Board Components

- CAES Touch Screen Display
- GPS Receiver
- GPS Antenna (L1/L2)
- Communications Radio

Off-Board Components

- GPS Reference Station
- Radio Network
- CAESoffice/METSmanager



Operation

CAES uses GPS technology, a wireless radio communications network, and office software to map landfills, create site plans, locate a machine's position, and track compaction and earthmoving progress with complete accuracy.

The receiver uses signals from GPS satellites to determine precise machine positioning. Two receivers are used to capture and collect satellite data – one located at a stationary spot on the landfill site, and another located on the machine. Signals from the ground-based reference station and on-board computer are used to remove errors in satellite measurements for centimeter accuracy.

The CAES-enabled machine is driven over the site to create a digital terrain design file. Using the radio network and office software, landfill terrain data is transmitted from the machine to the landfill office. Landfill managers can then send the work plan from the office to the in-cab display to show operators the work to be done.

The in-cab display provides the operator with an overhead and cross-sectional three-dimensional surface view of the color-coded work plan and precise machine location. The software continuously updates terrain and machine position information as the machine traverses the site.

CAES gives the operator the ability to control grade by monitoring progress on the in-cab display, which shows a graphical representation of lift thickness and compaction density. Cut/fill numbers are displayed in real-time as the machine moves across the site, which allows the operator to know precise elevation, material spread, compaction passes, and required cut or fill at any point on the job.

The *compactor* display shows colored grids representing the number of compaction passes the machine has made across each area. As the compactor wheel travels over an area, the screen changes color to acknowledge the pass. Green areas indicate when optimum compaction has been reached. The system also monitors thick lift information and visually displays when a lift exceeds maximum site parameters.

In *tractor, scraper and motor grader* applications, the color display graphically shows the operator cut, fill, and grade work to be done according to plan. As the machine works, the screen changes color. Green indicates when the operator has achieved plan grade.

By providing immediate feedback on the accuracy of each pass, CAES operators have the information and confidence they need to work more efficiently, productively and profitably.

On-Board Components

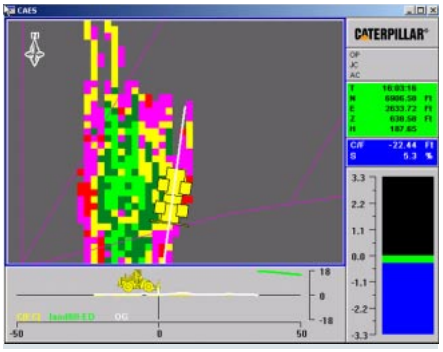
Communications Radio. The rugged radio, mounted on the roof of the machine, is used for transmitting, repeating and receiving real-time data from GPS receivers. The radio broadcasts real-time, high-precision data for GPS applications. Under normal conditions, the 900 MHz radio broadcasts data up to 10 km (6.2 miles) line-of-sight. Coverage can be enhanced with a network of repeaters, which allows coverage over a broader area. Optimized for GPS with increased sensitivity and jamming immunity, the radio features error correction and high-speed data transfer, ensuring optimum performance. A 450 MHz radio solution is also available.

GPS Antenna (L1/L2). The dual frequency external antenna, mounted on the roof of the machine and reference station, is used to pick up the signals from the GPS satellites to determine the machine's position for high precision, real-time machine guidance and control. A low-noise amplifier provides sensitive performance in demanding applications. The compact, low profile design and sealed housing ensure reliable performance in harsh weather conditions.

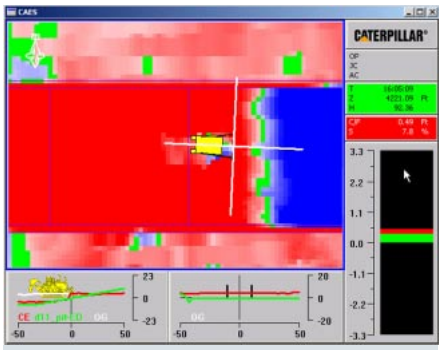


GPS Receiver. The dual frequency real-time kinematic (RTK) GPS receiver is used to send and receive data simultaneously across the radio network. The system computes differential corrections for real-time positioning with centimeter accuracies, to ensure precise machine guidance and control.

CAES Touch Screen Display. The in-cab graphical display provides real-time operating information to the operator. Designed for simple operation, the 264 mm (10.4 in) custom configurable, integrated touch screen display allows operators to easily interface with the CAES system. The display utilizes the latest infrared touch and transflective backlight technology for superior viewing in bright light conditions and a broad-range dimmable backlight for viewing in low light conditions. Designed for reliable performance in extreme operating conditions, the unit is guarded against shock and sealed to keep out dust and moisture.



Compactor Screen



Dozer Screen

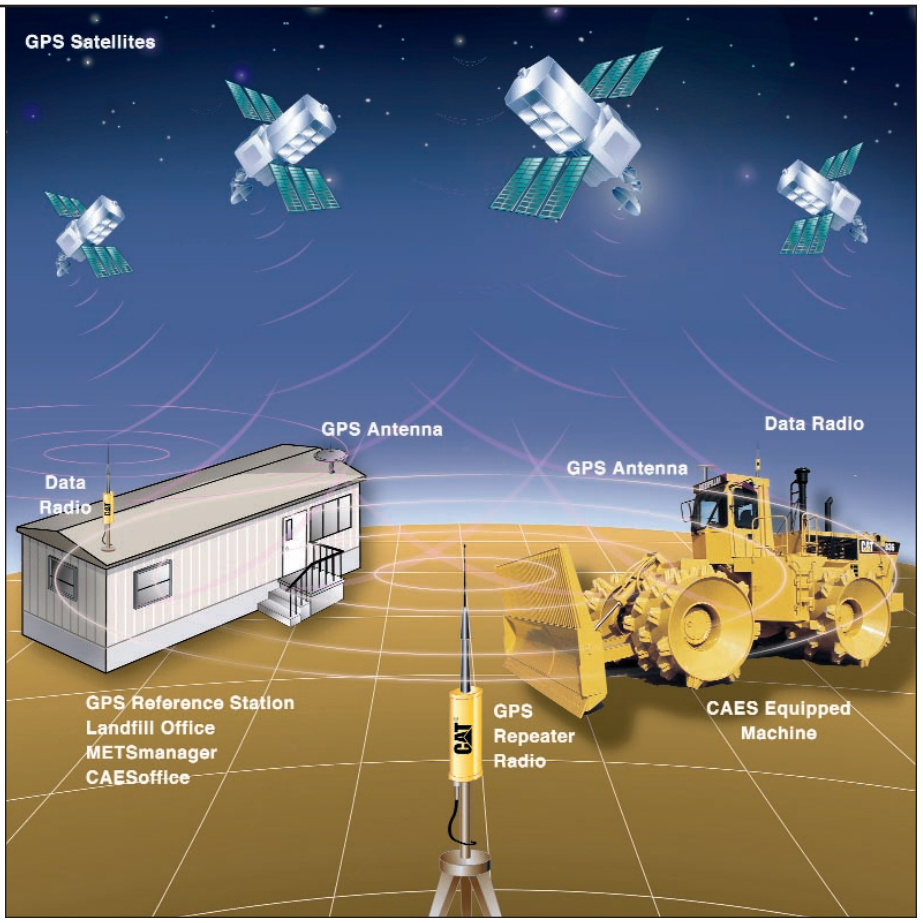
Off-Board Components

GPS Technology. Global Positioning System (GPS) technology uses 24+ satellites that orbit above the earth and constantly transmit their positions, identities and times of signal broadcasts to earth-based satellite sensors. The GPS receiver is an electronic box, which measures the distance to each visible satellite from an antenna on the ground. Through trilateralization, the receiver determines where the satellite is in respect to the center of the earth. The GPS receiver uses its own position and GPS satellite positions to calculate errors and corrections for computing exact location and precise positioning with centimeter accuracy.

GPS Reference Station. A GPS reference station is used to achieve the centimeter level accuracy needed in a landfill application. The reference station sends GPS information over a radio link to the GPS receiver on the CAES-enabled machine. The receiver combines the information with its own observations to compute precise positioning.

Radio Network. The radio network for CAES has two channels. GPS correction data is transmitted over one channel, while the other channel is used to send site planning and production data to the machine and from the machine back to the site office. By utilizing the same radio as a repeater the range can be extended to provide seamless coverage around local obstacles such as hills or large buildings. Up to four radio repeaters may be used to provide extended coverage.

Landfill Planning Software. Site planning and surveying begins with the landfill planning software. CAES is compatible with most third party CAD planning software packages. Data formats used between the CAES software and the planning software are industry standard .DXF and ASCII.



CAESoffice™. The powerful Caterpillar-designed CAESoffice software enables landfill management to monitor CAES-equipped machines and work progress throughout the site in near real-time. The data is stored in a database format for easy customized access, reporting and editing.

METSmanager. This software package allows for integration of the landfill planning system and the machine. It provides the user interface for CAES and controls all communications over the wireless radio network. METSmanager reads design files in standard .DXF formats, converts them to CAES format (.CAT), and sends the design files to the on-board display on the machine over the radio network. This program continually updates the site model by regularly requesting data transmissions from the machine to the office.

- **File Window.** Displays design files (.DXF) created using the site planning package, and holds application configuration files for GPS receivers and files converted from .DXF to the CAES on-board software format (.CAT).
- **Machines Window.** Shows icons of each machine equipped with CAES on-board software. Allows multiple machines to be monitored at the same time.
- **Messages Window.** Contains a list of recent error, warning, confirmation, or information messages generated by METSmanager.
- **Communications Queue Window.** Lists all file transmissions scheduled to occur over the radio network and displays transmission status for all files.

Specifications

TC900B Communications Radio

- Technology: Spread spectrum
- Modes: Base, repeater, rover
- Optimal Range: 10 km (6 miles), line-of-sight
- Typical Range: 3-5 km (2-3 miles) varies w/terrain and operating conditions. Repeaters may be used to extend range
- Frequency Range: 902-928 MHz
- Networks: Ten, user selectable
- Transmit Power: Meets FCC requirements, 1 watt max.
- License Free (U.S. and Canada)
- Wireless Data Rates: 128 Kbps[2]
- Operating Temperature: –40° C to 70° C (–40° F to 158° F)
- Storage Temperature: –40° C to 85° C (–40° F to 185° F)
- Humidity: 100%
- Sealing: Exceeds MIL-STD-810E, sealed to ±34.5 kPa (±5 psi), immersible to 1 m (39 in)
- Vibration: 8 gRMS, 20-2000 Hz
- Operational Shock: ±40 g, 10 msec
- Survival Shock: ±75 g, 6 msec
- Electrical Input: 10.5 to 20V DC
- Nominal Current: 250 mA (3 W)1
- Transmit Current: 1000 mA (12 W)1
- Protection: Reverse polarity
- Control Interface: SAE J1939 CAN
- Emissions and Susceptibility: CE compliant, exceeds ISO 13766
- Input Connector: 8-pin
- Network Connector: 8-pin
- Height: 250 mm (10 in)
- Width: 85 mm (3.4 in)
- Weight: 0.9 kg (2.0 lb)

Radios outside of U.S. and Canada operate on different frequencies. Please contact your Cat Dealer for specifics.

L1/L2 GPS Antenna

- Operating Temperature: –40° C to 70° C (–40° F to 158° F)
- Storage Temperature: –55° C to 85° C (–67° F to 185° F)
- Height: 151mm (6 in)
- Width: 330 mm (13 in)
- Depth: 72 mm (2.8 in)
- Weight: 1.695 kg (3.8 lb)

MS840 GPS Receiver

- Tracking: 9 channels L1 C/A code, L1/L2 full cycle carrier, fully operational during P-code encryption
- Signal Processing: Supertrak multibit technology, Everest multipath suppression
- Positioning Mode –
- Synchronized RTK: 1 cm + 2 ppm horizontal accuracy/2 cm + 2 ppm vertical accuracy, 300 ms latency, 5 Hz std. maximum rate
- Low Latency: 2 cm + 2 ppm horizontal accuracy/3 cm + 2 ppm vertical accuracy, <20 ms latency, 20 Hz maximum rate
- DPGS: <1m accuracy, <20 ms latency, 20 Hz maximum rate
- Range: Up to 20 km from base for RTK
- Communication: 3x RS-232 ports, baud rates up to 115,200
- Control Interface: SAE J1939 CAN
- Configuration: RS-232 Serial connection
- Operating Temperature: –20° C to 60° C (–4° F to 140° F)
- Storage Temperature: –30° C to 80° C (–22° F to 176° F)
- Humidity: 100%
- Operational Vibration: 3 gRMS
- Survival Vibration: 6.2 gRMS
- Operational Shock: ±40 g
- Survival Shock: ±75 g
- Electrical Input: 12/24V DC, 9 watts
- Height: 5.1 cm (2.0 in)
- Width: 14.5 cm (5.7 in)
- Depth: 23.9 cm (9.4 in)
- Weight: 1.0 kg (2.25 lb)

CAES Touch Screen Display

- LCD Display: 264 mm (10.4 in) 640 × 480 transflective color VGA
- Buttons: touch screen
- Touch Screen: 3.17 mm (0.125 in) resolution infrared high light rejection
- Back Light: 200 cd/m2, 200:1 dimming ratio
- Processor: Intel Pentium CPU
- Memory: 64 MB Ram
- Solid State Disk: Internal 128 MB, external compact flash
- Operating Environment: Embedded WinNT
- Operating Temperature: –20° C to 70° C (–4° F to 158° F)
- Storage Temperature: –50° C to 85° C (–58° F to 185° F)
- Sealing: IP68 sealed to ±5 psi
- Humidity: 100%
- Electrical Input: 9-32V DC
- Power Supply: 5 amp @ 40W load dump, reverse voltage, ESD, over voltage protection
- Connector: 70-pin
- Discrete I/O: 8 digital ports; 5 PMW inputs
- Mounting: bracket or panel
- Height: 261 mm (10.28 in)
- Width: 315 mm (12.4 in)
- Depth: 93 mm (3.66 in)
- Weight: 3.17 kg (8.5 lb)

CAESoffice/METSmanager PC Requirements

- Pentium II/III processor w/ 128 MB memory
- 21 in. monitor (SVGA color 1024 × 768 resolution) with 2MB video memory
- Windows NT 4.0 or higher with latest service pack
- Modem- internal or external (required for remote support)
- Required ports: serial (suggest 2 serial, 1 parallel)
- CD ROM drive
- 3.5 in disk drive
- Mouse or suitable pointing device
- Hard Drive Space: 200 MB min.

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APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 2: VOLUMETRIC CALCULATIONS

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APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: LANDFILL ENGINEERING CALCULATIONS
SECTION 2: VOLUMETRIC CALCULATIONS

1.0 INTRODUCTION

DNCS Environmental Solutions (DNCS Facility) is a proposed Surface Waste Management Facility for oil field waste processing and disposal services. The proposed DNCS Facility is subject to regulation under the New Mexico Oil and Gas Rules, specifically 19.15.36 NMAC, administered by the Oil Conservation Division (OCD). The Facility has been designed in compliance with 19.15.36 NMAC, and will be constructed and operated in compliance with a Surface Waste Management Facility Permit issued by the OCD. The Facility is owned by, and will be constructed and operated by, DNCS Properties, LLC.

1.1 Description

The DNCS site is comprised of a 562-acre ± tract of land located south of NM 529 in portions of Section 31, Township 17 South, Range 33 East; and in the northern half of Section 6, Township 18 South, Range 33 East, Lea County, NM. A portion of the 562-acre tract is a drainage feature that will be excluded from development. The drainage feature includes a 500-ft setback and totals 67 acres ±. The DNCS Facility will include two main components; a liquid oil field waste Processing Area (177 acres ±), and an oil field waste Landfill (318 acres ±); therefore the DNCS Facility comprises 495 acres ±. Oil field wastes are anticipated to be delivered to the DNCS Facility from oil and gas exploration and production operations in southeastern NM and west Texas. The Site Development Plan provided in the **Permit Plans, Sheet 3**, identifies the locations of the Processing Area and Landfill facilities.

2.0 LANDFILL VOLUMETRIC CALCULATIONS

Landfill volumetric calculations were completed for the DNCS Landfill corresponding to the design shown on the **Permit Plans** (**Volume III.1**). Landfill volumetric calculations include waste capacity analysis and the soil material balance. The capacity analysis for the DNCS Landfill is presented in **Table III.2.1**. The gross airspace computed for Units 1 - 9 is approximately 39,669,800 cubic yards (yd^3); with approximately 33,666,826 yd^3 (33,666,826 tons assuming a waste density of 2,000 lbs/yd^3) of net airspace (i.e., waste capacity). The projected longevity is approximately 93 years assuming 1,000 tons per day (tpd) incoming waste volume; and 37 years assuming 2,500 tpd incoming waste volume. A materials balance was also completed for the Landfill and is presented in **Table III.2.2**. DNCS has more than sufficient soils from on-site excavations for the protective soil layer, cover soils, and final cover for Units 1-9.

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 2: VOLUMETRICS CALCULATIONS

TABLE III.2.1
Capacity Analysis
DNCS Landfill

Description	Fill Area (± acres)	Gross Airspace (yd^3)	Cover[2] (yd^3)	Waste Capacity[3,4] Airspace (yd^3)	Longevity Estimate (years)[5,6] @ 500 tpd	Longevity Estimate (years)[5,6] @ 1,000 tpd	Longevity Estimate (years)[5,6] @ 2,500 tpd
Phase I							
Unit 1	13.5	2,291,580	346,770	1,944,810	10.7	5.3	2.1
Unit 2	19.8	3,360,984	508,596	2,852,388	15.6	7.8	3.1
Unit 3	22.2	3,768,376	570,244	3,198,132	17.5	8.8	3.5
Phase II							
Unit 4	23.8	4,039,971	611,343	3,428,628	18.8	9.4	3.8
Unit 5	25.4	4,311,566	652,441	3,659,124	20.0	10.0	4.0
Unit 6	27.3	4,634,084	701,246	3,932,838	21.5	10.8	4.3
Phase III							
Unit 7	29.4	4,990,553	755,188	4,235,364	23.2	11.6	4.6
Unit 8	30.7	5,211,223	788,581	4,422,642	24.2	12.1	4.8
Unit 9	41.6	7,061,462	1,068,565	5,992,897	32.8	16.4	6.6
Landfill Total	**233.7**	**39,669,800**	**6,002,974**	**33,666,826**	**184.5**	**92.2**	**36.9**

Notes:

1. The calculations presented in this table provide the proposed capacity and longevity for the site. Estimated waste rates include stabilized and solidified materials from the Processing Area, and are subject to change.

*2. yd^3 = cubic yards. Cover includes protective soil cover, daily, and intermediate cover; and final cover (collectively called total cover soil) [see **Table III.1.2**].*

*3. Waste capacity airspace = (gross airspace - cover soils); see **Table III.1.2** .*

4. In-place waste density: Oil Field Waste = 2,000 lbs/yd^3; [tons = ((waste capacity airspace (yd^3) x in-place waste density)/2,000 lbs/ton)]. 1 yd^3 = 1 ton.

5. Longevity = [waste capacity airspace (tons)/daily incoming waste rate (tons/day)] / (365 operating days/year).

6. Tons per day = tpd.

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 2: VOLUMETRICS CALCULATIONS

TABLE III.2.2
Materials Balance
DNCS Landfill

Description	Fill Area (± acres)	Protective Soil/Drainage Layer[1] (yd^3)	Cover Soil[2] (Daily & Intermediate (yd^3)	Final Cover[3] (yd^3)	Total Soil Cover Required[4] (yd^3)	Excavation Volume (yd^3)	Soil Balance (yd^3)	Soil Surplus (yd^3)
Landfill								
Drainage Excavation[5,6]	-	-	-	-	-	457,000	**457,000**	**457,000**
Phase I								
Unit 1	13.5	43,560	216,090	87,120	346,770	324,168	**-22,603**	**434,397**
Unit 2	19.8	63,888	316,932	127,776	508,596	475,446	**-33,150**	**401,247**
Unit 3	22.2	71,632	355,348	143,264	570,244	533,075	**-37,169**	**364,079**
Phase II								
Unit 4	23.8	76,795	380,959	153,589	611,343	571,495	**-39,847**	**324,231**
Unit 5	25.4	81,957	406,569	163,915	652,441	609,915	**-42,526**	**281,705**
Unit 6	27.3	88,088	436,982	176,176	701,246	655,539	**-45,707**	**235,998**
Phase III								
Unit 7	29.4	94,864	470,596	189,728	755,188	705,965	**-49,223**	**186,775**
Unit 8	30.7	99,059	491,405	198,117	788,581	737,181	**-51,400**	**135,375**
Unit 9	41.6	134,229	665,877	268,459	1,068,565	998,916	**-69,649**	**65,726**
Landfill Total	**233.7**	**754,072**	**3,740,758**	**1,508,144**	**6,002,974**	**6,068,700**	**65,726**	**65,726**

Notes:

1. Volume of protective soil layer assumes 2-foot depth over liner area.

2. Cover Soil for Landfill assumes approximately 10% of effective airspace (gross airspace - protective soil/drainage layer - final cover).

3. Volume of final cover conservatively assumes 4-foot depth over lined area (12 inch erosion layer, 12 inch protective layer, 12 inch drainage layer and 12 inch foundation layer).

4. Includes protective cover/drainage layer soil, cover soil, and final cover.

5. Drainage excavation volume includes drainageways and basins.

6. There is additional soil available from the Waste Processing Area.

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: LANDFILL ENGINEERING CALCULATIONS
SECTION 3: DRAINAGE CALCULATIONS

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3.0	METHODOLOGY	III.3-3
4.0	SURFACE WATER RUNOFF CALCULATIONS	III.3-3
5.0	STORMWATER BASIN DESIGN	III.3-14
6.0	TYPICAL CHANNEL DESIGN AND CAPACITY	III.3-15
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APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: LANDFILL ENGINEERING CALCULATIONS
SECTION 3: DRAINAGE CALCULATIONS

III.3.13 LOW WATER CROSSING DESIGN SUMMARY III.3-16
III.3.14 CULVERT DESIGN SUMMARY III.3-16

LIST OF ATTACHMENTS

Attachment No.	Title
III.3.A	PHILIPS, CHRISTOPER S.; EASTERLING, CHARLES M.; HEGGEN, RICHARD J.; AND SCHALL, JAMES D. 1995. *DRAINAGE MANUAL, VOLUME I: HYDROLOGY*. NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT.
III.3.B	U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE OFFICE OF HYDROLOGIC DEVELOPMENT HYDROMETEOROLOGICAL DESIGN STUDIES CENTER, JUNE 2006, NOAA ATLAS 14, VOLUME 1, VERSION 4 SEMIARID SOUTHWESTERN UNITED STATES, NEW MEXICO, ISOPLUVIALS OF 24 HOUR PRECIPITATION (INCHES) WITH AVERAGE RECURRENCE INTERVAL OF 25 YEARS.

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS LANDFILL

VOLUME III: LANDFILL ENGINEERING CALCULATIONS
SECTION 3: DRAINAGE CALCULATIONS

1.0 INTRODUCTION

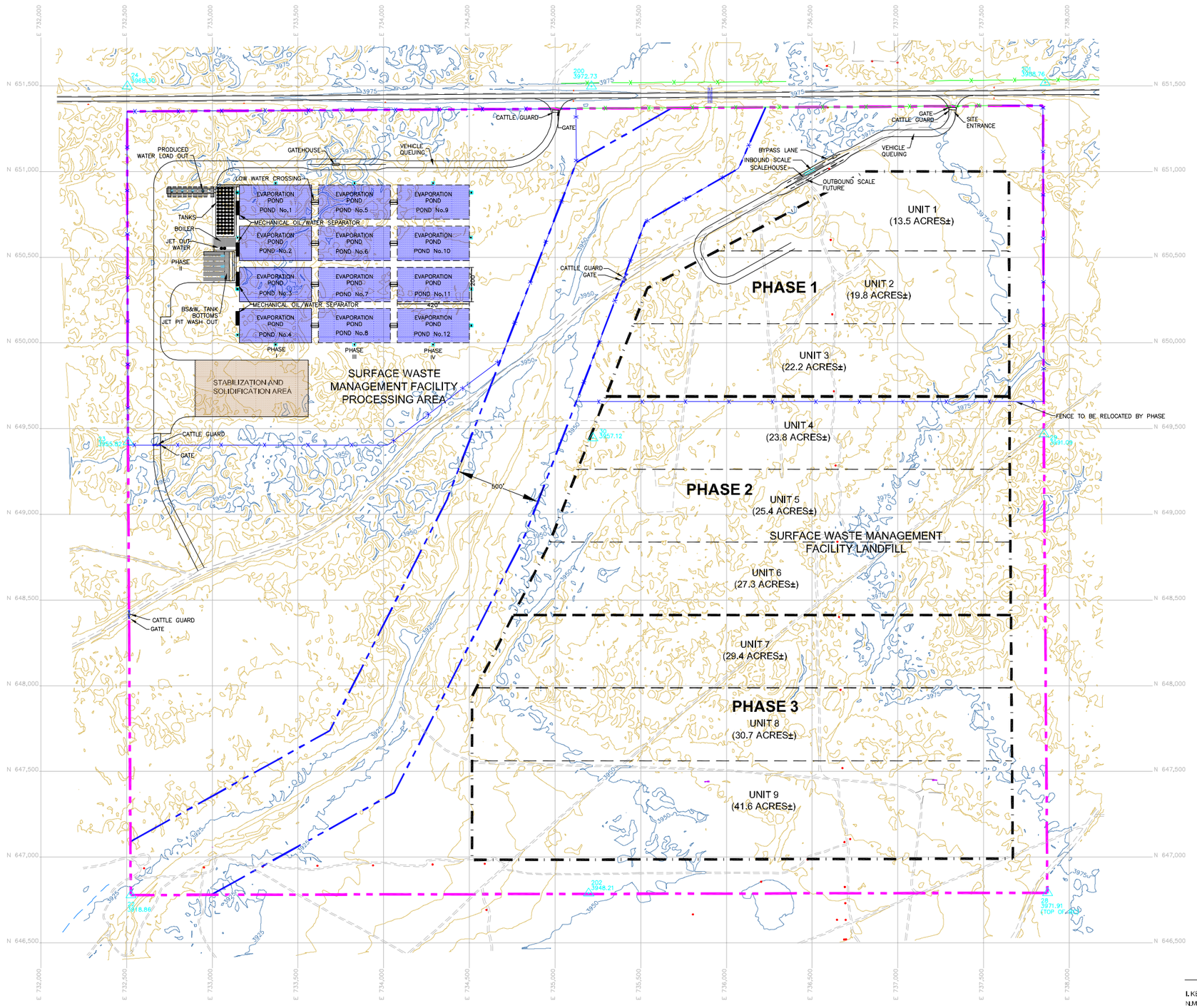
DNCS Environmental Solutions (DNCS Facility) is a proposed Surface Waste Management Facility for oil field waste processing and disposal services. The proposed DNCS Facility is subject to regulation under the New Mexico Oil and Gas Rules, specifically 19.15.36 NMAC, administered by the Oil Conservation Division (OCD). The Facility has been designed in compliance with 19.15.36 NMAC, and will be constructed and operated in compliance with a Surface Waste Management Facility Permit issued by the OCD. The Facility is owned by, and will be constructed and operated by, DNCS Properties, LLC.

1.1 Description

The DNCS site is comprised of a 562-acre ± tract of land located south of NM 529 in portions of Section 31, Township 17 South, Range 33 East; and in the northern half of Section 6, Township 18 South, Range 33 East, Lea County, NM. A portion of the 562-acre tract is a drainage feature that will be excluded from development. The drainage feature includes a 500-ft setback and totals 67 acres ±. The DNCS Facility will include two main components; a liquid oil field waste Processing Area (177 acres ±), and an oil field waste Landfill (318 acres ±); therefore the DNCS Facility comprises 495 acres ± (**Figure III.3.1**). Oil field wastes are anticipated to be delivered to the DNCS Facility from oil and gas exploration and production operations in southeastern NM and west Texas. The Site Development Plan provided in the **Permit Plans, Sheet 3**, identifies the locations of the Processing Area and Landfill facilities.

2.0 DESIGN CRITERIA

The stormwater management systems for the DNCS Facility are designed to meet the requirements of the regulatory standards identified in the New Mexico Oil Conservation Department Rules 19.15.36 NMAC. More specifically, closure standards in 19.15.36.13.M specifies:



LEGEND

- SITE BOUNDARY (562 ACRES±)
- DRAINAGE FEATURE SETBACK (67 ACRES±)
- LIMIT OF WASTE
- LANDFILL PHASE BOUNDARY
- LANDFILL UNIT BOUNDARY
- 25' EXISTING CONTOUR
- 5' EXISTING CONTOUR
- EXISTING FENCE
- PROPOSED FENCE
- PAVED ROAD AND SHOULDER (NM 529)
- EXISTING UNPAVED ROAD/TRAIL
- PROPOSED FACILITY ACCESS ROAD
- POWER POLE (TO BE RELOCATED IN ADVANCE OF CONSTRUCTION)
- EXISTING CULVERT
- CATTLE GUARD
- HYDROGEN SULFIDE MONITORING STATION
- ROAD SIGN
- ABANDONED WELL
- 201 3988.76 — SURVEY CONTROL POINT
- N 650,500 / E 738,000 — SITE GRID

SURVEY CONTROL POINT DATA

POINT	NORTHING	EASTING	ELEVATION
22	646780.31	732525.87	3918.86
23	649422.09	732509.41	3955.82
24	651498.31	732504.10	3968.30
28	646793.35	737874.03	3971.91
29	649469.84	737853.32	3991.09
30	649446.48	735220.56	3957.12
200	651498.13	735212.57	3972.73
201	651518.82	737859.97	3988.76
202	646789.93	735196.38	3948.21

NOTES:

1. BASE MAP PROVIDED BY DALLAS AERIAL SURVEYS, INC
2. FIELD SURVEY PROVIDED BY PETTIGREW & ASSOCIATES PA (12/13/2012)
3. DATE OF AERIAL PHOTOGRAPHY: 02-28-2013
4. SITE GRID BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAVD 88.
5. THE DNCS SURFACE WASTE MANAGEMENT FACILITY COMPRISES A TOTAL OF 495 ACRES ± (i.e., the processing area (177 acres ±) and the landfill (318 acres ±).

NORTH

0 300 600

I, KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

All reports, drawings, specifications, computer files, field data, notes and other documents and instruments prepared by the Engineer as instruments of service shall remain the property of the Engineer. The Engineer shall retain all common law, statutory and other reserved rights, including the copyright thereto.

SITE DEVELOPMENT PLAN

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

DATE: 10/17/2013	CAD: 03 SITE DEV.DWG	PROJECT #: 542.01.01
DRAWN BY: DMI	REVIEWED BY: MRH	FIGURE III.3.1
APPROVED BY: IKG	gel@gordonenvironmental.com	

NOT FOR CONSTRUCTION
Drawing:P:\acad 2003\542.01.01\PERMIT FIGURES\SITE DEV.dwg
Date/Time:Nov. 05, 2013-11:28:58; LAYOUT: D (LS)
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Each operator shall have a plan to control run-on water onto the site and run-off water from the site, such that:

(1) the run-on and run-off control system shall prevent flow onto the surface waste management facility's active portion during the peak discharge from a 25-year storm; and

(2) run-off from the surface waste management facility's active portion shall not be allowed to discharge a pollutant to the waters of the state or United States that violates state water quality standards.

19.15.36.18.D(2)(a) NMAC requires:

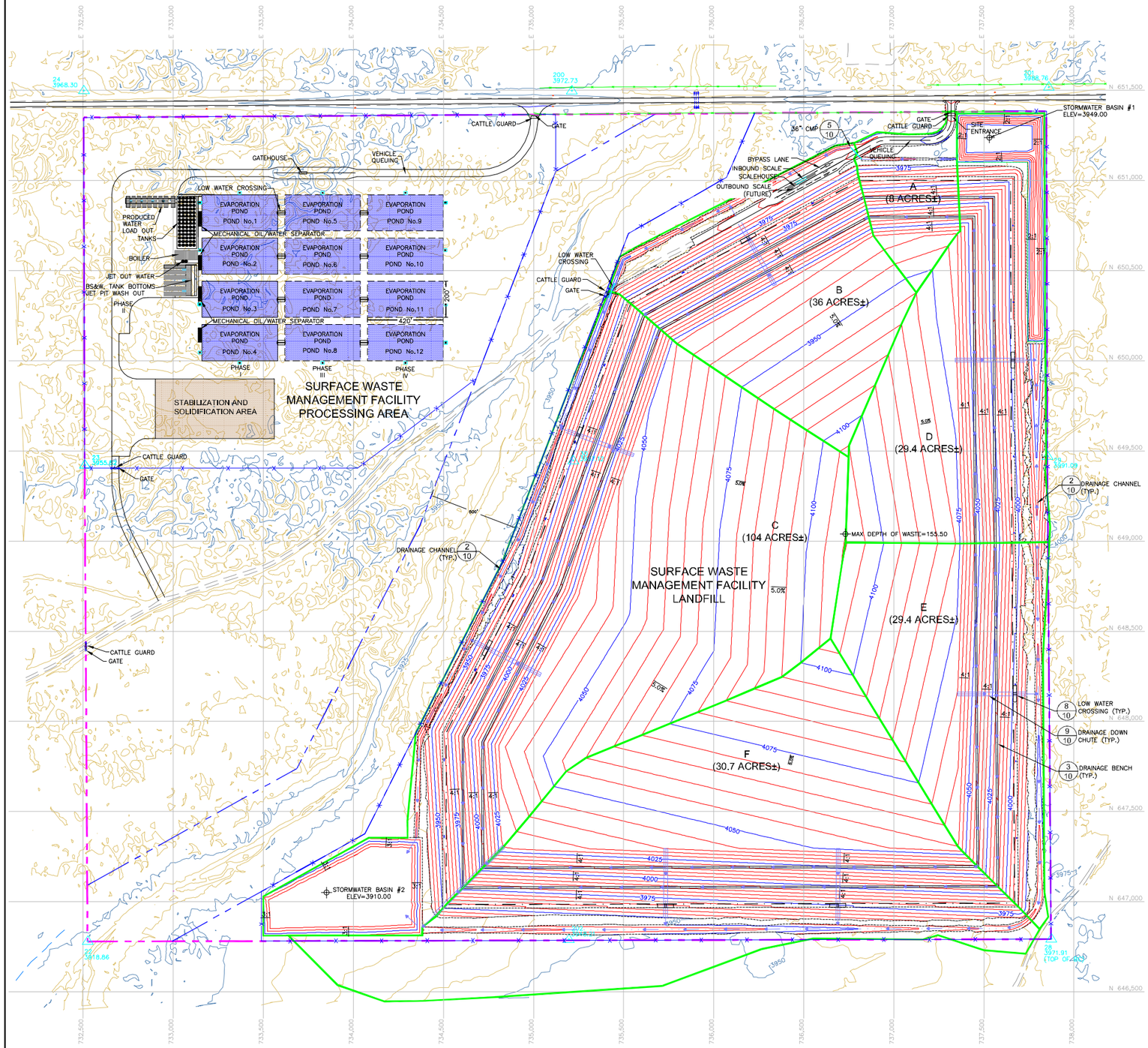
"…soil contoured to promote drainage of precipitation…" and "...prevent the ponding of water…"

3.0 METHODOLOGY

The methodology for the calculation of runoff stormwater flows is based on the New Mexico State Highway and Transportation Department (NMSHTD) Drainage Manual, Volume 1: Hydrology (Philips et al., 1995; **Attachment III.3.A**). The NMSHTD Drainage Manual specifies that the Simplified Peak Flow Method be used on drainage areas that are no larger than 5 square miles, and where land use is consistent throughout the watershed. This method was used to calculate runoff and volume from the landfill. The total enclosed drainage basin acreage for the project area is determined to be approximately 319 acres (**Figure III.3.2**).

4.0 SURFACE WATER RUNOFF CALCULATIONS

The Simplified Peak Flow method is used to determine run-off surface water flow from the landfill. The Simplified Peak Flow method estimates the peak rate of runoff and runoff volume from small to medium watersheds. This method was developed by the Soil Conservation Service (SCS) and revised by the SCS for use in New Mexico. Infiltration and other losses are estimated using the SCS Curve Number (CN) methodology. Input parameters are consistent with those used in the SCS Unit Hydrograph Method. The Simplified Peak Flow method is limited for use in New Mexico to single basins less than 5 square miles in area, and is to be used when the Time of Concentration (T_c) is expected not to exceed 8.0 hours; and where channels will be used to convey runoff. The Simplified Peak Flow method calculations used



LEGEND

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- WATER FEATURE SETBACK (67 ACRES±)
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- LANDFILL PHASE BOUNDARY
- LANDFILL UNIT BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- 25' EXISTING CONTOUR
- 5' EXISTING CONTOUR
- 25' DESIGN CONTOUR
- 5' DESIGN COUNTOUR
- TOP/TOE OF SLOPE
- PAVED ROAD AND SHOULDER (NM 529)
- EXISTING UNPAVED ROAD/TRAIL
- PROPOSED FACILITY ACCESS ROAD
- DIRECTION OF STORMWATER FLOW
- LEACHATE EXTRACTION RISER PIPES
- LEACHATE CLEANOUT RISER PIPES
- A (8 ACRES±) — DRAINAGE AREA
- 29 3991.09 — SURVEY CONTROL POINT
- EXISTING CULVERT
- NEW CULVERT
- HYDROGEN SULFIDE MONITORING STATION
- ROAD SIGN
- 8/10 — DETAIL NUMBER / SHEET NUMBER
- N 650,500 / E 736,000 — SITE GRID

NOTES:

1. BASE MAP PROVIDED BY DALLAS AERIAL SURVEYS, INC
2. FIELD SURVEY PROVIDED BY PETTIGREW & ASSOCIATES PA (12/13/2012)
3. DATE OF AERIAL PHOTOGRAPHY: 02-28-2013
4. SITE GRID BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAVD 88.
5. THE DNCS SURFACE WASTE MANAGEMENT FACILITY COMPRISES A TOTAL OF 495 ACRES ± (i.e., the processing area (177 acres ±) and the landfill (318 acres ±).

STORMWATER DISCHARGE			
DRAINAGE ID	DRAINAGE AREA (ACRES)	FLOW RATE (CFS)	VOLUME (ACRE-FT)
A	8	42	1.5
B	36	103	6.6
C	104	183	19.1
D	43	142	7.9
E	39	103	7.2
F	89	196	16.3

RETENTION BASIN CAPACITIES					
BASIN ID	CONTRIBUTING DRAINAGE AREAS	DISCHARGE VOLUME (ACRE-FT)	BASIN CAPACITY W/ 1 FT. FREEBOARD (ACRE-FT)	BASIN MAX. CAPACITY W/O 1 FT. FREEBOARD (ACRE-FT)	FACTOR OF SAFETY
1	D+NE RUN-ON	55.2	61.0	65.3	1.2
2	A+B+C+E+F+SE RUN-ON	58.1	61.5	68.6	1.2

NORTH

0 200' 400'

I, KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

All reports, drawings, specifications, computer files, field data, notes and other documents and instruments prepared by the Engineer as instruments of service shall remain the property of the Engineer. The Engineer shall retain all common law, statutory and other reserved rights, including the copyright thereto.

LANDFILL COMPLETION DRAINAGE PLAN

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

DATE: 10/21/2013	CAD: 07 COMPLETION PLAN.dwg	PROJECT #: 542.01.01
DRAWN BY: JMC	REVIEWED BY: MRH	FIGURE III.3.2
APPROVED BY: IKG	gek@gordonenvironmental.com	

NOT FOR CONSTRUCTION
Drawing:P:\acad 2003\542.01.01\PERMIT FIGURES\DRAINAGE PLAN.dwg
Date/Time:Nov. 05, 2013-11:24:47 ; LAYOUT: D (0.5)
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to determine stormwater runoff flows at DNCS site are presented in **Tables III.3.3 – III.3.10.** **Figure III.3.2** provides landfill runoff drainage areas for the finished landform (i.e. final contours):

- Obtain the 24-hour rainfall depth directly from Figure E-8 (see **Attachment III.3.B**); P_{24} = 4.5 inches.
- Estimate the drainage area, A, in acres:

TABLE III.3.1
Run-on Drainage Summary
DNCS Environmental Solutions

RUN-ON DRAINAGE AREAS			
SUB-BASIN ID	**AREA (ACRES)**	**PEAK DISCHARGE(CFS)**	**VOLUME (ACRE-FT)**
North East (NE)	315	170	47.3
South East (SE)	50	65	7.5

TABLE III.3.2
Runoff Summary
DNCS Environmental Solutions

RUNOFF DRAINAGE AREAS			
WATERSHED	**DRAINAGE AREA (ACRES)**	**PEAK DISCHARGE(CFS)**	**VOLUME (ACRE-FT)**
A	8	42	1.5
B	36	103	6.6
C	104	183	19.1
D	43	142	7.9
E	39	103	7.2
F	89	196	16.3

- Determine curve number "CN": From Table 3-1 "Runoff Curve Numbers for Arid and Semiarid Rangelands" in **Attachment III.3.A pg. 3-23**; for Desert shrub-mixture of grass, weeds, and low growing brush, with brush the minor element, Soil Group **B** (consisting of sandy soils, the predominate soils on-site) and 30-70% Vegetation Cover; Hydrologic Condition "fair"; **Run-on CN = 72**; for Desert shrub-major plants include saltbush, greasewood, creosotebush, blackbrush, bursage, palo verde, mesquite, and cactus, Soil Group **B** (consisting of sandy soils, the predominate soils on-site) and <30% Vegetation Cover; Hydrologic Condition "poor"; **Runoff CN = 77**.
- Determine drainage length, L_n, of the longest path runoff may travel within the drainage area. The slopes are averaged in this path to determine velocity of flow.

- Determine Flow Velocities, V, in foot per second (ft/s): From Figure 3-10 "Flow Velocities for Overland and Shallow Concentrated Flows" in **Attachment III.3.A pg. 3-33**; for Nearly Bare and Untilled (Overland Flow), Alluvial Fans in Western Mountain Regions (Shallow Concentrated Flow).
- Calculate the Time of Concentration, $\mathbf{T_c}$, in hours.

A. Upland method was used for areas where there were no defined gullies and the Kirpich Formula was used where a defined channel is used to convey stormwater (see **Attachment III.3.A pg. 3-31**).

B. The overland flow Time of Concentration is calculated using the equation $T_C = \left(\frac{L_1}{V_1} + \frac{L_2}{V_2} + \frac{L_3}{V_3} + ... \frac{L_n}{V_n}\right)\frac{1}{60}$, in minutes; EQ (3-17) (see **Attachment III.3.A pg. 3-30**).

C. The Kirpich Formula is calculated using the equation

$T_C = 0.0078 L^{0.77} S^{-0.385}$ **,** in minutes; EQ (3-18) (see **Attachment III.3.A pg. 3-34**).

TABLE III.3.3
Watershed "Northeast Run-on" Calculations

Watershed "Northeast Run-on": Discharge point at northeast side of Stormwater Basin 1 (25-year, 24-hour storm event; conservatively estimated at 4.5 inches, **Attachment III.3.B**).

1. Area (A)= 315 acres
2. Longest travel distance = 6348' (overland flow).
3. Average slope = 1.0 % (overland flow).
4. Velocity = 1.0 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
5. $T_{c1} = \left[\frac{L}{V}\right]\left(\frac{1}{60}\right) = \left[\frac{6348\,ft}{1.0\,ft/s}\right]\left(\frac{1}{60}\right)$ = 105.8 min (**Equation 3-17, Attachment III.3.A pg. 3-30;** overland flow).
6. T_c = 105.8 min =1.76 hrs ≈ 1.8 hrs.
7. Curve Number = 72 (**Table 3-1, Attachment III.3.A pg. 3-23**) for Desert shrub, Soil Group B (consisting of sandy soil, the predominate soils on-site).
8. Unit peak discharge (**Equation 3-22**, **Attachment III.3.A pg. 3-50**) $q_u = 0.543(T_c^{-0.812})10^{-\frac{(|\log(T_c)+0.3|-\log(T_c)-0.3)^{1.5}}{10}}$ = 0.3369 cfs/ac-in ≈ 0.3 cfs/ac-in.
9. Average Run-off Depth = $Qd = \frac{\left[4.5-(200/72)+2\right]^2}{4.5+(800/72)-8}$ = 1.82 inches ≈ 1.8 inches (**Equation 3-23**, **Attachment III.3.A pg. 3-50**).
10. Design Frequency Peak Flow (**Equation 3-24**, **Attachment III.3.A pg. 3-50**);

Q_p = (A)(Q_d)(q_u) = (315 acres)(1.8 in.)(0.3 cfs/ac-in.) = 170.1 cfs ≈ <u>170 cfs</u>.

11. Stormwater volume (**Equation 3-25**, **Attachment III.3.A pg. 3-50**)

$$Q_v = \frac{Qd \cdot A}{12} = \frac{(1.8in.)(315acres)}{12\frac{in.}{ft.}} =$$ 47.25 acre-ft ≈ <u>47.3 acre-ft</u>.

TABLE III.3.4
Watershed "Southeast Run-on" Calculations
DNCS Environmental Solutions

Watershed "Southeast Run-on": Discharge point at Southeast side of DNCS Facility (25-year, 24-hour storm event; conservatively estimated at 4.5 inches, **Attachment III.3.B**).

1. Area (A)= 50 acres
2. Longest travel distance = 2564' (overland flow).
3. Average slope = 1.0 % (overland flow).
4. Velocity = 1.0 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
5. $T_{c1} = \left[\frac{L}{V}\right]\left(\frac{1}{60}\right) = \left[\frac{2564\,ft}{1.0\,ft/s}\right]\left(\frac{1}{60}\right)$ = 42.73 min (**Equation 3-17, Attachment III.3.A pg. 3-30;** overland flow).
6. T_c = 42.73 min =0.712 hrs ≈ 0.7 hrs.
7. Curve Number = 72 (**Table 3-1, Attachment III.3.A pg. 3-23**) for Desert shrub, Soil Group B (consisting of sandy soil, the predominate soils on-site).
8. Unit peak discharge (**Equation 3-22**, **Attachment III.3.A pg. 3-50**)

$$q_u = 0.543(T_c^{-0.812})10^{-\frac{(|\log(T_c)+0.3|-\log(T_c)-0.3)^{1.5}}{10}}$$ = 0.717 cfs/ac-in ≈ 0.72 cfs/ac-in.

9. Average Run-off Depth = $Qd = \frac{[4.5-(200/72)+2]^2}{4.5+(800/72)-8}$ = 1.82 inches ≈ 1.8 inches (**Equation 3-23**, **Attachment III.3.A pg. 3-50**).
10. Design Frequency Peak Flow (**Equation 3-24**, **Attachment III.3.A pg. 3-50**);
    Q_p = (A)(Q_d)(q_u) = (50 acres)(1.8 in.)(0.72 cfs/ac-in.) = 64.8 cfs ≈ <u>65 cfs</u>.
11. Stormwater volume (**Equation 3-25**, **Attachment III.3.A pg. 3-50**)

$$Q_v = \frac{Qd \cdot A}{12} = \frac{(1.8in.)(50acres)}{12\frac{in.}{ft.}} =$$ 7.5 acre-ft ≈ <u>7.5 acre</u>

TABLE III.3.5
Watershed "A" Calculations
DNCS Environmental Solutions

Watershed "A": Discharge point at north side of landfill (25-year, 24-hour storm event; conservatively estimated at 4.5 inches, **Attachment III.3.B**).

1. Area (A)= 8.0 acres
2. Longest travel distance (L_1) = 343' (overland flow).
3. Average slope = 5.0 % (overland flow).
4. Velocity (V_1) = 2.2 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
5. Longest travel distance (L_2) = 418' (overland flow).
6. Average slope = 25 % (overland flow).
7. Velocity (V_2) = 5.0 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
8. $T_{c1} = \left[\frac{L}{V}\right]\left(\frac{1}{60}\right) = \left[\frac{343\,ft}{2.2\,ft/s} + \frac{418\,ft}{5.0\,ft/s}\right]\left(\frac{1}{60}\right) = 3.99$ min (**Equation 3-17, Attachment III.3.A pg. 3-30;** overland flow).
9. Longest travel distance (L_3) = 177' (channel flow).
10. Average slope (S) = 1.7 % (channel flow).
11. $T_{c2} = 0.0078(L)^{0.77}(S)^{-0.385} = 0.0078(177)^{0.77}(0.017)^{-0.385} = 2.015$ min $\approx$ 2.0 min (**Equation 3-18, Attachment III.3.A pg. 3-34;** channel flow).
12. $T_c = T_{c1}+T_{c2}$= 3.99 min+2.0 min= 5.99 min =0.0999 hrs $\approx$ 0.1 hrs.
13. Curve Number = 77 (**Table 3-1, Attachment III.3.A pg. 3-23**) for Desert shrub, Soil Group D (consisting of sandy soil, the predominate soils on-site).
14. Unit peak discharge (**Equation 3-22**, **Attachment III.3.A pg. 3-50**) $q_u = 0.543(T_c^{-0.812})10^{-\frac{(|\log(T_c)+0.3|-\log(T_c)-0.3)^{1.5}}{10}}$ = 2.405 cfs/ac-in $\approx$ 2.4 cfs/ac-in.
15. Average Run-off Depth = $Qd = \frac{[4.5-(200/77)+2]^2}{4.5+(800/77)-8}$ = 2.21 inches $\approx$ 2.2 inches (**Equation 3-23**, **Attachment III.3.A pg. 3-50**).
16. Design Frequency Peak Flow (**Equation 3-24**, **Attachment III.3.A pg. 3-50**); $Q_p = (A)(Q_d)(q_u)$ = (8.0 acres)(2.2 in.)(2.2 cfs/ac-in.) = 42.24 cfs $\approx$ <u>42.2 cfs</u>.
17. Stormwater volume (**Equation 3-25**, **Attachment III.3.A pg. 3-50**) $Q_v = \frac{Qd \cdot A}{12} = \frac{(2.2in.)(8.0acres)}{12\frac{in.}{ft.}} =$ 1.466 acre-ft $\approx$ <u>1.5 acre-ft</u>.

TABLE III.3.6
Watershed "B" Calculations
DNCS Environmental Solutions

Watershed "B": Discharge point at north side of landfill (25-year, 24-hour storm event; conservatively estimated at 4.5 inches, **Attachment III.3.B**).

1. Area (A)= 36 acres
2. Longest travel distance (L_1) = 1023' (overland flow).
3. Average slope = 5.0 % (overland flow).
4. Velocity (V_1) = 2.2 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
5. Longest travel distance (L_2) = 439' (overland flow).
6. Average slope = 25 % (overland flow).
7. Velocity (V_2) = 5.0 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
8. $T_{c1} = \left[\frac{L}{V}\right]\left(\frac{1}{60}\right) = \left[\frac{1023\,ft}{2.2\,ft/s} + \frac{439\,ft}{5.0\,ft/s}\right]\left(\frac{1}{60}\right) = 9.21$ min (**Equation 3-17, Attachment III.3.A pg. 3-30;** overland flow).
9. Longest travel distance (L_3) = 713' (channel flow).
10. Average slope (S) = 1.0 % (channel flow).
11. $T_{c2} = 0.0078(L)^{0.77}(S)^{-0.385} = 0.0078(713)^{0.77}(0.01)^{-0.385} = 7.23$ min ≈ 7.2 min (**Equation 3-18, Attachment III.3.A pg. 3-34;** channel flow).
12. $T_c = T_{c1} + T_{c2} = 9.21$ min+7.2 min= 16.41 min =0.270 hrs ≈ 0.3 hrs.
13. Curve Number = 77 (**Table 3-1, Attachment III.3.A pg. 3-23**) for Desert shrub, Soil Group D (consisting of sandy soil, the predominate soils on-site).
14. Unit peak discharge (**Equation 3-22**, **Attachment III.3.A pg. 3-50**) $q_u = 0.543(T_c^{-0.812})10^{-\frac{(|\log(T_c)+0.3|-\log(T_c)-0.3)^{1.5}}{10}}$ = 1.34 cfs/ac-in ≈ 1.3 cfs/ac-in.
15. Average Run-off Depth = $Qd = \frac{[4.5-(200/77)+2]^2}{4.5+(800/77)-8} = 2.21$ inches ≈ 2.2 inches (**Equation 3-23**, **Attachment III.3.A pg. 3-50**).
16. Design Frequency Peak Flow (**Equation 3-24**, **Attachment III.3.A pg. 3-50**); $Q_p = (A)(Q_d)(q_u) = (36\text{ acres})(2.2\text{ in.})(1.3\text{ cfs/ac-in.}) = 102.96$ cfs ≈ <u>103 cfs</u>.
17. Stormwater volume (**Equation 3-25**, **Attachment III.3.A pg. 3-50**) $Q_v = \frac{Qd \cdot A}{12} = \frac{(2.2in.)(36.0acres)}{12\frac{in.}{ft.}} =$ 6.60 acre-ft ≈ <u>6.6 acre-ft</u>.

TABLE III.3.7
Watershed "C" Calculations
DNCS Environmental Solutions

Watershed "C": Discharge point at north side of Stormwater Basin #2 (25-year, 24-hour storm event; conservatively estimated at 4.5 inches, **Attachment III.3.B**).

1. Area (A)= 104 acres
2. Longest travel distance (L_1) = 1154' (overland flow).
3. Average slope = 5.0 % (overland flow).
4. Velocity (V_1) = 2.2 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
5. Longest travel distance (L_2) = 425' (overland flow).
6. Average slope = 25 % (overland flow).
7. Velocity (V_2) = 5.0 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
8. $T_{c1} = \left[\frac{L}{V}\right]\left(\frac{1}{60}\right) = \left[\frac{1154\,ft}{2.2\,ft/s} + \frac{425\,ft}{5.0\,ft/s}\right]\left(\frac{1}{60}\right) = 10.16$ min (**Equation 3-17, Attachment III.3.A pg. 3-30;** overland flow).
9. Longest travel distance (L_3) = 2605' (channel flow).
10. Average slope (S) = 0.6 % (channel flow).
11. $T_{c2} = 0.0078(L)^{0.77}(S)^{-0.385} = 0.0078(2605)^{0.77}(0.006)^{-0.385} = 23.9$ min $\approx$ 23.9 min (**Equation 3-18, Attachment III.3.A pg. 3-34;** channel flow).
12. $T_c = T_{c1}+T_{c2}$= 10.16 min+23.9 min= 34.06 min =0.568 hrs $\approx$ 0.6 hrs.
13. Curve Number = 77 (**Table 3-1, Attachment III.3.A pg. 3-23**) for Desert shrub, Soil Group D (consisting of sandy soil, the predominate soils on-site).
14. Unit peak discharge (**Equation 3-22**, **Attachment III.3.A pg. 3-50**) $q_u = 0.543(T_c^{-0.812})10^{-\frac{(\left|\log(T_c)+0.3\right|-\log(T_c)-0.3)^{1.5}}{10}}$ = 0.822 cfs/ac-in $\approx$ 0.80 cfs/ac-in.
15. Average Run-off Depth = $Qd = \frac{\left[4.5-(200/77)+2\right]^2}{4.5+(800/77)-8}$ = 2.21 inches $\approx$ 2.2 inches (**Equation 3-23**, **Attachment III.3.A pg. 3-50**).
16. Design Frequency Peak Flow (**Equation 3-24**, **Attachment III.3.A pg. 3-50**); $Q_p = (A)(Q_d)(q_u)$ = (104 acres)(2.2 in.)(0.80 cfs/ac-in.) = 183.040 cfs $\approx$ <u>183 cfs</u>.
17. Stormwater volume (**Equation 3-25**, **Attachment III.3.A pg. 3-50**) $Q_v = \frac{Qd \cdot A}{12} = \frac{(2.2in.)(104acres)}{12\frac{in.}{ft.}} =$ 19.066 acre-ft $\approx$ <u>19.1 acre-ft</u>.

TABLE III.3.8
Watershed "D" Calculations
DNCS Environmental Solutions

Watershed "D": Discharge point at south side of Stormwater Basin #1 (25-year, 24-hour storm event; conservatively estimated at 4.5 inches, **Attachment III.3.B**).

1. Area (A)= 43 acres
2. Longest travel distance (L_1) = 640' (overland flow).
3. Average slope = 5.0 % (overland flow).
4. Velocity (V_1) = 2.2 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
5. Longest travel distance (L_2) = 432' (overland flow).
6. Average slope = 25 % (overland flow).
7. Velocity (V_2) = 5.0 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
8. $T_{c1} = \left[\frac{L}{V}\right]\left(\frac{1}{60}\right) = \left[\frac{640\,ft}{2.2\,ft/s} + \frac{432\,ft}{5.0\,ft/s}\right]\left(\frac{1}{60}\right)$ = 6.29 min (**Equation 3-17, Attachment III.3.A pg. 3-30;** overland flow).
9. Longest travel distance (L_3) = 993' (channel flow).
10. Average slope (S) = 1.2 % (channel flow).
11. $T_{c2} = 0.0078(L)^{0.77}(S)^{-0.385} = 0.0078(993)^{0.77}(0.012)^{-0.385}$ = 8.70 min ≈ 8.7 min (**Equation 3-18, Attachment III.3.A pg. 3-34;** channel flow).
12. $T_c = T_{c1} + T_{c2}$ = 6.29 min+8.7 min= 14.99 min =0.249 hrs ≈ 0.25 hrs.
13. Curve Number = 77 (**Table 3-1, Attachment III.3.A pg. 3-23**) for Desert shrub, Soil Group D (consisting of sandy soil, the predominate soils on-site).
14. Unit peak discharge (**Equation 3-22**, **Attachment III.3.A pg. 3-50**) $q_u = 0.543(T_c^{-0.812})10^{-\frac{(|\log(T_c)+0.3|-\log(T_c)-0.3)^{1.5}}{10}}$ = 1.50 cfs/ac-in ≈ 1.5 cfs/ac-in.
15. Average Run-off Depth = $Qd = \frac{[4.5-(200/77)+2]^2}{4.5+(800/77)-8}$ = 2.21 inches ≈ 2.2 inches (**Equation 3-23**, **Attachment III.3.A pg. 3-50**).
16. Design Frequency Peak Flow (**Equation 3-24**, **Attachment III.3.A pg. 3-50**); $Q_p = (A)(Q_d)(q_u)$ = (43 acres)(2.2 in.)(1.5 cfs/ac-in.) = 141.90 cfs ≈ <u>142 cfs</u>.
17. Stormwater volume (**Equation 3-25**, **Attachment III.3.A pg. 3-50**) $Q_v = \frac{Qd \cdot A}{12} = \frac{(2.2in.)(43acres)}{12\frac{in.}{ft.}}$ = 7.88 acre-ft ≈ <u>7.9 acre-ft</u>.

TABLE III.3.9
Watershed "E" Calculations
DNCS Environmental Solutions

Watershed "E": Discharge point at southwest side of landfill (25-year, 24-hour storm event; conservatively estimated at 4.5 inches, **Attachment III.3.B**).

1. Area (A)= 39 acres
2. Longest travel distance (L_1) = 640' (overland flow).
3. Average slope = 5.0 % (overland flow).
4. Velocity (V_1) = 2.2 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
5. Longest travel distance (L_2) = 436' (overland flow).
6. Average slope = 25 % (overland flow).
7. Velocity (V_2) = 5.0 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
8. $T_{c1} = \left[\frac{L}{V}\right]\left(\frac{1}{60}\right) = \left[\frac{640\,ft}{2.2\,ft/s} + \frac{436\,ft}{5.0\,ft/s}\right]\left(\frac{1}{60}\right)$ = 6.30 min (**Equation 3-17, Attachment III.3.A pg. 3-30;** overland flow).
9. Longest travel distance (L_3) =1931' (channel flow).
10. Average slope (S) = 1.0 % (channel flow).
11. T_{c2} = $0.0078(L)^{0.77}(S)^{-0.385}$ = $0.0078(1931)^{0.77}(0.010)^{-0.385}$ = 15.564 min ≈ 15.56 min (**Equation 3-18, Attachment III.3.A pg. 3-34;** channel flow).
12. $T_c = T_{c1}+T_{c2}$= 6.30 min+15.56 min= 21.86 min =0.364 hrs ≈ 0.36 hrs.
13. Curve Number = 77 (**Table 3-1, Attachment III.3.A pg. 3-23**) for Desert shrub, Soil Group D (consisting of sandy soil, the predominate soils on-site).
14. Unit peak discharge (**Equation 3-22**, **Attachment III.3.A pg. 3-50**) $q_u = 0.543(T_c^{-0.812})10^{-\frac{(|\log(T_c)+0.3|-\log(T_c)-0.3)^{1.5}}{10}}$ = 1.20 cfs/ac-in ≈ 1.2 cfs/ac-in.
15. Average Run-off Depth = $Qd = \frac{[4.5-(200/77)+2]^2}{4.5+(800/77)-8}$ = 2.21 inches ≈ 2.2 inches (**Equation 3-23**, **Attachment III.3.A pg. 3-50**).
16. Design Frequency Peak Flow (**Equation 3-24**, **Attachment III.3.A pg. 3-50**); $Q_p = (A)(Q_d)(q_u)$ = (39 acres)(2.2 in.)(1.2 cfs/ac-in.) = 102.96 cfs ≈ <u>103 cfs</u>.
17. Stormwater volume (**Equation 3-25**, **Attachment III.3.A pg. 3-50**) $Q_v = \frac{Qd \cdot A}{12} = \frac{(2.2in.)(39acres)}{12\frac{in.}{ft.}}$ = 7.15 acre-ft ≈ <u>7.2 acre-ft</u>.

TABLE III.3.10
Watershed "F" Calculations
DNCS Environmental Solutions

Watershed "F": Discharge point at east side of Stormwater Basin #2 (25-year, 24-hour storm event; conservatively estimated at 4.5 inches, **Attachment III.3.B**).

1. Area (A)= 89 acres
2. Longest travel distance (L_1) = 1196' (overland flow).
3. Average slope = 5.0 % (overland flow).
4. Velocity (V_1) = 2.2 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
5. Longest travel distance (L_2) = 449' (overland flow).
6. Average slope = 25 % (overland flow).
7. Velocity (V_2) = 5.0 ft/s (**Figure 3-10, Attachment III.3.A pg. 3-33**; overland flow).
8. $T_{c1} = \left[\frac{L}{V}\right]\left(\frac{1}{60}\right) = \left[\frac{1196\,ft}{2.2\,ft/s} + \frac{449\,ft}{5.0\,ft/s}\right]\left(\frac{1}{60}\right) = 10.56$ min (**Equation 3-17, Attachment III.3.A pg. 3-30;** overland flow).
9. Longest travel distance (L_3) = 1962' (channel flow).
10. Average slope (S) = 0.76 % (channel flow).
11. T_{c2} = 0.0078(L)$^{0.77}$(S)$^{-0.385}$ = 0.0078(1962)$^{0.77}$(0.0076)$^{-0.385}$ = 17.513 min ≈ 17.51 min (**Equation 3-18, Attachment III.3.A pg. 3-34;** channel flow).
12. $T_c = T_{c1} + T_{c2}$ = 10.56 min+17.51 min= 28.07 min =0.467 hrs ≈ 0.47 hrs.
13. Curve Number = 77 (**Table 3-1, Attachment III.3.A pg. 3-23**) for Desert shrub, Soil Group D (consisting of sandy soil, the predominate soils on-site).
14. Unit peak discharge (**Equation 3-22**, **Attachment III.3.A pg. 3-50**) $q_u = 0.543(T_c^{-0.812})10^{-\frac{(|\log(T_c)+0.3|-\log(T_c)-0.3)^{1.5}}{10}}$ = 0.999 cfs/ac-in ≈ 1.0 cfs/ac-in.
15. Average Run-off Depth = $Qd = \frac{[4.5-(200/77)+2]^2}{4.5+(800/77)-8}$ = 2.21 inches ≈ 2.2 inches (**Equation 3-23**, **Attachment III.3.A pg. 3-50**).
16. Design Frequency Peak Flow (**Equation 3-24**, **Attachment III.3.A pg. 3-50**); $Q_p = (A)(Q_d)(q_u)$ = (89 acres)(2.2 in.)(1.0 cfs/ac-in.) = 195.80 cfs ≈ <u>196 cfs</u>.
17. Stormwater volume (**Equation 3-25**, **Attachment III.3.A pg. 3-50**) $Q_v = \frac{Qd \cdot A}{12} = \frac{(2.2in.)(89acres)}{12\frac{in.}{ft.}} =$ 16.31 acre-ft ≈ <u>16.3 acre-ft</u>.

5.0 STORMWATER BASIN DESIGN

The stormwater retention basins are designed to store the design volume of runoff flow. To determine the volume required of the basin, the Simplified Peak Flow Method was used as identified in the NMSHTD Drainage Manual. The Simplified Peak Flow Method calculates volume in acre-ft, as summarized in **Table III.3.11.**

TABLE III.3.11
Stormwater Basin Design Summary
DNCS Environmental Solutions

RETENTION BASIN	CONTRIBUTING DRAINAGE AREAS	RUNOFF VOLUME (ACRE-FT)	BASIN CAPACITY W/ 1FT. FREEBOARD (ACRE-FT)	BASIN MAX. CAPACITY W/O 1FT. FREEBOARD (ACRE-FT)	FACTOR OF SAFETY W/O FREEBOARD
1	D+NE	55.2	61.0	65.3	1.2
2	A+B+C+E+F+SE	58.2	61.5	68.6	1.2

Based on the available volume in the Stormwater Basin #1 compared to the incoming flow, peak storage in the Stormwater Basin #1 is at elevation 3975 ft. At this elevation, available volume = 65.3 acre-ft, and the peak inflow from the 25-year, 24-hour storm event is 55.2 acre-ft; therefore, the basin size is more than sufficient to store the stormwater run-on and runoff as a result of the 25-year, 24-hour design storm event.

Based on the available volume in the Stormwater Basin #2 compared to the incoming flow, peak storage in the Stormwater Basin #2 is at elevation 3920 ft. At this elevation, available volume = 68.6 acre-ft, and the peak inflow from the 25-year, 24-hour storm event is 58.1 acre-ft; therefore, the basin size is more than sufficient to store the stormwater run-on and runoff as a result of the 25-year, 24-hour design storm event.

The Factor of Safety for each retention basin does not include freeboard designed into each basin. As such, considerable additional volume is available when the freeboard is considered.

6.0 TYPICAL CHANNEL DESIGN AND CAPACITY

The design frequency peak flow (Q_p) from the Simplified Peak Flow Method was used to size the landfill perimeter drainage channels. Drainage channels are sized to convey the volume of runoff, and sizing is based on Hydraflow Express Extension for AutoCAD Civil 3D. Hydraflow Express Extension software computes the velocity and depth based on the input values of flowrate, slope, and channel dimensions. Channel design parameters are summarized in **Table III.3.12**, which demonstrates that each of the channels has more than adequate carrying capacity; and a minimum freeboard of >1.0 ft.

TABLE III.3.12
Channel Design Summary
DNCS Environmental Solutions

CHANNEL	Q_{25} (CFS)	SLOPE (%)	VELOCITY (FT/S)	WATER DEPTH (FT)	FREEBOARD (FT)
North	43	1.7	6.22	1.00	4.0
East/South	299	1.7	10.71	2.69	2.31
West	344	0.6	7.56	3.68	1.32

Notes: 1. Q_{25} represents 25-year, 24-hour storm event flow.
2. Rip-rap or Equivalent erosion protection to be provided in all channels.

7.0 LOW WATER CROSSING

The design frequency peak flow (Q_p) from the Simplified Peak Flow Method was used to size the Low Water Crossings. Low Water Crossings are sized to convey the volume of runoff across roads, and sizing is based on Hydraflow Express Extension for AutoCAD Civil 3D. Hydraflow Express Extension software computes the velocity, depth based on the input values of flowrate, slope, and low water crossing dimensions. Low Water Crossing design parameters are summarized in **Table III.3.13**, which demonstrates that each of the channels has more than adequate carrying capacity with freeboard remaining.

TABLE III.3.13
Low Water Crossing Design Summary
DNCS Environmental Solutions

LOW WATER CROSSING	Q_{25} (CFS)	SLOPE (%)	VELOCITY (FT/S)	WATER DEPTH (FT)	FREEBOARD (FT)
N	38	2.0	3.92	0.49	0.51
NW	56	2.0	4.35	0.59	0.41
SW	56	2.0	4.35	0.59	0.41
NE	77	2.0	4.69	0.69	0.31
SE	56	2.0	4.35	0.59	0.41
SSW	54	2.0	4.31	0.58	0.42
SSE	54	2.0	4.31	0.58	0.42
SW CORNER	110	2.0	5.18	0.81	0.19
Perimeter Access Road	143	2.0	5.47	1.15	0.85

Note: 1. Q_{25} represents 25-year, 24-hour storm event flow.
2. Rip-rap or Equivalent erosion protection to be provided in all low water crossings.

8.0 CULVERT DESIGN

The stormwater collected from the east of the landfill in Retention Basin #1 and discharged to the north Stormwater Drainage Channel must be conveyed under the Landfill access road at two locations in order to flow to the west Stormwater Drainage Channel and Retention Basin #2. A single pipe system of corrugated metal pipes in the two locations will be required to convey stormwater under the landfill area access road. The Culvert drainage structure was designed using the Hydraflow Express Extension software for AutoCAD Civil 3D. Hydraflow Express Extension software computes the velocity and depth based on the input values of flow rate, slope, and culvert dimensions. **Table III.3.14** provides a summary of the culvert specifications under the landfill access road. Rip-rap should be provided upstream and downstream of each culvert for erosion control.

TABLE III.3.14
Culvert Design Summary
DNCS Environmental Solutions

CULVERT	FLOW REQUIRED (CFS)	LENGTH (FT)	SLOPE (%)	DIAMETER (IN)	NUMBER OF CULVERTS	TOTAL CAPACITY (CFS)	FACTOR OF SAFETY
1	42	87	1.7	36	1	53	1.3

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: LANDFILL ENGINEERING CALCULATIONS
SECTION 8: DRAINAGE CALCULATIONS

ATTACHMENT III.3.A

DRAINAGE MANUAL, VOLUME I: HYDROLOGY.

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT.

PHILIPS, CHRISTOPER S.; EASTERLING, CHARLES M.; HEGGEN, RICHARD J.; AND SCHALL, JAMES D. 1995.

Drainage Manual

Volume 1, Hydrology

December, 1995

New Mexico State Highway
and Transportation Department
Preliminary Design Bureau/Drainage Section
P. O. Box 1149
Santa Fe, New Mexico 87504-1149



FOREWORD

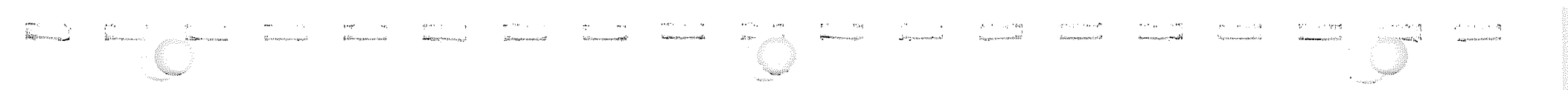
The New Mexico State Highway and Transportation Department Drainage Section is pleased to present a comprehensive update to its Drainage Manual. Volume 1 focuses on Hydrology and the prediction of flood flows at highway crossings. A companion document is presently under development which will address drainage structure hydraulics as well as sediment and erosion at highway structures. Together these documents will summarize and standardize methods by which drainage structures are designed for NMSHTD Projects. Comments regarding the content of this document are welcomed, and should be addressed to: Section Head, Drainage Section, NMSHTD, P.O. Box 1149, Santa Fe, NM 87504-1149.



7-18-96

Pete K. Rahn, Secretary
New Mexico State Highway and Transportation Department

Date



NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

DRAINAGE MANUAL

VOLUME 1, HYDROLOGY

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DECEMBER 1995

NMSHTD DRAINAGE MANUAL

VOLUME 1, HYDROLOGY

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1 INTRODUCTION

1.1 DRAINAGE MANUAL PURPOSE AND USE

The New Mexico State Highway and Transportation Department (NMSHTD) is responsible for the maintenance and construction of a vast network of roads throughout the State of New Mexico. Public safety and prudent investment of public funds in our road network requires that each facility be reasonably protected from a damaging flood. Standard methods of analysis and design have evolved over the past fifty years. Certain methods commonly used by the NMSHTD Drainage Section have proven their validity for use in New Mexico. This Manual summarizes those common methods which have a proven record for use in this state.

The standard methods of Hydrologic analysis presented in this Drainage Manual should be used for all NMSHTD projects. Use of these standard methods will ensure consistency of analysis and design methods to the greatest extent possible. A brief description of each analysis method is included in this Drainage Manual, followed by a step by step procedure to apply the method. Example problems are included to assist the drainage designer. Limitations on the use of each analysis method are also included. This Drainage Manual does not include descriptions of the development or derivation of analysis methods. References are provided for the reader who wishes to review the source documents for each method.

This Drainage Manual specifies which hydrologic analysis method may be used for a particular drainage structure, based on drainage area size and location. By limiting the choice of hydrologic analysis method, a consistent and appropriate level of analysis is assured for every drainage structure, large and small. Despite these efforts to standardize methods, proper drainage analysis and design is not complete without the inclusion of competent engineering judgement. Drainage designers working on NMSHTD projects are expected to apply engineering judgement throughout the design development process. "Does this make sense? Will it work? What are the consequences of a failure? What is the risk associated with keeping the present structure?" These are the kinds of questions which complete the drainage design process once the analytic methods described in this Manual have been performed.

1.2 DRAINAGE DESIGN CRITERIA GUIDELINES

Drainage structures within the NMSHTD facilities network must be designed to meet certain minimum standards. Design frequency flood events are selected for each element of the highway drainage system. The magnitude of the design event is consistent with the highway classification, average daily traffic, user safety, risk, and consideration of economic impacts. Each drainage structure is designed to safely pass the appropriate design frequency flood without compromising the entire traveled way. The "appropriate" flood magnitude is a matter of public policy, balancing limited economic resources with the need to provide benefits to the greatest number of facility users. **The NMSHTD Policy on Drainage Design Criteria may be found in a separate document of the same title. As a separate document from**

this Drainage Manual, it may periodically be revised to accommodate changes in public policy. Users of the NMSHTD Drainage Manual should obtain a current copy of the NMSHTD Policy on Drainage Design Criteria, so that drainage structures are designed for the appropriate flood magnitudes.

1.3 *Use of Metric Standards in the Design of NMSHTD Projects*

The NMSHTD endorses the use of metric or International System of Units (SI) for the analysis and design of NMSHTD projects. All of the drainage design procedures identified in this Drainage Manual were developed in the context of US Standard units of measurement. For this reason the discussion of different methods is provided using US Standard units where required. However, all hydrologic equations are provided in both SI and US Standard formats.

The Drainage Section of the NMSHTD has developed this edition of their Drainage Manual in recognition of the transition period which will occur in the near future. Designers will be increasingly required to perform hydrologic and hydraulic calculations in SI units. Under current guidelines, all projects must be analyzed and designed in SI units by the end of September, 1996. Many designers have developed personal rules of thumb and error checking procedures which are in US Standard units (CFS per acre, ft. per second, etc.). These important design procedures must be carried on in SI units, not abandoned. By providing a Drainage Manual which promotes the use of SI without discarding US Standard, the NMSHTD Drainage Section hopes to promote an orderly transition to SI.

In this transition period, all drainage engineers and designers working on NMSHTD projects are strongly encouraged to use SI units whenever possible in their analyses. Additional SI design aides will be disseminated by the Drainage Section as they become available. We welcome your suggestions for promoting a smooth transition to SI based design. Please send your written comments to: Chief, Drainage Section, NMSHTD, P. O. Box 1149, Santa Fe, NM 87504–1149.

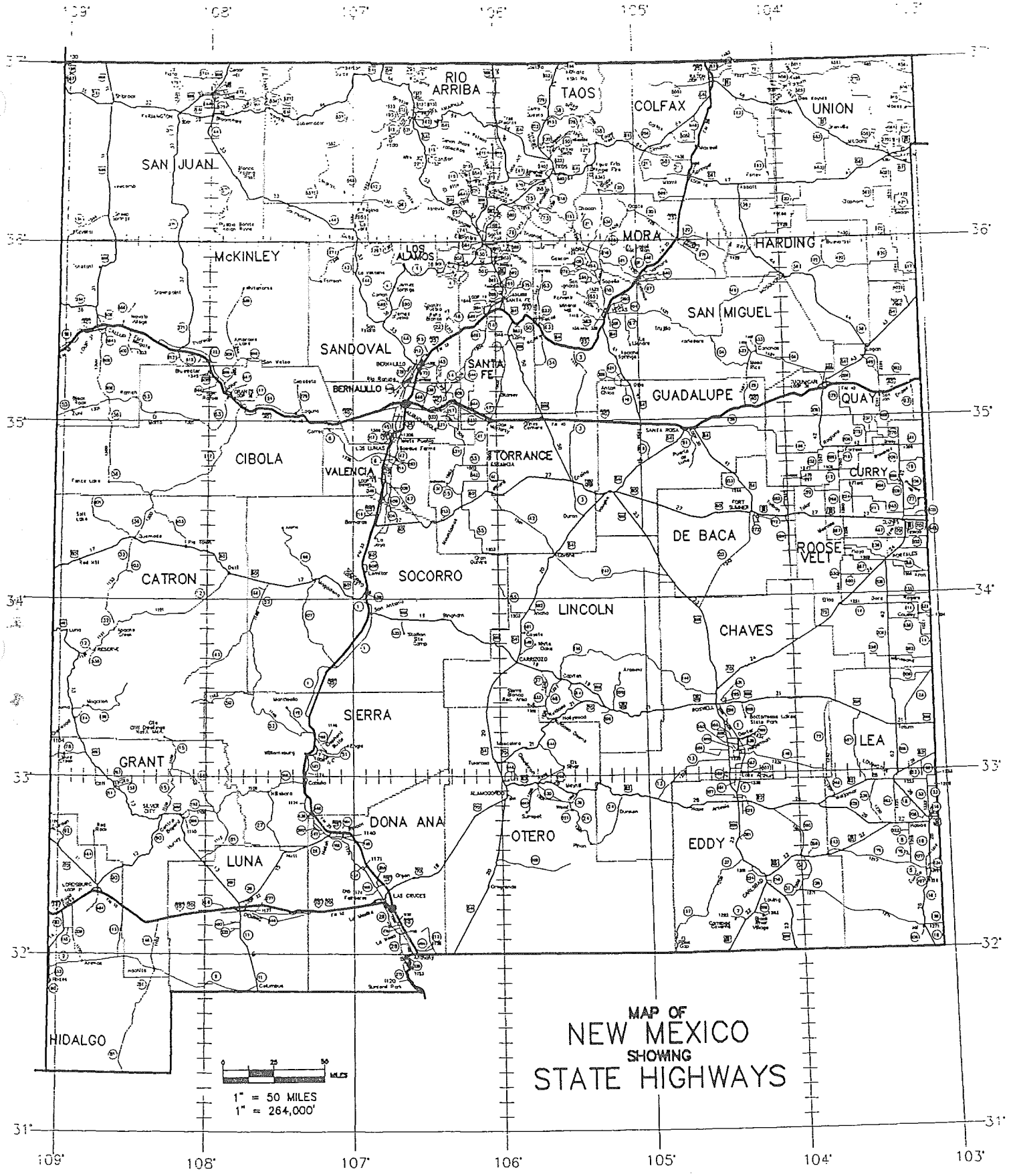
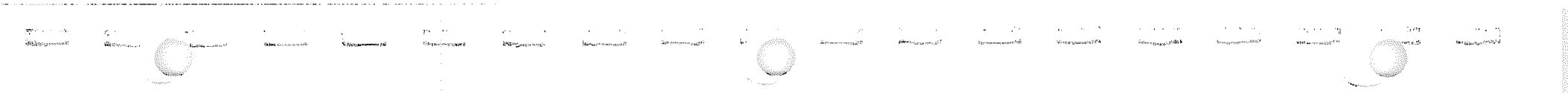


Figure 1-1
NMSHTD Facilities Map



2 *BASIC REQUIREMENTS FOR DRAINAGE STUDIES*

Drainage studies for NMSHTD projects must identify the hydrologic demands and hydraulic requirements of each drainage structure within the project limits. Each study will result in one or more drainage reports, summarizing the drainage improvements associated with the project. The drainage engineer's responsibility usually does not end with the drainage report. Staff engineers within the NMSHTD Drainage Section who prepare drainage reports will usually be responsible for drainage related permits (EPA, COE, FEMA), for development of a Sediment and Erosion Control Plan, and ongoing coordination with other NMSHTD Sections. Similar responsibilities may be required of consultants under contract with the NMSHTD. No matter what the total scope of services include, a drainage study and associated report(s) will be required. This section of the NMSHTD Drainage Manual describes the basic requirements of a drainage study for a NMSHTD project.

Most NMSHTD Projects include a standard set of project development milestones. These standard milestones are shown below. Drainage study elements are shown in bold text, identifying their location in the project development schedule. Specific requirements for these drainage study elements are described in the following sections.

Typical Project Schedule

- Preliminary Scoping Report
- Preliminary Field Review
  - **Drainage Field Inspection***
  - **Preliminary Drainage Report**
- Field Design Inspection
  - **Final Drainage Report**
- Grade and Drain Inspection
  - **Temporary Erosion and Sediment Control Plans**
- Plan in Hand
- Plans, Specifications & Estimate

*The drainage field inspection is sometimes combined with the Preliminary Field Review.

2.1 *DRAINAGE FIELD INSPECTION*

Field inspection of the project from a drainage perspective is a critical element of the drainage study process. A thorough inspection will often reveal design considerations which cannot be deduced from the topographic mapping. *The drainage field inspection should be performed in the preliminary drainage report phase of the project, after basic data collection and after the preliminary hydrologic analysis has been performed.* In this sequence, the field inspection can be used to verify design assumptions, locate existing structures and sizes, and evaluate the potential impacts of proposed drainage improvements. This is an opportunity for the drainage designer to field verify his or her preliminary design.

The basic elements of the drainage field inspection are listed below, with suggestions on things to look for and quantify in the field. The designer will probably develop a list of questions during the preliminary hydrologic analysis which need field verification. **Figure 2–1** is a field inspection form for drainage structures. This form should be copied and completed in the field for all existing drainage structures. Be sure to allow adequate time for the drainage field inspection, particularly if field surveys of structure inlet – outlet conveyances are planned.

Field Inspection Suggestions

Watershed Conditions

- verify assumptions used in hydrologic analysis, including:
  - soil types, Hydrologic Soil Group (HSG)
  - land usage
  - vegetation and ground cover density
  - percent impervious
- evidence of flow diversions, stock ponds, etc. not accounted for in analysis

Existing Structures

- measure actual structure sizes, wall thickness, etc.
- identify actual locations: use mileposts, stations from as–built plans, distance meters, etc.
- structural condition: look for rust, spalling, cracks, deformed cross section
- structure subsidence: is the vertical alignment okay?
- evidence of outlet erosion and/or inlet sedimentation
- upstream high water marks: (when estimating the magnitude of flow events, an
  - approximate discharge can be calculated using the Slope – Area method)
- evidence of debris accumulation
- channel geometry upstream and downstream
- effectiveness of structure skew, inlet/outlet geometry
- does the existing structure appear capable of passing the design flow?
  - if not, what will happen? roadway overtopping? backwater onto adjacent properties?

Onsite Drainage Facilities (within the Right–of–Way) – evaluate how they are functioning

- roadside ditches: vegetation, ditch erosion, cut slopes erosion
- median swales working
- rundowns still working properly
- area inlets and catch basins working
- curbs, gutters diverting flows to desired locations
- is the pavement section being drained adequately?
- erosion of an embankment by pavement runoff

Interview NMSHTD Patrol Foreman

- identify inadequate drainage facility locations
- describe location and magnitude of major flow events
- discuss maintenance procedures including
  - standard practices
  - specific problem spots
  - frequency and timing of maintenance work
- list improvements suggested by Patrol Foreman

Interview Other Individuals as Required – State Police, local property owners, etc.

- be sure to get names, and date of interview

Evaluate Proposed Drainage Improvements

- does the proposed structure seem reasonable?
- does the upstream conveyance reflect the design flow?
- will a backwater condition adversely impact adjoining landowners?
- can the inlet condition be improved with trainer dikes?
- consider the proposed road section and profile for impacts to
  - structure extensions and resulting inlet/outlet locations
  - special designs for high fills or minimal cover conditions
- how will future maintenance operations be affected?
- would a different type of structure improve passage of sediment or debris?
- are debris control measures required?
- are additional drainage improvements needed?
- effectiveness of proposed skew angle

Evaluate Effectiveness of Maintenance Work

- is the pavement surface able to drain effectively?
- does water pond next to the pavement?
- are structure inlets obstructed with debris?
- do grading operations increase ditch or shoulder erosion?

Individual designers will undoubtedly come up with other questions to be answered in the drainage field inspection. However, these suggestions provide a basic list of items which should be evaluated in the field on each NMSHTD project.

Drainage Structure
Field Inspection Form

Verify Watershed Conditions

Land Use _____
Vegetation Type _____
Verify – Effective Drainage Area _____
Stock Ponds or Detention Facilities _____
Hydraulic Improvements _____
Percent Cover _____
Upstream Diversions _____
Percent Impervious _____
Other Comments _____

Structure Type

Size or Span _____
Clear Height _____
# of Piers or Barrells _____
Invert to Pavement Height _____
Structure Skew _____ Structure Slope _____ Pier Type _____
Evidence of, Bridge Scour _____ Bed Lowering _____ Bed Material _____
General Condition of Structure _____
Erosion _____ Spalling _____ Cracking _____ Barrell Deformation _____
Other Comments: _____

Structure Inlet Conditions

Wingwalls _____ Headwalls _____ Training Dikes _____ Height _____
Upstream Channel _____ Bottom Width _____ Sideslopes _____ Longitudinal Slope _____
Evidence of, Debris _____ Sediment Deposition _____ Bank Caving _____ Headcutting _____
Evidence of, Ponding _____ Highwater Marks _____ Maintenance _____
Channel Bed Material _____ Channel Capacity Similar to Structure Capacity _____

Structure Outlet Conditions

Wingwalls _____ Headwalls _____ Training Dikes _____ Height _____
Outlet Apron _____ Length _____ Erosion Control Measures _____ Length _____
Evidence of, Erosion at Outlet _____ Downstream Channel Instability _____

General Conditions

Calculated Peak Design Flow _____ Is This Reasonable? _____
Evidence of Flood Damage to Adjacent Properties _____
Evidence of Stream Instability Effecting Adjacent Properties _____
Irrigation Facilities Affected _____
Environmental Hazards Present _____
Photos Taken of: _____
Survey Required: _____
Items to Research Back at the Office: _____
Other Comments: _____

Project Location: _____
CN#: _____
Date: _____
Inspected by: _____
Structure Location: _____
Project Station: _____

Figure 2-1
Drainage
Structure
Field Inspection
Form

2.2 *PRELIMINARY DRAINAGE REPORT*

The preliminary drainage report should summarize the results of the preliminary drainage analysis. Structure Size recommendations will be reviewed by the NMSHTD Drainage Section, and will be used for field design plans by the Highway Design Section. Basic elements which should be included in the preliminary drainage report are listed below.

- Project Name, locaton, Project Control Number, etc.
- Drainage area topographic map with structure locations identified
- Identify soil types, vegetation and land use distribution
- Curve Number or Rational Formula "C" calculations
- Time of Concentration calculations
- Summarize the drainage field inspection results, including patrol foreman interview
- Drainage Structure Field Inspection forms
- Summary Table of existing and recommended drainage structure sizes and types
- Identify data sources used in the analysis

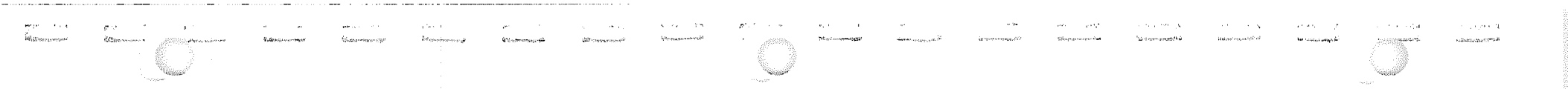
The preliminary drainage report should not include detailed print outs from hydrologic or hydraulic analyses. However, data generated in the analysis process should be kept on file and made available to the NMSHTD Drainage Section when requested.

2.3 *FINAL DRAINAGE REPORT*

The Final Drainage Report is basically a refinement of the Preliminary Drainage report. The Final Drainage Report is not begun until receipt of the preliminary design from the Highway Design Section. The preliminary highway design data must include: preliminary plan and profile sheets, with preliminary grade, typical roadway sections, toe of slope lines, and drainage structure survey data. Modifications to the preliminary hydrologic analysis are completed as required, and final structure sizes are established. A detailed hydraulic analysis (backwater profiles, flow velocities, etc.) is required for bridge structures and for some large culvert locations. Permanent erosion protection design is completed, including riprap design, drainage structure outlet design and analysis of scour depths at critical locations. For watersheds producing high sediment loads, an estimate of upstream sediment transport and sediment continuity at the highway crossing structure may be required.

2.4 *TEMPORARY EROSION AND SEDIMENT CONTROL PLAN*

Design of temporary erosion and sediment control measures is not included in the preliminary or final drainage report. The drainage designer should refer to the document "National Pollutant Discharge Elimination System Implementation Package," prepared by the NMSHTD. Contact the NMSHTD Drainage Section in Santa Fe for further information.



3 HYDROLOGY

3.1 NMSHTD APPROACH TO HYDROLOGIC ANALYSIS

The New Mexico State Highway and Transportation Department must provide transportation facilities which are reasonably safe for the public. A safe roadway environment includes properly designed drainage structures. The NMSHTD must design drainage structures to meet minimum design standards, and must do so within certain budgetary constraints. Current minimum design standards for drainage facilities can be found in the document "**Drainage Design Criteria for NMSHTD Projects.**" This document is available from the NMSHTD Drainage Section, in Santa Fe.

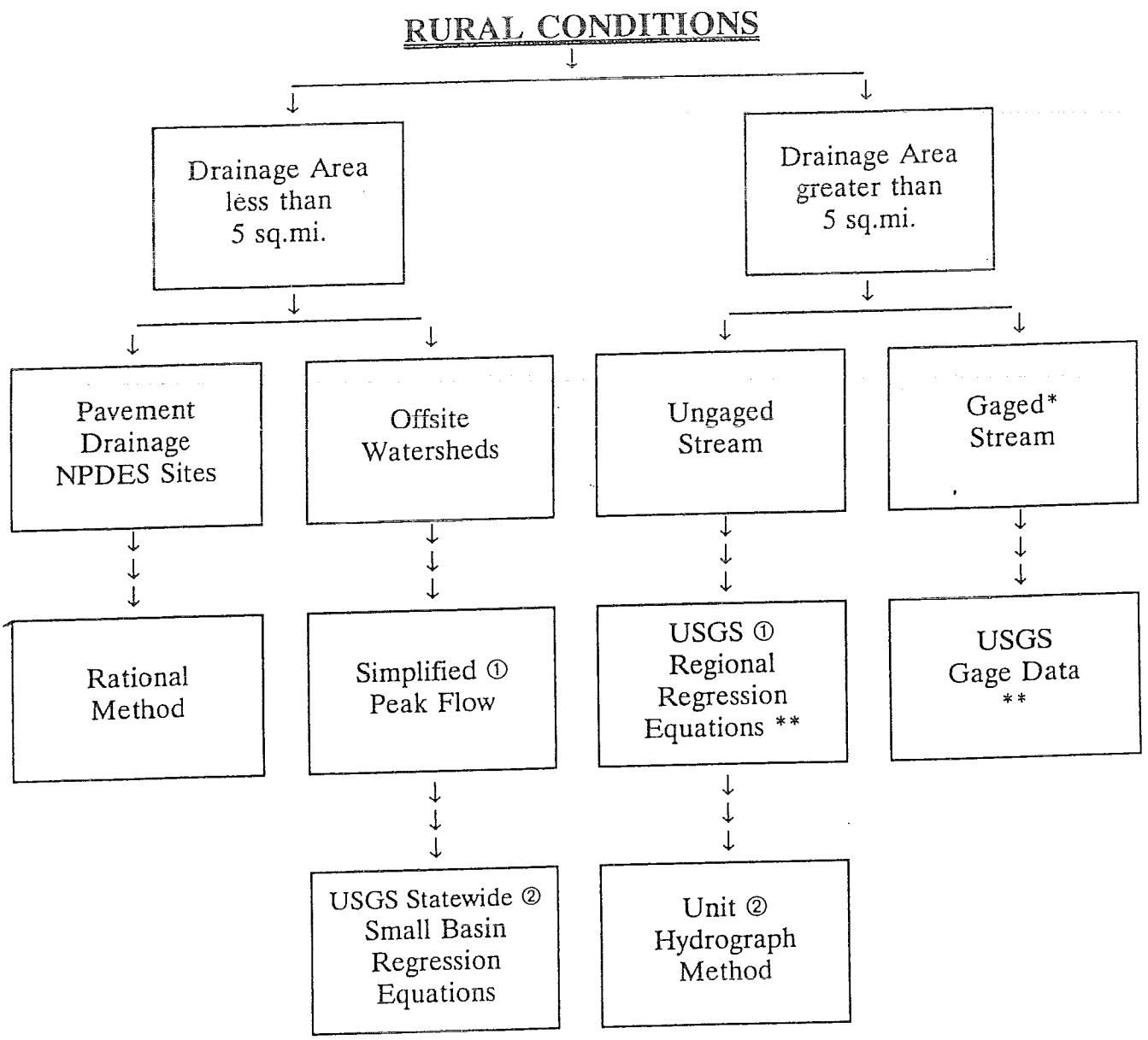
The NMSHTD also recognizes that the effort associated with the design and analysis of drainage structures must be commensurate with the importance of the transportation facility. Small culverts on low volume roads in remote areas normally do not require an exhaustive analysis. For this reason, the NMSHTD has established a hierarchy of drainage analysis methods to ensure that appropriate design methods are used.

It is the goal of the NMSHTD Drainage Section to standardize the hydrologic analysis methods used on NMSHTD projects, requiring the use of standard methods which have a demonstrated performance record in this state. Many hydrologic analysis methods have been used in New Mexico with widely varying results. Some of these methods do not work well in this state, or perhaps are valid only for a particular region of New Mexico. Furthermore, within each hydrologic analysis method there is some range of judgement or interpretation. By standardizing hydrologic analysis methods, a significant amount of confusion and debate will be removed from drainage analyses performed on NMSHTD projects. Guidelines for the use of NMSHTD approved hydrologic analysis methods are provided in this manual, along with visual aides to promote consistency in the selection of curve numbers.

3.2 SELECTION OF A HYDROLOGIC METHOD

The NMSHTD Drainage Section has established certain hydrologic analysis methods to be used on NMSHTD projects. Methods are selected based on drainage area size, and whether or not the highway facility is located in an Urban or Rural area. In general, NMSHTD personnel and consultants to the NMSHTD are required to use the hydrologic methods specified below. The NMSHTD Drainage Section may allow other hydrologic analysis methods to be used, depending on project specific circumstances. **Contact the Drainage Section and obtain approval before using a method other than those specified below.**

Figures 3–1 and **3–2** are used to select the appropriate hydrologic method for a particular drainage structure. When two or three methods are applicable, the order of preference is shown by a small symbol, ①. In areas where a local government agency has a drainage policy which mandates a specific hydrologic analysis method, that hydrologic analysis method shall be used on NMSHTD projects. For example, the AHYMO model using the COMPUTE NMHYD routine is approved for use in Albuquerque, but not in Roswell. When a particular drainage basin is borderline between two size categories, the more detailed analysis method shall be used. At the discretion of the designer, the Unit Hydrograph Method can be substituted for the Simplified Peak Flow method.



* Only gage data from USGS gages will be allowed for use on NMSHTD Projects.
** The NMSHTD may require designers to provide a supplementary Unit Hydrograph calculation for comparison purposes.

Figure 3-1
Methodology Selection
Flow Chart
Rural Conditions

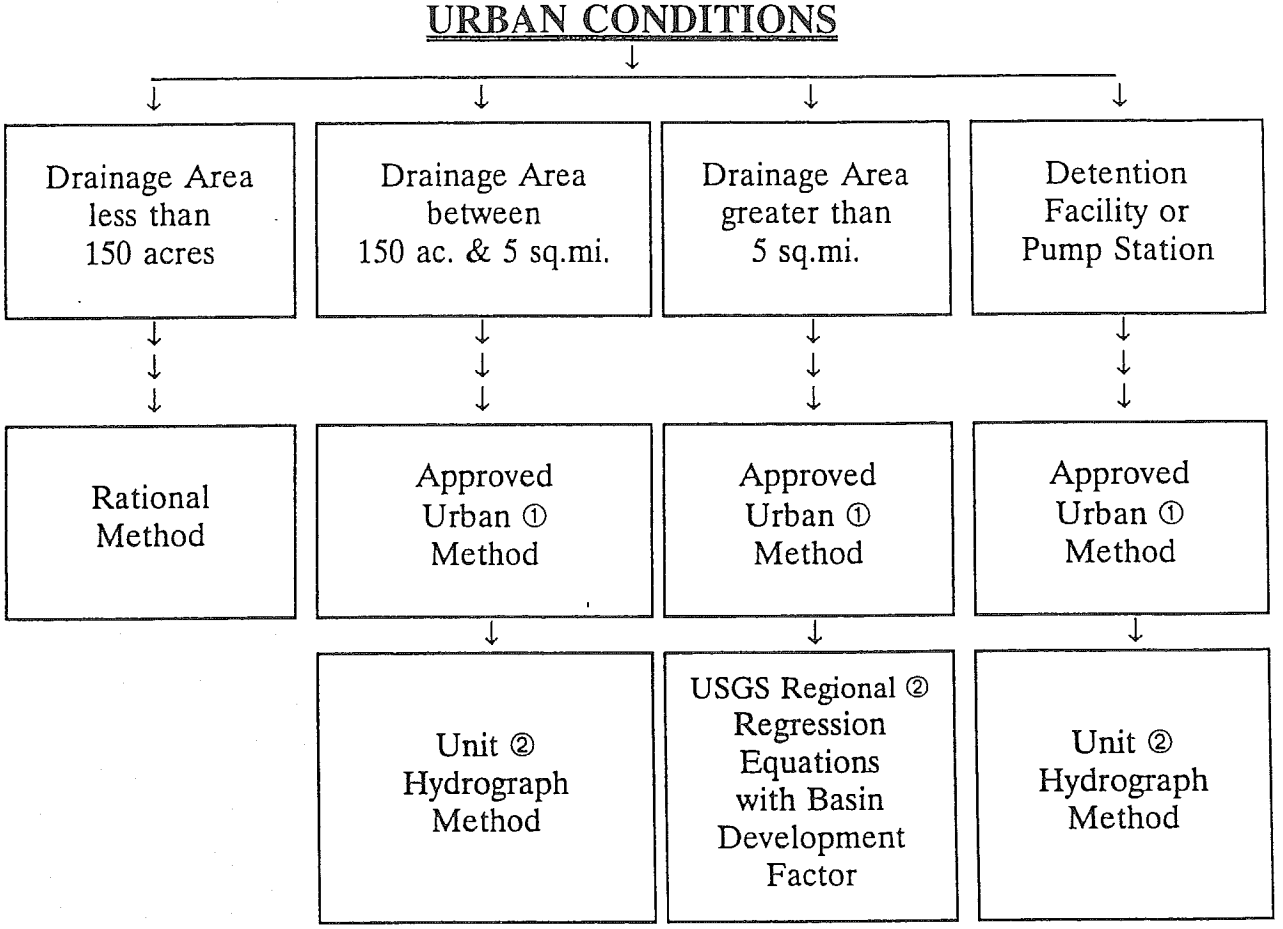


Figure 3-2
Methodology Selection
Flow Chart
Urban Conditions

3.3 *Drainage Basins Without Gage Data*

The vast majority of drainage structures on New Mexico highways pass flows from watersheds for which there is no measured data on rainfall or runoff. Peak rates of runoff and runoff volumes must therefore be estimated using analytical or parametric (regression) methods. Designers using this manual need not be proficient in statistical analysis procedures. The regression methods specified herein have been developed by the United States Geological Survey (USGS) and can be quickly applied. The analytic methods adopted for use by the NMSHTD are commonly accepted methods which have been used successfully in New Mexico. The Rational Formula is used for very small watersheds. SCS methods including the Unit Hydrograph procedure and the Peak Rate of Discharge for Small Watersheds are used for larger watersheds. In urban areas where established drainage policy dictates a particular hydrologic analysis method, analysis of drainage structures within that jurisdiction will follow the local established method.

Use of specific rain gage data will generally not be allowed on NMSHTD projects. Instead, rainfall data from the National Oceanic and Atmospheric Administration (NOAA) Precipitation – Frequency Atlas (Miller et al, 1973) will be used*. The purpose of this exclusion is to promote the use of regionally adjusted rainfall data, in lieu of reliance on data from a single location. Regional regression analysis techniques were used by NOAA to smooth the delineation of equal precipitation areas, removing some of the uncertainty associated with a single gage location. Use of regionalized rainfall data is particularly important in New Mexico where rainfall can vary dramatically from one location to another nearby location.

3.3.1 *General Data for Hydrologic Analysis*

Certain characteristics of each drainage basin must be quantified to estimate peak rates of runoff and runoff volumes. Size of a drainage basin is always important. The quantity of rainfall is also important. The time distribution and intensity of rainfall has a direct effect on the rate of runoff. Rainfall lost to ground infiltration, localized depression ponding or plant absorbsion means less water available for runoff. The slope of the watershed and development of stream channels affects how fast runoff can reach the drainage structure. The following sections of this manual describe these factors in greater detail, and how to quantify them for use in each hydrologic analysis method.

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*The NOAA Rainfall Atlas is currently being revised (1995). Updated NOAA rainfall data will be used on NMSHTD projects once the revised Atlas is publicly available.

3.3.1.1 DRAINAGE BASIN DELINEATION

Drainage basins are usually defined graphically using topographic maps. USGS topographic maps at 1:24,000 scale provide adequate detail for NMSHTD projects and are available for most areas of New Mexico. Drainage structures crossing highways are usually located at low spots in the terrain, and are always provided where a stream channel exists. From the drainage structure location, drainage basin boundaries are drawn on the topographic map proceeding uphill such that the boundary encompasses all land which can drain to the crossing structure location. A simple test is to imagine a drop of rain falling on the ground, and to follow the path it takes as it runs downhill. Drainage basin boundary lines are generally drawn perpendicular to the topographic lines, following the ridgetops.

Once the overall drainage basin has been defined, the total drainage area should be measured. A planimeter is commonly used to measure areas from topographic maps. Drainage basin areas may also be measured electronically by digitizing map areas. Some USGS maps are now available in digital format. The historical grid method may also be used, where the basin map is overlaid with a transparent grid and grid rectangles are counted within the basin boundary lines.

Each drainage basin should be qualitatively assessed as follows:

- What hydrologic analysis method is required based on drainage basin size?
- Is one drainage basin okay for analysis purposes, or should we create sub–basins? Considerations might include: drastic changes in land slope, land use and development.
- Is the overall drainage basin shape somewhat consistent with implicit assumptions built into the analytical design methods? **Figure 3–3** shows the effects on hydrograph shape from different drainage basin shapes. The designer should consider subdividing drainage basins which are particularly elongated or short and wide.
- Will roads, diversions, ponds or other features within the drainage basin prevent it from behaving as a uniform, homogeneous watershed?
- In flat terrain, are there roads or other development features which act as drainage divides?

When these factors are accounted for, parameters such as Time of Concentration and Runoff Curve Number will more accurately portray the runoff response of the watershed.

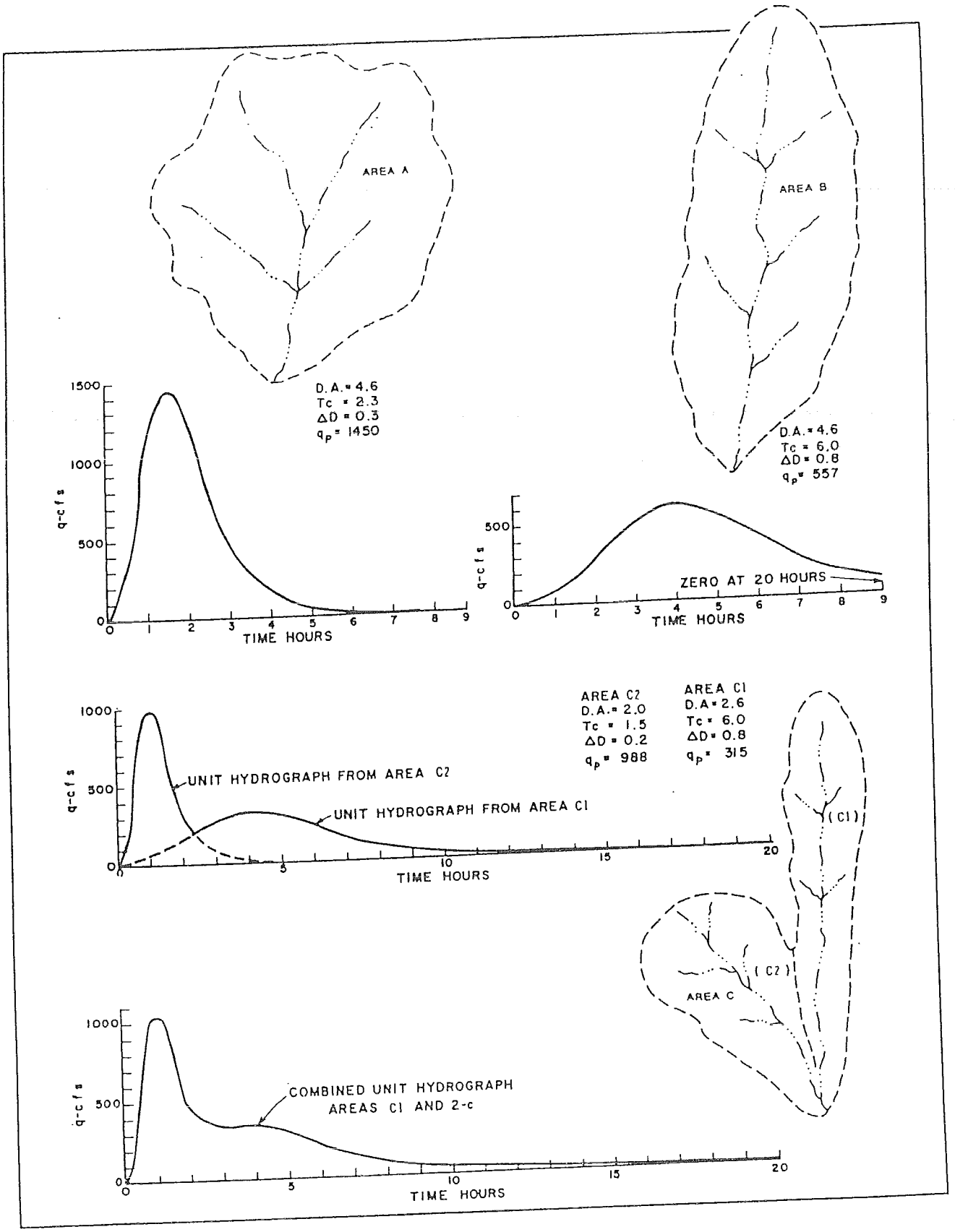


Figure 3-3
Effect of Drainage Basin Shape
on Hydrograph Shape

Adapted from SCS, NEH-4, 1972

3.3.1.2 RAINFALL

Rainfall data is a necessary input parameter for nearly all runoff computations performed on NMSHTD projects. The quantity of rainfall and the time distribution of the rainfall will both affect the resulting peak rate of runoff. Rainfall data is taken from the NOAA Precipitation – Frequency Atlas (Miller et al, 1973) or from updated NOAA maps when they become available. **Figures E–1 through E–12** in ***APPENDIX E*** of this manual provide the same NOAA data (1973) with a current (1995) State Highway map. Point precipitation values may be read from these **Figures** for the design rainfall event.

The designer must first determine the return frequency of the design flood to be used on a particular project or drainage structure. Design frequency floods are listed in a separate document, "**Drainage Design Criteria for NMSHTD Projects**," which may be obtained from the NMSHTD Drainage Section. Design frequencies are not included in this manual because the design criteria may change over time. **Designers should verify that they have the latest Drainage Design Criteria before proceeding with design on NMSHTD projects.**

For NMSHTD projects the assumption is made that rainfall frequencies produce equivalent flood frequencies, i.e. the 50–year rainfall event will produce the 50–year runoff event. This assumption is generally valid when all other factors remain constant (antecedent moisture, etc.), particularly for ephemeral stream systems. There are some situations where this assumption may not be correct. In regions of New Mexico where the seasonal snowpack is significant, the designer should evaluate both a rainfall event and a snowmelt/rainfall event as predicted by the USGS rural peak discharge regression equations.

3.3.1.2.1 RAINFALL IN THE RATIONAL FORMULA

Rainfall data must be transformed into an Intensity–Duration–Frequency (IDF) relationship for use in the Rational Formula. Rainfall intensity, i, has units of inches/hour, and changes with the Time of Concentration and design frequency. Specific IDF curves must be prepared for each NMSHTD project location. Generalized IDF curves should not be used. A manual procedure for preparing IDF curves is described below. A computer spreadsheet is used by the NMSHTD Drainage Section to expedite these calculations.

Manual IDF Procedure:

Step 1

Obtain the 6–hour and 24–hour point precipitation depths from **Figures E–1 through E–12**, or from the current NOAA Atlas. 2–year and 100–year depths are required, along with other return periods needed for the drainage analysis. Enter the values in the Depth–Duration–Frequency (DDF) Worksheet (**Figure 3–4**). Designers should make blank copies of the DDF/IDF Worksheet and the IDF Graph for use on different projects.

	2–yr	5–yr	10–yr	25–yr	50–yr	100-yr
5–min						
10–min						
15–min						
30–min						
1–hr						
2–hr						
3–hr						
6–hr						
12–hr						
24–hr						

Note: Cross hatching denotes which values are being entered in the DDF matrix of **Figure 3–4**.

3.3.1.3 *RAINFALL LOSSES AND RUNOFF CURVE NUMBERS*

Runoff curve numbers are used to quantify rainfall losses such as infiltration, interception and depression storage. Curve numbers are required input for the SCS rainfall runoff models used in this manual: Simplified Peak Flow and SCS Unit Hydrograph methods. In practice, curve numbers range from about 40 to 100, with larger curve numbers representing more runoff. Factors such as land use, ground cover type, hydrologic condition and hydrologic soil group are used to select a curve number.

Methods for selecting a runoff curve number and for making areal adjustments are described below. When carefully followed, these methods will yield a curve number which represents the runoff response of the watershed for the assumed watershed conditions. It is very important that the designer consider what changes will occur in the watershed during the year. The NMSHTD cannot design for anticipated changes in development. However, the designer should account for seasonal variations in vegetation and ground cover. The condition of the watershed may vary dramatically from the date of field reconnaissance to the annual season of largest historic runoff. This problem is most evident in cultivated agricultural areas where 1) the land is planted in row crops that are short or tall depending on plant type and growing season, or 2) the crop has been harvested and the ground is plowed or fallow, or 3) the crop type may be changed from year to year. **The designer must exercise engineering judgement to determine the appropriate runoff curve number for a particular drainage basin or sub–basin.**

3.3.1.3.1 *CURVE NUMBER SELECTION*

Primary factors used in the selection of a curve number are described below. The designer must evaluate the watershed in terms of these factors to select an appropriate curve number. Tabulated curve number values are provided in this manual and may also be found in several SCS publications (SCS, 1986). A graphic method for selecting curve numbers in rural areas is provided in **Figure 3–8**. As an additional resource, photographs of different land uses and ground cover types are provided in *APPENDIX A*.

Land Use – categorizes the land into several broad categories of usage, including rangeland, agricultural and urban. Land use is further subdivided by ground cover type and hydrologic condition. Particularly for agricultural land use, the land treatment can be a major consideration (i.e. terracing, crop rotation, etc.). In areas of human activity, compaction of natural soils may change the runoff response. For urban areas the density of development, type of landscaping, treatment of idle land and network of drainage conveyances should all be considered.

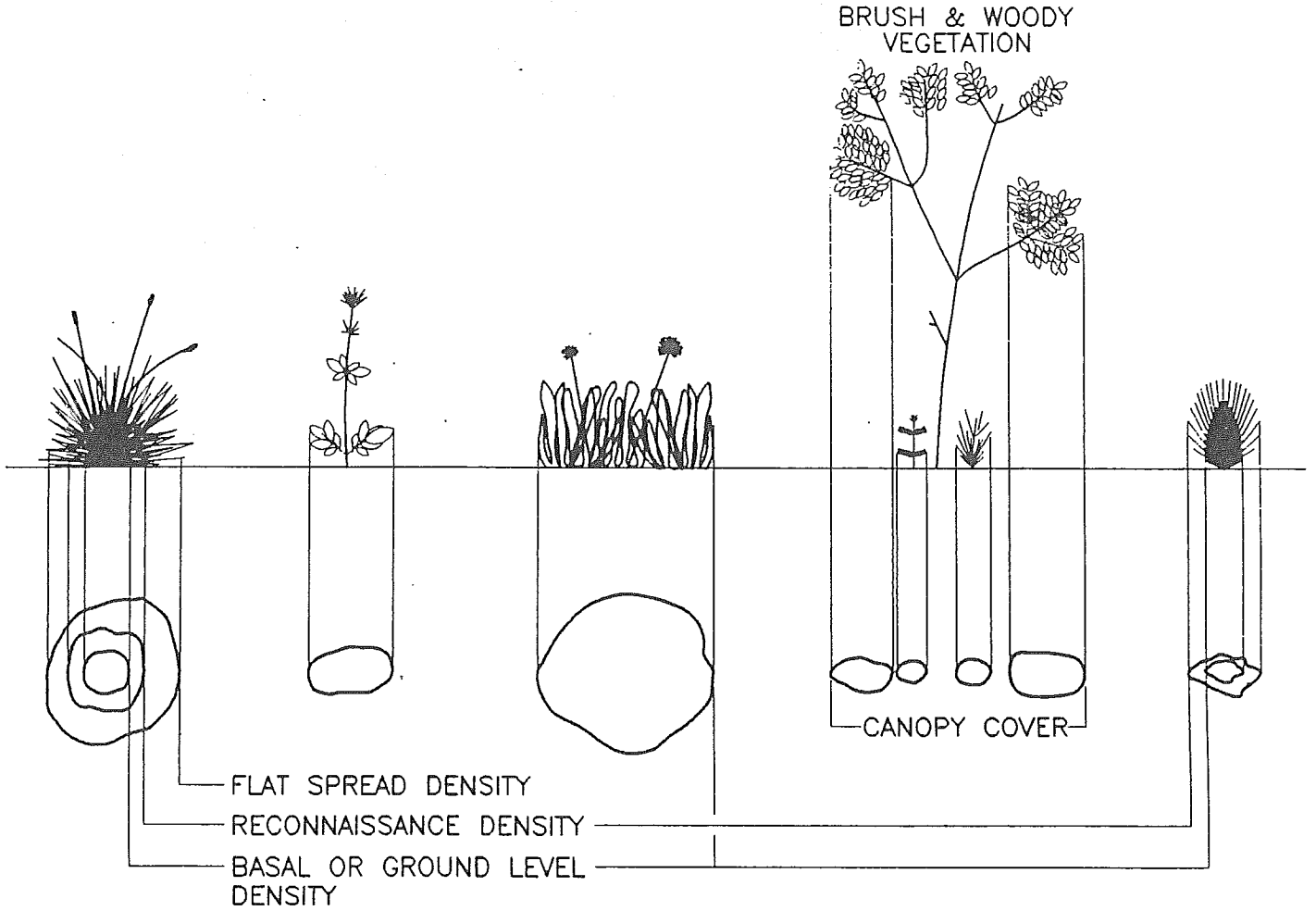
Ground Cover Type and Cover Density – describes the type of vegetation in the watershed. Arid rangeland areas may have weeds, grasses, sagebrush, desert shrubs, etc. Areas of greater rainfall may have piñon–juniper, continuous grasses, deciduous or coniferous woods, etc. Agricultural lands may be in pasture, in crops, fallow, etc. In urban areas the ground cover type is closely related with the land use. The percentage of impervious area is the most important factor in urban areas. **Figure 3–9** provides a method for adjusting curve numbers to reflect the percent impervious area. Designers should assume that all of the impervious area is "connected." In rural and agricultural areas the ground cover density has a big effect

on the runoff response of the watershed. For these areas the designer must estimate ground cover type and density at the time of year when large runoff events are most likely to occur. **Figure 3–7** shows how to estimate ground cover density.

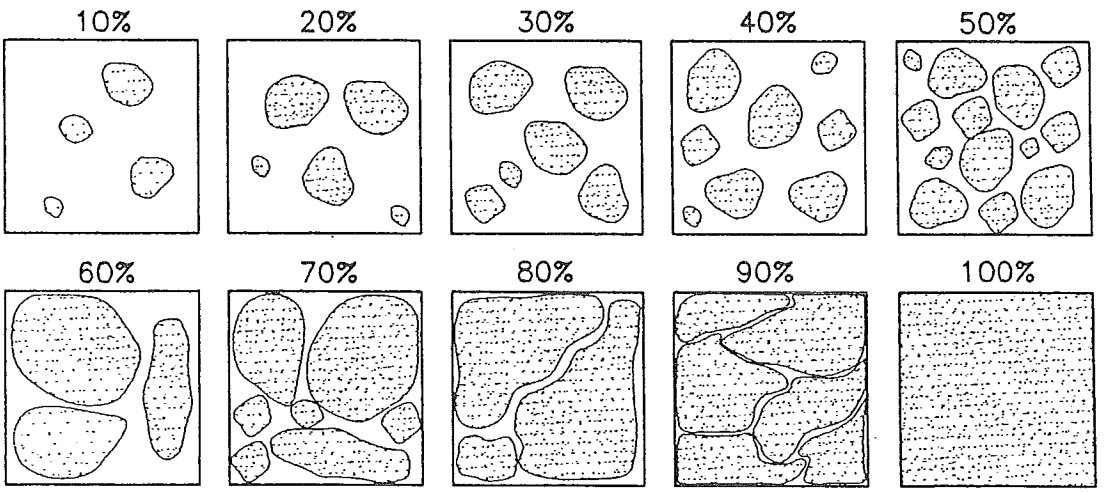
Hydrologic Condition – a "poor" hydrologic condition indicates impaired infiltration and therefore increased runoff. A "good" hydrologic condition indicates factors which encourage infiltration. For agricultural lands the hydrologic condition is a combination of factors including percent ground cover, canopy of vegetation, amount of year–round cover, percent of residue cover on the ground, grazing usage, and degree of roughness. For arid and semi–arid lands the percent ground cover determines the hydrologic condition.

Hydrologic Soil Group – categorizes the surface and subsurface soils in terms of their ability to absorb water. Sandy soils tend to fall into group "A," whereas clay soils and rock outcrops are usually in the "D" group. "A" soils are relatively permeable whereas "D" soils are not. SCS Soil Surveys include aerial photograph maps of soil series, and for each series a hydrologic soil group has been assigned. SCS Soil Surveys are available by county for the majority of New Mexico. Most of the soil surveys were performed through aerial photo interpretation of large areas and detailed field inspections at selected locations. In watershed areas where excavation or extensive reworking of the surface soils has occurred, the designer should use field inspections to confirm the hydrologic soil group of the present surface soils.

Antecedent Moisture Condition (AMC) – describes the amount of moisture in the soil at the time rainfall begins. Antecedent moisture is categorized into three conditions: dry (I), average (II) and wet (III). **Tables 3–1 through 3–4** list curve number values for various land use categories and average AMC. The assumption of AMC = II is valid for design watershed conditions on NMSHTD projects. For arid lands, an AMC of II may appear conservative, but represents conditions which could reasonably occur in conjunction with the design rainfall event. Occasionally a different AMC may be considered on a specific project. When required, the curve number for an average AMC may be adjusted as shown in **Table 3–5**.

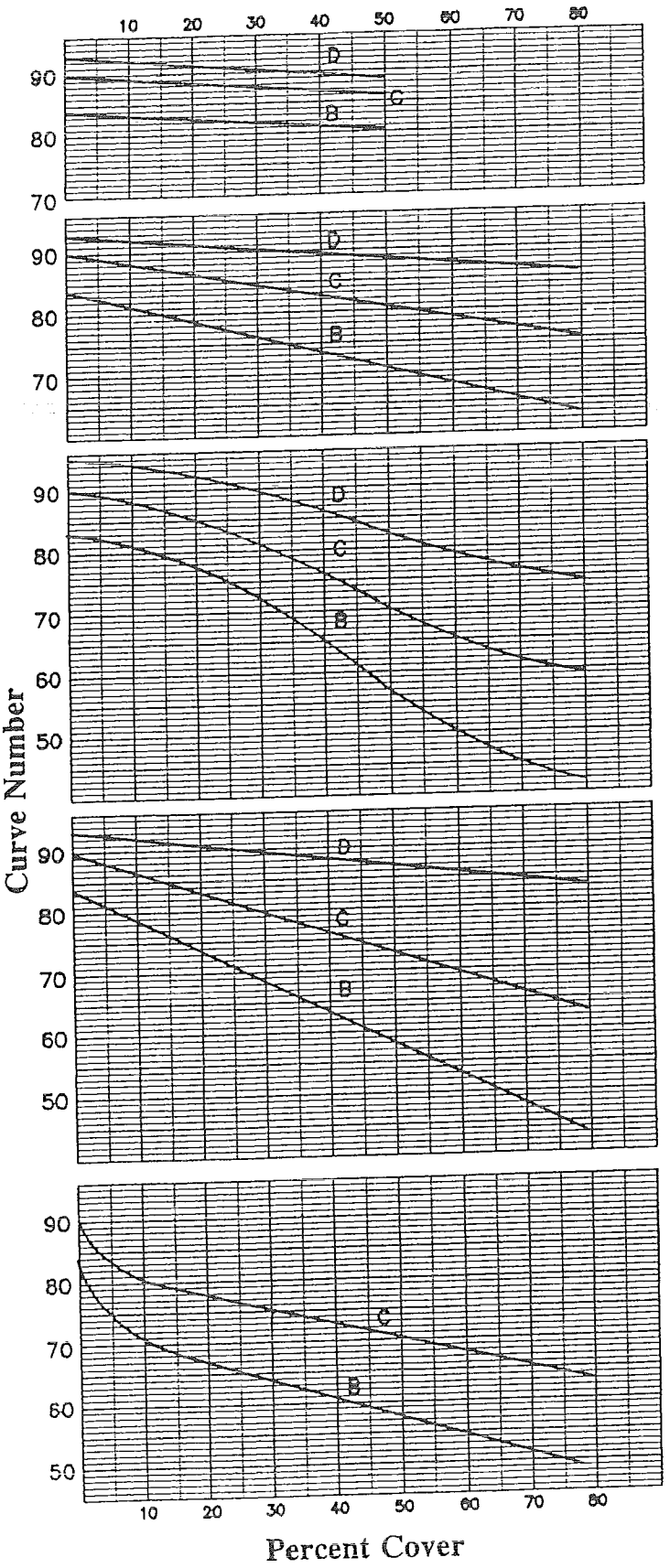


TYPES OF COVER DENSITIES FOR GRASSES, WEEDS, AND BRUSH.
USE BASAL DENSITIES FOR DESIGN



STANDARD METHOD OF MEASURING GROUND COVER DENSITY

Figure 3–7
Estimating Ground Cover Density



Desert Brush: Brush–weed and grass mixtures with brush the predominant element. Some typical plants are – Mesquite, Creosote, Yuccas, Sagebrush, Saltbush, etc. This area is typical of lower elevations of desert and semi–desert areas.

Herbaceous: Grass–weed–brush mixtures with brush the minor element. Some typical plants are – Grama, Tobosa, Broom Snakeweed, Sagebrush, Saltbush, Mesquite, Yucca, etc. This area is typical of lower elevations of desert and semi–desert areas.

Mountain Brush: Mountain brush mixtures of Oak, Mountain Mohagany, Apache Plume, Rabbit Brush, Skunk Brush, Sumac, Cliff Rose, Snowberry, etc. Mountain Brush is typical of intermediate elevations and generally higher annual rainfall than Desert Brush and herbaceous areas.

Juniper – Grass: These areas are mixed with varying amounts of juniper, piñon, grass, and cholla cover, or may be predominantly of one species. Grass cover is generally heavier than desert grasses due to higher annual precipitation. Juniper – Grass is typical of mountain slopes and plateaus of intermediate elevations.

Ponderosa Pine: These are forest lands typical of higher elevations where the principal cover is timber.

Figure 3–8
Hydrologic Soil – Cover Complexes and Associated Curve Numbers

Adapted from SCS, Chapter 2 for NM, 1985

Table 3–1 — Runoff Curve Numbers for Arid and Semiarid Rangelands[1]
Source: USDA SCS, TR–55, 1986

Cover Description		Curve Numbers for Hydrologic Soil Group –			
Cover Type	Hydrologic Condition[2]	A[3]	B	C	D
Herbaceous—mixture of grass, weeds, and low growing brush, with brush the minor element.	Poor		80	87	93
	Fair		71	81	89
	Good		62	74	85
Oak–aspen—mountain brush mixture of oak brush, aspen, mountain mahogany, bitter brush, maple, and other brush.	Poor				
	Fair		66	74	79
	Good		48	57	63
			30	41	48
Piñon, juniper, or both; grass understory.	Poor		75	85	89
	Fair		58	73	80
	Good		41	61	71
Sagebrush with grass understory.	Poor		67	80	85
	Fair		51	63	70
	Good		35	47	55
Desert shrub—major plants include saltbush, greasewood, creosotebush, blackbrush, bursage, palo verde, mesquite, and cactus.	Poor	63	77	85	88
	Fair	55	72	81	86
	Good	49	68	79	84

[1] Average runoff condition.

[2] Poor: <30% ground cover (litter, grass, and brush overstory).
Fair: 30 to 70% ground cover.
Good: >70% ground cover.

[3] Curve numbers for group A have been developed only for desert shrub.

Table 3–2 — Runoff Curve Numbers for Cultivated Agricultural Lands[1]
Source: USDA SCS, TR–55, 1986

Cover Description			Curve Numbers for Hydrologic Soil Group –			
Cover Type	Treatment[2]	Hydrologic Condition[3]	A	B	C	D
Fallow	Bare soil	—	77	86	91	94
	Crop Residue Cover (CR)	Poor	76	85	90	93
		Good	74	83	88	90
Row crops	Straight Row (SR)	Poor	72	81	88	91
		Good	67	78	85	89
	SR + CR	Poor	71	80	87	90
		Good	64	75	82	85
	Contoured (C)	Poor	70	79	84	88
		Good	65	75	82	86
	C + CR	Poor	69	78	83	87
		Good	64	74	81	85
	Contoured & Terraced (C&T)	Poor	66	74	80	82
		Good	62	71	78	81
	C&T + CR	Poor	65	73	79	81
		Good	61	70	77	80
Small grain	SR	Poor	65	76	84	88
		Good	63	75	83	87
	SR + CR	Poor	64	75	83	86
		Good	60	72	80	84
	C	Poor	63	74	82	85
		Good	61	73	81	84
	C + CR	Poor	62	73	81	84
		Good	60	72	80	83
	C&T	Poor	61	72	79	82
		Good	59	70	78	81
	C&T + CR	Poor	60	71	78	81
		Good	58	69	77	80
Close–seeded or broadcast legumes or rotation meadow	SR	Poor	66	77	85	89
		Good	58	72	81	85
	C	Poor	64	75	83	85
		Good	55	69	78	83
	C&T	Poor	63	73	80	83
		Good	51	67	76	80

[1] Average runoff condition.

[2] Crop residue cover applies only if residue is on at least 5% of the surface throughout the year.

[3] Hydrologic condition is based on combination of factors that affect infiltration and runoff, including (a) density and canopy of vegetative areas, (b) amount of year-round cover, (c) amount of grass or close-seeded legumes in rotations, (d) percent of residue cover on the land surface (good ≥ 20%), and (e) degree of surface roughness.

Poor: Factors impair infiltration and tend to increase runoff.

Good: Factors encourage average and better than average infiltration and tend to decrease runoff.

Table 3–3 — Runoff Curve Numbers for Other Agricultural Lands[1]
Source: USDA SCS, TR–55, 1986

Cover Description		Curve Numbers for Hydrologic Soil Group –			
Cover Type	Hydrologic Condition	A	B	C	D
Pasture, grassland, or range—continuous forage for grazing.[2]	Poor	68	79	86	89
	Fair	49	69	79	84
	Good	39	61	74	80
Meadow—continuous grass, protected from grazing and generally mowed for hay.	—	30	58	71	78
Brush–weed–grass mixture with brush the major element.[3]	Poor	48	67	77	83
	Fair	35	56	70	77
	Good	30[4]	48	65	73
Woods—grass combination (orchard or tree farm).[5]	Poor	57	73	82	86
	Fair	43	65	76	82
	Good	32	58	72	79
Woods.[6]	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	30[4]	55	70	77
Farmsteads—buildings, lanes, driveways, and surrounding lots.	—	59	74	82	86

[1] Average runoff condition.

[2] Poor: <50% ground cover or heavily grazed with no mulch.
Fair: 50 to 75% ground cover and not heavily grazed.
Good: >75% ground cover and lightly or only occasionally grazed.

[3] Poor: <50% ground cover.
Fair: 50 to 75% ground cover.
Good: >75% ground cover.

[4] Actual curve number is less than 30; use CN = 30 for runoff computations.

[5] CN's shown were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CN's for woods and pasture.

[6] Poor: Forest litter, small trees, and brush are destroyed by heavy grazing or regular burning.
Fair: Woods are grazed but not burned, and some forest litter covers the soil.
Good: Woods are protected from grazing, and litter and brush adequately cover the soil.

Table 3–4 — Runoff Curve Numbers Urban Areas[1]

Source: USDA SCS, TR–55, 1986

Cover Description		Curve Numbers for Hydrologic Soil Group –			
Cover Type and Hydrologic Condition	Average Percent Impervious Area[2]	A	B	C	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.)[3]:					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right–of–way)		98	98	98	98
Streets and roads:					
Paved; curbs and storm sewers (excluding right–of–way)		98	98	98	98
Paved; open ditches (including right–of–way)		83	89	92	93
Gravel (including right–of–way)		76	85	89	91
Dirt (including right–of–way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only)[4]		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1– to 2–inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94	95
Industrial	72	81	88	91	93
Residential districts by average lot size:					
1/8 acre or less (town houses)	65	77	85	90	92
1/4 acre	38	61	75	83	87
1/3 acre	30	57	72	81	86
1/2 acre	25	54	70	80	85
1 acre	20	51	68	79	84
2 acres	12	46	65	77	82
Developing urban areas					
Newly graded areas (pervious areas only, no vegetation)[5]		77	86	91	94
Vacant lands (CN's are determined using cover types similar to those in **Table 3–3**).					

[1] Average runoff condition.

[2] The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using Figure 3.9.

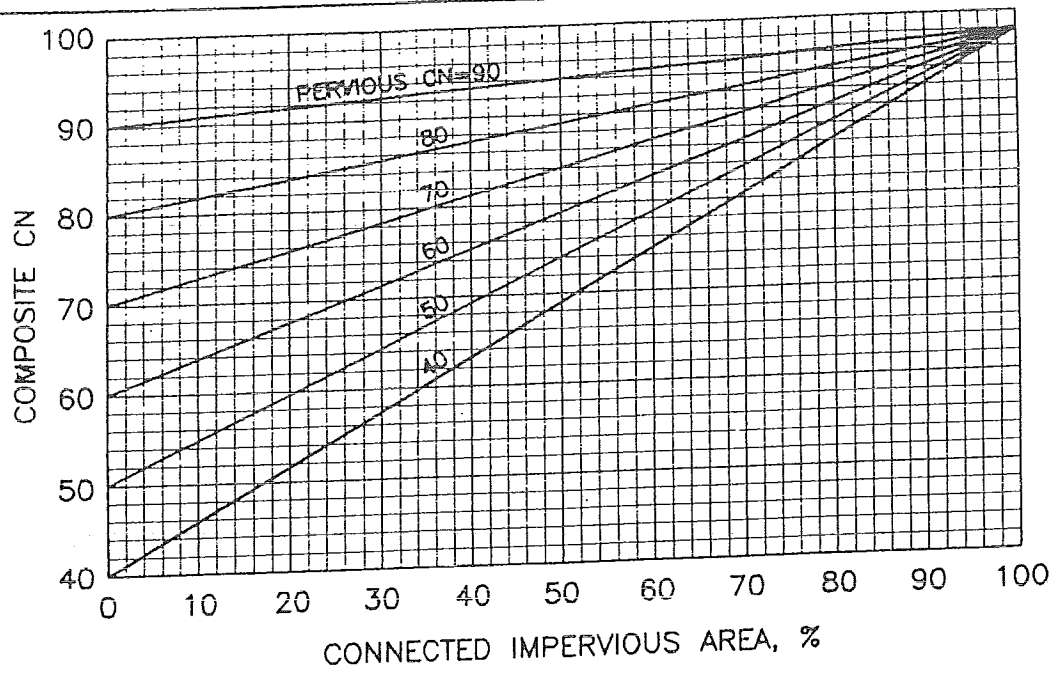
[3] CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

[4] Composite CN's for natural desert landscaping should be computed using Figure 3.9 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

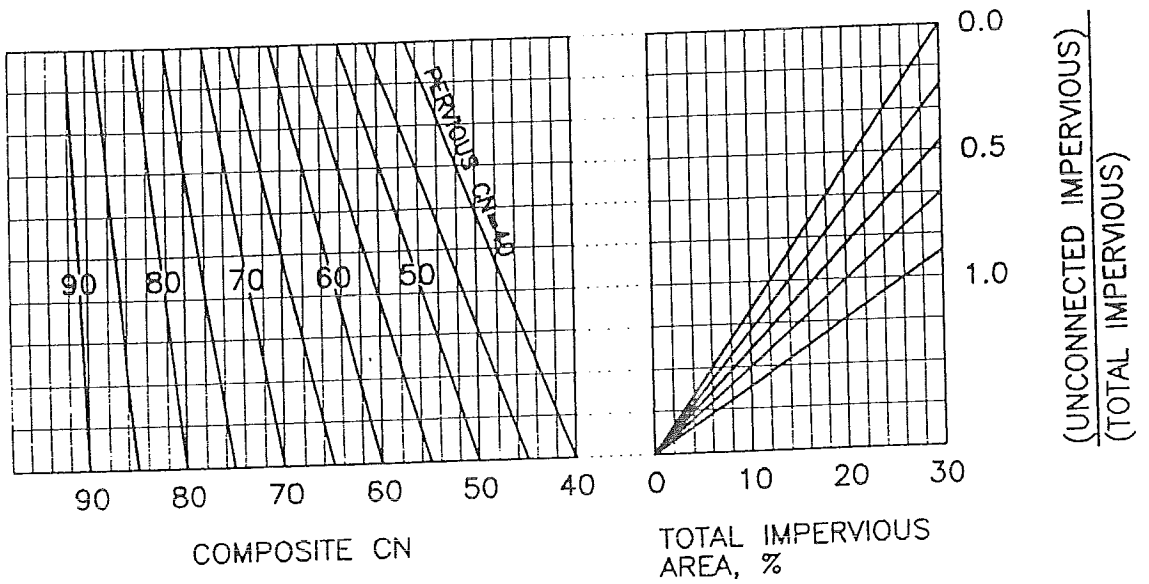
[5] Composite CN's to use for the design of temporary measures during grading and construction should be computed using Figure 3.9, based on the degree of development (impervious area percentage) and the CN's for the newly graded pervious areas.

Table 3–5 — Conversion from Average Antecedent Moisture Conditions to Dry and Wet Conditions
Source: USDA SCS, TR–55, 1986

CN for Average Conditions	Corresponding CN's for	
	Dry	Wet
100	100	100
95	87	98
90	78	96
85	70	94
80	63	91
75	57	88
70	51	85
65	45	82
60	40	78
55	35	74
50	31	70
45	26	65
40	22	60
35	18	55
30	15	50
25	12	43
15	6	30
5	2	13



COMPOSITE CN WITH CONNECTED IMPERVIOUS AREA



COMPOSITE CN WITH UNCONNECTED IMPERVIOUS AREAS AND TOTAL IMPERVIOUS AREAS LESS THAN 30%.

Figure 3-9
Composite CN for Urban Areas with Connected and Unconnected Impervious Areas

Adapted from SCS, TR-55, 1986

3.3.1.3.2 CURVE NUMBER WEIGHTING

When hydrologic conditions are consistent throughout the watershed, then use of a single curve number is appropriate. For watersheds where curve numbers vary by 10 or less, an area weighted curve number is sufficient. When curve numbers vary dramatically within the watershed, the designer should consider subdividing the watershed into different drainage sub–basins. An alternative to subdividing a highly variable drainage basin is to use a Runoff weighted curve number. Examples of each curve number weighting procedure are shown below.

Area Weighted Curve Number

40% of the drainage basin is characterized by CN = 65
60% of the drainage basin is characterized by CN = 73

the area weighted $CN = \dfrac{(.40)\ (65) + (.60)\ (73)}{1.00} = 69.8$ use CN = 70

Runoff Weighted Curve Number

40% of the drainage basin is characterized by CN = 88
60% of the drainage basin is characterized by CN = 72

Assume a design rainfall event of 2.0 inches.

Use **Figure 3–16** to estimate
1.0 inches of direct runoff from the CN = 88 land
and 0.3 inches of direct runoff from the CN = 72 land
the average runoff is calculated as

$$\frac{(.40)\ (1.0) + (.60)\ (.03)}{1.00} = 0.58\ \textit{inches}$$ average direct runoff

Use **Figure 3–16** to find a
runoff weighted curve number of CN = 80

Comparison of Methods

Recall that by the area weighted method we would have obtained a CN = 78.
The difference in this example is approximately 0.1 inches of direct runoff. This difference becomes particularly important for small rainfall amounts where lower CN values may not predict any runoff. In the example above a curve number difference of 2 resulted in a

$$\frac{0.58 - 0.50}{.50} = .16$$

the runoff weighted curve number predicts a 16% increase in runoff.

Use the criteria described above to select the best weighting method.

3.3.1.4 *TIME OF CONCENTRATION*

Time of Concentration is defined as the time required for runoff to travel from the hydraulically most distant part of the watershed to the point of interest. Time of concentration is one of the most important drainage basin characteristics needed to calculate the peak rate of runoff. An accurate estimate of a watershed's time of concentration is crucial to every type of hydrologic modeling.

The method used to calculate time of concentration must be consistent with the method of hydrologic analysis selected for design. Designers working on NMSHTD projects must use the time of concentration methods specified in this section for each hydrologic method. Mixing of methods is not allowed on NMSHTD projects. **Table 3–6** defines the correct time of concentration method to be used for each hydrologic method.

Within each watershed the designer must locate the primary watercourse. This is the watercourse that extends from the bottom of the watershed or drainage structure to the most hydraulically remote point in the watershed. Most designers begin at the bottom of the watershed and work their way upstream until the longest watercourse has been found. At the top of the watershed a defined watercourse may not exist. In these areas overland flow will be the dominant flow type. As the runoff proceeds downstream, overland flows will naturally begin to coalesce, gradually concentrating together. Shallow concentrated flow often has enough force to shape small gullies in erosive soils. Gullies eventually gather together until a defined stream channel is formed. The water course is now large enough to be identified on a quadrangle topographic map.

Sections along the primary watercourse should be identified which are hydraulically similar. Time of concentration is estimated for each section of the watercourse. Time of concentration in any given watershed is simply the sum of flow travel times within hydraulically similar reaches along the longest watercourse. Time of concentration is determined from measured reach lengths and estimated average reach velocities. The basic equation for time of concentration is:

$$T_c = \left(\frac{L_1}{V_1} + \frac{L_2}{V_2} + \frac{L_3}{V_3} + \ldots \frac{L_n}{V_n} \right) \frac{1}{60} \qquad (3\text{–}17)$$

where

T_c = Time of concentration, minutes
V_1 = Average flow velocity in the uppermost reach of the watercourse, ft./sec.
L_1 = Length of the uppermost reach of the watercourse, ft.
V_2, V_3, ... = Average flow velocities in subsequent reaches progressing downstream, ft./sec.
L_2, L_3, ... = Lengths of subsequent reaches progressing downstream, ft.

Hydrologic Method	Watershed Condition	Time of Concentration Method
Rational Method	Un–gullied Watershed*	Upland Method
	Gullied Watershed*	Kirpich Formula
Simplified Peak Flow Method	Un–gullied Watershed*	Upland Method
	Gullied Watershed*	Kirpich Formula
	Watershed Partially Gullied	Upland Method for the Un–gullied Portion, then Kirpich Formula for the Gullied Portion**
USGS Regression Equations	———	NOT REQUIRED
Unit Hydrograph Method	No Defined Stream Channel	Upland Method
	Defined Stream Channel	Stream Hydraulic Method
Approved Urban Method	All Conditions	Use T_c Method Specified for the Approved Urban Method***

*A watershed is considered un–gullied if 10% or less of the primary watercourse exhibits gullying.

**Mixing T_c Methods in a watershed is only allowed with the Simplified Peak Flow Method.

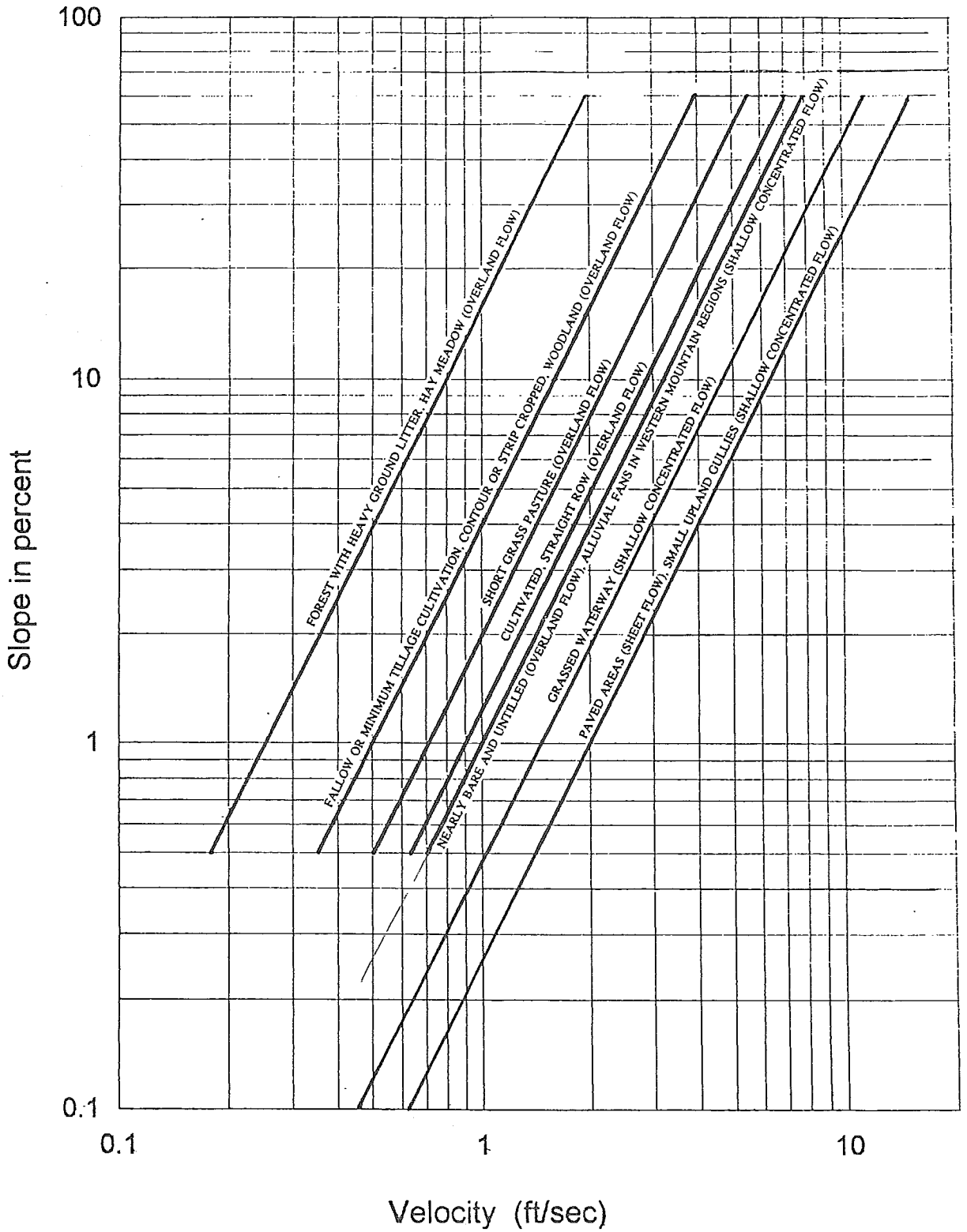
***When using AHYMO with the COMPUTE NM HYD routine, compute the time of concentration in accordance with the City of Albuquerque Design Process Manual. See *SECTIONS 3.2 AND 3.3.5* of this manual for limitations on the use of AHYMO.

Table 3–6
Time of Concentration Method Selection Chart

3.3.1.4.1 THE UPLAND METHOD

The Upland Method is used to estimate travel times for overland flow and shallow concentrated flow conditions. Originally developed by the SCS, the upland method is limited to use in watersheds less than 2000 acres in size, or to the upper reaches of larger watersheds. For NMSHTD projects the Upland Method may be used for computing the time of concentration when using the Rational Method or the Simplified Peak Flow method on an un–gullied watershed.

At the very top of the watershed, sheet flow is the predominant flow regime. The overland flow lines in **Figure 3.10** may be used to estimate the velocity of sheet flow. Overland flow continues until the volume of water creates a shallow concentrated flow regime. In erosive soil formations with limited ground cover, the length of overland flow may be so short as to be negligible. Given the slope of the land and some knowledge of the ground cover conditions, **Figure 3.10** may be used to estimate the velocity of shallow concentrated flow. For NMSHTD projects, shallow concentrated flow is assumed to occur from the end of overland flow to the bottom of a watershed where there is little or no gullying (10% or less). Where gullying is evident in the majority of the watercourse (by field inspection, or by a blue line on the USGS quadrangle topographic map), time of concentration should be computed by the Kirpich Method for the entire watershed. **When the Simplified Peak Flow method is being used for NMSHTD projects, the Upland Method may be used for the un–gullied portion of the watercourse, in combination with the Kirpich Formula for the gullied sections of the watercourse.**



Note: For watercourses with slopes less than 0.5 percent, use the overland flow velocity given for 0.5 percent, except for shallow concentrated flow where a flatter slope may be considered.

Figure 3–10
Flow Velocities for Overland and Shallow Concentrated Flows

Modified from SCS, NEH–4, 1972

3.3.1.4.2 *Time of Concentration by the Kirpich Formula*

This method is used to calculate time of concentration in gullied watersheds when using the Rational Method or the Simplified Peak Flow Method. The Kirpich Formula should be used when gullying is evident in more than 10% of the primary watercourse. Gullying can be assumed if a blue line appears on the watercourse shown on the USGS quadrangle topographic map. The Kirpich Formula is given as:

$$T_c = 0.0078 \ L^{0.77} \ S^{-0.385} \qquad (3\text{–}18)$$

where

T_c = time of concentration, in minutes
L = length from drainage to outlet along the primary drainage path, in feet
S = average slope of the primary drainage path, in ft./ft.

The Kirpich Formula should generally be used for the entire drainage basin. The exception to this rule occurs when the Simplified Peak Flow Method is being used on NMSHTD projects and the watercourse has a mixture of gullied and un–gullied sections. In these situations, mixing of time of concentration methods is allowed. The Upland Method is used for the ungullied portion of the primary watercourse, and the Kirpich Formula is used for the gullied portion of the watercourse. The two times of concentration are added together to obtain the total time of concentration of the watershed. Typically the Kirpich Formula is only used for that portion of the watercourse shown in blue on the quadrangle topo map. **Mixing of time of concentration methods is only allowed with the Simplified Peak Flow Method for NMSHTD projects.**

3.3.1.4.3 *The Stream Hydraulic Method*

The stream hydraulic method is used when calculating peak flows by the Unit Hydrograph Method in a watercourse where a defined stream channel is evident (blue line, solid or broken, on a quadrangle topo map). The designer must measure or estimate the hydraulic properties of the stream channel, and must divide the total watercourse into channel reaches which are hydraulically similar. Field reconnaissance measurements of the stream channel are best, however sometimes direct measurements are not possible. The designer must determine the slope, channel cross section and an appropriate hydraulic roughness coefficient for each channel reach. Average slope is often determined from the topographic mapping of the watershed. Channel cross section should be measured in the field whenever possible. Roughness coefficients of the waterway should be based on actual observations of the watercourse or of nearby watercourses which are believed to be similar and which are more accessible.

Time of Concentration by the stream hydraulic method is simply the travel time in the stream channel. Channel flow velocities can be estimated from normal depth calculations for the watercourse. In addition to the average flow velocity, designers should compute the Froude Number of the flow. If the Froude number of the flow exceeds a value of 1.3, then the designer should verify that supercritical flow conditions can actually be sustained. For most earth lined channels the velocity calculation should be recomputed using a larger effective

3.3.3 SIMPLIFIED PEAK FLOW METHOD

The Simplified Peak Flow method estimates the peak rate of runoff and runoff volume from small to medium size watersheds. This method was developed by the Soil Conservation Service and revised by that agency for use in New Mexico ("Peak Rates of Discharge for Small Watersheds," Chapter 2, SCS, 1985). Infiltration and other losses are estimated using the SCS Curve Number (CN) methodology. Input parameters are consistent with those used in the SCS Unit Hydrograph method. The Simplified Peak Flow method is limited for NMSHTD use to single basins less than 5 square miles in area, and should not be used when T_c exceeds 8.0 hours. This method may be used on NMSHTD projects for those conditions identified in ***SECTION 3.2*** of this manual. This method should not be used for watersheds with perennial stream flow.

The original Chapter 2 method (SCS, 1973) included unit peak discharge curves for different rainfall distributions, varying from 45% to 85% of the rainfall occurring in the peak hour. After analysis of stream gage data, the 1985 update included only one peak discharge curve, representing a variable rainfall distribution depending on the Time of Concentration of the watershed. Therefore, a separate estimate of rainfall distribution is not required to use this method. The analysis of gage data also showed that the method overestimated peak flows at elevations above 7500 ft. Drainage structures above this elevation should be evaluated by the unit hydrograph or USGS regression equation methods.

3.3.3.1 APPLICATION

Step 1 – Gather Input Data

- Establish the appropriate Design Frequency Flood(s) for analysis
- Estimate the drainage area, A, in acres (*SECTION 3.3.1.1*)
- Compute the Time of Concentration, T_c, in hours (*SECTION 3.3.1.4*)
- Determine the appropriate runoff Curve Number, CN, for the drainage basin (*SECTION 3.3.1.3*)
- Obtain the 24–hour rainfall depth, P_{24}, for the appropriate design frequency, from *APPENDIX E*

Step 2 Determine the unit peak discharge, q_u, for the watershed. The unit peak discharge can be read from **Figure 3–18**, given the time of concentration, or calculated directly by the following equation:

(3–22)

$$q_u = 0.543\ T_c^{-0.812}\ 10^{-\frac{[\,|\log(T_c) + 0.3| - \log(T_c) - 0.3]^{1.5}}{10}}$$

where

q_u = unit peak discharge from the watershed, in cfs/ac–in
T_c = time of concentration, in hours

Note: for $T_c > 0.5$ hours, the last term of the equation, $10^{-\frac{[\,|\log(T_c) + 0.3| - \log(T_c) - 0.3]^{1.5}}{10}}$, is equal to 1.0

Step 3

Calculate the direct runoff from the watershed. The direct runoff is expressed as an average depth of water over the entire watershed, in inches. The direct runoff may be read from **Figure 3–17** using the 24–hour rainfall depth P_{24} in inches, and the runoff curve number, CN. The runoff depth may also be calculated from the following equation:

(3–23)

$$Q_d = \frac{[P_{24} - (200/CN) + 2]^2}{P_{24} + (800/CN) - 8}$$

where

Q_d = average runoff depth for the entire watershed, in inches

Step 4

Compute the peak discharge from the watershed by the following equation:

(3–24)

$$Q_p = A \bullet Q_d \bullet q_u$$

where

Q_p = peak discharge, in cfs
A = drainage area, in acres

Step 5

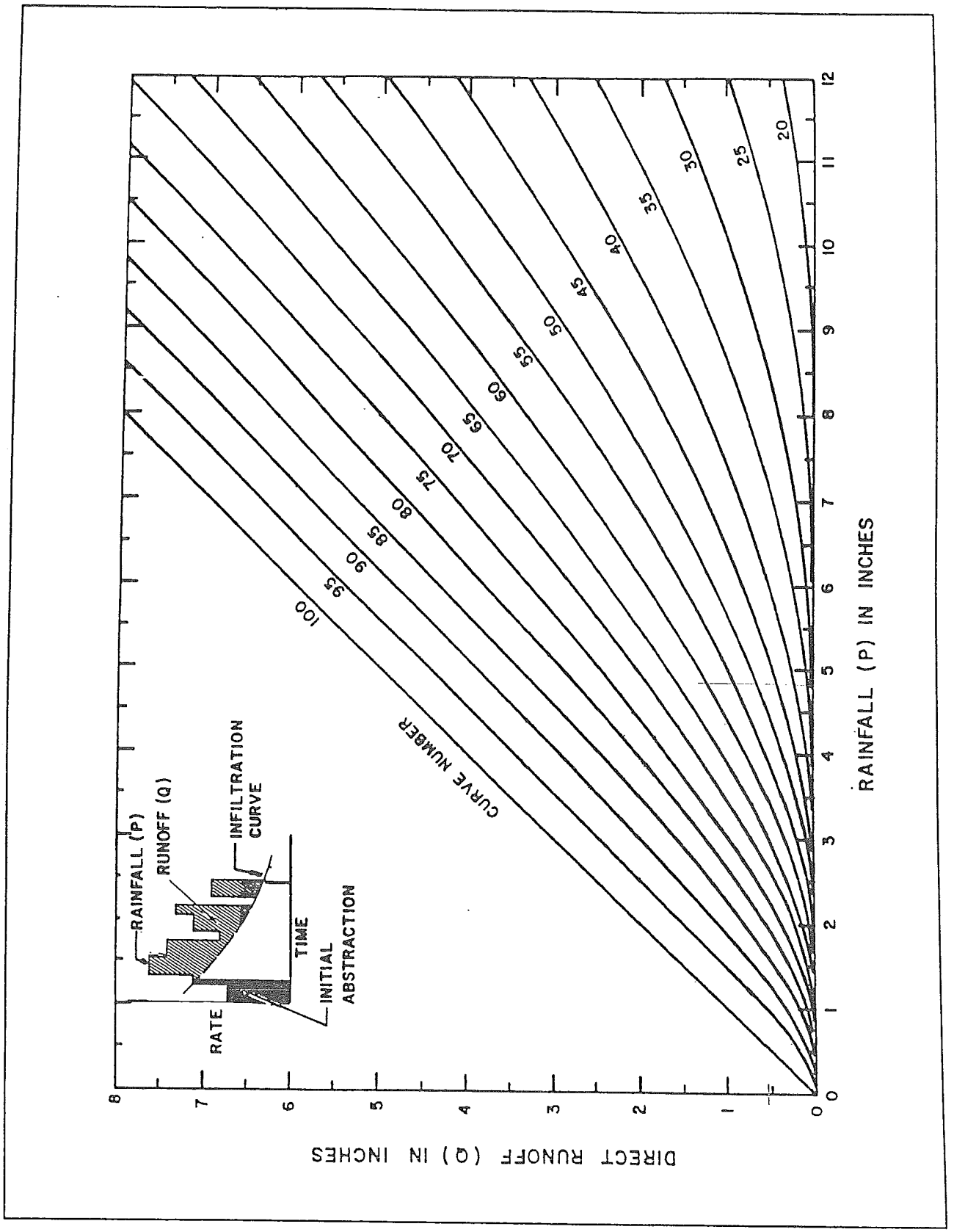
Compute the runoff volume, if required. The runoff volume is obtained by the equation:

(3–25)

$$Q_v = \frac{Q_d \bullet A}{12}$$

where

Q_v = runoff volume from the watershed, in ac–ft



Adapted from SCS, NEH–4, 1964

Figure 3–17
Estimating Direct Runoff

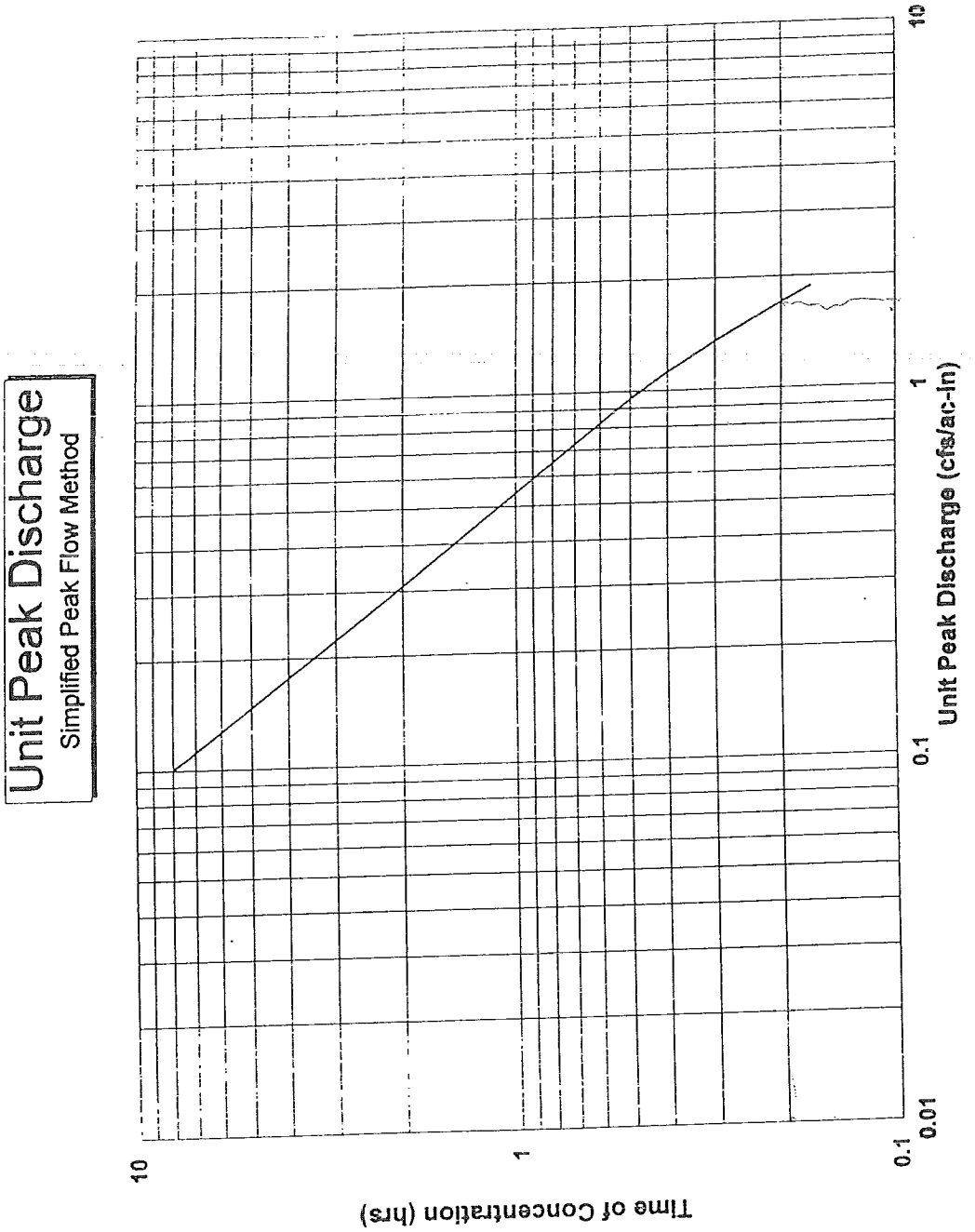


Figure 3-18
Unit Peak Discharge
for the Simplified Peak Flow Method

Step 6

Estimate Transmission Losses, if required. For watersheds less than 1.0 square miles in size there is no reduction factor applied. Where base flow is observed or known to occur, transmission losses should not be included. For large watersheds with sand or gravel bed channels, transmission losses may need to be considered. To compute transmission losses, follow the procedure in the SCS document NEH–4, Chapter 19, Transmission Losses, 1983.

Simplified Peak Flow Worksheet

Structure Location: _____

Structure Description: _____

Drainage Area:	A = _____	acres
Time of Concentration:	T_c = _____	hours
Weighted Runoff Curve Number:	CN = _____	—
Unit Peak Discharge (from **Figure 3–18**):	q_u = _____	cfs/ac–in

Design Frequency Flood	_____–year	_____–year
24–hour Rainfall Depth (*APPENDIX E*):	P_{24} = _____ in.	P_{24} = _____ in.
Direct Runoff (**Figure 3–17**):	**Qd** = _____ in.	**Qd** = _____ in.
Peak Discharge, **Qp = A • Qd • qu**:	**Qp** = _____ cfs	**Qp** = _____ cfs
Runoff Volume, **Qv = A • Qd/12**:	**Qv** = _____ ac–ft	**Qv** = _____ ac–ft

Transmission Losses, if applicable (computed by methods in SCS NEH 4, Chapter 19, 1983)

Predicted Runoff Volume:	Q_{pv} = _____ ac–ft	Q_{pv} = _____ ac–ft
Predicted peak Discharge:	Q_{pp} = _____ ac–ft	Q_{pp} = _____ ac–ft

Project Location: _____
CN#: _____
Date: _____
Computed by: _____ Checked by: _____

Figure 3-19
Simplified Peak Flow Worksheet

3.3.3.2 *Simplified Peak Flow Method Example Problems*

Problem No. 3

Location: South of Deming, sparse desert brush
Elevation: 4,000 ft.
Design Frequency Flood: 50–year
Watershed Area: 250 acres (< 5 sq. mi., so okay for Simplified Peak Flow Method)
24–hour rainfall depth, 50–year return frequency, from **Figure E–11**, P_{50} = 3.3 inches

Compute the time of concentration.

The upper watershed shows significant erosion, with many gullies evident.
Assume overland flow occurs for the first 200 ft. at S = 0.035 ft./ft.
Assume shallow concentrated flow occurs for the remaining 600 ft. at S = 0.025 ft./ft. until a defined stream channel is evident on the quadrangle topographic map.
Select appropriate velocities from **Figure 3–10**.

$$T_{c\ upland} = \left(\frac{200\ ft.}{1.8\ ft./\text{sec.}} + \frac{600\ ft.}{3.1\ ft./\text{sec.}} \right) \frac{1}{60} = 5.1\ min.$$

The defined stream channel is a broad wash where larger flows really spread out. Channel length is measured as 3,000 ft. Bottom width ≈ 30 ft., S = 0.015 ft./ft., n = 0.030. *For this channel we can use the simplifying assumption that R = 1.*

Compute channel velocity based on Manning's equation.

$$V = \frac{1.49}{0.030} (1)^{\frac{2}{3}} (.015)^{\frac{1}{2}} = 6.08\ ft./\text{sec.}$$

$$T_{c\ stream\ hydraulic} = \left(\frac{3000\ ft.}{6.1\ ft./\text{sec.}} \right) \frac{1}{60} = 8.2\ min.$$

The total time of concentration for the watershed is

$$T_{c\ watershed} = 5.1 + 8.2 = 13.3\ minutes = 0.222\ hours$$

(0.222 hours is less than 8.0 hours, okay to use the simplified peak flow method.)

Select a representative runoff Curve Number.
Vegetation: Desert brush
HSG: A
Hydrologic Condition: poor, minimal ground cover
From **Table 3–1**, select CN = 63

Compute the direct runoff using **Equation 3–23** (or obtain Q_d from **Figure 3–17**).

$$Q_d = \frac{\left(3.3 - \left(\frac{200}{63}\right) + 2\right)^2}{3.3 + \left(\frac{800}{63}\right) - 8} = 0.56 \text{ inches}$$

Because the watershed is less than 1.0 square miles, Transmission Losses are not considered.

The unit peak discharge, q_u, is read from **Figure 3–18**, or calculated directly by **Equation 3–22**.

$q_u = 1.607$ *cfs/ac–in*

Compute the design frequency peak flow by **Equation 3–24**.

$Q_p = (250)\ (0.56)\ (1.607)$
$Q_p = 225$ *cfs*

Problem No. 4

Location: North of Crownpoint, gently sloping rangeland
Elevation: 6,500 ft.
Design Frequency Flood: 50–year

Watershed Area: 600 acres (< 5 sq. mi., okay)
24–hour rainfall depth, 50–year return frequency, from **Figure E–11**, P_{50} = 2.2 inches

Compute the time of concentration.

The total length of the watercourse to the hydraulically most remote point in the drainage basin is 7,600 ft.

We are unable to inspect the entire watershed, therefore some assumptions are necessary:

Assume overland flow occurs for 400 ft. at S = 0.020 ft./ft.
Shallow concentrated flow is assumed for the remaining 1,200 ft. until a defined stream channel is observed on the quad sheet topo. S = 0.010 ft./ft.
Select appropriate velocities from **Figure 3–10**.

$$T_{c\ upland} = \left(\frac{200\ ft.}{1.4\ ft./sec.} + \frac{200\ ft.}{1.4\ ft./sec.} + \frac{1{,}200\ ft.}{2.0\ ft./sec.} \right) \frac{1}{60} = 14.8\ min.$$

The remainder of watercourse is a defined stream channel in alluvial material.
Length = 6,000 ft., Slope = 0.010 ft./ft.
The stream channel observed upstream of the highway has the following cross sectional properties:

15 ft. bottom, 1:1 sideslopes, cut banks approximately 4 ft. tall

We estimate Manning's n = 0.030, sand bed channel without vegetation.

Use the simplified procedure for moderate and narrow width channels to estimate flow velocity.

Estimate the flow depth from vegetation and old debris, d ≈ 3.0 ft.

Flow Area = 45 ft.^{2}

Wetted Perimeter = 21 ft.

The Hydraulic Radius, $R = \frac{A}{P} = \frac{45}{21} = 2.1$

Flow velocity computed by Manning's Equation is

$$V = \frac{1.49}{n} R^{\frac{2}{3}} S^{\frac{1}{2}} = \frac{1.49}{0.030} (2.1)^{\frac{2}{3}} (0.010)^{\frac{1}{2}} = 8.3 \text{ ft./sec.}$$

$$T_{c \text{ stream hydraulic}} = \left(\frac{6{,}000 \text{ ft.}}{8.3 \text{ ft./sec.}} \right) \frac{1}{60} = 12.0 \text{ min.}$$

The total time of concentration for the watershed is

$$T_{c \text{ watershed}} = 14.8 + 12.0 = 26.8 \text{ minutes} = 0.447 \text{ hours}$$

Select a representative runoff Curve Number.

Vegetation: Desert brush
HSG: B
Hydrologic Condition: 20% ground cover

From **Figure 3–8**, select CN = 82.5

Compute the direct runoff using **Equation 3–23** (or obtain Q_d from **Figure 3–17**).

$$Q_d = \frac{\left(2.2 - \left(\frac{200}{82.5}\right) + 2\right)^2}{2.2 + \left(\frac{800}{82.5}\right) - 8} = 0.81 \text{ inches}$$

The unit peak discharge, q_u, is read from **Figure 3–18**, or calculated directly by **Equation 3–22**.

$q_u = 1.037$ *cfs/ac–in*

Compute the design frequency peak flow by **Equation 3–24**.

$Q_p = (600)\ (0.81)\ (1.037)$
$Q_p = 504$ *cfs*

As a check, compute the normal depth for this discharge.

for $Q_p = 504$ cfs, normal depth $d = 3.14$ ft.
This confirms our assumed depth. If the normal depth was substantially different from the assumed value then we would need to revise our T_c calculation accordingly.

Problem No. 5

Location: Near Chama, forested mountain terrain
Elevation: 7,500 ft.
Design Frequency Flood: 50–year

Watershed Area: 3,000 acres (< 5.0 square miles, okay for Simplified Peak Flow Method)
P_{24}, 50–year = 2.8 inches

Compute the time of concentration.

Unable to inspect the entire watershed, therefore some assumptions are necessary:

Assume overland flow occurs for 400 ft. at S = 0.100 ft./ft.
Shallow concentrated flow is assumed for the remaining 2,200 ft. until a defined stream channel is observed on the quad sheet topo. S = 0.060 ft./ft.
Select appropriate velocities from **Figure 3–10**.

$$T_{c\ upland} = \left(\frac{100\ ft.}{0.8\ ft./sec.} + \frac{300\ ft.}{2.8\ ft./sec.} + \frac{2{,}200\ ft.}{5.0\ ft./sec.} \right) \frac{1}{60} = 11.2\ min.$$

The remainder of watercourse is a defined stream channel.

Since there is not any real data on the stream channel geometry and no good evidence of flow depths, use the iterative procedure.

Estimate the peak discharge using the USGS statewide small basin regression equations.

From **Table 3–7** we find the 50–year return frequency equation to be

$$Q_{small\ basin} = 7.92 \times 10^2 \cdot A^{0.45}$$

$$Q_{smallbasin} = 792 \left(\frac{3{,}000}{640} \right)^{0.45} = 1{,}587\ cfs$$

For the SCS iterative procedure, the flow rate used to compute channel flow velocity is assumed to be 2/3 of the estimated peak flow.

$$Q_{velocity} = 2/3\ (1587) = 1{,}063\ cfs$$

The length of stream channel has been measured as 14,500 ft. from the quad sheet topo.

Assume a channel geometry: 10 ft. bottom, 2:1 sideslopes, n = 0.045, slope = 0.035 ft./ft.

By normal depth calculation, Velocity, V = 12.4 ft./sec.

The travel time is then

$$T_{c\ stream\ hydraulic} = \left(\frac{14{,}500\ ft.}{12.4\ ft./\text{sec.}}\right)\frac{1}{60} = 19.5\ min.$$

Total Time of Concentration for the watershed is

$$T_{c\ watershed} = 11.2 = 19.5 = 30.7\ min. = 0.512\ hours$$

Select a representative Runoff Curve Number.

Vegetation: Woods
HSG: C
Hydrologic Condition: Fair

From **Table 3–3**, choose CN = 73

Compute the direct runoff (**Equation 3–23**), or use **Figure 3–17**.

$$Q_d = \frac{\left(2.8 - \left(\frac{200}{73}\right) + 2\right)^2}{2.8 + \left(\frac{800}{73}\right) - 8} = 0.74\ inches$$

Channel seepage was observed, so transmission losses are neglected.

The unit peak discharge is given by **Equation 3–22**, or may be obtained directly from **Figure 3–18**.

Since T_c = 0.512 hours > 0.5 hours, **Equation 3–22** reduces to

$q_u = (0.543)\ T_c^{-.812}$
$q_u = (0.543)\ (0.512)^{-.812}$
$q_u = 0.94\ cfs/ac–in$

The design frequency peak flow is given by **Equation 3–24**.

$Q_p = (3000)\ (0.74)\ (0.94)$
$\underline{Q_p = 2087\ cfs}$

Since the calculated Q_p is more than 20% different than the estimated Q_p, the time of concentration for the stream hydraulic reach should be revised.

$$Q_{velocity} = 2/3\ (2087) = 1398\ cfs$$

For the same channel geometry, V = 13.3 ft./sec.

$$T_{c\ stream\ hydraulic} = \left(\frac{14{,}500\ ft.}{13.3\ ft./\text{sec.}}\right)\frac{1}{60} = 18.2\ min.$$

$$T_{c\ watershed} = 11.2 = 18.2 = 29.4\ min. = 0.490\ hours$$

q_u = 0.97 cfs/ac–in

Q_p = (3000) (0.74) (0.97)
Q_p = 2153 *cfs*

This peak flow is within 10% of the Q_p used to estimate channel flow velocity, so no further iterations are required.

The peak flow calculated using the simplified peak flow method is somewhat larger than the estimated peak flow using the USGS small basin regression equation. Remember that the USGS equation is valid for the entire state, regardless of vegetation or elevation. Since we have used a runoff Curve Number to model the runoff response of this watershed, the Q_p calculated by the simplified peak flow method is probably better. Also, the observed channel seepage suggests using the higher peak flow value. Use Q_p = 2153 cfs for design.

3.3.4 *USGS Regression Equations for New Mexico*

Stream gage data and associated rainfall data from sites around New Mexico have been compiled by the United States Geological Survey (USGS) (Waltemeyer, 1986; Thomas and Gold, 1982). These watersheds were evaluated to find basin and climatic characteristics which are statistically significant in predicting peak flow rates at the stream gages. Regression equations were developed which predict the peak rate of runoff from watersheds within certain physiographic regions of New Mexico for different return period events.

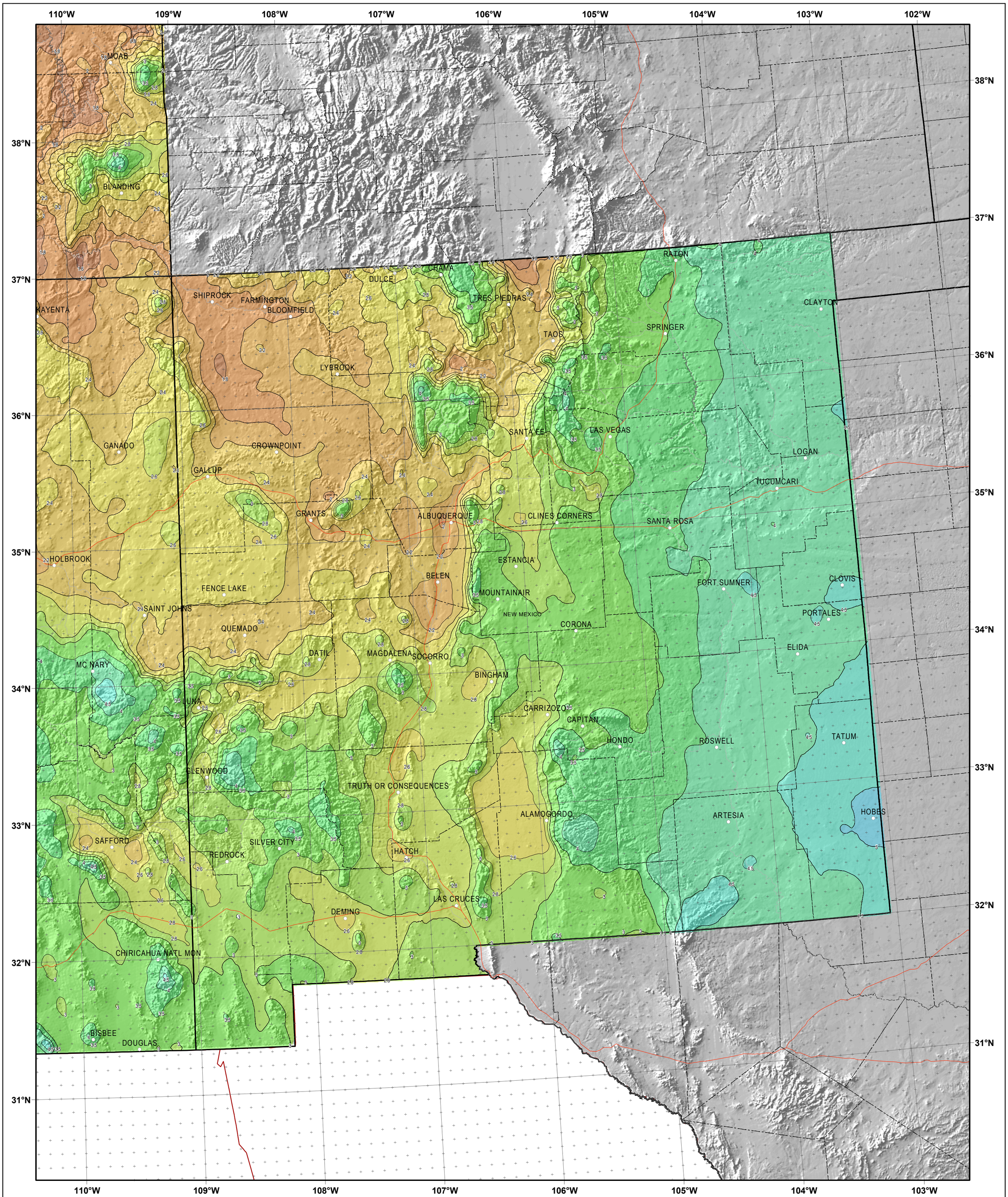
The most recent set of USGS regression equations for New Mexico (Waltemeyer, 1996) were developed using 201 gaging stations, the majority of which are in New Mexico. Flood discharges for selected exceedance probabilities were determined for each streamflow gaging station. Logarithms of annual peak flows were fitted to a log Pearson Type III probability distribution to develop flood frequency curves according to standard techniques (Interagency Advisory Committee on Water Data, 1982). New Mexico was divided into eight physiographic regions, yielding regression equations with the best data fit. **Figure 3–20** shows the eight regions within New Mexico. The NMSHTD has selected these equations for predicting peak rates of runoff for larger NMSHTD drainage basins (see ***Section 3.2***). These USGS regression equations may be used in rural areas, or in urban areas as described in ***Section 3.3.4.2***. The USGS regression equations are also the preferred hydrologic analysis method when sizing drainage structures for perennial streams.

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: LANDFILL ENGINEERING CALCULATIONS
SECTION 8: DRAINAGE CALCULATIONS

ATTACHMENT III.3.B

U.S. DEPT. OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE OFFICE OF HYDROLOGIC DEVELOPMENT HYDROMETEOROLOGICAL DESIGN STUDIES CENTER, JUNE 2006, NOAA ATLAS 14, VOLUME 1, VERSION 4 SEMIARID SOUTHWESTERN UNITED STATES, NEW MEXICO, ISOPLUVIALS OF 24 HOUR PRECIPITATION (INCHES) WITH AVERAGE RECURRENCE INTERVAL OF 25 YEARS.



NEW MEXICO

NOAA Atlas 14, Volume 1, Version 4
Semiarid Southwestern United States

Prepared by U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE
OFFICE OF HYDROLOGIC DEVELOPMENT
HYDROMETEOROLOGICAL DESIGN STUDIES CENTER
June 2006

SCALE 1:2,000,000
(when printed/viewed at ANSI C size)
0 10 20 30 40 50 Miles
0 5 10 20 30 40 50 60 70 Kilometers

Isopluvials of 24 hour precipitation (inches) with Average Recurrence Interval of 25 years

See NOAA Atlas 14 documentation for factors to convert to Annual Exceedance Probabilities for all estimates below 25 years

N

Inches

1.25 - 1.40	2.21 - 2.40	3.51 - 4.00	7.01 - 8.00	12.01 - 13.00
1.41 - 1.60	2.41 - 2.60	4.01 - 4.50	8.01 - 9.00	13.01 - 14.00
1.61 - 1.80	2.61 - 2.80	4.51 - 5.00	9.01 - 10.00	14.01 - 15.00
1.81 - 2.00	2.81 - 3.00	5.01 - 6.00	10.01 - 11.00	
2.01 - 2.20	3.01 - 3.50	6.01 - 7.00	11.01 - 12.00	

Projection: Lambert Conformal Conic; Datum NAD83; Standard Parallels: 38˚ and 45˚; Central Meridian 112˚.

Figure E-8

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 4: HELP MODEL

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DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 4: HELP MODEL

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APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

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SECTION 4: HELP MODEL

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APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 4: HELP MODEL

1.0 INTRODUCTION

DNCS Environmental Solutions (DNCS Facility) is a proposed Surface Waste Management Facility for oil field waste processing and disposal services. The proposed DNCS Facility is subject to regulation under the New Mexico Oil and Gas Rules, specifically 19.15.36 NMAC, administered by the Oil Conservation Division (OCD). The Facility has been designed in compliance with 19.15.36 NMAC, and will be constructed and operated in compliance with a Surface Waste Management Facility Permit issued by the OCD. The Facility is owned by, and will be constructed and operated by, DNCS Properties, LLC.

1.1 Description

The DNCS site is comprised of a 562-acre ± tract of land located south of NM 529 in portions of Section 31, Township 17 South, Range 33 East; and in the northern half of Section 6, Township 18 South, Range 33 East, Lea County, NM. A portion of the 562-acre tract is a drainage feature that will be excluded from development. The drainage feature includes a 500-ft setback and totals 67 acres ±. The DNCS Facility will include two main components; a liquid oil field waste Processing Area (177 acres ±), and an oil field waste Landfill (318 acres ±); therefore the DNCS Facility comprises 495 acres ±. Oil field wastes are anticipated to be delivered to the DNCS Facility from oil and gas exploration and production operations in southeastern NM and west Texas. The Site Development Plan provided in the **Permit Plans, Sheet 3**, identifies the locations of the Processing Area and Landfill facilities.

2.0 DESIGN CRITERIA

An alternate design for the DNCS Environmental Solutions Surface Waste Management Facility (DNCS Facility) liner system that includes the use of soils augmented by additional geosynthetics and geocomposites is proposed. In addition, an alternate design is proposed for the final cover system at the DNCS Facility; a prescriptive cover for the crown of the landfill (e.g., 150 acres ±), and an alternate evapotranspiration (ET) cover using on-site soils for the

4H:1V side slopes of the cover (e.g., 87.2 acres ±). The alternative liner and cover are designed to meet the requirements of the New Mexico Oil Conservation Division (OCD) 19.15.36.14(C) NMAC. If an alternate liner design and alternate final cover design using geosynthetics or geocomposites is proposed, 19.15.36.14(C)(9) NMAC requires:

> *"Alternatively, the operator my propose a performance-based landfill design system using geosynthetics or geocomposites, including geogrids, geosynthetics clay liners, composite liner systems, etc., when supported by EPA's "hydrologic evaluation of landfill performance" (HELP) model or other division-approved model. The operator shall design the landfill to prevent the "bathtub effect". The bathtub effect occurs when a more permeable cover is placed over a less permeable bottom liner or natural subsoil."*

and further, 19.15.36.14(C)(F) NMAC specifies that:

> *"The leachate collection and removal system protective layer and soil component of the leak detection system shall consist of soil materials that shall be free of organic matter, shall have a portion of material passing the no. 200 sieve no greater than five percent by weight and shall have a uniformity coefficient (Cu) less than 6, where Cu is defined as D60/D10. Geosynthetic materials or geocomposites including geonets and geotextiles, if used as components of the leachate collection and removal or leak detection system, shall have a hydraulic conductivity, transmissivity and chemical and physical qualities that oil field waste placement, equipment operation or leachate generation will not adversely affect. These geosynthetics or geocomposites, if used in conjunction with the soil protective cover for liners, shall have a hydraulic conductivity designed to ensure that the liner's hydraulic head never exceeds one foot."*

3.0 PURPOSE

This document presents the results of modeling conducted using the United States Environmental Protection Agency (USEPA) Hydrologic Evaluation of Landfill Performance (HELP) Model. The Model was used to evaluate the performance of the alternate liner design and to demonstrate that this design will perform as well as or better than the prescriptive liner design presented in 19.15.36.14(C) NMAC. This document presents the results of modeling conducted using HELP to evaluate the performance of the alternate final cover system so as to not create a "bathtub" effect in the landfill in which the percolation through the alternate final cover does not exceed that of the alternate liner system. This document also presents a formal request for OCD approval for the DNCS Facility to use the alternate liner and final cover designs; and to allow the use of alternate soil gradation permeability specifications when selecting soils for construction of the protective soil layer (PSL) in the liner system. The

remainder of this document is organized as follows:

- Section 3 presents the methodology in this demonstration.
- Section 4 presents an overview of the demonstration modeling for the alternate liner and final cover designs.
- Section 5 presents a discussion of HELP model simulation analyses for the:
    - Tier I demonstration for the alternate liner system
    - Tier I demonstration for the alternate final cover system
    - Tier II demonstration for the alternate liner system
- Section 6 presents the conclusions drawn from this demonstration modeling and the request for approval for the use of the alternate liner and final cover designs and alternate soil specifications.

The primary objectives of the design approach include sustainability, in which the constructed elements are comprised principally of on-site materials. For instance, the surface soils provide ample supplies of "dune sands", which are an ideal material for the PSL.

4.0 HELP MODEL METHODOLOGY

The methodology used to demonstrate that the performance of the alternate liner system meets the performance of the prescriptive liner system outlined in 19.15.36.14(C) NMAC was based on the procedures developed by the New Mexico Environment Department (NMED), Solid Waste Bureau (SWB) [Guidance Documents].

The following Guidance Documents are provided in **Attachment III.4.C**:

- *Performance Demonstration for an Alternate Cover Design Under Section 502.A.2 of the New Mexico Solid Waste Management Regulations (20 NMAC 9.1) Using HELP Modeling*, April 1, 1998.
- *Performance Demonstration for an Alternate Liner Design Under Section 306.A.2 of the New Mexico Solid Waste Management Regulations (20 NMAC 9.1) Using HELP Modeling*, April 1, 1998.

NMED Guidance Documents provide a proven and effective means to evaluate liner and cover systems using very conservative assumptions. The demonstrations described below were performed using the Visual HELP Model, Version 2.2 in accordance with 19.15.36.14(C)(9) NMAC.

5.0 OVERVIEW OF DEMONSTRATION MODELING

Gordon Environmental, Inc. (GEI) has prepared performance demonstrations for an alternate landfill liner design and an alternate landfill final cover design. In the proposed alternate liner design, on-site soils are used for the leachate collection layer; a geonet is used as the leak detection layer; and a flexible membrane liner and geosynthetic clay liner (GCL) are used to replace the prescriptive clay barrier layer. In the proposed alternate final cover design, a prescriptive cover will be used on the 150 acres ± crown; and an alternate ET cover system will be used for the remaining 87.2 acres ± of the final cover with 4H:1V grading.

Because the DNCS Facility is planning to use alternate designs for its liner system and final cover system on the 4H:1V side slopes, the HELP model simulation analyses were organized to support three demonstrations:

- First, demonstrate that the performance of the planned alternate liner system equals or exceeds the performance of the prescriptive liner system (19.15.36.14(C) NMAC). GEI has performed a HELP model simulation analysis for the DNCS Facility that meets the requirements of the Guidance Documents (**Attachment III.4.C**) for a Tier I alternate liner demonstration. This simulation is presented in **Section 5.2**.
- Second, demonstrate that percolation through the alternate final cover system does not create a "bathtub" effect within the landfill. GEI has performed a HELP model simulation analysis for the DNCS Facility that meets the requirements of the Guidance Documents (**Attachment III.4.C**). This simulation is presented in **Section 5.3**.
- Third, demonstrate that the performance of the alternate liner ensures that the uppermost aquifer will be protected. GEI has performed HELP model simulation analyses for the DNCS Facility that meet the requirements of the Guidance Documents (**Attachment III.4.C**) for a Tier II alternate liner demonstration. Those simulations are presented in **Section 5.4**. In addition, the depth to groundwater is greater than 500 ft, as document in **Volume IV.2**.

6.0 HELP MODEL DEMONSTRATION ANALYSES

In each of the following three demonstrations, the input parameters for the HELP model have been selected in accordance with the Guidance Documents (**Attachment III.4.C**).

6.1 Cell Design Parameters

Slope steepness and lateral drainage distance were selected using the design parameters for the DNCS Facility. The longest lateral drainage distances and the shallowest slope were used for the purpose of modeling to obtain conservative results. The base grades in Units 1 - 9 have a

relatively uniform slope and lateral drainage distance of 2.8% and 300 ft., respectively (see **Figure III.4.1**). The alternative side slope final cover system has a slope of 4H:1V, and the longest lateral drainage distance of 100 ft. occurs between the drainage diversion benches on the side slopes (see **Figure III.4.2**). Throughout these analyses, the following design parameters have been used:

- Liner system:
  - lateral drainage distance = 300 ft
  - slope = 2.8%
  - area = 233.7 acres
- Final cover system:
  - lateral drainage distance = 100 ft
  - slope = 25%
  - area = 87.19 acres

The outputs from the HELP model runs, which include a listing of the input parameters, are provided as attachments to this document in both hard copy (**Attachment III.4.A**) and electronic format (**Attachment III.4.D**).

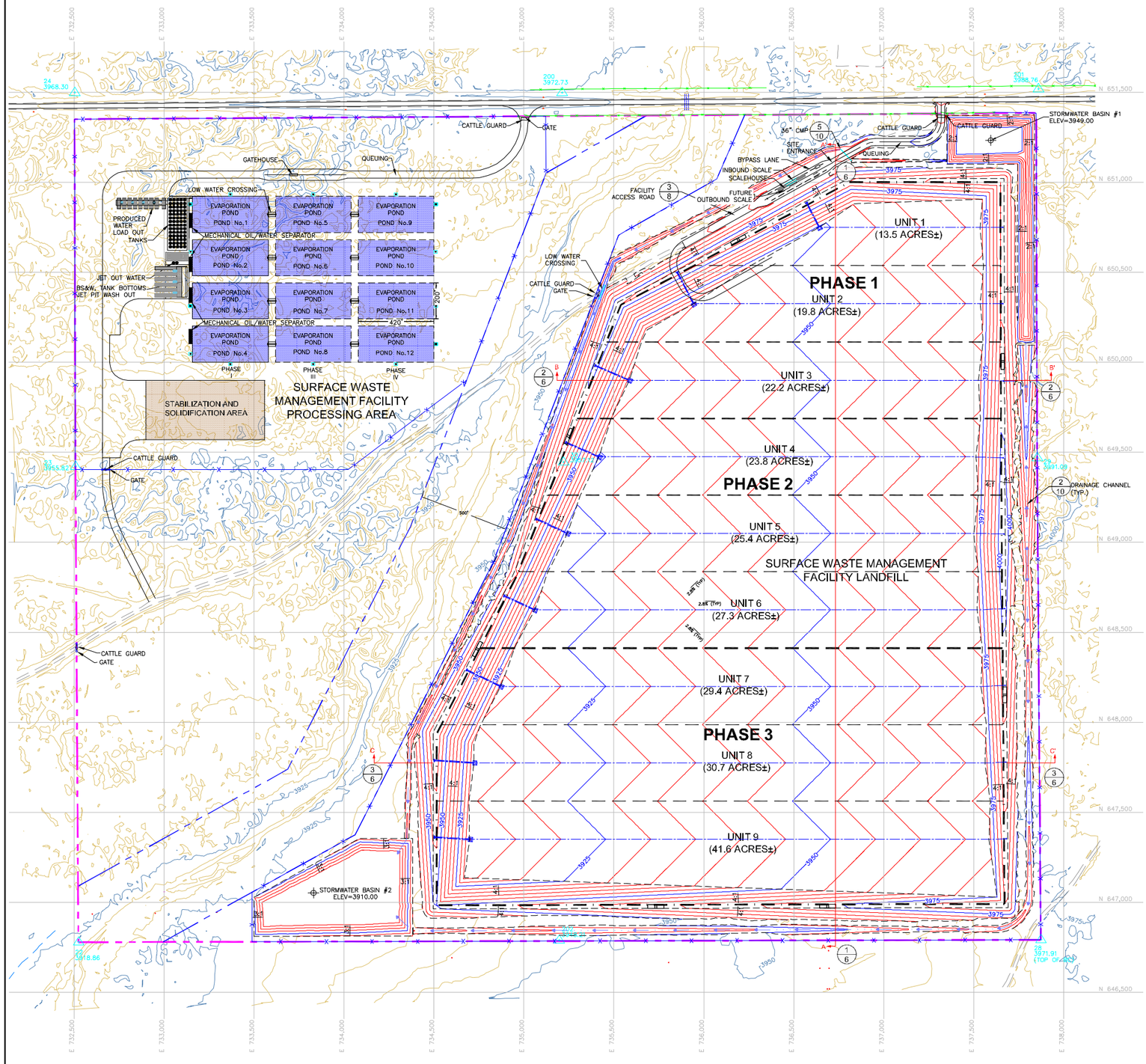
6.2 Tier I Alternate Liner Demonstration

Two HELP model simulation analyses have been performed to support the Tier I liner demonstration. In this demonstration, the performance of the alternate liner design is compared to the performance of the composite liner system prescribed by the regulations. The simulation analyses have been numbered to correspond to the Guidance Documents (**Attachment III.4.C**).

6.2.1 Liner System Design

The prescriptive liner system includes the following layers from the top down:

- 12-in. protective soil layer ($k = 1 \times 10^{-2}$ cm/sec)
- 24-in. leachate collection layer ($k = 1 \times 10^{-2}$ cm/sec)
- 60-mil thick high-density polyethylene (HDPE) flexible membrane liner (FML)
- 24-in. leak detection layer ($k > 1 \times 10^{-5}$ cm/sec)
- 60-mil thick high-density polyethylene (HDPE) FML
- 24-in. compacted clay barrier layer ($k = 1 \times 10^{-7}$ cm/sec)



LEGEND

- SITE BOUNDARY (562 ACRES±)
- WATER FEATURE SETBACK (67 ACRES±)
- LIMIT OF WASTE
- LANDFILL PHASE BOUNDARY
- LANDFILL UNIT BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- 3975 — 25' EXISTING CONTOUR
- 5' EXISTING CONTOUR
- 3975 — 25' DESIGN CONTOUR
- 5' DESIGN COUNTOUR
- TOP/TOE OF SLOPE
- PAVED ROAD AND SHOULDER (NM 529)
- EXISTING UNPAVED ROAD/TRAIL
- PROPOSED FACILITY ACCESS ROAD
- DIRECTION OF STORMWATER FLOW
- LEACHATE COLLECTION SUMP & EXTRACTION RISER PIPES
- 29 3991.09 — SURVEY CONTROL POINT
- EXISTING CULVERT
- NEW CULVERT
- HYDROGEN SULFIDE MONITORING STATION
- ROAD SIGN
- N 650,500 / E 738,000 — SITE GRID
- A A' — CROSS SECTION LOCATION
- 2/6 — DETAIL NUMBER / SHEET NUMBER

SURVEY CONTROL POINT DATA

POINT	NORTHING	EASTING	ELEVATION
22	646780.31	732525.87	3918.86
23	649420.79	732507.95	3955.82
24	651497.01	732502.64	3968.19
28	646792.06	737872.55	3971.24
29	649468.54	737851.84	3991.09
30	649445.19	735219.09	3957.12
200	651498.13	735212.57	3972.73
201	651518.82	737859.97	3988.76
202	646789.93	735196.38	3948.21

NOTES:

1. BASE MAP PROVIDED BY DALLAS AERIAL SURVEYS, INC
2. FIELD SURVEY PROVIDED BY PETTIGREW & ASSOCIATES PA (12/13/2012)
3. DATE OF AERIAL PHOTOGRAPHY: 02-28-2013
4. SITE GRID BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAVD 88.
5. THE DNCS SURFACE WASTE MANAGEMENT FACILITY COMPRISES A TOTAL OF 495 ACRES ± (i.e., the processing area (177 acres ±) and the landfill (318 acres ±).

LANDFILL EXCAVATION AND PERIMETER BERM FILL VOLUMES

CUT VOLUME: 6257969 CUBIC YARDS
FILL VOLUME: 646225 CUBIC YARDS
NET VOLUME: 5611744 CUBIC YARDS <CUT>

NORTH

0 300' 600'

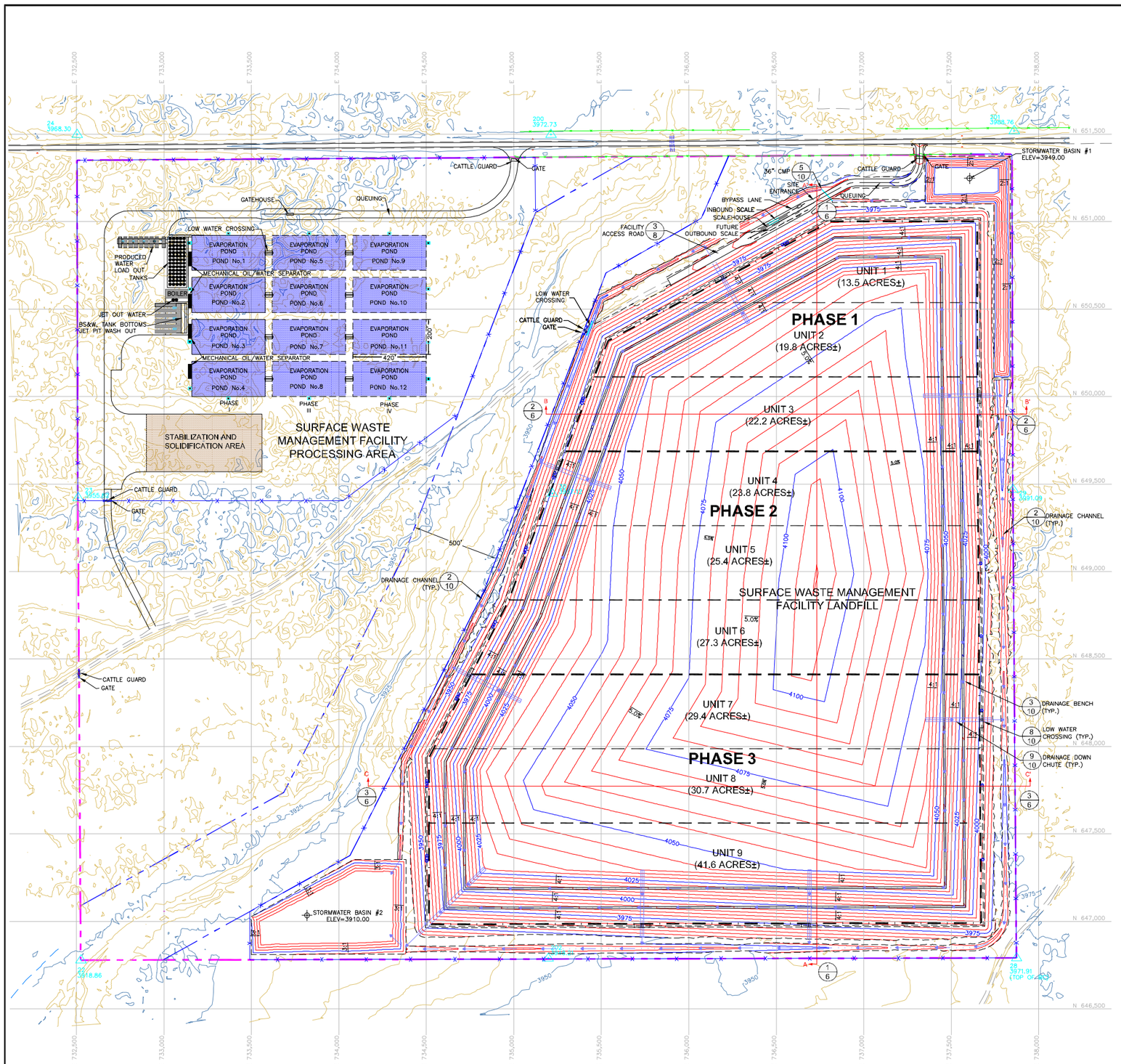
LANDFILL BASE GRADING PLAN

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

DATE: 10/21/2013	CAD: 04 BASE GRADING.dwg	PROJECT #: 542.01.01
DRAWN BY: JMC	REVIEWED BY: MRH	FIGURE III.4.1
APPROVED BY: IKG	gel@gordonenvironmental.com	

NOT FOR CONSTRUCTION
Drawing:P:\acad 2003\542.01.01\PERMIT FIGURES\BASE GRADING.dwg
Date/Time:Nov. 05, 2013-09:38:46; LAYOUT: D (LS)
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LEGEND

- SITE BOUNDARY (562 ACRES±)
- WATER FEATURE SETBACK (67 ACRES±)
- LIMIT OF WASTE
- LANDFILL PHASE BOUNDARY
- LANDFILL UNIT BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
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- LEACHATE EXTRACTION RISER PIPES
- LEACHATE CLEANOUT RISER PIPES
- SURVEY CONTROL POINT
- POWER POLE
- EXISTING CULVERT
- NEW CULVERT
- HYDROGEN SULFIDE MONITORING STATION
- ROAD SIGN
- SITE GRID
- CROSS SECTION LOCATION
- DETAIL NUMBER / SHEET NUMBER

SURVEY CONTROL POINT DATA

POINT	NORTHING	EASTING	ELEVATION
22	646780.31	732525.87	3918.86
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29	649468.54	737851.84	3991.09
30	649445.19	735219.09	3957.12
200	651498.13	735212.57	3972.73
201	651518.82	737859.97	3988.76
202	646789.93	735196.38	3948.21

NOTES:

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5. THE DNCS SURFACE WASTE MANAGEMENT FACILITY COMPRISES A TOTAL OF 495 ACRES ± (i.e., the processing area (177 acres ±) and the landfill (318 acres ±).

LANDFILL VOLUME

GROSS FILL VOLUME: 39,669,880 CUBIC YARDS

NORTH

0 300' 600'

LANDFILL FINAL GRADING PLAN

DNCS ENVIRONMENTAL SOLUTIONS
LEA COUNTY, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

DATE: 10/21/2013	CAD: 05 FINAL GRADING.dwg	PROJECT #: 542.01.01
DRAWN BY: JMC	REVIEWED BY: MRH	FIGURE III.4.2
APPROVED BY: IKG	gei@gordonenvironmental.com	

NOT FOR CONSTRUCTION

Drawings:P:\acad 2003\542.01.01\PERMIT FIGURES\FINAL GRADING.dwg
Date/Time:Nov. 06, 2013-09:42:59; LAYOUT: D (LS)
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The design for the alternate liner system includes the following layers from the top down:

- 24-in. protective/drainage layer using on-site soils ($k \geq 5.2 \times 10^{-4}$ cm/sec)
- Primary FML (60-mil HDPE)
- 200-mil geonet leak detection layer
- Secondary FML (60-mil HDPE)
- Geosynthetic Clay Liner
- Compacted subgrade to 90% Standard Proctor Dry Density

In the proposed alternate liner design, on-site soils are used for the leachate collection layer; a geonet is used as the leak detection layer; and a flexible membrane liner and geosynthetic clay liner (GCL) are used to replace the prescribed clay barrier layer.

6.2.2 HELP Model Input Parameters

6.2.2.1 Soils

19.15.36.14(F) NMAC requires that the protective drainage layer be constructed using granular soils that contain no more than 5% fines by weight (e.g., material passing a No. 200 sieve) and that have a uniformity coefficient less than 6.0.

As part of the design for the alternate liner system, DNCS Properties proposes to use on-site soils in the protective/drainage layer that may have a fines content greater than 5%.

Geotechnical analyses of on-site soils indicate that the soils available at the DNCS Facility site consist primarily of a mixture of sand with varying amounts of fines and clay (SP, poorly graded sand and SC, clayey sand) and that they meet the proposed criteria for the protective soil layer. **Attachment III.4.B** provides a summary of geotechnical test results. The on-site soil that DNCS Properties proposes to use when it constructs the protective soil layer is within the range of soil type used in this modeling based on the sieve analyses conducted on on-site soils (**Attachment III.4.B**). The type of soil used to represent the protective soil layer in the simulation for the Tier I liner demonstration is listed below:

Soil Description	HELP Model Soil Type	USCS Soil Type
Silty Sand	7	SM

It is anticipated, that as on-site soil is excavated, the resulting mixture of soils will be best represented by the USCS classification SM, silty sand. Waste layers will also be modeled as soil type SM due to the anticipated origin of the waste from the on-site processing area and direct deliveries of contaminated soil.

The primary parameters that differentiate soils from one another are the saturated hydraulic conductivity, K_{sat}, and the moisture-retention characteristics which are related to the field capacity and the wilting point. As the HELP model soil type number increases, the saturated hydraulic conductivity decreases, and the soils tend to retain more water and hold it more strongly. Default values from the HELP model were assigned to the porosity, field capacity, wilting point, and K_{sat} for each layer material type.

6.2.2.2 Environmental

All of the simulation analyses for the Tier I alternate liner demonstration were performed using identical environmental loading conditions. Precipitation and temperature data were derived from the National Climatic Data Center's Summary of the Day database. The nearest station location with sufficient data is El Paso, Texas (412797).

The Tier I simulations use data from 2004 through 2008, the wettest five consecutive year period from the most recent forty-year period for which complete records existed at the time these simulations were performed. Solar radiation data were synthetically generated by the HELP model based on coefficients for El Paso, Texas, and on the latitude of the site (e.g., 32.78°). Evapotranspiration data (e.g., average wind speed and seasonal relative humidity) were also obtained from El Paso, Texas. The evaporative zone depth was set to 18 inches for bare soil; and the maximum leaf area index was set to 0.0 for no vegetation.

6.2.2.3 Initial Conditions

In each of the Tier I liner simulation analyses, the initial moisture content for each material in the liner systems was calculated using the equation suggested by the NMED Guidance Documents:

$$\theta_i = \theta_{wp} + 0.25\left(\theta_{fc} - \theta_{wp}\right) \quad (2)$$

Where:

θ_i = the initial water content
θ_{wp} = the wilting point
θ_{fc} = the field capacity.

6.2.3 Tier I Prescriptive and Alternate Liner Simulation Analyses

In each of the Tier I liner simulation analyses, the landfill has conservatively been assumed to be in an open condition with no waste present. All precipitation is retained within the landfill; there is no runoff. The FML was represented by using the default parameters for soil type 35 from the HELP model. The clay barrier layer in the prescriptive liner system was represented by using the default parameters for HELP soil type 16. The GCL and compacted native soil layer in the alternate liner system was represented by using the default parameters for HELP soil type 17 with a permeability of 3.0×10^{-9} cm/sec.

The first Tier I simulation analysis (Simulation 5-1) is based on Simulation 5 of the Guidance Documents (**Attachment III.4.C**). This analysis evaluates the performance of the composite liner system prescribed by the regulations (19.15.36.14 (C) NMAC). The input parameters used to represent the prescriptive liner system are provided in **Table III.4.1**. The landfill was modeled as "active" with 0% of the surface area available for stormwater runoff.

The second Tier I simulation analysis (Simulation 6-1) is based on Simulation 6 of the Guidance Documents. This analysis evaluates the performance of the alternate liner system design. The input parameters used to represent the alternate liner system are provided in **Table III.4.2**.

6.2.4 Tier I Alternate Liner Demonstration Results

According to the Guidance Documents, an alternate liner system is considered acceptable under the Tier I conditions if its performance has been demonstrated to be equal to or better than the performance of the prescriptive liner system. The performance measure is the average annual rate of percolation through the bottom of the liner system and the head upon the liner. Performance is evaluated by comparing the percolation rates calculated using the HELP model. The average annual percolation rates calculated for the two liner systems are summarized in **Table III.4.3**.

TABLE III.4.1
Tier I, Simulation 5-1: Prescriptive Liner System
DNCS Environmental Solutions

Simulation	Protective/Drainage Soil Layer			FML			Leak Detection Layer			FML			Barrier Layer		
	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)	HELP Model Soil Type	FML	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)	HELP Model Soil Type	FML	K_{sat} (cm/s)	HELP Model Soil Type	Barrier Layer	K_{sat} (cm/s)
5-1	1	36	1.0×10^{-2}	35	60-mil HDPE	2.0×10^{-13}	7	24	1.0×10^{-5}	35	60-mil HDPE	2.0×10^{-13}	16	24-in Clay	1.0×10^{-7}

TABLE III.4.2
Tier I, Simulation 6-1: Alternative Liner System
DNCS Environmental Solutions

Simulation	Protective/Drainage Soil Layer			FML			Geonet			FML			GCL		
	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Primary FML	K_{sat} (cm/s)	HELP Model Soil Type	Drainage Layer (in)	K_{sat} (cm/s)	HELP Model Soil Type	Secondary FML	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)
6-1	7	24	5.2×10^{-4}	35	60-mil HDPE	2.0×10^{-13}	20	0.20	10	35	60-mil HDPE	2.0×10^{-13}	17	6	3.0×10^{-9}

TABLE III.4.3
Tier I, Performance Results for Prescriptive and Alternate Liner Systems
DNCS Environmental Solutions

Liner System	Simulation	Soil Type for Protective Soil Layer	Average Annual Percolation Rate Through Bottom Liner (in/yr)	Average Annual Head on Primary HDPE Liner (in)
Prescriptive	5-1	1	0.00000	2.03
Alternate	6-1	7	0.00000	4.93

For the soil type analyzed, the average annual percolation rate calculated for the alternate liner system design is equal to that calculated for the prescriptive liner system; and the hydraulic head on the FML is less than the regulatory standard of 12 inches. This simulation demonstrates that, for on-site soils available for use as protective soil layer, the alternate liner system design provides performance that meets that of the prescriptive liner system. Therefore, the alternate liner system design meets the Tier I demonstration requirements.

6.3 Tier I Alternative Final Cover Demonstration

One HELP model simulation analysis has been performed to support the Tier I alternative final cover demonstration. In this demonstration, the performance of the alternative final cover system is compared to the performance of the alternate liner system analyzed in Simulation 6-1. The alternative final cover must achieve equivalent reduction of infiltration as the bottom liner as to not to create a "bathtub" effect where percolation though the alternate final cover does not exceed that of the alternate liner system. The simulation analysis (Simulation 3-1) is based on Simulation 3 in the Guidance Documents (**Attachment III.4.C**).

6.3.1 Alternate Final Cover System Design

The alternate final cover system includes the following layers from the top down:

- 12-in. erosion/vegetative layer
- 24-in. infiltration layer
- 12-in. intermediate soil cover layer

6.3.2 HELP Model Input Parameters

6.3.2.1 Soils

The type soil type that was used to represent the erosion/vegetative, infiltration, and intermediate cover layers in the simulation for the alternate final cover demonstration is listed below.

Soil Description	HELP Model Soil Type	USCS Soil Type
Silty Sand	7	SM

Default values from the HELP model were assigned to the porosity, field capacity, wilting point, and K_{sat} for this soil type.

The HELP model automatically accounts for the effects of root channels and decay whenever vegetation is assumed to be present on the surface layer. The model multiplied the saturated hydraulic conductivity by a factor of 1.6 to account for these potential effects in the top half of the evaporative zone.

6.3.2.2 Environmental

For the Tier I final cover simulation analysis, the environmental loading conditions listed below were the same as those used in Simulation 6-1:

- precipitation (2004 through 2008)
- temperature (2004 through 2008)
- solar radiation
- evapotranspiration.

The evaporative zone depth for the cover system was set to 28 inches and the maximum leaf area index was set to 0.8. Vegetation on the cover was modeled as “poor stand of grass”.

6.3.2.3 Initial Conditions

The initial moisture contents for the alternate final cover system were calculated using Equation (2).

6.3.3 Alternate Final Cover Simulation Analysis

This simulation analysis (Simulation 3-1) is based on Simulation 3 of the Guidance Documents (**Attachment III.4.C**). This analysis evaluates the performance of the alternate final cover system as to not create a "bathtub" effect in the landfill where the percolation through the alternate final cover does not exceed that of the alternative liner system. The input parameters used to represent the alternate final cover system are provided in **Table III.4.4**. In the simulation analysis for the alternative final cover, the landfill has been assumed to be in a closed condition with 100% of the surface area available for stormwater runoff.

TABLE III.4.4
Tier I, Simulation 3-1: Alternate Final Cover System
DNCS Environmental Solutions

Simulation	Erosion/Vegetative Layer			Infiltration Layer			Intermediate Soil Cover		
	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)
3-1	7	12	5.2×10^{-4}	7	24	5.2×10^{-4}	7	12	5.2×10^{-4}

6.3.4 Tier I Alternate Cover Demonstration Results

According to the Guidance Documents (**Attachment III.4.C**), an alternate cover system is considered acceptable if its performance has been demonstrated to be equal to or better than the performance of the alternate liner system. The performance measure is the average annual rate of percolation through the bottom layer of the liner and cover system. Performance is evaluated by comparing the percolation rate calculated for the alternate cover system to that calculated for the alternate liner system. The average annual percolation rates calculated for

the two systems are summarized in **Table III.4.5**.

TABLE III.4.5
Tier I, Performance Results for Alternate Liner and Alternate Final Cover Systems
DNCS Environmental Solutions

System	Simulation	HELP Model Soil Type		Average Annual Percolation Rate (in/yr)
		Protective Drainage Layer	Infiltration Layer	
Alternate Final Cover	3-1	—	7	0.00005
Alternate Liner	6-1	7	—	0.00000

When the alternate cover system infiltration layer is modeled using HELP model soil type 7 the calculated percolation rate of 0.00005 in/year is well within modeling uncertainty (e.g., $\sigma = 0.0001$). The rate of percolation calculated for the alternate final cover system is essentially equivalent to the percolation rate calculated for the alternate liner system. Therefore, the performance of the alternate final cover system design using soil type 7 meets the Tier I demonstration requirements.

6.4 Tier II Alternate Liner and Alternate Final Cover Demonstration

Four HELP model simulation analyses (Simulations 7-1 through 10-1) based on Simulations 7 through 10 of the Guidance Documents (**Attachment III.4.C**) have been performed to support the Tier II liner and cover demonstration. In this demonstration, the performance of the complete liner and cover systems is evaluated to ensure that the uppermost aquifer will be protected. The evaluation is based on the results of a series of simulations that represent hypothetical operating conditions over the life of a landfill.

6.4.1 Liner and Cover System Design

The alternate cover and liner systems include the following layers from the top down:

- 12-in. erosion/vegetative layer
- 24-in. infiltration layer
- 12-in. intermediate cover
- Waste (thickness varies)
- 24-in. protective soil layer
- 60-mil HDPE Liner
- 200-mil geonet
- 60-mil HDPE Liner
- Geosynthetic Clay Liner
- Compacted Subgrade

Note that not all layers are present in every simulation.

6.4.2 HELP Model Input Parameters

6.4.2.1 Soils

The type of soil that was used to represent the erosion/vegetative, infiltration, intermediate cover, and protective soil layers in the simulations for the Tier II demonstration is listed below.

Soil Description	HELP Model Soil Type	USCS Soil Type
Silty Sand	7	SM

Default values from the HELP model were assigned to the porosity, field capacity, wilting point, and K_{sat} for this soil type.

6.4.2.2 Environmental

Precipitation and temperature data were derived from the National Climatic Data Center for 1982 through 2012. Various portions of the climate data sets were used in each simulation as described in **Table III.4.6**.

TABLE III.4.6
Tier II, Climate Data
DNCS Environmental Solutions

Simulation	Description of Climate Data	Period
7-1	First two of the five wettest years	2004 – 2005
8-1	Five wettest years	2004 – 2008
9-1	First two of the thirty years	1982 – 1983
10-1	Final twenty-eight of the thirty years	1984 – 2012

The evaporative zone depth, the maximum leaf area index and the type of vegetation on the surface varied from one simulation to the next. The parameters used for each HELP model simulation are listed in **Table III.4.7**.

TABLE III.4.7
Tier II, Evaporative Zone Depth,
Maximum Leaf Area Index and Type of Vegetation
DNCS Environmental Solutions

Simulation	Evaporative Zone Depth (in)	Maximum Leaf Area Index	Type of Vegetation
7-1	18	0.0	Bare ground
8-1	18	0.0	Bare ground
9-1	18	0.0	Bare ground
10-1	28	0.8	Poor stand of grass

6.4.2.3 Initial Conditions

The initial moisture contents for Simulations 7-1 through 10-1 were calculated using Equation (2) or were taken from the moisture-content output from the previous simulation in the sequence. The methods used to select the initial moisture conditions for each layer for each simulation are listed in **Table III.4.8**.

TABLE III.4.8
Tier II, Methods Used to Establish Initial Moisture Conditions
DNCS Environmental Solutions

Simulation	Layers	Method
7-1	24-in. protective drainage layer	Equation (2)
	Primary FML (60-mil HDPE)	
	200-mil geonet	
	Secondary FML (60-mil HDPE)	
	GCL and compacted Subgrade	
8-1	12-in. intermediate cover layer	Equation (2)
	30-ft waste layer	
	24-in. protective drainage layer	Output from Simulation 7
	Primary FML (60-mil HDPE)	
	200-mil geonet	
	Secondary FML (60-mil HDPE)	
	GCL and compacted Subgrade	
9-1	12-in. erosion/vegetative layer	Equation (2)
	24-in. infiltration layer	
	12-in. intermediate cover 59-ft waste layer	Output from Simulation 8
	24-in. protective drainage layer	
	Primary FML (60-mil HDPE)	
	200-mil geonet	
	Secondary FML (60-mil HDPE)	
	GCL and compacted Subgrade	
10-1	12-in. erosion/vegetative layer	Output from Simulation 9
	24-in. infiltration layer 12-in. intermediate cover	
	59-ft waste layer	
	24-in. protective drainage layer	
	Primary FML (60-mil HDPE)	
	200-mil geonet	
	SecondaryFML (60-mil HDPE)	
	GCL and compacted Subgrade	

6.4.3 Tier II Alternate Liner and Cover Simulation Analyses

Four stages of landfill operations, numbered to correspond with the Guidance Documents (**Attachment III.4.C**), were simulated to satisfy the Tier II demonstration requirements:

- Simulation 7-1: open conditions for a two-year start-up period, when the landfill contains no waste.

- Simulation 8-1: partially filled conditions for five years, with intermediate cover.
- Simulation 9-1: closed conditions with bare ground for the initial two-year post-closure care period.
- Simulation 10-1: closed conditions with poor vegetation for the remaining twenty-eight years of the post-closure care period.

6.4.3.1 Simulation 7-1, Open Landfill, No Waste

Simulation 7-1 models the landfill in an open condition over a two-year start-up period. This condition is based on the assumptions that no waste is present in the landfill and that the liner system is fully exposed to the weather. The model included the following layers from the top down:

- 24-in. protective soil layer
- Primary 60-mil HDPE Liner
- 200-mil geonet
- Secondary 60-mil HDPE Liner
- GCL and compacted subgrade

The input parameters used to represent the layer configuration for Simulation 7-1 are listed in **Table III.4.9**. The landfill was modeled as "active" with 0% of the surface area available for stormwater runoff.

6.4.3.2 Simulation 8-1, Partially Filled Landfill

Simulation 8-1 models the landfill under partially filled conditions with intermediate cover for a five-year period. The model included the following layers from the top down:

- 12-in. intermediate cover layer
- 30-ft waste layer
- 24-in. protective soil layer
- Primary 60-mil HDPE Liner
- 200-mil geonet
- Secondary 60-mil HDPE Liner
- GCL and compacted subgrade

The input parameters used to represent the layer configuration for Simulation 8-1 are listed in **Table III.4.10**. The landfill was modeled as "active" with 0% of the surface area available for stormwater runoff.

TABLE III.4.9
Tier II, Simulation 7-1: Open Landfill, No Waste
DNCS Environmental Solutions

Simulation	Protective/Drainage Soil Layer			FML			Geonet			FML			GCL		
	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Primary FML	K_{sat} (cm/s)	HELP Model Soil Type	Drainage Layer (in)	K_{sat} (cm/s)	HELP Model Soil Type	Secondary FML	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)
7-1	7	24	5.2×10^{-4}	35	60-mil HDPE	2.0×10^{-13}	20	0.20	10	35	60-mil HDPE	2.0×10^{-13}	17	0.25	3.0×10^{-9}

TABLE III.4.10
Tier II, Simulation 8-1: Partially Filled Landfill
DNCS Environmental Solutions

Simulation	Intermediate Cover Layer			Waste Layer			Protective/Drainage Soil Layer			FML			Geonet			FML			GCL		
	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thickness (ft)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Primary FML	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Secondary FML	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thickness (in)	K_{sat} (cm/s)
8-1	7	12	5.2×10^{-4}	7	30	5.2×10^{-4}	7	24	5.2×10^{-4}	35	60-mil HDPE	2.0×10^{-13}	20	0.20	10	35	60-mil HDPE	2.0×10^{-13}	17	0.25	3.0×10^{-9}

6.4.3.3 Simulation 9-1, Closed Landfill, No Cover Vegetation

Simulation 9-1 models the landfill in the closed condition with no cover vegetation for the first two years of the thirty-year post-closure care period. The model included the following layers from the top down:

- 12-in. erosion/vegetative layer
- 24-in. infiltration layer
- 12-in. intermediate cover
- 59-ft waste layer
- 24-in. protective soil layer
- Primary 60-mil HDPE Liner
- 200-mil geonet
- Secondary 60-mil HDPE Liner
- GCL and compacted subgrade

The input parameters used to represent the layer configuration for Simulation 9-1 are listed in **Table III.4.11**. The landfill was modeled as "closed" with 100% of the surface area available for stormwater runoff.

6.4.3.4 Simulation 10-1, Closed Landfill, Partial Cover Vegetation

Simulation 10-1 models the landfill in the closed condition with poor cover vegetation for the final 28 years of the 30-year post-closure care period. The layers included in the model were the same as those for Simulation 9-1:

- 12-in. erosion/vegetative layer
- 24-in. infiltration layer
- 12-in. intermediate cover
- 59-ft waste layer
- 24-in. protective soil layer
- Primary 60-mil HDPE Liner
- 200-mil geonet
- Secondary 60-mil HDPE Liner
- GCL and compacted subgrade

The input parameters used to represent the layer configuration for Simulation 10-1 are listed in **Table III.4.12**. The landfill was modeled as "closed" with 100% of the surface area available for stormwater runoff.

TABLE III.4.11
Tier II, Simulation 9: Closed Landfill, No Cover Vegetation
DNCS Environmental Solutions

Simulation	Erosion/Vegetative Layer			Infiltration Layer			Waste Layer			Protective/Drainage Soil Layer			FML			Geonet			FML			GCL		
	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (ft)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Primary FML	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Secondary FML	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)
9-1	7	12	5.2×10^{-4}	7	24	5.2×10^{-4}	7	59	5.2×10^{-4}	7	24	5.2×10^{-4}	35	60-mil HDPE	2.0×10^{-13}	20	0.20	10	35	60-mil HDPE	2.0×10^{-13}	17	0.25	3.0×10^{-9}

TABLE III.4.12
Tier II, Simulation 10: Closed Landfill, Partial Vegetation
DNCS Environmental Solutions

Simulation	Erosion/Vegetative Layer			Infiltration Layer			Waste Layer			Protective/Drainage Soil Layer			FML			Geonet			FML			GCL		
	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (ft)	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Primary FML	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)	HELP Model Soil Type	Secondary FML	K_{sat} (cm/s)	HELP Model Soil Type	Layer Thick-ness (in)	K_{sat} (cm/s)
10-1	7	12	5.2×10^{-4}	7	24	5.2×10^{-4}	7	59	5.2×10^{-4}	7	24	5.2×10^{-4}	35	60-mil HDPE	2.0×10^{-13}	20	0.20	10	35	60-mil HDPE	2.0×10^{-13}	17	0.25	3.0×10^{-9}

6.4.4 Tier II Alternate Liner and Cover Demonstration Results

According to the Guidance Documents (**Attachment III.4.C**), a combined alternate liner system and alternate cover system is considered acceptable if its performance meets the following Tier II criteria:

Simulation	Performance Criterion
7-1	None
8-1	Percolation rate through the bottom of the liner system should be zero at the end of the simulation.
9-1	Average annual percolation rate through the bottom of the liner system must be zero.
10-1	Average annual percolation rate through the bottom of the liner system must be zero.

The percolation rates calculated for the alternate liner and cover systems modeled in these demonstration analyses are summarized in **Table III.4.13**.

TABLE III.4.13
Tier II, Performance Results
for Alternate Liner and Cover Systems
DNCS Environmental Solutions

Simulation	HELP Model Soil Type			Percolation Rate for Fifth Year (in/yr)	Average Annual Percolation Rate (in/yr)
	Protective Soil Layer	Erosion/Vegetative and Intermediate Cover Layers	Infiltration Layer		
7-1	7	7	13	—	0.00000
8-1				0.00000	0.00000
9-1				—	0.00000
10-1				—	0.00000

The complete landfill, including both the alternate liner system and the alternate cover system, has been modeled using on-site soils in the erosion/vegetative, infiltration, and protective soil layers. The soil types modeled are representative of the soils that exist on the DNCS Facility site and that will be used to construct those layers.

The percolation rate calculated for the fifth year of Simulation 8–1 is zero; the annual average percolation rates calculated for Simulations 9-1 and 10-1 are zero. Therefore, the performance of the alternate liner and cover designs meets the Tier II demonstration requirements for the soil types modeled for the erosion/vegetative, protective soil, and infiltration layers.

7.0 CONCLUSIONS AND REQUEST FOR APPROVAL

DNCS Properties has prepared performance demonstrations for its alternate liner system design and alternate final cover system design. These analyses were based on the Guidance Documents (**Attachment III.4.C**) and the analyses demonstrate the following:

- For the soil type modeled for the protective soil layer in the Tier I alternate liner simulation analysis, the average annual percolation rate calculated for the alternate liner system design is less or equal than that calculated for the prescriptive liner system. This simulation demonstrates that, when on-site soils that meet the 5.2×10^{-4} cm/sec permeability criteria are used to construct the protective soil layer, the alternate liner system design provides performance that is equal to the prescriptive liner system. Therefore, the alternate liner system design meets the Tier I demonstration requirements.
- In the Tier I alternate final cover simulation analysis, when the infiltration layer is modeled using HELP model soil type 7 and a hydraulic conductivity of 5.2×10^{-4} cm/sec, the average annual percolation rate calculated for the alternate final cover system is equivalent to the percolation rate calculated for the alternate liner system. Therefore, for this soil type, the performance of the alternate final cover system design meets the Tier I demonstration requirements.
- In the Tier II simulation analyses, the complete landfill, including both alternate liner and the alternate cover system designs, has been modeled. The erosion/vegetative, infiltration, and protective soil layers were modeled using soil type 7. In this case, the percolation rate calculated for the fifth year of Simulation 8-1 is zero. Also the annual average percolation rate calculated for Simulations 9-1 and 10-1 are zero. Therefore, for the soil types modeled for the erosion/vegetative, infiltration, and protective soil layers, the performance of the alternate liner and cover system designs meets the Tier II demonstration requirements.

The HELP modeling for the analyses presented in this document demonstrates that the performance of the alternate liner and cover system designs meets the requirements of 19.15.36.14(C) NMAC. For the purposes of this demonstration, both the alternate liner design and the alternate cover design have been shown to be effective using soils available on the DNCS Facility site. Sustainability is established by avoiding the hauling of off-site materials; using unnecessary resources (i.e., fuel); and creating impacts on the infrastructure and

environment (i.e., road maintenance and air pollution).

To allow DNCS Environmental Solutions flexibility in using on-site as well as offsite materials to construct the erosion/vegetative layer, the infiltration layer, and the protective soil layer, this document serves as a request to OCD for approval to use the alternate liner and cover system designs and to construct some of those systems using soils that contain greater than 5% fines.

APPLICATION FOR PERMIT
DNCS ENVIRONMENTAL SOLUTIONS

VOLUME III: ENGINEERING DESIGN AND CALCULATIONS
SECTION 4: HELP MODEL

ATTACHMENT III.4.A

HELP MODEL OUTPUT FILES

Attachment A-1
Tier I, Simulation 5-1
Prescriptive Liner, Soil Type 1

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*******************************************************************************
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**                                                                           **
**                                                                           **
**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE                **
**                HELP MODEL VERSION 3.07 (1 November 1997)                  **
**                  DEVELOPED BY ENVIRONMENTAL LABORATORY                    **
**                    USAE WATERWAYS EXPERIMENT STATION                      **
**             FOR USEPA RISK REDUCTION ENGINEERING LABORATORY               **
**                                                                           **
**                                                                           **
*******************************************************************************
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PRECIPITATION DATA FILE:     C:\WHI\VHELP22\data\P5078.VHP\_weather1.dat
TEMPERATURE DATA FILE:       C:\WHI\VHELP22\data\P5078.VHP\_weather2.dat
SOLAR RADIATION DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\_weather3.dat
EVAPOTRANSPIRATION DATA:     C:\WHI\VHELP22\data\P5078.VHP\_weather4.dat
SOIL AND DESIGN DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\I_389853.inp
OUTPUT DATA FILE:            C:\WHI\VHELP22\data\P5078.VHP\O_389853.prt

TIME:  12: 8     DATE:  10/ 2/2013

*******************************************************************************

     TITLE:  Prescriptive Liner S-5

*******************************************************************************

     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
              WERE SPECIFIED BY THE USER.


                                LAYER  1
                                --------

                  TYPE 2 - LATERAL DRAINAGE LAYER
                    MATERIAL TEXTURE NUMBER   1
          THICKNESS                    =     91.44   CM  (36 in.)
          POROSITY                     =      0.4170 VOL/VOL
          FIELD CAPACITY               =      0.0450 VOL/VOL
          WILTING POINT                =      0.0180 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.0248 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.100000000000E-01 CM/SEC
          SLOPE                        =      2.80   PERCENT
          DRAINAGE LENGTH              =     91.4    METERS  (300 ft.)


                                LAYER  2
                                --------

                  TYPE 4 - FLEXIBLE MEMBRANE LINER
                    MATERIAL TEXTURE NUMBER  35
          THICKNESS                    =      0.15   CM  (0.06 in.)
          POROSITY                     =      0.0000 VOL/VOL
          FIELD CAPACITY               =      0.0000 VOL/VOL
          WILTING POINT                =      0.0000 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.0000 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.200000000000E-12 CM/SEC
          FML PINHOLE DENSITY          =      2.47   HOLES/HECTARE  (1 hole/acre)
          FML INSTALLATION DEFECTS     =      9.88   HOLES/HECTARE  (4 hole/acre)
          FML PLACEMENT QUALITY        =  3 - GOOD
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LAYER 3

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 7

THICKNESS	=	60.96	CM (24 in.)
POROSITY	=	0.4730	VOL/VOL
FIELD CAPACITY	=	0.2220	VOL/VOL
WILTING POINT	=	0.1040	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1335	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000000000E-04	CM/SEC
SLOPE	=	2.80	PERCENT
DRAINAGE LENGTH	=	91.4	METERS (300 ft.)

LAYER 4

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.10	CM
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.200000000000E-12	CM/SEC
FML PINHOLE DENSITY	=	2.47	HOLES/HECTARE (1 hole/acre)
FML INSTALLATION DEFECTS	=	9.88	HOLES/HECTARE (4 hole/acre)
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 5

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 16

THICKNESS	=	60.96	CM (24 in.)
POROSITY	=	0.4270	VOL/VOL
FIELD CAPACITY	=	0.4180	VOL/VOL
WILTING POINT	=	0.3670	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4270	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000000000E-06	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE # 1 WITH BARE GROUND CONDITIONS, A SURFACE SLOPE OF 2.8% AND A SLOPE LENGTH OF 91. METERS (300 ft.)

SCS RUNOFF CURVE NUMBER	=	80.05	
FRACTION OF AREA ALLOWING RUNOFF	=	0.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	94.5750	HECTARES (233.7 acres)
EVAPORATIVE ZONE DEPTH	=	45.7	CM
INITIAL WATER IN EVAPORATIVE ZONE	=	1.134	CM (0.45 in.)
UPPER LIMIT OF EVAPORATIVE STORAGE	=	19.065	CM (7.51 in.)
LOWER LIMIT OF EVAPORATIVE STORAGE	=	0.823	CM (0.32 in.)
INITIAL SNOW WATER	=	0.000	CM (0.00 in.)
INITIAL WATER IN LAYER MATERIALS	=	36.436	CM (14.34 in.)
TOTAL INITIAL WATER	=	36.436	CM (14.34 in.)
TOTAL SUBSURFACE INFLOW	=	0.00	MM/YR (0.00 in./yr)

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
El PASO TX

STATION LATITUDE	=	31.85 DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00
START OF GROWING SEASON (JULIAN DATE)	=	66
END OF GROWING SEASON (JULIAN DATE)	=	315
EVAPORATIVE ZONE DEPTH	=	18.0 INCHES
AVERAGE ANNUAL WIND SPEED	=	9.20 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	40.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	27.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	46.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	48.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.60	0.52	0.18	0.30	0.73	0.44
2.39	3.48	2.38	0.58	0.66	0.23

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
46.40	50.30	58.30	65.60	75.00	83.20
83.00	80.10	74.60	65.80	54.30	45.80

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR DNCS NM
AND STATION LATITUDE = 32.78 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

****

DAILY OUTPUT FOR YEAR 1

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
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1	0.00	0.000	0.007	0.0244	0.0000	0.000	0.000	0.0000	0.000	0.000
2	0.00	0.000	0.007	0.0240	0.0000	0.000	0.000	0.0000	0.000	0.000
3	0.00	0.000	0.007	0.0237	0.0000	0.000	0.000	0.0000	0.000	0.000
4	0.00	0.000	0.007	0.0233	0.0000	0.000	0.000	0.0000	0.000	0.000
5	0.00	0.000	0.007	0.0229	0.0000	0.000	0.000	0.0000	0.000	0.000
6	0.00	0.000	0.007	0.0225	0.0000	0.000	0.000	0.0000	0.000	0.000
7	0.00	0.000	0.007	0.0222	0.0000	0.000	0.000	0.0000	0.000	0.000
8	0.00	0.000	0.007	0.0218	0.0000	0.000	0.000	0.0000	0.000	0.000
9	0.00	0.000	0.007	0.0214	0.0000	0.000	0.000	0.0000	0.000	0.000
10	0.00	0.000	0.007	0.0211	0.0000	0.000	0.000	0.0000	0.000	0.000
11	0.00	0.000	0.007	0.0207	0.0000	0.000	0.000	0.0000	0.000	0.000
12	0.00	0.000	0.006	0.0204	0.0000	0.000	0.000	0.0000	0.000	0.000
13	0.00	0.000	0.006	0.0200	0.0000	0.000	0.000	0.0000	0.000	0.000
14	0.00	0.000	0.006	0.0196	0.0000	0.000	0.000	0.0000	0.000	0.000
15	0.00	0.000	0.006	0.0193	0.0000	0.000	0.000	0.0000	0.000	0.000
16	0.00	0.000	0.006	0.0189	0.0000	0.000	0.000	0.0000	0.000	0.000
17	0.00	0.000	0.006	0.0186	0.0000	0.000	0.000	0.0000	0.000	0.000
18	0.00	0.000	0.006	0.0182	0.0000	0.000	0.000	0.0000	0.000	0.000
19	0.00	0.000	0.004	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
20	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
21	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
22	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
23	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
24	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
25	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
26	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
27	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
28	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
29	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
30	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
31	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
32	0.17	0.000	0.003	0.0273	0.0000	0.000	0.000	0.0000	0.000	0.000
33	0.00	0.000	0.002	0.0272	0.0000	0.000	0.000	0.0000	0.000	0.000
34	0.00	0.000	0.002	0.0270	0.0000	0.000	0.000	0.0000	0.000	0.000
35	0.00	0.000	0.002	0.0268	0.0000	0.000	0.000	0.0000	0.000	0.000
36	0.00	0.000	0.002	0.0266	0.0000	0.000	0.000	0.0000	0.000	0.000
37	0.00	0.000	0.002	0.0264	0.0000	0.000	0.000	0.0000	0.000	0.000
38	0.00	0.000	0.002	0.0261	0.0000	0.000	0.000	0.0000	0.000	0.000
39	0.00	0.000	0.002	0.0259	0.0000	0.000	0.000	0.0000	0.000	0.000
40	0.00	0.000	0.002	0.0257	0.0000	0.000	0.000	0.0000	0.000	0.000
41	0.00	0.000	0.002	0.0254	0.0000	0.000	0.000	0.0000	0.000	0.000
42	0.00	0.000	0.002	0.0252	0.0000	0.000	0.000	0.0000	0.000	0.000
43	0.00	0.000	0.002	0.0250	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.00	0.000	0.002	0.0248	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.00	0.000	0.002	0.0245	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.00	0.000	0.002	0.0243	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.002	0.0241	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.00	0.000	0.002	0.0238	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.00	0.000	0.002	0.0236	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.002	0.0234	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.002	0.0231	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.002	0.0229	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.002	0.0227	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.002	0.0225	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.00	0.000	0.002	0.0222	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.00	0.000	0.002	0.0220	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.002	0.0218	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.002	0.0216	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.002	0.0213	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.002	0.0211	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.002	0.0209	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.002	0.0207	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.002	0.0204	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.002	0.0202	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.002	0.0200	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.002	0.0198	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.002	0.0196	0.0000	0.000	0.000	0.0000	0.000	0.000

68	0.00	0.000	0.002	0.0194	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.002	0.0191	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.002	0.0189	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.002	0.0187	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.002	0.0185	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.001	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.02	0.000	0.003	0.0190	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.000	0.0190	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.000	0.0189	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.000	0.0189	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.000	0.0188	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.000	0.0188	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.000	0.0187	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.000	0.0187	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.000	0.0186	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.000	0.0186	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.000	0.0185	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.000	0.0185	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.000	0.0184	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.000	0.0184	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.000	0.0183	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.000	0.0183	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.000	0.0182	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.000	0.0182	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.000	0.0182	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.0181	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.0181	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.0180	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.04	0.000	0.003	0.0201	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.000	0.0197	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.000	0.0196	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.000	0.0195	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.000	0.0194	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.000	0.0193	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.000	0.0192	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.000	0.0192	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.000	0.0191	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.000	0.0191	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.000	0.0190	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.29	0.000	0.004	0.0349	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.002	0.0348	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.26	0.000	0.006	0.0489	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.003	0.0487	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.003	0.0483	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.004	0.0481	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.004	0.0479	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.004	0.0477	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.004	0.0475	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.004	0.0473	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.004	0.0471	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.004	0.0469	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.004	0.0467	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.004	0.0465	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.004	0.0463	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.004	0.0461	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.004	0.0459	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.004	0.0457	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.004	0.0455	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.004	0.0453	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.004	0.0451	0.0000	0.000	0.000	0.0000	0.000	0.000

135	0.00	0.000	0.004	0.0449	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.004	0.0447	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.004	0.0445	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.004	0.0443	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.004	0.0441	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.004	0.0439	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.004	0.0437	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.004	0.0435	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.004	0.0433	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.004	0.0431	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.003	0.0428	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.003	0.0426	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.003	0.0424	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.003	0.0421	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.003	0.0419	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.003	0.0417	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.30	0.000	0.007	0.0580	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.321	0.0401	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.004	0.0399	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.01	0.000	0.007	0.0400	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.004	0.0398	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.01	0.000	0.007	0.0400	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.004	0.0397	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.004	0.0395	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.004	0.0393	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.004	0.0390	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.004	0.0388	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.004	0.0386	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.004	0.0384	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.004	0.0381	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.004	0.0379	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.004	0.0377	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.004	0.0374	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.004	0.0372	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.004	0.0370	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.004	0.0368	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.004	0.0365	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.004	0.0363	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.004	0.0361	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.004	0.0359	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.004	0.0356	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.004	0.0354	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.004	0.0352	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.004	0.0350	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.004	0.0348	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.003	0.0346	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.004	0.0344	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.004	0.0341	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.004	0.0339	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.21	0.000	0.008	0.0451	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.004	0.0449	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.004	0.0447	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.004	0.0445	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.004	0.0443	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.004	0.0441	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.004	0.0439	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.004	0.0437	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.01	0.000	0.007	0.0439	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.004	0.0437	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.004	0.0435	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.01	0.000	0.007	0.0436	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.004	0.0434	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.004	0.0432	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.004	0.0430	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.003	0.0428	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.31	0.000	0.008	0.0596	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.11	0.000	0.281	0.0495	0.0000	0.000	0.000	0.0000	0.000	0.000

202	0.00	0.000	0.003	0.0493	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.003	0.0491	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.18	0.000	0.008	0.0586	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.300	0.0416	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.09	0.000	0.008	0.0462	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.003	0.0460	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.25	0.000	0.008	0.0594	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.264	0.0445	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.003	0.0443	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.003	0.0441	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.003	0.0439	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.003	0.0437	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.003	0.0435	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.003	0.0433	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.29	0.000	0.008	0.0589	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.003	0.0587	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.003	0.0585	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.003	0.0583	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.003	0.0575	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.003	0.0573	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.003	0.0567	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.003	0.0559	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.003	0.0551	0.0000	0.000	0.000	0.0000	0.000	0.000
225	1.03	0.000	0.008	0.1115	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.11	0.000	0.187	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.293	0.0909	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.283	0.0752	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.104	0.0695	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.054	0.0662	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.041	0.0635	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.035	0.0616	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.031	0.0598	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.07	0.000	0.033	0.0612	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.025	0.0594	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.37	0.000	0.029	0.0773	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.24	0.000	0.027	0.0881	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.298	0.0703	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.021	0.0690	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.82	0.000	0.024	0.1125	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.16	0.000	0.270	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.05	0.000	0.272	0.0915	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.71	0.000	0.247	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.257	0.1014	0.0141	.7469E-04	.1699E-05	0.0000	0.000	0.000
245	0.00	0.000	0.262	0.0860	0.0495	.2616E-03	.5317E-05	0.0000	0.000	0.000
246	0.00	0.000	0.227	0.0730	0.0797	.4215E-03	.8190E-05	0.0000	0.000	0.000
247	0.00	0.000	0.130	0.0655	0.0936	.4949E-03	.9465E-05	0.0000	0.000	0.000
248	0.00	0.000	0.054	0.0625	0.1042	.5509E-03	.1043E-04	0.0000	0.000	0.000
249	0.00	0.000	0.041	0.0602	0.1027	.5429E-03	.1029E-04	0.0000	0.000	0.000
250	0.00	0.000	0.035	0.0578	0.1051	.5555E-03	.1050E-04	0.0000	0.000	0.000
251	0.00	0.000	0.031	0.0548	0.1471	.7777E-03	.1422E-04	0.0000	0.000	0.000
252	0.00	0.000	0.028	0.0512	0.2193	.1159E-02	.2038E-04	0.0000	0.000	0.000
253	0.00	0.000	0.025	0.0480	0.3138	.1659E-02	.2818E-04	0.0000	0.000	0.000
254	0.00	0.000	0.024	0.0455	0.3825	.2022E-02	.3372E-04	0.0000	0.000	0.000
255	0.00	0.000	0.022	0.0435	0.4243	.2243E-02	.3703E-04	0.0000	0.000	0.000
256	0.83	0.000	0.026	0.0872	0.4627	.2446E-02	.4005E-04	0.0000	0.000	0.000
257	0.31	0.000	0.169	0.0945	0.4819	.2548E-02	.4155E-04	0.0000	0.000	0.000
258	0.00	0.000	0.250	0.0787	0.5436	.2874E-02	.4633E-04	0.0000	0.000	0.000
259	0.00	0.000	0.232	0.0647	0.6065	.3206E-02	.5117E-04	0.0000	0.000	0.000
260	1.00	0.000	0.135	0.1122	0.6402	.3385E-02	.5374E-04	0.0000	0.000	0.000
261	0.26	0.000	0.218	0.1139	0.6620	.3500E-02	.5539E-04	0.0000	0.000	0.000
262	1.48	0.000	0.223	0.1834	0.6776	.3583E-02	.5658E-04	0.0000	0.000	0.000
263	0.16	0.000	0.198	0.1389	1.5588	.8241E-02	.1200E-03	0.0000	0.000	0.000
264	1.43	0.000	0.236	0.1817	3.1360	.1658E-01	.2295E-03	0.0000	0.000	0.000
265	0.00	0.000	0.249	0.1273	4.6097	.2437E-01	.3283E-03	0.0000	0.000	0.000
266	0.00	0.000	0.240	0.0982	6.0995	.3225E-01	.4273E-03	0.0000	0.000	0.000
267	0.00	0.000	0.236	0.0812	6.4137	.3391E-01	.4481E-03	0.0000	0.000	0.000
268	0.16	0.000	0.134	0.0802	6.4815	.3427E-01	.4526E-03	0.0000	0.000	0.000

269	0.00	0.000	0.054	0.0768	6.4717	.3421E-01	.4520E-03	0.0000	0.000	0.000
270	0.76	0.000	0.046	0.1147	6.4097	.3389E-01	.4479E-03	0.0000	0.000	0.000
271	0.00	0.000	0.240	0.0992	6.4210	.3395E-01	.4486E-03	0.0000	0.000	0.000
272	0.00	0.000	0.244	0.0840	6.4220	.3395E-01	.4487E-03	0.0000	0.000	0.000
273	0.00	0.000	0.224	0.0704	6.4012	.3384E-01	.4473E-03	0.0000	0.000	0.000
274	0.00	0.000	0.130	0.0619	6.3644	.3365E-01	.4449E-03	0.0000	0.000	0.000
275	0.00	0.000	0.054	0.0578	6.3347	.3349E-01	.4429E-03	0.0000	0.000	0.000
276	0.00	0.000	0.041	0.0549	6.2862	.3323E-01	.4397E-03	0.0000	0.000	0.000
277	0.00	0.000	0.035	0.0526	6.2239	.3290E-01	.4356E-03	0.0000	0.000	0.000
278	0.00	0.000	0.031	0.0509	6.1418	.3247E-01	.4301E-03	0.0000	0.000	0.000
279	0.00	0.000	0.028	0.0492	6.0544	.3201E-01	.4243E-03	0.0000	0.000	0.000
280	0.00	0.000	0.025	0.0470	5.9887	.3166E-01	.4200E-03	0.0000	0.000	0.000
281	0.00	0.000	0.024	0.0448	5.9453	.3143E-01	.4171E-03	0.0000	0.000	0.000
282	0.00	0.000	0.022	0.0431	5.8918	.3115E-01	.4136E-03	0.0000	0.000	0.000
283	0.00	0.000	0.021	0.0411	5.8379	.3086E-01	.4100E-03	0.0000	0.000	0.000
284	0.00	0.000	0.020	0.0389	5.8003	.3067E-01	.4075E-03	0.0000	0.000	0.000
285	0.00	0.000	0.019	0.0364	5.7721	.3052E-01	.4056E-03	0.0000	0.000	0.000
286	0.00	0.000	0.018	0.0343	5.7554	.3043E-01	.4045E-03	0.0000	0.000	0.000
287	0.00	0.000	0.018	0.0327	5.7157	.3022E-01	.4019E-03	0.0000	0.000	0.000
288	0.00	0.000	0.017	0.0312	5.6630	.2994E-01	.3984E-03	0.0000	0.000	0.000
289	0.00	0.000	0.016	0.0299	5.6039	.2963E-01	.3945E-03	0.0000	0.000	0.000
290	0.00	0.000	0.016	0.0282	5.5514	.2935E-01	.3910E-03	0.0000	0.000	0.000
291	0.00	0.000	0.016	0.0264	5.5143	.2915E-01	.3885E-03	0.0000	0.000	0.000
292	0.00	0.000	0.015	0.0247	5.4788	.2897E-01	.3862E-03	0.0000	0.000	0.000
293	0.00	0.000	0.015	0.0230	5.4409	.2877E-01	.3837E-03	0.0000	0.000	0.000
294	0.00	0.000	0.014	0.0220	5.3948	.2852E-01	.3806E-03	0.0000	0.000	0.000
295	0.00	0.000	0.014	0.0213	5.3199	.2813E-01	.3756E-03	0.0000	0.000	0.000
296	0.00	0.000	0.014	0.0205	5.2437	.2772E-01	.3706E-03	0.0000	0.000	0.000
297	0.00	0.000	0.013	0.0197	5.1686	.2733E-01	.3656E-03	0.0000	0.000	0.000
298	0.00	0.000	0.013	0.0190	5.0946	.2693E-01	.3607E-03	0.0000	0.000	0.000
299	0.00	0.000	0.013	0.0183	5.0216	.2655E-01	.3558E-03	0.0000	0.000	0.000
300	0.00	0.000	0.006	0.0180	4.9497	.2617E-01	.3510E-03	0.0000	0.000	0.000
301	0.00	0.000	0.000	0.0180	4.8788	.2579E-01	.3463E-03	0.0000	0.000	0.000
302	0.00	0.000	0.000	0.0180	4.8089	.2542E-01	.3417E-03	0.0000	0.000	0.000
303	0.00	0.000	0.000	0.0180	4.7400	.2506E-01	.3371E-03	0.0000	0.000	0.000
304	0.00	0.000	0.000	0.0180	4.6721	.2470E-01	.3326E-03	0.0000	0.000	0.000
305	0.00	0.000	0.000	0.0180	4.6051	.2435E-01	.3281E-03	0.0000	0.000	0.000
306	0.00	0.000	0.000	0.0180	4.5392	.2400E-01	.3237E-03	0.0000	0.000	0.000
307	0.00	0.000	0.000	0.0180	4.4741	.2365E-01	.3194E-03	0.0000	0.000	0.000
308	0.00	0.000	0.000	0.0180	4.4100	.2332E-01	.3151E-03	0.0000	0.000	0.000
309	0.00	0.000	0.000	0.0180	4.3469	.2298E-01	.3109E-03	0.0000	0.000	0.000
310	0.00	0.000	0.000	0.0180	4.2846	.2265E-01	.3067E-03	0.0000	0.000	0.000
311	0.00	0.000	0.000	0.0180	4.2232	.2233E-01	.3026E-03	0.0000	0.000	0.000
312	0.00	0.000	0.000	0.0180	4.1627	.2201E-01	.2986E-03	0.0000	0.000	0.000
313	0.03	0.000	0.006	0.0194	4.1031	.2169E-01	.2946E-03	0.0000	0.000	0.000
314	0.00	0.000	0.001	0.0192	4.0456	.2139E-01	.2907E-03	0.0000	0.000	0.000
315	0.00	0.000	0.001	0.0191	3.9909	.2110E-01	.2871E-03	0.0000	0.000	0.000
316	0.00	0.000	0.001	0.0190	3.9365	.2081E-01	.2834E-03	0.0000	0.000	0.000
317	0.00	0.000	0.001	0.0189	3.8827	.2053E-01	.2798E-03	0.0000	0.000	0.000
318	0.00	0.000	0.001	0.0188	3.8294	.2025E-01	.2762E-03	0.0000	0.000	0.000
319	0.00	0.000	0.001	0.0187	3.7768	.1997E-01	.2727E-03	0.0000	0.000	0.000
320	0.00	0.000	0.001	0.0187	3.7249	.1969E-01	.2692E-03	0.0000	0.000	0.000
321	0.00	0.000	0.001	0.0186	3.6737	.1942E-01	.2658E-03	0.0000	0.000	0.000
322	0.00	0.000	0.001	0.0185	3.6231	.1916E-01	.2624E-03	0.0000	0.000	0.000
323	0.96	0.000	0.007	0.0714	3.5725	.1889E-01	.2590E-03	0.0000	0.000	0.000
324	0.00	0.000	0.006	0.0711	3.5213	.1862E-01	.2555E-03	0.0000	0.000	0.000
325	0.00	0.000	0.008	0.0706	3.4709	.1835E-01	.2521E-03	0.0000	0.000	0.000
326	0.00	0.000	0.008	0.0702	3.4212	.1809E-01	.2488E-03	0.0000	0.000	0.000
327	0.00	0.000	0.008	0.0697	3.3721	.1783E-01	.2455E-03	0.0000	0.000	0.000
328	0.00	0.000	0.008	0.0693	3.3238	.1757E-01	.2422E-03	0.0000	0.000	0.000
329	0.00	0.000	0.008	0.0688	3.2762	.1732E-01	.2390E-03	0.0000	0.000	0.000
330	0.00	0.000	0.008	0.0679	3.2389	.1712E-01	.2365E-03	0.0000	0.000	0.000
331	0.00	0.000	0.008	0.0667	3.2207	.1703E-01	.2352E-03	0.0000	0.000	0.000
332	0.00	0.000	0.008	0.0655	3.2100	.1697E-01	.2345E-03	0.0000	0.000	0.000
333	0.00	0.000	0.008	0.0644	3.1998	.1692E-01	.2338E-03	0.0000	0.000	0.000
334	0.00	0.000	0.008	0.0633	3.1877	.1685E-01	.2330E-03	0.0000	0.000	0.000
335	0.00	0.000	0.008	0.0623	3.1730	.1677E-01	.2320E-03	0.0000	0.000	0.000

336		0.00	0.000	0.007	0.0613	3.1554	.1668E-01	.2308E-03	0.0000	0.000	0.000
337		0.00	0.000	0.007	0.0604	3.1360	.1658E-01	.2295E-03	0.0000	0.000	0.000
338		0.00	0.000	0.007	0.0595	3.1153	.1647E-01	.2281E-03	0.0000	0.000	0.000
339		0.01	0.000	0.010	0.0590	3.0933	.1635E-01	.2266E-03	0.0000	0.000	0.000
340		0.00	0.000	0.007	0.0582	3.0696	.1623E-01	.2250E-03	0.0000	0.000	0.000
341		0.00	0.000	0.007	0.0575	3.0437	.1609E-01	.2232E-03	0.0000	0.000	0.000
342		0.06	0.000	0.010	0.0599	3.0166	.1595E-01	.2214E-03	0.0000	0.000	0.000
343		0.01	0.000	0.010	0.0595	2.9914	.1582E-01	.2197E-03	0.0000	0.000	0.000
344		0.04	0.000	0.010	0.0609	2.9631	.1567E-01	.2178E-03	0.0000	0.000	0.000
345		0.00	0.000	0.007	0.0603	2.9334	.1551E-01	.2158E-03	0.0000	0.000	0.000
346		0.00	0.000	0.007	0.0597	2.9023	.1534E-01	.2136E-03	0.0000	0.000	0.000
347	*	0.00	0.000	0.007	0.0591	2.8690	.1517E-01	.2114E-03	0.0000	0.000	0.000
348	*	0.07	0.000	0.056	0.0598	2.8351	.1499E-01	.2091E-03	0.0000	0.000	0.000
349		0.00	0.000	0.007	0.0591	2.8044	.1483E-01	.2070E-03	0.0000	0.000	0.000
350		0.00	0.000	0.007	0.0585	2.7763	.1468E-01	.2051E-03	0.0000	0.000	0.000
351		0.00	0.000	0.007	0.0580	2.7452	.1451E-01	.2029E-03	0.0000	0.000	0.000
352		0.00	0.000	0.007	0.0574	2.7137	.1435E-01	.2008E-03	0.0000	0.000	0.000
353		0.05	0.000	0.010	0.0594	2.6830	.1418E-01	.1987E-03	0.0000	0.000	0.000
354	*	0.02	0.000	0.027	0.0588	2.6568	.1405E-01	.1969E-03	0.0000	0.000	0.000
355	*	0.00	0.000	0.007	0.0583	2.6288	.1390E-01	.1950E-03	0.0000	0.000	0.000
356		0.12	0.000	0.010	0.0642	2.5981	.1374E-01	.1929E-03	0.0000	0.000	0.000
357		0.07	0.000	0.010	0.0674	2.5707	.1359E-01	.1910E-03	0.0000	0.000	0.000
358		0.02	0.000	0.010	0.0679	2.5394	.1343E-01	.1889E-03	0.0000	0.000	0.000
359		0.04	0.000	0.010	0.0694	2.5099	.1327E-01	.1869E-03	0.0000	0.000	0.000
360		0.04	0.000	0.010	0.0709	2.4817	.1312E-01	.1849E-03	0.0000	0.000	0.000
361		0.06	0.000	0.104	0.0678	2.4651	.1303E-01	.1838E-03	0.0000	0.000	0.000
362		0.01	0.000	0.009	0.0677	2.4522	.1296E-01	.1829E-03	0.0000	0.000	0.000
363		0.00	0.000	0.006	0.0672	2.4226	.1281E-01	.1809E-03	0.0000	0.000	0.000
364		0.00	0.000	0.006	0.0667	2.3938	.1266E-01	.1789E-03	0.0000	0.000	0.000
365		0.00	0.000	0.006	0.0663	2.3650	.1250E-01	.1769E-03	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	0.17	0.02	0.59	0.30	0.02
	1.17	3.85	6.39	0.00	0.99	0.62
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.122	0.066	0.039	0.034	0.114	0.434
	0.972	2.326	4.490	0.668	0.105	0.414
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 1	0.0000	0.0000	0.3518	0.9128	0.6008	0.4552
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 2	0.0000	0.0000	0.0048	0.0122	0.0082	0.0064
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 2	0.000	0.000	2.218	5.570	3.788	2.778
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 2	0.000	0.000	2.727	0.491	0.452	0.257
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.12	11978172.640	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	9.784	8300265.588	69.29
DRAINAGE COLLECTED FROM LAYER 1	2.3206	1968621.151	16.44
PERC./LEAKAGE THROUGH LAYER 2	0.031502	26723.874	0.22
AVG. HEAD ON TOP OF LAYER 2	1.1961		
DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 5	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
CHANGE IN WATER STORAGE	2.015	1709286.080	14.27
SOIL WATER AT START OF YEAR	15.947	13527865.908	
SOIL WATER AT END OF YEAR	17.962	15237151.988	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.180	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

DAILY OUTPUT FOR YEAR 2

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.006	0.0659	2.3349	.1234E-01	.1748E-03	0.0000	0.000	0.000
2			0.00	0.000	0.006	0.0656	2.3016	.1217E-01	.1725E-03	0.0000	0.000	0.000
3			0.00	0.000	0.006	0.0652	2.2686	.1199E-01	.1703E-03	0.0000	0.000	0.000
4			0.00	0.000	0.006	0.0649	2.2361	.1182E-01	.1680E-03	0.0000	0.000	0.000
5			0.00	0.000	0.006	0.0646	2.2041	.1165E-01	.1658E-03	0.0000	0.000	0.000
6			0.00	0.000	0.006	0.0642	2.1725	.1149E-01	.1636E-03	0.0000	0.000	0.000
7			0.00	0.000	0.006	0.0639	2.1413	.1132E-01	.1615E-03	0.0000	0.000	0.000
8			0.00	0.000	0.006	0.0635	2.1120	.1117E-01	.1594E-03	0.0000	0.000	0.000
9			0.00	0.000	0.006	0.0629	2.0880	.1104E-01	.1578E-03	0.0000	0.000	0.000
10			0.00	0.000	0.006	0.0624	2.0684	.1094E-01	.1564E-03	0.0000	0.000	0.000
11	*		0.92	0.000	0.056	0.0631	2.0521	.1085E-01	.1553E-03	0.0000	0.000	0.000
12			0.00	0.000	0.046	0.0752	2.0382	.1078E-01	.1543E-03	0.0000	0.000	0.000
13	*		0.00	0.000	0.058	0.0760	2.0202	.1068E-01	.1531E-03	0.0000	0.000	0.000
14	*		0.00	0.000	0.059	0.0766	2.0128	.1064E-01	.1526E-03	0.0000	0.000	0.000
15			0.00	0.000	0.066	0.0775	2.0044	.1060E-01	.1520E-03	0.0000	0.000	0.000
16			0.00	0.000	0.061	0.0911	1.9798	.1047E-01	.1503E-03	0.0000	0.000	0.000
17			0.00	0.000	0.115	0.0859	1.9656	.1039E-01	.1493E-03	0.0000	0.000	0.000
18			0.00	0.000	0.112	0.0796	1.9385	.1025E-01	.1474E-03	0.0000	0.000	0.000
19			0.00	0.000	0.127	0.0726	1.9107	.1010E-01	.1454E-03	0.0000	0.000	0.000
20			0.00	0.000	0.117	0.0661	1.8833	.9957E-02	.1435E-03	0.0000	0.000	0.000
21			0.00	0.000	0.126	0.0589	1.8576	.9821E-02	.1417E-03	0.0000	0.000	0.000
22			0.00	0.000	0.052	0.0560	1.8404	.9730E-02	.1405E-03	0.0000	0.000	0.000
23			0.00	0.000	0.040	0.0538	1.8140	.9591E-02	.1387E-03	0.0000	0.000	0.000
24			0.00	0.000	0.034	0.0519	1.7880	.9453E-02	.1369E-03	0.0000	0.000	0.000
25			0.00	0.000	0.030	0.0503	1.7624	.9317E-02	.1351E-03	0.0000	0.000	0.000
26			0.00	0.000	0.027	0.0485	1.7382	.9190E-02	.1334E-03	0.0000	0.000	0.000
27			0.00	0.000	0.025	0.0464	1.7366	.9181E-02	.1333E-03	0.0000	0.000	0.000
28			0.00	0.000	0.023	0.0443	1.7515	.9260E-02	.1343E-03	0.0000	0.000	0.000
29			0.00	0.000	0.022	0.0427	1.7563	.9285E-02	.1346E-03	0.0000	0.000	0.000
30			0.00	0.000	0.020	0.0409	1.7562	.9285E-02	.1346E-03	0.0000	0.000	0.000
31			0.00	0.000	0.019	0.0389	1.7687	.9351E-02	.1355E-03	0.0000	0.000	0.000
32			0.00	0.000	0.019	0.0366	1.7908	.9468E-02	.1371E-03	0.0000	0.000	0.000
33			0.00	0.000	0.018	0.0345	1.8276	.9662E-02	.1396E-03	0.0000	0.000	0.000
34			0.00	0.000	0.017	0.0329	1.8435	.9746E-02	.1407E-03	0.0000	0.000	0.000
35			0.00	0.000	0.017	0.0315	1.8459	.9759E-02	.1409E-03	0.0000	0.000	0.000
36			0.00	0.000	0.016	0.0302	1.8412	.9734E-02	.1406E-03	0.0000	0.000	0.000
37			0.00	0.000	0.015	0.0290	1.8340	.9696E-02	.1401E-03	0.0000	0.000	0.000
38			0.00	0.000	0.015	0.0272	1.8377	.9716E-02	.1403E-03	0.0000	0.000	0.000
39			0.00	0.000	0.015	0.0255	1.8527	.9795E-02	.1414E-03	0.0000	0.000	0.000
40			0.00	0.000	0.014	0.0239	1.8686	.9879E-02	.1425E-03	0.0000	0.000	0.000
41			0.00	0.000	0.014	0.0224	1.8799	.9939E-02	.1433E-03	0.0000	0.000	0.000
42			0.00	0.000	0.014	0.0209	1.8897	.9991E-02	.1440E-03	0.0000	0.000	0.000
43			0.00	0.000	0.013	0.0194	1.8986	.1004E-01	.1446E-03	0.0000	0.000	0.000
44			0.00	0.000	0.010	0.0180	1.9101	.1010E-01	.1454E-03	0.0000	0.000	0.000
45			0.00	0.000	0.000	0.0180	1.9064	.1008E-01	.1451E-03	0.0000	0.000	0.000
46			0.00	0.000	0.000	0.0180	1.8791	.9934E-02	.1432E-03	0.0000	0.000	0.000
47			0.00	0.000	0.000	0.0180	1.8521	.9792E-02	.1414E-03	0.0000	0.000	0.000
48			0.13	0.000	0.004	0.0248	1.8296	.9673E-02	.1398E-03	0.0000	0.000	0.000
49			0.01	0.000	0.008	0.0249	1.8073	.9555E-02	.1382E-03	0.0000	0.000	0.000
50			0.00	0.000	0.005	0.0246	1.7814	.9418E-02	.1364E-03	0.0000	0.000	0.000
51			0.00	0.000	0.005	0.0243	1.7567	.9288E-02	.1347E-03	0.0000	0.000	0.000
52			0.00	0.000	0.005	0.0239	1.7359	.9178E-02	.1332E-03	0.0000	0.000	0.000
53			0.00	0.000	0.005	0.0235	1.7167	.9076E-02	.1319E-03	0.0000	0.000	0.000
54			0.00	0.000	0.005	0.0231	1.6992	.8983E-02	.1306E-03	0.0000	0.000	0.000
55			0.19	0.000	0.008	0.0332	1.6792	.8878E-02	.1292E-03	0.0000	0.000	0.000
56			0.12	0.000	0.008	0.0395	1.6551	.8750E-02	.1275E-03	0.0000	0.000	0.000
57			0.00	0.000	0.007	0.0391	1.6314	.8625E-02	.1259E-03	0.0000	0.000	0.000
58			0.00	0.000	0.007	0.0387	1.6080	.8501E-02	.1242E-03	0.0000	0.000	0.000
59			0.00	0.000	0.007	0.0383	1.5849	.8379E-02	.1226E-03	0.0000	0.000	0.000
60			0.00	0.000	0.007	0.0379	1.5622	.8259E-02	.1210E-03	0.0000	0.000	0.000

61	0.00	0.000	0.007	0.0375	1.5398	.8141E-02	.1194E-03	0.0000	0.000	0.000
62	0.00	0.000	0.007	0.0371	1.5177	.8024E-02	.1178E-03	0.0000	0.000	0.000
63	0.00	0.000	0.007	0.0368	1.4959	.7909E-02	.1163E-03	0.0000	0.000	0.000
64	0.12	0.000	0.010	0.0427	1.4764	.7806E-02	.1149E-03	0.0000	0.000	0.000
65	0.09	0.000	0.010	0.0471	1.4628	.7733E-02	.1139E-03	0.0000	0.000	0.000
66	0.00	0.000	0.006	0.0468	1.4424	.7626E-02	.1125E-03	0.0000	0.000	0.000
67	0.07	0.000	0.010	0.0494	1.4306	.7564E-02	.1116E-03	0.0000	0.000	0.000
68	0.00	0.000	0.006	0.0486	1.4379	.7602E-02	.1121E-03	0.0000	0.000	0.000
69	0.00	0.000	0.006	0.0466	1.4676	.7759E-02	.1143E-03	0.0000	0.000	0.000
70	0.00	0.000	0.006	0.0448	1.5235	.8054E-02	.1182E-03	0.0000	0.000	0.000
71	0.00	0.000	0.006	0.0434	1.5581	.8237E-02	.1207E-03	0.0000	0.000	0.000
72	0.00	0.000	0.006	0.0423	1.5849	.8379E-02	.1226E-03	0.0000	0.000	0.000
73	0.00	0.000	0.006	0.0413	1.5982	.8450E-02	.1235E-03	0.0000	0.000	0.000
74	0.00	0.000	0.006	0.0404	1.6047	.8484E-02	.1240E-03	0.0000	0.000	0.000
75	0.00	0.000	0.006	0.0396	1.6061	.8491E-02	.1241E-03	0.0000	0.000	0.000
76	0.02	0.000	0.009	0.0399	1.6033	.8477E-02	.1239E-03	0.0000	0.000	0.000
77	0.00	0.000	0.006	0.0391	1.6004	.8461E-02	.1237E-03	0.0000	0.000	0.000
78	0.00	0.000	0.006	0.0385	1.5966	.8441E-02	.1234E-03	0.0000	0.000	0.000
79	0.00	0.000	0.006	0.0379	1.5875	.8393E-02	.1228E-03	0.0000	0.000	0.000
80	0.00	0.000	0.006	0.0374	1.5761	.8333E-02	.1220E-03	0.0000	0.000	0.000
81	0.00	0.000	0.006	0.0369	1.5634	.8265E-02	.1211E-03	0.0000	0.000	0.000
82	0.00	0.000	0.006	0.0364	1.5499	.8194E-02	.1201E-03	0.0000	0.000	0.000
83	0.00	0.000	0.006	0.0359	1.5357	.8119E-02	.1191E-03	0.0000	0.000	0.000
84	0.00	0.000	0.005	0.0355	1.5212	.8042E-02	.1181E-03	0.0000	0.000	0.000
85	0.00	0.000	0.005	0.0350	1.5064	.7964E-02	.1170E-03	0.0000	0.000	0.000
86	0.00	0.000	0.005	0.0346	1.4913	.7884E-02	.1159E-03	0.0000	0.000	0.000
87	0.00	0.000	0.005	0.0342	1.4749	.7798E-02	.1148E-03	0.0000	0.000	0.000
88	0.00	0.000	0.005	0.0338	1.4581	.7709E-02	.1136E-03	0.0000	0.000	0.000
89	0.00	0.000	0.005	0.0334	1.4414	.7620E-02	.1124E-03	0.0000	0.000	0.000
90	0.00	0.000	0.005	0.0331	1.4248	.7533E-02	.1112E-03	0.0000	0.000	0.000
91	0.00	0.000	0.005	0.0327	1.4084	.7446E-02	.1100E-03	0.0000	0.000	0.000
92	0.00	0.000	0.005	0.0323	1.3921	.7360E-02	.1089E-03	0.0000	0.000	0.000
93	0.00	0.000	0.005	0.0319	1.3766	.7278E-02	.1078E-03	0.0000	0.000	0.000
94	0.00	0.000	0.005	0.0314	1.3659	.7221E-02	.1070E-03	0.0000	0.000	0.000
95	0.00	0.000	0.005	0.0310	1.3554	.7166E-02	.1063E-03	0.0000	0.000	0.000
96	0.00	0.000	0.005	0.0305	1.3444	.7107E-02	.1055E-03	0.0000	0.000	0.000
97	0.00	0.000	0.005	0.0301	1.3328	.7046E-02	.1046E-03	0.0000	0.000	0.000
98	0.00	0.000	0.005	0.0297	1.3205	.6981E-02	.1038E-03	0.0000	0.000	0.000
99	0.00	0.000	0.005	0.0292	1.3089	.6920E-02	.1029E-03	0.0000	0.000	0.000
100	0.00	0.000	0.005	0.0288	1.2966	.6855E-02	.1020E-03	0.0000	0.000	0.000
101	0.00	0.000	0.005	0.0284	1.2842	.6790E-02	.1012E-03	0.0000	0.000	0.000
102	0.00	0.000	0.005	0.0281	1.2718	.6724E-02	.1003E-03	0.0000	0.000	0.000
103	0.00	0.000	0.005	0.0277	1.2593	.6658E-02	.9937E-04	0.0000	0.000	0.000
104	0.00	0.000	0.005	0.0273	1.2468	.6592E-02	.9847E-04	0.0000	0.000	0.000
105	0.00	0.000	0.005	0.0269	1.2343	.6526E-02	.9757E-04	0.0000	0.000	0.000
106	0.00	0.000	0.005	0.0266	1.2219	.6460E-02	.9667E-04	0.0000	0.000	0.000
107	0.00	0.000	0.005	0.0262	1.2095	.6395E-02	.9578E-04	0.0000	0.000	0.000
108	0.00	0.000	0.005	0.0258	1.1972	.6330E-02	.9490E-04	0.0000	0.000	0.000
109	0.00	0.000	0.005	0.0255	1.1851	.6265E-02	.9402E-04	0.0000	0.000	0.000
110	0.00	0.000	0.005	0.0251	1.1730	.6201E-02	.9314E-04	0.0000	0.000	0.000
111	0.00	0.000	0.005	0.0248	1.1610	.6138E-02	.9227E-04	0.0000	0.000	0.000
112	0.00	0.000	0.005	0.0244	1.1491	.6075E-02	.9141E-04	0.0000	0.000	0.000
113	0.00	0.000	0.005	0.0240	1.1373	.6013E-02	.9056E-04	0.0000	0.000	0.000
114	0.00	0.000	0.005	0.0237	1.1257	.5951E-02	.8972E-04	0.0000	0.000	0.000
115	0.00	0.000	0.004	0.0234	1.1141	.5890E-02	.8888E-04	0.0000	0.000	0.000
116	0.00	0.000	0.004	0.0230	1.1027	.5830E-02	.8805E-04	0.0000	0.000	0.000
117	0.00	0.000	0.004	0.0227	1.0915	.5770E-02	.8723E-04	0.0000	0.000	0.000
118	0.00	0.000	0.004	0.0224	1.0803	.5711E-02	.8642E-04	0.0000	0.000	0.000
119	0.00	0.000	0.005	0.0219	1.0698	.5656E-02	.8565E-04	0.0000	0.000	0.000
120	0.00	0.000	0.004	0.0214	1.0632	.5621E-02	.8517E-04	0.0000	0.000	0.000
121	0.00	0.000	0.004	0.0210	1.0596	.5602E-02	.8491E-04	0.0000	0.000	0.000
122	0.00	0.000	0.004	0.0205	1.0560	.5583E-02	.8465E-04	0.0000	0.000	0.000
123	0.00	0.000	0.004	0.0200	1.0524	.5564E-02	.8439E-04	0.0000	0.000	0.000
124	0.00	0.000	0.004	0.0195	1.0488	.5545E-02	.8413E-04	0.0000	0.000	0.000
125	0.00	0.000	0.004	0.0191	1.0452	.5526E-02	.8386E-04	0.0000	0.000	0.000
126	0.00	0.000	0.004	0.0186	1.0416	.5507E-02	.8360E-04	0.0000	0.000	0.000
127	0.00	0.000	0.001	0.0180	1.0526	.5565E-02	.8440E-04	0.0000	0.000	0.000

128	0.00	0.000	0.000	0.0180	1.0437	.5518E-02	.8375E-04	0.0000	0.000	0.000
129	0.00	0.000	0.000	0.0180	1.0287	.5439E-02	.8266E-04	0.0000	0.000	0.000
130	0.00	0.000	0.000	0.0180	1.0140	.5361E-02	.8158E-04	0.0000	0.000	0.000
131	0.00	0.000	0.000	0.0180	0.9994	.5284E-02	.8051E-04	0.0000	0.000	0.000
132	0.00	0.000	0.000	0.0180	0.9851	.5208E-02	.7946E-04	0.0000	0.000	0.000
133	0.00	0.000	0.000	0.0180	0.9710	.5133E-02	.7843E-04	0.0000	0.000	0.000
134	0.00	0.000	0.000	0.0180	0.9570	.5060E-02	.7740E-04	0.0000	0.000	0.000
135	0.00	0.000	0.000	0.0180	0.9433	.4987E-02	.7639E-04	0.0000	0.000	0.000
136	0.00	0.000	0.000	0.0180	0.9297	.4915E-02	.7539E-04	0.0000	0.000	0.000
137	0.00	0.000	0.000	0.0180	0.9164	.4845E-02	.7441E-04	0.0000	0.000	0.000
138	0.00	0.000	0.000	0.0180	0.9032	.4775E-02	.7344E-04	0.0000	0.000	0.000
139	0.00	0.000	0.000	0.0180	0.8903	.4707E-02	.7248E-04	0.0000	0.000	0.000
140	0.00	0.000	0.000	0.0180	0.8775	.4639E-02	.7154E-04	0.0000	0.000	0.000
141	0.00	0.000	0.000	0.0180	0.8649	.4573E-02	.7060E-04	0.0000	0.000	0.000
142	0.00	0.000	0.000	0.0180	0.8525	.4507E-02	.6968E-04	0.0000	0.000	0.000
143	0.13	0.000	0.005	0.0248	0.8433	.4458E-02	.6900E-04	0.0000	0.000	0.000
144	0.00	0.000	0.002	0.0247	0.8342	.4410E-02	.6832E-04	0.0000	0.000	0.000
145	0.00	0.000	0.002	0.0246	0.8222	.4347E-02	.6743E-04	0.0000	0.000	0.000
146	0.00	0.000	0.002	0.0244	0.8105	.4285E-02	.6655E-04	0.0000	0.000	0.000
147	0.00	0.000	0.002	0.0242	0.7998	.4228E-02	.6576E-04	0.0000	0.000	0.000
148	0.00	0.000	0.002	0.0241	0.7904	.4179E-02	.6506E-04	0.0000	0.000	0.000
149	0.00	0.000	0.002	0.0239	0.7818	.4133E-02	.6441E-04	0.0000	0.000	0.000
150	0.00	0.000	0.002	0.0237	0.7736	.4090E-02	.6380E-04	0.0000	0.000	0.000
151	0.00	0.000	0.002	0.0235	0.7658	.4049E-02	.6322E-04	0.0000	0.000	0.000
152	0.00	0.000	0.002	0.0233	0.7583	.4009E-02	.6266E-04	0.0000	0.000	0.000
153	0.00	0.000	0.002	0.0231	0.7510	.3970E-02	.6211E-04	0.0000	0.000	0.000
154	0.12	0.000	0.007	0.0293	0.7434	.3930E-02	.6154E-04	0.0000	0.000	0.000
155	0.15	0.000	0.007	0.0373	0.7330	.3875E-02	.6076E-04	0.0000	0.000	0.000
156	0.00	0.000	0.002	0.0371	0.7225	.3820E-02	.5997E-04	0.0000	0.000	0.000
157	0.00	0.000	0.004	0.0369	0.7121	.3765E-02	.5919E-04	0.0000	0.000	0.000
158	0.00	0.000	0.004	0.0367	0.7019	.3711E-02	.5841E-04	0.0000	0.000	0.000
159	0.00	0.000	0.004	0.0365	0.6918	.3658E-02	.5765E-04	0.0000	0.000	0.000
160	0.00	0.000	0.004	0.0363	0.6819	.3605E-02	.5690E-04	0.0000	0.000	0.000
161	0.00	0.000	0.004	0.0361	0.6721	.3553E-02	.5616E-04	0.0000	0.000	0.000
162	0.00	0.000	0.004	0.0359	0.6625	.3502E-02	.5543E-04	0.0000	0.000	0.000
163	0.00	0.000	0.004	0.0357	0.6529	.3452E-02	.5471E-04	0.0000	0.000	0.000
164	0.00	0.000	0.004	0.0355	0.6436	.3402E-02	.5400E-04	0.0000	0.000	0.000
165	0.18	0.000	0.008	0.0450	0.6353	.3359E-02	.5337E-04	0.0000	0.000	0.000
166	0.05	0.000	0.008	0.0473	0.6290	.3325E-02	.5289E-04	0.0000	0.000	0.000
167	0.00	0.000	0.004	0.0471	0.6200	.3278E-02	.5220E-04	0.0000	0.000	0.000
168	0.00	0.000	0.004	0.0463	0.6178	.3266E-02	.5203E-04	0.0000	0.000	0.000
169	0.00	0.000	0.004	0.0450	0.6511	.3442E-02	.5457E-04	0.0000	0.000	0.000
170	0.00	0.000	0.004	0.0439	0.6917	.3657E-02	.5765E-04	0.0000	0.000	0.000
171	0.00	0.000	0.004	0.0429	0.7248	.3832E-02	.6014E-04	0.0000	0.000	0.000
172	0.00	0.000	0.004	0.0420	0.7479	.3954E-02	.6188E-04	0.0000	0.000	0.000
173	0.00	0.000	0.004	0.0413	0.7691	.4066E-02	.6346E-04	0.0000	0.000	0.000
174	0.19	0.000	0.008	0.0507	0.7870	.4161E-02	.6480E-04	0.0000	0.000	0.000
175	0.00	0.000	0.004	0.0499	0.7950	.4203E-02	.6540E-04	0.0000	0.000	0.000
176	0.00	0.000	0.003	0.0491	0.8335	.4407E-02	.6827E-04	0.0000	0.000	0.000
177	0.00	0.000	0.004	0.0489	0.8291	.4383E-02	.6794E-04	0.0000	0.000	0.000
178	0.00	0.000	0.004	0.0486	0.8172	.4320E-02	.6706E-04	0.0000	0.000	0.000
179	0.00	0.000	0.004	0.0484	0.8055	.4258E-02	.6618E-04	0.0000	0.000	0.000
180	0.13	0.000	0.009	0.0551	0.7939	.4197E-02	.6532E-04	0.0000	0.000	0.000
181	0.55	0.000	0.009	0.0851	0.7828	.4138E-02	.6449E-04	0.0000	0.000	0.000
182	0.03	0.000	0.254	0.0727	0.7718	.4081E-02	.6367E-04	0.0000	0.000	0.000
183	0.00	0.000	0.314	0.0552	0.7634	.4036E-02	.6304E-04	0.0000	0.000	0.000
184	0.00	0.000	0.118	0.0481	0.7571	.4003E-02	.6257E-04	0.0000	0.000	0.000
185	0.00	0.000	0.049	0.0438	0.7914	.4184E-02	.6513E-04	0.0000	0.000	0.000
186	0.01	0.000	0.042	0.0420	0.8316	.4396E-02	.6813E-04	0.0000	0.000	0.000
187	0.40	0.000	0.039	0.0621	0.8197	.4333E-02	.6724E-04	0.0000	0.000	0.000
188	0.00	0.000	0.030	0.0605	0.8079	.4271E-02	.6636E-04	0.0000	0.000	0.000
189	0.00	0.000	0.027	0.0590	0.7963	.4210E-02	.6550E-04	0.0000	0.000	0.000
190	0.00	0.000	0.025	0.0576	0.7849	.4149E-02	.6464E-04	0.0000	0.000	0.000
191	0.00	0.000	0.023	0.0563	0.7736	.4090E-02	.6380E-04	0.0000	0.000	0.000
192	0.00	0.000	0.022	0.0551	0.7625	.4031E-02	.6297E-04	0.0000	0.000	0.000
193	1.20	0.000	0.026	0.1203	0.7515	.3973E-02	.6215E-04	0.0000	0.000	0.000
194	0.00	0.000	0.336	0.1017	0.7417	.3921E-02	.6141E-04	0.0000	0.000	0.000

195	0.00	0.000	0.312	0.0843	0.7310	.3865E-02	.6061E-04	0.0000	0.000	0.000
196	0.00	0.000	0.130	0.0768	0.7309	.3864E-02	.6060E-04	0.0000	0.000	0.000
197	0.00	0.000	0.054	0.0738	0.7265	.3841E-02	.6027E-04	0.0000	0.000	0.000
198	0.00	0.000	0.041	0.0700	0.7385	.3904E-02	.6117E-04	0.0000	0.000	0.000
199	0.00	0.000	0.035	0.0652	0.8317	.4397E-02	.6813E-04	0.0000	0.000	0.000
200	0.00	0.000	0.031	0.0613	0.9453	.4998E-02	.7654E-04	0.0000	0.000	0.000
201	0.00	0.000	0.028	0.0582	1.0287	.5438E-02	.8265E-04	0.0000	0.000	0.000
202	0.00	0.000	0.025	0.0558	1.0714	.5664E-02	.8577E-04	0.0000	0.000	0.000
203	0.00	0.000	0.024	0.0535	1.1072	.5853E-02	.8837E-04	0.0000	0.000	0.000
204	0.00	0.000	0.022	0.0507	1.1445	.6051E-02	.9108E-04	0.0000	0.000	0.000
205	0.00	0.000	0.021	0.0481	1.2047	.6369E-02	.9543E-04	0.0000	0.000	0.000
206	0.00	0.000	0.020	0.0458	1.2518	.6618E-02	.9883E-04	0.0000	0.000	0.000
207	0.00	0.000	0.019	0.0439	1.2838	.6787E-02	.1011E-03	0.0000	0.000	0.000
208	0.01	0.000	0.023	0.0428	1.2962	.6853E-02	.1020E-03	0.0000	0.000	0.000
209	0.00	0.000	0.018	0.0411	1.3045	.6897E-02	.1026E-03	0.0000	0.000	0.000
210	0.05	0.000	0.022	0.0419	1.3225	.6992E-02	.1039E-03	0.0000	0.000	0.000
211	0.50	0.000	0.021	0.0675	1.3455	.7114E-02	.1056E-03	0.0000	0.000	0.000
212	0.00	0.000	0.016	0.0657	1.3707	.7246E-02	.1073E-03	0.0000	0.000	0.000
213	0.00	0.000	0.016	0.0641	1.3899	.7348E-02	.1087E-03	0.0000	0.000	0.000
214	0.00	0.000	0.015	0.0627	1.4045	.7425E-02	.1098E-03	0.0000	0.000	0.000
215	0.00	0.000	0.015	0.0614	1.4098	.7454E-02	.1101E-03	0.0000	0.000	0.000
216	0.00	0.000	0.014	0.0602	1.4094	.7451E-02	.1101E-03	0.0000	0.000	0.000
217	0.00	0.000	0.014	0.0592	1.4052	.7429E-02	.1098E-03	0.0000	0.000	0.000
218	0.00	0.000	0.014	0.0582	1.3985	.7394E-02	.1093E-03	0.0000	0.000	0.000
219	0.00	0.000	0.013	0.0572	1.3900	.7349E-02	.1087E-03	0.0000	0.000	0.000
220	0.00	0.000	0.013	0.0563	1.3802	.7297E-02	.1080E-03	0.0000	0.000	0.000
221	0.00	0.000	0.013	0.0554	1.3693	.7239E-02	.1073E-03	0.0000	0.000	0.000
222	0.11	0.000	0.017	0.0604	1.3577	.7178E-02	.1064E-03	0.0000	0.000	0.000
223	1.64	0.000	0.017	0.1505	1.3428	.7099E-02	.1054E-03	0.0000	0.000	0.000
224	0.00	0.000	0.280	0.1252	1.3474	.7123E-02	.1057E-03	0.0000	0.000	0.000
225	0.18	0.000	0.197	0.1122	2.1304	.1126E-01	.1607E-03	0.0000	0.000	0.000
226	0.34	0.000	0.312	0.1108	2.3923	.1265E-01	.1788E-03	0.0000	0.000	0.000
227	0.34	0.000	0.288	0.1112	2.4893	.1316E-01	.1854E-03	0.0000	0.000	0.000
228	0.00	0.000	0.314	0.0925	2.5441	.1345E-01	.1892E-03	0.0000	0.000	0.000
229	0.00	0.000	0.287	0.0761	2.5491	.1348E-01	.1895E-03	0.0000	0.000	0.000
230	0.00	0.000	0.130	0.0684	2.5355	.1340E-01	.1886E-03	0.0000	0.000	0.000
231	0.00	0.000	0.054	0.0641	2.5393	.1342E-01	.1889E-03	0.0000	0.000	0.000
232	0.00	0.000	0.041	0.0608	2.5601	.1353E-01	.1903E-03	0.0000	0.000	0.000
233	0.00	0.000	0.035	0.0578	2.5766	.1362E-01	.1914E-03	0.0000	0.000	0.000
234	0.00	0.000	0.031	0.0555	2.5809	.1364E-01	.1917E-03	0.0000	0.000	0.000
235	0.00	0.000	0.028	0.0535	2.5700	.1359E-01	.1910E-03	0.0000	0.000	0.000
236	0.00	0.000	0.025	0.0515	2.5569	.1352E-01	.1901E-03	0.0000	0.000	0.000
237	0.00	0.000	0.024	0.0498	2.5447	.1345E-01	.1892E-03	0.0000	0.000	0.000
238	0.00	0.000	0.022	0.0484	2.5236	.1334E-01	.1878E-03	0.0000	0.000	0.000
239	0.00	0.000	0.021	0.0473	2.4888	.1316E-01	.1854E-03	0.0000	0.000	0.000
240	0.78	0.000	0.025	0.0890	2.4563	.1299E-01	.1832E-03	0.0000	0.000	0.000
241	0.00	0.000	0.261	0.0744	2.4294	.1284E-01	.1813E-03	0.0000	0.000	0.000
242	0.00	0.000	0.019	0.0722	2.4199	.1279E-01	.1807E-03	0.0000	0.000	0.000
243	0.00	0.000	0.018	0.0704	2.4312	.1285E-01	.1815E-03	0.0000	0.000	0.000
244	0.00	0.000	0.018	0.0688	2.4313	.1285E-01	.1815E-03	0.0000	0.000	0.000
245	0.00	0.000	0.017	0.0674	2.4250	.1282E-01	.1810E-03	0.0000	0.000	0.000
246	0.00	0.000	0.016	0.0661	2.4101	.1274E-01	.1800E-03	0.0000	0.000	0.000
247	0.00	0.000	0.016	0.0649	2.3935	.1265E-01	.1789E-03	0.0000	0.000	0.000
248	0.00	0.000	0.016	0.0637	2.3740	.1255E-01	.1775E-03	0.0000	0.000	0.000
249	0.00	0.000	0.015	0.0626	2.3525	.1244E-01	.1760E-03	0.0000	0.000	0.000
250	0.00	0.000	0.015	0.0616	2.3297	.1232E-01	.1745E-03	0.0000	0.000	0.000
251	0.12	0.000	0.019	0.0671	2.3058	.1219E-01	.1728E-03	0.0000	0.000	0.000
252	0.00	0.000	0.014	0.0662	2.2798	.1205E-01	.1710E-03	0.0000	0.000	0.000
253	0.00	0.000	0.014	0.0653	2.2519	.1191E-01	.1691E-03	0.0000	0.000	0.000
254	0.02	0.000	0.018	0.0653	2.2256	.1177E-01	.1673E-03	0.0000	0.000	0.000
255	2.57	0.000	0.018	0.2071	2.1965	.1161E-01	.1653E-03	0.0000	0.000	0.000
256	0.00	0.000	0.285	0.1202	3.8523	.2037E-01	.2772E-03	0.0000	0.000	0.000
257	0.00	0.000	0.280	0.0983	5.6915	.3009E-01	.4003E-03	0.0000	0.000	0.000
258	0.00	0.000	0.130	0.0874	5.8221	.3078E-01	.4090E-03	0.0000	0.000	0.000
259	0.00	0.000	0.054	0.0831	5.8815	.3109E-01	.4129E-03	0.0000	0.000	0.000
260	0.00	0.000	0.041	0.0785	5.8664	.3101E-01	.4119E-03	0.0000	0.000	0.000
261	0.00	0.000	0.035	0.0742	5.8952	.3117E-01	.4138E-03	0.0000	0.000	0.000

262	0.00	0.000	0.031	0.0709	5.9160	.3128E-01	.4152E-03	0.0000	0.000	0.000
263	0.00	0.000	0.028	0.0681	5.9042	.3121E-01	.4144E-03	0.0000	0.000	0.000
264	0.00	0.000	0.025	0.0655	5.8710	.3104E-01	.4122E-03	0.0000	0.000	0.000
265	0.00	0.000	0.024	0.0626	5.8563	.3096E-01	.4112E-03	0.0000	0.000	0.000
266	0.00	0.000	0.022	0.0599	5.8470	.3091E-01	.4106E-03	0.0000	0.000	0.000
267	0.00	0.000	0.021	0.0575	5.8311	.3083E-01	.4095E-03	0.0000	0.000	0.000
268	0.00	0.000	0.020	0.0555	5.7991	.3066E-01	.4074E-03	0.0000	0.000	0.000
269	0.00	0.000	0.019	0.0538	5.7499	.3040E-01	.4042E-03	0.0000	0.000	0.000
270	0.00	0.000	0.018	0.0523	5.6977	.3012E-01	.4007E-03	0.0000	0.000	0.000
271	0.00	0.000	0.018	0.0504	5.6443	.2984E-01	.3972E-03	0.0000	0.000	0.000
272	0.00	0.000	0.017	0.0483	5.6163	.2969E-01	.3953E-03	0.0000	0.000	0.000
273	0.00	0.000	0.016	0.0464	5.5886	.2955E-01	.3935E-03	0.0000	0.000	0.000
274	0.00	0.000	0.016	0.0447	5.5526	.2936E-01	.3911E-03	0.0000	0.000	0.000
275	0.00	0.000	0.016	0.0431	5.5095	.2913E-01	.3882E-03	0.0000	0.000	0.000
276	0.00	0.000	0.015	0.0420	5.4550	.2884E-01	.3846E-03	0.0000	0.000	0.000
277	0.00	0.000	0.015	0.0408	5.3931	.2851E-01	.3805E-03	0.0000	0.000	0.000
278	0.00	0.000	0.014	0.0394	5.3390	.2823E-01	.3769E-03	0.0000	0.000	0.000
279	0.23	0.000	0.019	0.0502	5.2981	.2801E-01	.3742E-03	0.0000	0.000	0.000
280	0.00	0.000	0.014	0.0486	5.2619	.2782E-01	.3718E-03	0.0000	0.000	0.000
281	0.00	0.000	0.013	0.0472	5.2262	.2763E-01	.3694E-03	0.0000	0.000	0.000
282	0.00	0.000	0.013	0.0460	5.1805	.2739E-01	.3664E-03	0.0000	0.000	0.000
283	0.00	0.000	0.013	0.0449	5.1269	.2711E-01	.3628E-03	0.0000	0.000	0.000
284	0.00	0.000	0.013	0.0440	5.0688	.2680E-01	.3590E-03	0.0000	0.000	0.000
285	0.34	0.000	0.017	0.0618	5.0043	.2646E-01	.3547E-03	0.0000	0.000	0.000
286	0.00	0.000	0.012	0.0607	4.9446	.2614E-01	.3507E-03	0.0000	0.000	0.000
287	0.00	0.000	0.012	0.0598	4.8898	.2585E-01	.3471E-03	0.0000	0.000	0.000
288	0.00	0.000	0.012	0.0589	4.8328	.2555E-01	.3433E-03	0.0000	0.000	0.000
289	0.00	0.000	0.012	0.0580	4.7751	.2525E-01	.3394E-03	0.0000	0.000	0.000
290	0.00	0.000	0.011	0.0572	4.7169	.2494E-01	.3355E-03	0.0000	0.000	0.000
291	0.00	0.000	0.011	0.0564	4.6584	.2463E-01	.3316E-03	0.0000	0.000	0.000
292	0.00	0.000	0.011	0.0556	4.5998	.2432E-01	.3277E-03	0.0000	0.000	0.000
293	0.00	0.000	0.011	0.0549	4.5412	.2401E-01	.3238E-03	0.0000	0.000	0.000
294	0.00	0.000	0.011	0.0542	4.4828	.2370E-01	.3199E-03	0.0000	0.000	0.000
295	0.00	0.000	0.011	0.0534	4.4247	.2339E-01	.3161E-03	0.0000	0.000	0.000
296	0.00	0.000	0.010	0.0527	4.3670	.2309E-01	.3122E-03	0.0000	0.000	0.000
297	0.00	0.000	0.010	0.0521	4.3096	.2278E-01	.3084E-03	0.0000	0.000	0.000
298	0.00	0.000	0.010	0.0514	4.2528	.2248E-01	.3046E-03	0.0000	0.000	0.000
299	0.00	0.000	0.010	0.0508	4.1964	.2219E-01	.3008E-03	0.0000	0.000	0.000
300	0.00	0.000	0.010	0.0501	4.1406	.2189E-01	.2971E-03	0.0000	0.000	0.000
301	0.00	0.000	0.010	0.0495	4.0853	.2160E-01	.2934E-03	0.0000	0.000	0.000
302	0.00	0.000	0.010	0.0489	4.0305	.2131E-01	.2897E-03	0.0000	0.000	0.000
303	0.00	0.000	0.010	0.0483	3.9758	.2102E-01	.2860E-03	0.0000	0.000	0.000
304	0.03	0.000	0.014	0.0491	3.9215	.2073E-01	.2824E-03	0.0000	0.000	0.000
305	0.00	0.000	0.009	0.0485	3.8684	.2045E-01	.2788E-03	0.0000	0.000	0.000
306	0.00	0.000	0.009	0.0479	3.8162	.2018E-01	.2753E-03	0.0000	0.000	0.000
307	0.00	0.000	0.009	0.0474	3.7641	.1990E-01	.2718E-03	0.0000	0.000	0.000
308	0.00	0.000	0.009	0.0469	3.7116	.1962E-01	.2683E-03	0.0000	0.000	0.000
309	0.00	0.000	0.009	0.0463	3.6591	.1935E-01	.2648E-03	0.0000	0.000	0.000
310	0.00	0.000	0.009	0.0458	3.6069	.1907E-01	.2613E-03	0.0000	0.000	0.000
311	0.00	0.000	0.009	0.0454	3.5553	.1880E-01	.2578E-03	0.0000	0.000	0.000
312	0.00	0.000	0.009	0.0449	3.5043	.1853E-01	.2544E-03	0.0000	0.000	0.000
313	0.00	0.000	0.009	0.0444	3.4541	.1826E-01	.2510E-03	0.0000	0.000	0.000
314	0.00	0.000	0.009	0.0439	3.4046	.1800E-01	.2477E-03	0.0000	0.000	0.000
315	0.00	0.000	0.009	0.0434	3.3558	.1774E-01	.2444E-03	0.0000	0.000	0.000
316	0.00	0.000	0.008	0.0430	3.3077	.1749E-01	.2411E-03	0.0000	0.000	0.000
317	0.00	0.000	0.008	0.0425	3.2603	.1724E-01	.2379E-03	0.0000	0.000	0.000
318	0.00	0.000	0.008	0.0420	3.2136	.1699E-01	.2348E-03	0.0000	0.000	0.000
319	0.00	0.000	0.008	0.0416	3.1677	.1675E-01	.2316E-03	0.0000	0.000	0.000
320	0.00	0.000	0.007	0.0411	3.1227	.1651E-01	.2286E-03	0.0000	0.000	0.000
321	0.00	0.000	0.008	0.0406	3.0814	.1629E-01	.2258E-03	0.0000	0.000	0.000
322	0.00	0.000	0.008	0.0401	3.0412	.1608E-01	.2231E-03	0.0000	0.000	0.000
323	0.00	0.000	0.008	0.0395	3.0014	.1587E-01	.2204E-03	0.0000	0.000	0.000
324	0.00	0.000	0.008	0.0390	2.9619	.1566E-01	.2177E-03	0.0000	0.000	0.000
325	0.00	0.000	0.008	0.0385	2.9228	.1545E-01	.2150E-03	0.0000	0.000	0.000
326	0.00	0.000	0.008	0.0380	2.8842	.1525E-01	.2124E-03	0.0000	0.000	0.000
327	0.00	0.000	0.008	0.0375	2.8459	.1505E-01	.2098E-03	0.0000	0.000	0.000
328	0.00	0.000	0.008	0.0370	2.8081	.1485E-01	.2072E-03	0.0000	0.000	0.000

329		0.00	0.000	0.008	0.0365	2.7706	.1465E-01	.2047E-03	0.0000	0.000	0.000
330		0.00	0.000	0.008	0.0361	2.7336	.1445E-01	.2022E-03	0.0000	0.000	0.000
331		0.00	0.000	0.008	0.0356	2.6970	.1426E-01	.1997E-03	0.0000	0.000	0.000
332		0.00	0.000	0.008	0.0351	2.6608	.1407E-01	.1972E-03	0.0000	0.000	0.000
333		0.00	0.000	0.007	0.0347	2.6251	.1388E-01	.1947E-03	0.0000	0.000	0.000
334		0.00	0.000	0.007	0.0342	2.5898	.1369E-01	.1923E-03	0.0000	0.000	0.000
335		0.00	0.000	0.006	0.0338	2.5549	.1351E-01	.1899E-03	0.0000	0.000	0.000
336		0.00	0.000	0.007	0.0334	2.5191	.1332E-01	.1875E-03	0.0000	0.000	0.000
337		0.00	0.000	0.007	0.0330	2.4830	.1313E-01	.1850E-03	0.0000	0.000	0.000
338		0.00	0.000	0.007	0.0326	2.4474	.1294E-01	.1826E-03	0.0000	0.000	0.000
339		0.00	0.000	0.007	0.0322	2.4123	.1275E-01	.1802E-03	0.0000	0.000	0.000
340		0.00	0.000	0.007	0.0317	2.3797	.1258E-01	.1779E-03	0.0000	0.000	0.000
341		0.00	0.000	0.007	0.0312	2.3506	.1243E-01	.1759E-03	0.0000	0.000	0.000
342		0.00	0.000	0.007	0.0307	2.3216	.1227E-01	.1739E-03	0.0000	0.000	0.000
343		0.00	0.000	0.007	0.0303	2.2928	.1212E-01	.1719E-03	0.0000	0.000	0.000
344	*	0.00	0.000	0.007	0.0298	2.2641	.1197E-01	.1700E-03	0.0000	0.000	0.000
345		0.04	0.000	0.009	0.0314	2.2355	.1182E-01	.1680E-03	0.0000	0.000	0.000
346	*	0.08	0.000	0.067	0.0321	2.2070	.1167E-01	.1660E-03	0.0000	0.000	0.000
347		0.00	0.000	0.007	0.0317	2.1785	.1152E-01	.1640E-03	0.0000	0.000	0.000
348		0.00	0.000	0.007	0.0313	2.1486	.1136E-01	.1620E-03	0.0000	0.000	0.000
349		0.00	0.000	0.007	0.0309	2.1187	.1120E-01	.1599E-03	0.0000	0.000	0.000
350		0.00	0.000	0.007	0.0305	2.0883	.1104E-01	.1578E-03	0.0000	0.000	0.000
351		0.00	0.000	0.007	0.0301	2.0584	.1088E-01	.1557E-03	0.0000	0.000	0.000
352		0.00	0.000	0.007	0.0297	2.0289	.1073E-01	.1537E-03	0.0000	0.000	0.000
353	*	0.00	0.000	0.003	0.0295	2.0013	.1058E-01	.1518E-03	0.0000	0.000	0.000
354		0.00	0.000	0.007	0.0287	1.9849	.1049E-01	.1506E-03	0.0000	0.000	0.000
355		0.00	0.000	0.007	0.0279	1.9756	.1044E-01	.1500E-03	0.0000	0.000	0.000
356		0.00	0.000	0.007	0.0272	1.9648	.1039E-01	.1492E-03	0.0000	0.000	0.000
357		0.00	0.000	0.007	0.0265	1.9530	.1033E-01	.1484E-03	0.0000	0.000	0.000
358		0.00	0.000	0.007	0.0259	1.9405	.1026E-01	.1475E-03	0.0000	0.000	0.000
359		0.00	0.000	0.006	0.0252	1.9278	.1019E-01	.1466E-03	0.0000	0.000	0.000
360		0.00	0.000	0.006	0.0245	1.9149	.1012E-01	.1457E-03	0.0000	0.000	0.000
361	*	0.00	0.000	0.006	0.0239	1.9019	.1006E-01	.1448E-03	0.0000	0.000	0.000
362	*	0.00	0.000	0.006	0.0232	1.8890	.9987E-02	.1439E-03	0.0000	0.000	0.000
363		0.00	0.000	0.006	0.0226	1.8761	.9919E-02	.1430E-03	0.0000	0.000	0.000
364		0.00	0.000	0.006	0.0219	1.8633	.9851E-02	.1421E-03	0.0000	0.000	0.000
365		0.00	0.000	0.006	0.0213	1.8506	.9784E-02	.1412E-03	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.92	0.45	0.30	0.00	0.13	1.37
	2.20	3.39	2.71	0.60	0.00	0.12
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.295	0.269	0.198	0.143	0.051	0.138
	2.165	2.573	1.279	0.385	0.248	0.268
LATERAL DRAINAGE COLLECTED	0.3241	0.2656	0.2498	0.1950	0.1520	0.1145
FROM LAYER 1	0.1564	0.3380	0.6889	0.7801	0.5043	0.3496
PERCOLATION/LEAKAGE THROUGH	0.0047	0.0038	0.0037	0.0029	0.0023	0.0018
LAYER 2	0.0024	0.0048	0.0093	0.0105	0.0070	0.0050
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	1.978	1.794	1.524	1.229	0.928	0.722
TOP OF LAYER 2	0.954	2.062	4.344	4.760	3.180	2.133
STD. DEVIATION OF DAILY	0.184	0.095	0.060	0.106	0.102	0.066
HEAD ON TOP OF LAYER 2	0.235	0.554	1.710	0.503	0.389	0.219
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.19	10340929.495	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	9.011	7644120.441	73.92
DRAINAGE COLLECTED FROM LAYER 1	4.1184	3493680.844	33.78
PERC./LEAKAGE THROUGH LAYER 2	0.058158	49336.017	0.48
AVG. HEAD ON TOP OF LAYER 2	2.1340		
DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 5	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
CHANGE IN WATER STORAGE	-0.939	-796871.634	-7.71
SOIL WATER AT START OF YEAR	17.962	15237151.988	
SOIL WATER AT END OF YEAR	17.022	14440280.354	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.155	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

DAILY OUTPUT FOR YEAR 3

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.17	0.000	0.008	0.0303	1.8328	.9690E-02	.1400E-03	0.0000	0.000	0.000
2			0.00	0.000	0.006	0.0299	1.8066	.9551E-02	.1382E-03	0.0000	0.000	0.000
3			0.00	0.000	0.006	0.0295	1.7823	.9423E-02	.1365E-03	0.0000	0.000	0.000
4			0.00	0.000	0.006	0.0290	1.7633	.9322E-02	.1351E-03	0.0000	0.000	0.000
5			0.00	0.000	0.006	0.0286	1.7430	.9215E-02	.1337E-03	0.0000	0.000	0.000
6			0.00	0.000	0.006	0.0282	1.7222	.9105E-02	.1323E-03	0.0000	0.000	0.000
7			0.00	0.000	0.006	0.0277	1.7016	.8996E-02	.1308E-03	0.0000	0.000	0.000
8			0.00	0.000	0.006	0.0273	1.6811	.8888E-02	.1294E-03	0.0000	0.000	0.000
9			0.00	0.000	0.006	0.0269	1.6603	.8778E-02	.1279E-03	0.0000	0.000	0.000
10			0.00	0.000	0.006	0.0265	1.6393	.8667E-02	.1264E-03	0.0000	0.000	0.000
11			0.00	0.000	0.006	0.0261	1.6201	.8565E-02	.1251E-03	0.0000	0.000	0.000
12			0.00	0.000	0.006	0.0257	1.6012	.8465E-02	.1237E-03	0.0000	0.000	0.000
13			0.00	0.000	0.005	0.0249	1.5928	.8421E-02	.1231E-03	0.0000	0.000	0.000
14			0.00	0.000	0.002	0.0247	1.5828	.8368E-02	.1224E-03	0.0000	0.000	0.000
15			0.00	0.000	0.002	0.0244	1.5647	.8272E-02	.1211E-03	0.0000	0.000	0.000
16			0.16	0.000	0.004	0.0331	1.5467	.8177E-02	.1199E-03	0.0000	0.000	0.000
17			0.00	0.000	0.002	0.0330	1.5249	.8062E-02	.1183E-03	0.0000	0.000	0.000
18			0.89	0.000	0.005	0.0821	1.5038	.7950E-02	.1168E-03	0.0000	0.000	0.000
19			0.49	0.000	0.099	0.1038	1.4824	.7837E-02	.1153E-03	0.0000	0.000	0.000
20			0.09	0.000	0.127	0.1017	1.4612	.7725E-02	.1138E-03	0.0000	0.000	0.000
21			0.27	0.000	0.118	0.1102	1.4402	.7614E-02	.1123E-03	0.0000	0.000	0.000
22			0.00	0.000	0.143	0.1018	1.4357	.7591E-02	.1120E-03	0.0000	0.000	0.000
23			0.00	0.000	0.128	0.0946	1.4205	.7510E-02	.1109E-03	0.0000	0.000	0.000
24			0.00	0.000	0.147	0.0865	1.4001	.7402E-02	.1095E-03	0.0000	0.000	0.000
25			0.00	0.000	0.125	0.0795	1.3800	.7296E-02	.1080E-03	0.0000	0.000	0.000
26			0.04	0.000	0.107	0.0757	1.3604	.7192E-02	.1066E-03	0.0000	0.000	0.000
27			0.00	0.000	0.047	0.0730	1.3459	.7115E-02	.1056E-03	0.0000	0.000	0.000
28			0.00	0.000	0.041	0.0707	1.3270	.7016E-02	.1042E-03	0.0000	0.000	0.000
29			0.00	0.000	0.035	0.0688	1.3080	.6915E-02	.1029E-03	0.0000	0.000	0.000
30			0.00	0.000	0.031	0.0671	1.2892	.6816E-02	.1015E-03	0.0000	0.000	0.000
31			0.00	0.000	0.027	0.0655	1.2718	.6724E-02	.1003E-03	0.0000	0.000	0.000
32			0.00	0.000	0.025	0.0639	1.2598	.6660E-02	.9940E-04	0.0000	0.000	0.000
33			0.00	0.000	0.024	0.0619	1.2585	.6654E-02	.9931E-04	0.0000	0.000	0.000
34			0.00	0.000	0.022	0.0597	1.2797	.6765E-02	.1008E-03	0.0000	0.000	0.000
35			0.00	0.000	0.021	0.0574	1.3183	.6969E-02	.1036E-03	0.0000	0.000	0.000
36			0.00	0.000	0.020	0.0556	1.3398	.7083E-02	.1051E-03	0.0000	0.000	0.000
37			0.00	0.000	0.019	0.0538	1.3533	.7155E-02	.1061E-03	0.0000	0.000	0.000
38			0.00	0.000	0.018	0.0521	1.3716	.7251E-02	.1074E-03	0.0000	0.000	0.000
39			0.00	0.000	0.018	0.0498	1.3936	.7368E-02	.1090E-03	0.0000	0.000	0.000
40			0.00	0.000	0.017	0.0477	1.4338	.7580E-02	.1119E-03	0.0000	0.000	0.000
41			0.00	0.000	0.016	0.0458	1.4660	.7750E-02	.1141E-03	0.0000	0.000	0.000
42			0.00	0.000	0.016	0.0442	1.4879	.7866E-02	.1157E-03	0.0000	0.000	0.000
43			0.00	0.000	0.016	0.0427	1.5013	.7937E-02	.1166E-03	0.0000	0.000	0.000
44			0.00	0.000	0.015	0.0416	1.4999	.7930E-02	.1166E-03	0.0000	0.000	0.000
45			0.00	0.000	0.015	0.0403	1.4954	.7906E-02	.1162E-03	0.0000	0.000	0.000
46			0.00	0.000	0.014	0.0388	1.5041	.7952E-02	.1169E-03	0.0000	0.000	0.000
47			0.00	0.000	0.014	0.0372	1.5172	.8021E-02	.1178E-03	0.0000	0.000	0.000
48			0.00	0.000	0.014	0.0354	1.5404	.8144E-02	.1194E-03	0.0000	0.000	0.000
49			0.00	0.000	0.013	0.0339	1.5639	.8268E-02	.1211E-03	0.0000	0.000	0.000
50			0.00	0.000	0.013	0.0326	1.5722	.8312E-02	.1217E-03	0.0000	0.000	0.000
51			0.00	0.000	0.013	0.0315	1.5725	.8313E-02	.1217E-03	0.0000	0.000	0.000
52			0.00	0.000	0.013	0.0305	1.5680	.8290E-02	.1214E-03	0.0000	0.000	0.000
53			0.19	0.000	0.013	0.0400	1.5605	.8250E-02	.1208E-03	0.0000	0.000	0.000
54			0.00	0.000	0.011	0.0392	1.5500	.8195E-02	.1201E-03	0.0000	0.000	0.000
55			0.00	0.000	0.012	0.0381	1.5412	.8148E-02	.1195E-03	0.0000	0.000	0.000
56			0.00	0.000	0.012	0.0372	1.5367	.8125E-02	.1192E-03	0.0000	0.000	0.000
57			0.00	0.000	0.012	0.0363	1.5289	.8083E-02	.1186E-03	0.0000	0.000	0.000

58	0.00	0.000	0.011	0.0354	1.5195	.8033E-02	.1179E-03	0.0000	0.000	0.000
59	0.08	0.000	0.012	0.0388	1.5104	.7985E-02	.1173E-03	0.0000	0.000	0.000
60	0.02	0.000	0.012	0.0388	1.5075	.7970E-02	.1171E-03	0.0000	0.000	0.000
61	0.00	0.000	0.011	0.0379	1.5022	.7942E-02	.1167E-03	0.0000	0.000	0.000
62	0.00	0.000	0.011	0.0374	1.4898	.7876E-02	.1158E-03	0.0000	0.000	0.000
63	0.00	0.000	0.011	0.0368	1.4684	.7763E-02	.1143E-03	0.0000	0.000	0.000
64	0.00	0.000	0.010	0.0362	1.4474	.7652E-02	.1128E-03	0.0000	0.000	0.000
65	0.00	0.000	0.010	0.0356	1.4274	.7547E-02	.1114E-03	0.0000	0.000	0.000
66	0.00	0.000	0.010	0.0349	1.4099	.7454E-02	.1101E-03	0.0000	0.000	0.000
67	0.00	0.000	0.010	0.0342	1.3942	.7371E-02	.1090E-03	0.0000	0.000	0.000
68	0.00	0.000	0.010	0.0336	1.3798	.7295E-02	.1080E-03	0.0000	0.000	0.000
69	0.00	0.000	0.010	0.0329	1.3663	.7223E-02	.1070E-03	0.0000	0.000	0.000
70	0.00	0.000	0.010	0.0322	1.3531	.7154E-02	.1061E-03	0.0000	0.000	0.000
71	0.00	0.000	0.010	0.0316	1.3389	.7079E-02	.1051E-03	0.0000	0.000	0.000
72	0.00	0.000	0.010	0.0309	1.3252	.7006E-02	.1041E-03	0.0000	0.000	0.000
73	0.00	0.000	0.009	0.0303	1.3119	.6936E-02	.1031E-03	0.0000	0.000	0.000
74	0.00	0.000	0.009	0.0296	1.2990	.6867E-02	.1022E-03	0.0000	0.000	0.000
75	0.00	0.000	0.009	0.0290	1.2863	.6800E-02	.1013E-03	0.0000	0.000	0.000
76	0.00	0.000	0.009	0.0284	1.2738	.6734E-02	.1004E-03	0.0000	0.000	0.000
77	0.00	0.000	0.009	0.0277	1.2615	.6669E-02	.9952E-04	0.0000	0.000	0.000
78	0.00	0.000	0.009	0.0271	1.2493	.6605E-02	.9865E-04	0.0000	0.000	0.000
79	0.00	0.000	0.009	0.0265	1.2373	.6541E-02	.9778E-04	0.0000	0.000	0.000
80	0.00	0.000	0.009	0.0259	1.2254	.6479E-02	.9693E-04	0.0000	0.000	0.000
81	0.00	0.000	0.009	0.0253	1.2137	.6416E-02	.9608E-04	0.0000	0.000	0.000
82	0.00	0.000	0.009	0.0247	1.2020	.6355E-02	.9524E-04	0.0000	0.000	0.000
83	0.00	0.000	0.009	0.0241	1.1905	.6294E-02	.9441E-04	0.0000	0.000	0.000
84	0.00	0.000	0.008	0.0235	1.1791	.6234E-02	.9358E-04	0.0000	0.000	0.000
85	0.00	0.000	0.008	0.0229	1.1678	.6174E-02	.9277E-04	0.0000	0.000	0.000
86	0.00	0.000	0.008	0.0224	1.1566	.6115E-02	.9196E-04	0.0000	0.000	0.000
87	0.00	0.000	0.008	0.0218	1.1455	.6056E-02	.9115E-04	0.0000	0.000	0.000
88	0.00	0.000	0.008	0.0212	1.1340	.5995E-02	.9032E-04	0.0000	0.000	0.000
89	0.00	0.000	0.008	0.0207	1.1216	.5930E-02	.8942E-04	0.0000	0.000	0.000
90	0.00	0.000	0.006	0.0204	1.1078	.5857E-02	.8842E-04	0.0000	0.000	0.000
91	0.00	0.000	0.008	0.0198	1.0959	.5794E-02	.8755E-04	0.0000	0.000	0.000
92	0.00	0.000	0.008	0.0194	1.0815	.5718E-02	.8651E-04	0.0000	0.000	0.000
93	0.00	0.000	0.008	0.0190	1.0660	.5636E-02	.8538E-04	0.0000	0.000	0.000
94	0.00	0.000	0.008	0.0185	1.0507	.5555E-02	.8426E-04	0.0000	0.000	0.000
95	0.00	0.000	0.008	0.0181	1.0356	.5475E-02	.8316E-04	0.0000	0.000	0.000
96	0.00	0.000	0.002	0.0180	1.0207	.5397E-02	.8207E-04	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.0180	1.0061	.5319E-02	.8100E-04	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.0180	0.9917	.5243E-02	.7994E-04	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.0180	0.9774	.5168E-02	.7890E-04	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.0180	0.9634	.5093E-02	.7787E-04	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.0180	0.9496	.5020E-02	.7685E-04	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.0180	0.9359	.4948E-02	.7585E-04	0.0000	0.000	0.000
103	0.00	0.000	0.000	0.0180	0.9225	.4877E-02	.7486E-04	0.0000	0.000	0.000
104	0.00	0.000	0.000	0.0180	0.9093	.4807E-02	.7388E-04	0.0000	0.000	0.000
105	0.00	0.000	0.000	0.0180	0.8962	.4738E-02	.7292E-04	0.0000	0.000	0.000
106	0.00	0.000	0.000	0.0180	0.8834	.4670E-02	.7197E-04	0.0000	0.000	0.000
107	0.00	0.000	0.000	0.0180	0.8707	.4603E-02	.7103E-04	0.0000	0.000	0.000
108	0.00	0.000	0.000	0.0180	0.8582	.4537E-02	.7010E-04	0.0000	0.000	0.000
109	0.00	0.000	0.000	0.0180	0.8459	.4472E-02	.6919E-04	0.0000	0.000	0.000
110	0.00	0.000	0.000	0.0180	0.8337	.4408E-02	.6829E-04	0.0000	0.000	0.000
111	0.00	0.000	0.000	0.0180	0.8218	.4345E-02	.6740E-04	0.0000	0.000	0.000
112	0.00	0.000	0.000	0.0180	0.8100	.4282E-02	.6652E-04	0.0000	0.000	0.000
113	0.00	0.000	0.000	0.0180	0.7983	.4221E-02	.6565E-04	0.0000	0.000	0.000
114	0.00	0.000	0.000	0.0180	0.7869	.4160E-02	.6479E-04	0.0000	0.000	0.000
115	0.00	0.000	0.000	0.0180	0.7756	.4100E-02	.6395E-04	0.0000	0.000	0.000
116	0.00	0.000	0.000	0.0180	0.7644	.4041E-02	.6312E-04	0.0000	0.000	0.000
117	0.00	0.000	0.000	0.0180	0.7535	.3983E-02	.6229E-04	0.0000	0.000	0.000
118	0.00	0.000	0.000	0.0180	0.7427	.3926E-02	.6148E-04	0.0000	0.000	0.000
119	0.00	0.000	0.000	0.0180	0.7320	.3870E-02	.6068E-04	0.0000	0.000	0.000
120	0.00	0.000	0.000	0.0180	0.7215	.3814E-02	.5989E-04	0.0000	0.000	0.000
121	0.00	0.000	0.000	0.0180	0.7111	.3760E-02	.5911E-04	0.0000	0.000	0.000
122	0.00	0.000	0.000	0.0180	0.7009	.3706E-02	.5834E-04	0.0000	0.000	0.000
123	0.24	0.000	0.004	0.0311	0.6908	.3652E-02	.5758E-04	0.0000	0.000	0.000
124	0.00	0.000	0.003	0.0305	0.6862	.3628E-02	.5722E-04	0.0000	0.000	0.000

125	0.00	0.000	0.003	0.0298	0.7022	.3712E-02	.5844E-04	0.0000	0.000	0.000
126	0.00	0.000	0.003	0.0292	0.7158	.3784E-02	.5946E-04	0.0000	0.000	0.000
127	0.00	0.000	0.003	0.0287	0.7248	.3832E-02	.6014E-04	0.0000	0.000	0.000
128	0.00	0.000	0.003	0.0283	0.7303	.3861E-02	.6055E-04	0.0000	0.000	0.000
129	0.00	0.000	0.003	0.0279	0.7332	.3876E-02	.6077E-04	0.0000	0.000	0.000
130	0.00	0.000	0.003	0.0275	0.7342	.3882E-02	.6085E-04	0.0000	0.000	0.000
131	0.14	0.000	0.004	0.0350	0.7323	.3872E-02	.6071E-04	0.0000	0.000	0.000
132	0.09	0.000	0.004	0.0398	0.7225	.3820E-02	.5997E-04	0.0000	0.000	0.000
133	0.00	0.000	0.004	0.0396	0.7122	.3765E-02	.5919E-04	0.0000	0.000	0.000
134	0.00	0.000	0.004	0.0393	0.7019	.3711E-02	.5842E-04	0.0000	0.000	0.000
135	0.00	0.000	0.004	0.0391	0.6919	.3658E-02	.5765E-04	0.0000	0.000	0.000
136	0.00	0.000	0.004	0.0389	0.6819	.3605E-02	.5690E-04	0.0000	0.000	0.000
137	0.00	0.000	0.004	0.0386	0.6721	.3553E-02	.5616E-04	0.0000	0.000	0.000
138	0.00	0.000	0.004	0.0384	0.6625	.3502E-02	.5543E-04	0.0000	0.000	0.000
139	0.00	0.000	0.004	0.0382	0.6530	.3452E-02	.5471E-04	0.0000	0.000	0.000
140	0.00	0.000	0.004	0.0379	0.6436	.3403E-02	.5400E-04	0.0000	0.000	0.000
141	0.00	0.000	0.004	0.0377	0.6346	.3355E-02	.5332E-04	0.0000	0.000	0.000
142	0.00	0.000	0.004	0.0374	0.6273	.3316E-02	.5275E-04	0.0000	0.000	0.000
143	0.00	0.000	0.004	0.0371	0.6212	.3284E-02	.5229E-04	0.0000	0.000	0.000
144	0.00	0.000	0.004	0.0368	0.6161	.3257E-02	.5190E-04	0.0000	0.000	0.000
145	0.00	0.000	0.004	0.0365	0.6116	.3234E-02	.5156E-04	0.0000	0.000	0.000
146	0.00	0.000	0.004	0.0362	0.6075	.3212E-02	.5125E-04	0.0000	0.000	0.000
147	0.00	0.000	0.004	0.0359	0.6028	.3187E-02	.5089E-04	0.0000	0.000	0.000
148	0.00	0.000	0.004	0.0356	0.5982	.3162E-02	.5053E-04	0.0000	0.000	0.000
149	0.00	0.000	0.004	0.0353	0.5939	.3140E-02	.5020E-04	0.0000	0.000	0.000
150	0.00	0.000	0.004	0.0350	0.5897	.3118E-02	.4988E-04	0.0000	0.000	0.000
151	0.00	0.000	0.004	0.0346	0.5857	.3096E-02	.4957E-04	0.0000	0.000	0.000
152	0.00	0.000	0.004	0.0343	0.5817	.3075E-02	.4927E-04	0.0000	0.000	0.000
153	0.00	0.000	0.004	0.0340	0.5776	.3054E-02	.4896E-04	0.0000	0.000	0.000
154	0.00	0.000	0.004	0.0337	0.5736	.3033E-02	.4865E-04	0.0000	0.000	0.000
155	0.00	0.000	0.004	0.0334	0.5695	.3011E-02	.4833E-04	0.0000	0.000	0.000
156	0.00	0.000	0.004	0.0331	0.5653	.2989E-02	.4801E-04	0.0000	0.000	0.000
157	0.00	0.000	0.004	0.0329	0.5611	.2967E-02	.4769E-04	0.0000	0.000	0.000
158	0.17	0.000	0.006	0.0418	0.5578	.2949E-02	.4743E-04	0.0000	0.000	0.000
159	0.00	0.000	0.004	0.0416	0.5563	.2941E-02	.4732E-04	0.0000	0.000	0.000
160	0.00	0.000	0.004	0.0414	0.5489	.2902E-02	.4674E-04	0.0000	0.000	0.000
161	0.39	0.000	0.006	0.0626	0.5451	.2882E-02	.4645E-04	0.0000	0.000	0.000
162	0.21	0.000	0.006	0.0739	0.5397	.2853E-02	.4604E-04	0.0000	0.000	0.000
163	0.00	0.000	0.302	0.0571	0.5320	.2812E-02	.4544E-04	0.0000	0.000	0.000
164	0.00	0.000	0.005	0.0568	0.5246	.2773E-02	.4487E-04	0.0000	0.000	0.000
165	0.00	0.000	0.005	0.0566	0.5171	.2734E-02	.4429E-04	0.0000	0.000	0.000
166	0.00	0.000	0.005	0.0563	0.5097	.2695E-02	.4371E-04	0.0000	0.000	0.000
167	0.00	0.000	0.005	0.0560	0.5024	.2656E-02	.4315E-04	0.0000	0.000	0.000
168	0.00	0.000	0.005	0.0557	0.4952	.2618E-02	.4258E-04	0.0000	0.000	0.000
169	0.00	0.000	0.005	0.0555	0.4881	.2580E-02	.4203E-04	0.0000	0.000	0.000
170	0.00	0.000	0.005	0.0552	0.4810	.2543E-02	.4148E-04	0.0000	0.000	0.000
171	0.00	0.000	0.005	0.0549	0.4741	.2507E-02	.4094E-04	0.0000	0.000	0.000
172	0.33	0.000	0.007	0.0728	0.4673	.2471E-02	.4041E-04	0.0000	0.000	0.000
173	0.00	0.000	0.005	0.0726	0.4606	.2435E-02	.3989E-04	0.0000	0.000	0.000
174	0.00	0.000	0.005	0.0720	0.4597	.2430E-02	.3981E-04	0.0000	0.000	0.000
175	0.00	0.000	0.005	0.0715	0.4668	.2468E-02	.4037E-04	0.0000	0.000	0.000
176	0.00	0.000	0.005	0.0713	0.4647	.2457E-02	.4021E-04	0.0000	0.000	0.000
177	0.02	0.000	0.007	0.0720	0.4581	.2422E-02	.3969E-04	0.0000	0.000	0.000
178	0.00	0.000	0.005	0.0717	0.4515	.2387E-02	.3917E-04	0.0000	0.000	0.000
179	0.00	0.000	0.005	0.0712	0.4470	.2363E-02	.3882E-04	0.0000	0.000	0.000
180	0.00	0.000	0.005	0.0702	0.4623	.2444E-02	.4002E-04	0.0000	0.000	0.000
181	0.00	0.000	0.005	0.0691	0.4921	.2601E-02	.4234E-04	0.0000	0.000	0.000
182	0.00	0.000	0.005	0.0681	0.5227	.2763E-02	.4472E-04	0.0000	0.000	0.000
183	0.00	0.000	0.005	0.0672	0.5499	.2907E-02	.4683E-04	0.0000	0.000	0.000
184	0.00	0.000	0.005	0.0663	0.5733	.3031E-02	.4862E-04	0.0000	0.000	0.000
185	0.00	0.000	0.005	0.0655	0.5932	.3136E-02	.5015E-04	0.0000	0.000	0.000
186	0.00	0.000	0.005	0.0647	0.6103	.3227E-02	.5146E-04	0.0000	0.000	0.000
187	0.00	0.000	0.005	0.0640	0.6251	.3305E-02	.5259E-04	0.0000	0.000	0.000
188	0.00	0.000	0.005	0.0633	0.6379	.3373E-02	.5356E-04	0.0000	0.000	0.000
189	0.00	0.000	0.005	0.0627	0.6491	.3432E-02	.5441E-04	0.0000	0.000	0.000
190	0.00	0.000	0.005	0.0620	0.6588	.3483E-02	.5515E-04	0.0000	0.000	0.000
191	0.00	0.000	0.005	0.0614	0.6673	.3528E-02	.5580E-04	0.0000	0.000	0.000

192	0.00	0.000	0.005	0.0608	0.6746	.3567E-02	.5635E-04	0.0000	0.000	0.000
193	0.17	0.000	0.008	0.0695	0.6815	.3603E-02	.5687E-04	0.0000	0.000	0.000
194	0.00	0.000	0.323	0.0509	0.6829	.3610E-02	.5698E-04	0.0000	0.000	0.000
195	0.00	0.000	0.005	0.0502	0.7098	.3752E-02	.5901E-04	0.0000	0.000	0.000
196	0.00	0.000	0.005	0.0496	0.7186	.3799E-02	.5967E-04	0.0000	0.000	0.000
197	0.00	0.000	0.005	0.0491	0.7238	.3827E-02	.6006E-04	0.0000	0.000	0.000
198	0.00	0.000	0.005	0.0486	0.7265	.3841E-02	.6027E-04	0.0000	0.000	0.000
199	0.00	0.000	0.005	0.0481	0.7274	.3846E-02	.6033E-04	0.0000	0.000	0.000
200	0.00	0.000	0.005	0.0477	0.7269	.3843E-02	.6029E-04	0.0000	0.000	0.000
201	0.00	0.000	0.004	0.0473	0.7252	.3834E-02	.6017E-04	0.0000	0.000	0.000
202	0.00	0.000	0.004	0.0469	0.7227	.3821E-02	.5998E-04	0.0000	0.000	0.000
203	0.00	0.000	0.004	0.0465	0.7195	.3804E-02	.5974E-04	0.0000	0.000	0.000
204	0.00	0.000	0.004	0.0461	0.7158	.3784E-02	.5946E-04	0.0000	0.000	0.000
205	0.00	0.000	0.004	0.0457	0.7115	.3762E-02	.5914E-04	0.0000	0.000	0.000
206	0.00	0.000	0.004	0.0454	0.7069	.3737E-02	.5879E-04	0.0000	0.000	0.000
207	0.02	0.000	0.008	0.0459	0.7019	.3711E-02	.5842E-04	0.0000	0.000	0.000
208	0.00	0.000	0.004	0.0457	0.6955	.3677E-02	.5793E-04	0.0000	0.000	0.000
209	0.00	0.000	0.004	0.0454	0.6873	.3633E-02	.5731E-04	0.0000	0.000	0.000
210	0.00	0.000	0.004	0.0451	0.6792	.3591E-02	.5670E-04	0.0000	0.000	0.000
211	0.00	0.000	0.004	0.0448	0.6714	.3549E-02	.5610E-04	0.0000	0.000	0.000
212	0.00	0.000	0.004	0.0445	0.6637	.3509E-02	.5552E-04	0.0000	0.000	0.000
213	0.00	0.000	0.004	0.0443	0.6562	.3469E-02	.5495E-04	0.0000	0.000	0.000
214	0.52	0.000	0.008	0.0726	0.6498	.3436E-02	.5447E-04	0.0000	0.000	0.000
215	0.00	0.000	0.304	0.0549	0.6581	.3479E-02	.5510E-04	0.0000	0.000	0.000
216	0.00	0.000	0.005	0.0542	0.6899	.3647E-02	.5751E-04	0.0000	0.000	0.000
217	0.00	0.000	0.004	0.0539	0.6863	.3628E-02	.5723E-04	0.0000	0.000	0.000
218	0.00	0.000	0.004	0.0536	0.6781	.3585E-02	.5661E-04	0.0000	0.000	0.000
219	0.00	0.000	0.004	0.0534	0.6700	.3542E-02	.5600E-04	0.0000	0.000	0.000
220	0.00	0.000	0.004	0.0531	0.6620	.3500E-02	.5539E-04	0.0000	0.000	0.000
221	0.03	0.000	0.008	0.0543	0.6530	.3452E-02	.5471E-04	0.0000	0.000	0.000
222	0.27	0.000	0.008	0.0689	0.6436	.3403E-02	.5400E-04	0.0000	0.000	0.000
223	0.00	0.000	0.292	0.0527	0.6343	.3354E-02	.5329E-04	0.0000	0.000	0.000
224	0.00	0.000	0.004	0.0524	0.6262	.3311E-02	.5267E-04	0.0000	0.000	0.000
225	0.00	0.000	0.004	0.0521	0.6198	.3277E-02	.5218E-04	0.0000	0.000	0.000
226	0.00	0.000	0.004	0.0518	0.6134	.3243E-02	.5169E-04	0.0000	0.000	0.000
227	0.00	0.000	0.004	0.0515	0.6069	.3209E-02	.5120E-04	0.0000	0.000	0.000
228	0.00	0.000	0.004	0.0513	0.6006	.3175E-02	.5071E-04	0.0000	0.000	0.000
229	0.00	0.000	0.004	0.0510	0.5942	.3141E-02	.5023E-04	0.0000	0.000	0.000
230	0.00	0.000	0.004	0.0507	0.5878	.3108E-02	.4974E-04	0.0000	0.000	0.000
231	0.35	0.000	0.008	0.0696	0.5815	.3074E-02	.4926E-04	0.0000	0.000	0.000
232	0.00	0.000	0.296	0.0532	0.5745	.3037E-02	.4871E-04	0.0000	0.000	0.000
233	0.00	0.000	0.004	0.0529	0.5674	.3000E-02	.4817E-04	0.0000	0.000	0.000
234	0.00	0.000	0.004	0.0526	0.5623	.2973E-02	.4778E-04	0.0000	0.000	0.000
235	0.00	0.000	0.004	0.0523	0.5571	.2945E-02	.4738E-04	0.0000	0.000	0.000
236	0.68	0.000	0.008	0.0896	0.5517	.2917E-02	.4696E-04	0.0000	0.000	0.000
237	0.05	0.000	0.270	0.0770	0.5584	.2952E-02	.4748E-04	0.0000	0.000	0.000
238	1.86	0.000	0.207	0.1682	0.5733	.3031E-02	.4862E-04	0.0000	0.000	0.000
239	0.08	0.000	0.171	0.1380	0.8645	.4570E-02	.7021E-04	0.0000	0.000	0.000
240	0.49	0.000	0.279	0.1326	2.2553	.1192E-01	.1692E-03	0.0000	0.000	0.000
241	0.00	0.000	0.281	0.1133	2.6037	.1377E-01	.1933E-03	0.0000	0.000	0.000
242	0.00	0.000	0.244	0.0981	2.7493	.1454E-01	.2032E-03	0.0000	0.000	0.000
243	0.00	0.000	0.265	0.0810	2.7802	.1470E-01	.2053E-03	0.0000	0.000	0.000
244	2.84	0.000	0.134	0.2207	2.8537	.1509E-01	.2103E-03	0.0000	0.000	0.000
245	0.74	0.000	0.186	0.1664	5.6278	.2975E-01	.3957E-03	0.0000	0.000	0.000
246	2.29	0.000	0.172	0.1970	8.5000	.4494E-01	.5863E-03	0.0000	0.000	0.000
247	0.00	0.000	0.258	0.1290	12.6240	.6674E-01	.8610E-03	0.0000	0.000	0.000
248	0.00	0.000	0.256	0.0981	14.2276	.7522E-01	.9690E-03	0.0000	0.000	0.000
249	0.00	0.000	0.252	0.0806	14.4376	.7633E-01	.9832E-03	0.0000	0.000	0.000
250	0.00	0.000	0.130	0.0713	14.3666	.7595E-01	.9784E-03	0.0000	0.000	0.000
251	0.00	0.000	0.054	0.0676	14.2253	.7521E-01	.9688E-03	0.0000	0.000	0.000
252	0.00	0.000	0.041	0.0627	14.1065	.7458E-01	.9608E-03	0.0000	0.000	0.000
253	0.00	0.000	0.035	0.0584	14.0243	.7414E-01	.9552E-03	0.0000	0.000	0.000
254	0.00	0.000	0.031	0.0550	13.9251	.7362E-01	.9485E-03	0.0000	0.000	0.000
255	0.00	0.000	0.028	0.0512	13.8157	.7304E-01	.9411E-03	0.0000	0.000	0.000
256	0.00	0.000	0.025	0.0480	13.7188	.7253E-01	.9346E-03	0.0000	0.000	0.000
257	0.30	0.000	0.028	0.0619	13.5963	.7188E-01	.9263E-03	0.0000	0.000	0.000
258	0.00	0.000	0.022	0.0597	13.4560	.7114E-01	.9169E-03	0.0000	0.000	0.000

259	0.00	0.000	0.021	0.0578	13.3056	.7034E-01	.9068E-03	0.0000	0.000	0.000
260	0.00	0.000	0.020	0.0561	13.1474	.6951E-01	.8961E-03	0.0000	0.000	0.000
261	0.00	0.000	0.019	0.0546	12.9843	.6865E-01	.8851E-03	0.0000	0.000	0.000
262	0.00	0.000	0.018	0.0531	12.8219	.6779E-01	.8742E-03	0.0000	0.000	0.000
263	0.00	0.000	0.018	0.0516	12.6620	.6694E-01	.8635E-03	0.0000	0.000	0.000
264	0.00	0.000	0.017	0.0502	12.5031	.6610E-01	.8528E-03	0.0000	0.000	0.000
265	0.00	0.000	0.016	0.0489	12.3449	.6527E-01	.8422E-03	0.0000	0.000	0.000
266	0.00	0.000	0.016	0.0476	12.1873	.6443E-01	.8316E-03	0.0000	0.000	0.000
267	0.00	0.000	0.016	0.0464	12.0306	.6360E-01	.8211E-03	0.0000	0.000	0.000
268	0.00	0.000	0.015	0.0452	11.8749	.6278E-01	.8107E-03	0.0000	0.000	0.000
269	0.00	0.000	0.015	0.0441	11.7204	.6196E-01	.8004E-03	0.0000	0.000	0.000
270	0.00	0.000	0.014	0.0430	11.5672	.6115E-01	.7902E-03	0.0000	0.000	0.000
271	0.00	0.000	0.014	0.0419	11.4160	.6035E-01	.7800E-03	0.0000	0.000	0.000
272	0.00	0.000	0.014	0.0407	11.2715	.5959E-01	.7704E-03	0.0000	0.000	0.000
273	0.00	0.000	0.013	0.0397	11.1263	.5882E-01	.7607E-03	0.0000	0.000	0.000
274	0.07	0.000	0.018	0.0423	10.9805	.5805E-01	.7510E-03	0.0000	0.000	0.000
275	0.17	0.000	0.017	0.0506	10.8355	.5729E-01	.7413E-03	0.0000	0.000	0.000
276	0.17	0.000	0.017	0.0588	10.6917	.5653E-01	.7317E-03	0.0000	0.000	0.000
277	0.04	0.000	0.017	0.0599	10.5495	.5577E-01	.7223E-03	0.0000	0.000	0.000
278	0.00	0.000	0.012	0.0590	10.4082	.5503E-01	.7129E-03	0.0000	0.000	0.000
279	0.00	0.000	0.012	0.0582	10.2679	.5428E-01	.7035E-03	0.0000	0.000	0.000
280	0.00	0.000	0.012	0.0574	10.1282	.5355E-01	.6942E-03	0.0000	0.000	0.000
281	0.00	0.000	0.012	0.0566	9.9903	.5282E-01	.6851E-03	0.0000	0.000	0.000
282	0.00	0.000	0.011	0.0559	9.8538	.5210E-01	.6760E-03	0.0000	0.000	0.000
283	0.00	0.000	0.011	0.0551	9.7187	.5138E-01	.6670E-03	0.0000	0.000	0.000
284	0.00	0.000	0.011	0.0544	9.5851	.5068E-01	.6581E-03	0.0000	0.000	0.000
285	0.00	0.000	0.011	0.0537	9.4530	.4998E-01	.6494E-03	0.0000	0.000	0.000
286	0.00	0.000	0.011	0.0530	9.3224	.4929E-01	.6407E-03	0.0000	0.000	0.000
287	0.00	0.000	0.011	0.0523	9.1934	.4860E-01	.6322E-03	0.0000	0.000	0.000
288	0.00	0.000	0.010	0.0517	9.0660	.4793E-01	.6237E-03	0.0000	0.000	0.000
289	0.00	0.000	0.010	0.0510	8.9401	.4727E-01	.6154E-03	0.0000	0.000	0.000
290	0.00	0.000	0.010	0.0504	8.8159	.4661E-01	.6071E-03	0.0000	0.000	0.000
291	0.00	0.000	0.010	0.0497	8.6932	.4596E-01	.5990E-03	0.0000	0.000	0.000
292	0.00	0.000	0.010	0.0491	8.5721	.4532E-01	.5910E-03	0.0000	0.000	0.000
293	0.00	0.000	0.010	0.0485	8.4525	.4469E-01	.5831E-03	0.0000	0.000	0.000
294	0.00	0.000	0.010	0.0479	8.3344	.4406E-01	.5752E-03	0.0000	0.000	0.000
295	0.00	0.000	0.010	0.0473	8.2175	.4344E-01	.5675E-03	0.0000	0.000	0.000
296	0.00	0.000	0.010	0.0468	8.1020	.4283E-01	.5598E-03	0.0000	0.000	0.000
297	0.00	0.000	0.009	0.0462	7.9886	.4223E-01	.5523E-03	0.0000	0.000	0.000
298	0.00	0.000	0.009	0.0456	7.8769	.4164E-01	.5449E-03	0.0000	0.000	0.000
299	0.00	0.000	0.009	0.0450	7.7666	.4106E-01	.5377E-03	0.0000	0.000	0.000
300	0.00	0.000	0.009	0.0445	7.6579	.4049E-01	.5305E-03	0.0000	0.000	0.000
301	0.00	0.000	0.009	0.0439	7.5506	.3992E-01	.5234E-03	0.0000	0.000	0.000
302	0.00	0.000	0.009	0.0434	7.4447	.3936E-01	.5164E-03	0.0000	0.000	0.000
303	0.00	0.000	0.009	0.0428	7.3403	.3881E-01	.5094E-03	0.0000	0.000	0.000
304	0.00	0.000	0.009	0.0423	7.2373	.3826E-01	.5026E-03	0.0000	0.000	0.000
305	0.00	0.000	0.009	0.0418	7.1356	.3772E-01	.4959E-03	0.0000	0.000	0.000
306	0.00	0.000	0.009	0.0413	7.0350	.3719E-01	.4892E-03	0.0000	0.000	0.000
307	0.00	0.000	0.009	0.0408	6.9357	.3667E-01	.4827E-03	0.0000	0.000	0.000
308	0.00	0.000	0.008	0.0403	6.8376	.3615E-01	.4762E-03	0.0000	0.000	0.000
309	0.00	0.000	0.008	0.0398	6.7408	.3564E-01	.4698E-03	0.0000	0.000	0.000
310	0.00	0.000	0.008	0.0393	6.6453	.3513E-01	.4635E-03	0.0000	0.000	0.000
311	0.00	0.000	0.008	0.0388	6.5510	.3463E-01	.4572E-03	0.0000	0.000	0.000
312	0.00	0.000	0.008	0.0384	6.4581	.3414E-01	.4511E-03	0.0000	0.000	0.000
313	0.00	0.000	0.008	0.0379	6.3664	.3366E-01	.4450E-03	0.0000	0.000	0.000
314	0.00	0.000	0.008	0.0374	6.2760	.3318E-01	.4390E-03	0.0000	0.000	0.000
315	0.00	0.000	0.008	0.0370	6.1868	.3271E-01	.4331E-03	0.0000	0.000	0.000
316	0.00	0.000	0.008	0.0365	6.0993	.3225E-01	.4273E-03	0.0000	0.000	0.000
317	0.00	0.000	0.008	0.0360	6.0137	.3179E-01	.4216E-03	0.0000	0.000	0.000
318	0.00	0.000	0.008	0.0355	5.9292	.3135E-01	.4160E-03	0.0000	0.000	0.000
319	0.33	0.000	0.011	0.0533	5.8455	.3090E-01	.4105E-03	0.0000	0.000	0.000
320	0.00	0.000	0.008	0.0528	5.7621	.3046E-01	.4050E-03	0.0000	0.000	0.000
321	0.00	0.000	0.008	0.0524	5.6796	.3003E-01	.3995E-03	0.0000	0.000	0.000
322	0.20	0.000	0.011	0.0629	5.5987	.2960E-01	.3941E-03	0.0000	0.000	0.000
323	0.00	0.000	0.008	0.0625	5.5189	.2918E-01	.3888E-03	0.0000	0.000	0.000
324	0.00	0.000	0.008	0.0620	5.4410	.2877E-01	.3837E-03	0.0000	0.000	0.000
325	0.11	0.000	0.010	0.0676	5.3646	.2836E-01	.3786E-03	0.0000	0.000	0.000

326		0.00	0.000	0.007	0.0671	5.2882	.2796E-01	.3735E-03	0.0000	0.000	0.000
327		0.00	0.000	0.007	0.0667	5.2127	.2756E-01	.3685E-03	0.0000	0.000	0.000
328		0.00	0.000	0.007	0.0663	5.1380	.2716E-01	.3636E-03	0.0000	0.000	0.000
329		0.00	0.000	0.007	0.0659	5.0644	.2677E-01	.3587E-03	0.0000	0.000	0.000
330		0.00	0.000	0.007	0.0655	4.9919	.2639E-01	.3538E-03	0.0000	0.000	0.000
331		0.00	0.000	0.007	0.0651	4.9203	.2601E-01	.3491E-03	0.0000	0.000	0.000
332		0.00	0.000	0.007	0.0647	4.8499	.2564E-01	.3444E-03	0.0000	0.000	0.000
333		0.00	0.000	0.007	0.0643	4.7804	.2527E-01	.3398E-03	0.0000	0.000	0.000
334		0.00	0.000	0.007	0.0639	4.7119	.2491E-01	.3352E-03	0.0000	0.000	0.000
335		0.00	0.000	0.007	0.0635	4.6444	.2455E-01	.3307E-03	0.0000	0.000	0.000
336		0.00	0.000	0.007	0.0631	4.5779	.2420E-01	.3263E-03	0.0000	0.000	0.000
337		0.00	0.000	0.007	0.0628	4.5123	.2386E-01	.3219E-03	0.0000	0.000	0.000
338		0.00	0.000	0.007	0.0624	4.4477	.2351E-01	.3176E-03	0.0000	0.000	0.000
339		0.00	0.000	0.007	0.0620	4.3847	.2318E-01	.3134E-03	0.0000	0.000	0.000
340	*	0.00	0.000	0.007	0.0615	4.3239	.2286E-01	.3093E-03	0.0000	0.000	0.000
341	*	0.00	0.000	0.007	0.0611	4.2645	.2255E-01	.3054E-03	0.0000	0.000	0.000
342		0.00	0.000	0.007	0.0607	4.2059	.2224E-01	.3014E-03	0.0000	0.000	0.000
343	*	0.00	0.000	0.007	0.0602	4.1480	.2193E-01	.2976E-03	0.0000	0.000	0.000
344		0.00	0.000	0.007	0.0598	4.0909	.2163E-01	.2938E-03	0.0000	0.000	0.000
345		0.00	0.000	0.007	0.0594	4.0345	.2133E-01	.2900E-03	0.0000	0.000	0.000
346		0.00	0.000	0.007	0.0590	3.9788	.2104E-01	.2863E-03	0.0000	0.000	0.000
347		0.00	0.000	0.007	0.0586	3.9239	.2075E-01	.2826E-03	0.0000	0.000	0.000
348		0.00	0.000	0.007	0.0582	3.8697	.2046E-01	.2789E-03	0.0000	0.000	0.000
349		0.00	0.000	0.007	0.0578	3.8162	.2018E-01	.2753E-03	0.0000	0.000	0.000
350		0.00	0.000	0.006	0.0574	3.7634	.1990E-01	.2718E-03	0.0000	0.000	0.000
351		0.00	0.000	0.006	0.0570	3.7113	.1962E-01	.2683E-03	0.0000	0.000	0.000
352		0.00	0.000	0.006	0.0566	3.6589	.1934E-01	.2648E-03	0.0000	0.000	0.000
353		0.00	0.000	0.006	0.0563	3.6075	.1907E-01	.2613E-03	0.0000	0.000	0.000
354		0.00	0.000	0.006	0.0559	3.5575	.1881E-01	.2580E-03	0.0000	0.000	0.000
355		0.01	0.000	0.008	0.0559	3.5082	.1855E-01	.2546E-03	0.0000	0.000	0.000
356		0.00	0.000	0.006	0.0555	3.4596	.1829E-01	.2514E-03	0.0000	0.000	0.000
357		0.00	0.000	0.006	0.0552	3.4117	.1804E-01	.2481E-03	0.0000	0.000	0.000
358		0.00	0.000	0.006	0.0548	3.3644	.1779E-01	.2449E-03	0.0000	0.000	0.000
359		0.00	0.000	0.006	0.0544	3.3177	.1754E-01	.2418E-03	0.0000	0.000	0.000
360		0.00	0.000	0.006	0.0540	3.2717	.1730E-01	.2387E-03	0.0000	0.000	0.000
361		0.05	0.000	0.008	0.0563	3.2263	.1706E-01	.2356E-03	0.0000	0.000	0.000
362		0.00	0.000	0.006	0.0560	3.1815	.1682E-01	.2326E-03	0.0000	0.000	0.000
363		0.17	0.000	0.008	0.0649	3.1373	.1659E-01	.2296E-03	0.0000	0.000	0.000
364		0.04	0.000	0.008	0.0667	3.0937	.1636E-01	.2266E-03	0.0000	0.000	0.000
365		0.17	0.000	0.008	0.0757	3.0507	.1613E-01	.2237E-03	0.0000	0.000	0.000

MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.11	0.27	0.02	0.00	0.47	1.12
	0.19	4.33	6.17	0.45	0.64	0.44
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.273	0.440	0.288	0.041	0.108	0.443
	0.466	2.719	1.899	0.345	0.243	0.210
LATERAL DRAINAGE COLLECTED	0.2527	0.2170	0.2124	0.1422	0.1094	0.0811
FROM LAYER 1	0.1103	0.1444	1.9375	1.4752	0.9272	0.6214
PERCOLATION/LEAKAGE THROUGH	0.0037	0.0032	0.0032	0.0022	0.0017	0.0013
LAYER 2	0.0017	0.0022	0.0250	0.0192	0.0123	0.0085
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	1.542	1.466	1.296	0.897	0.667	0.511
TOP OF LAYER 2	0.673	0.881	12.216	9.001	5.846	3.792
STD. DEVIATION OF DAILY	0.165	0.101	0.121	0.114	0.051	0.045
HEAD ON TOP OF LAYER 2	0.055	0.678	2.543	1.137	0.735	0.481
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.21	13751145.785	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	8.476	7190582.773	52.29
DRAINAGE COLLECTED FROM LAYER 1	6.2307	5285589.065	38.44
PERC./LEAKAGE THROUGH LAYER 2	0.084250	71470.438	0.52
AVG. HEAD ON TOP OF LAYER 2	3.2322		
DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 5	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
CHANGE IN WATER STORAGE	1.503	1274974.154	9.27
SOIL WATER AT START OF YEAR	17.022	14440280.354	
SOIL WATER AT END OF YEAR	18.525	15715254.508	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.207	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

DAILY OUTPUT FOR YEAR 4

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.20	0.000	0.117	0.0802	3.0118	.1592E-01	.2211E-03	0.0000	0.000	0.000
2			0.00	0.000	0.122	0.0734	2.9725	.1572E-01	.2184E-03	0.0000	0.000	0.000
3			0.00	0.000	0.098	0.0679	2.9311	.1550E-01	.2156E-03	0.0000	0.000	0.000
4			0.00	0.000	0.123	0.0609	2.8951	.1531E-01	.2132E-03	0.0000	0.000	0.000
5			0.00	0.000	0.115	0.0544	2.8612	.1513E-01	.2108E-03	0.0000	0.000	0.000
6			0.00	0.000	0.054	0.0513	2.8261	.1494E-01	.2085E-03	0.0000	0.000	0.000
7			0.00	0.000	0.041	0.0489	2.7907	.1475E-01	.2060E-03	0.0000	0.000	0.000
8			0.09	0.000	0.036	0.0518	2.7547	.1456E-01	.2036E-03	0.0000	0.000	0.000
9			0.06	0.000	0.032	0.0533	2.7188	.1437E-01	.2011E-03	0.0000	0.000	0.000
10			0.61	0.000	0.029	0.0855	2.6829	.1418E-01	.1987E-03	0.0000	0.000	0.000
11			0.19	0.000	0.113	0.0896	2.6500	.1401E-01	.1964E-03	0.0000	0.000	0.000
12			0.05	0.000	0.106	0.0862	2.6217	.1386E-01	.1945E-03	0.0000	0.000	0.000
13			0.00	0.000	0.106	0.0802	2.5934	.1371E-01	.1926E-03	0.0000	0.000	0.000
14			0.00	0.000	0.116	0.0735	2.5658	.1356E-01	.1907E-03	0.0000	0.000	0.000
15			0.00	0.000	0.110	0.0672	2.5388	.1342E-01	.1888E-03	0.0000	0.000	0.000
16			0.00	0.000	0.100	0.0616	2.5098	.1327E-01	.1869E-03	0.0000	0.000	0.000
17			0.00	0.000	0.097	0.0560	2.4775	.1310E-01	.1846E-03	0.0000	0.000	0.000
18	*		0.00	0.000	0.054	0.0530	2.4472	.1294E-01	.1826E-03	0.0000	0.000	0.000
19			0.10	0.000	0.043	0.0562	2.4124	.1275E-01	.1802E-03	0.0000	0.000	0.000
20			0.43	0.000	0.036	0.0781	2.3781	.1257E-01	.1778E-03	0.0000	0.000	0.000
21			0.00	0.000	0.117	0.0716	2.3440	.1239E-01	.1755E-03	0.0000	0.000	0.000
22			0.00	0.000	0.102	0.0660	2.3104	.1221E-01	.1731E-03	0.0000	0.000	0.000
23			0.00	0.000	0.114	0.0596	2.2773	.1204E-01	.1709E-03	0.0000	0.000	0.000
24			0.00	0.000	0.111	0.0535	2.2446	.1187E-01	.1686E-03	0.0000	0.000	0.000
25			0.00	0.000	0.054	0.0505	2.2125	.1170E-01	.1664E-03	0.0000	0.000	0.000
26			0.00	0.000	0.041	0.0482	2.1807	.1153E-01	.1642E-03	0.0000	0.000	0.000
27			0.00	0.000	0.035	0.0463	2.1495	.1136E-01	.1620E-03	0.0000	0.000	0.000
28			0.00	0.000	0.031	0.0445	2.1193	.1120E-01	.1599E-03	0.0000	0.000	0.000
29			0.00	0.000	0.028	0.0430	2.0906	.1105E-01	.1580E-03	0.0000	0.000	0.000
30			0.00	0.000	0.025	0.0416	2.0611	.1090E-01	.1559E-03	0.0000	0.000	0.000
31			0.00	0.000	0.024	0.0403	2.0315	.1074E-01	.1539E-03	0.0000	0.000	0.000
32			0.00	0.000	0.022	0.0390	2.0024	.1059E-01	.1518E-03	0.0000	0.000	0.000
33			0.00	0.000	0.021	0.0378	1.9737	.1043E-01	.1498E-03	0.0000	0.000	0.000
34			0.00	0.000	0.020	0.0367	1.9454	.1028E-01	.1479E-03	0.0000	0.000	0.000
35			0.00	0.000	0.019	0.0357	1.9175	.1014E-01	.1459E-03	0.0000	0.000	0.000
36			0.00	0.000	0.018	0.0346	1.8900	.9992E-02	.1440E-03	0.0000	0.000	0.000
37			0.00	0.000	0.018	0.0337	1.8629	.9849E-02	.1421E-03	0.0000	0.000	0.000
38			0.00	0.000	0.017	0.0327	1.8362	.9708E-02	.1402E-03	0.0000	0.000	0.000
39			0.00	0.000	0.016	0.0318	1.8099	.9568E-02	.1384E-03	0.0000	0.000	0.000
40			0.00	0.000	0.016	0.0309	1.7839	.9431E-02	.1366E-03	0.0000	0.000	0.000
41			0.00	0.000	0.016	0.0301	1.7583	.9296E-02	.1348E-03	0.0000	0.000	0.000
42			0.00	0.000	0.015	0.0292	1.7331	.9163E-02	.1330E-03	0.0000	0.000	0.000
43			0.00	0.000	0.015	0.0284	1.7083	.9031E-02	.1313E-03	0.0000	0.000	0.000
44			0.00	0.000	0.014	0.0276	1.6838	.8902E-02	.1295E-03	0.0000	0.000	0.000
45			0.00	0.000	0.014	0.0268	1.6596	.8774E-02	.1278E-03	0.0000	0.000	0.000
46			0.00	0.000	0.014	0.0260	1.6366	.8652E-02	.1262E-03	0.0000	0.000	0.000
47			0.00	0.000	0.013	0.0253	1.6141	.8533E-02	.1246E-03	0.0000	0.000	0.000
48			0.00	0.000	0.013	0.0246	1.5910	.8411E-02	.1230E-03	0.0000	0.000	0.000
49			0.00	0.000	0.013	0.0238	1.5682	.8291E-02	.1214E-03	0.0000	0.000	0.000
50			0.00	0.000	0.013	0.0231	1.5457	.8172E-02	.1198E-03	0.0000	0.000	0.000
51			0.00	0.000	0.012	0.0224	1.5235	.8055E-02	.1182E-03	0.0000	0.000	0.000
52			0.00	0.000	0.012	0.0218	1.5017	.7939E-02	.1167E-03	0.0000	0.000	0.000
53			0.00	0.000	0.012	0.0209	1.4861	.7857E-02	.1156E-03	0.0000	0.000	0.000
54			0.00	0.000	0.012	0.0203	1.4668	.7755E-02	.1142E-03	0.0000	0.000	0.000
55			0.00	0.000	0.012	0.0196	1.4458	.7644E-02	.1127E-03	0.0000	0.000	0.000
56			0.39	0.000	0.012	0.0406	1.4250	.7534E-02	.1112E-03	0.0000	0.000	0.000
57			0.27	0.000	0.012	0.0549	1.4046	.7426E-02	.1098E-03	0.0000	0.000	0.000

58	0.00	0.000	0.011	0.0543	1.3845	.7319E-02	.1083E-03	0.0000	0.000	0.000
59	0.00	0.000	0.011	0.0537	1.3646	.7214E-02	.1069E-03	0.0000	0.000	0.000
60	0.00	0.000	0.011	0.0531	1.3450	.7111E-02	.1055E-03	0.0000	0.000	0.000
61	0.00	0.000	0.011	0.0525	1.3257	.7009E-02	.1041E-03	0.0000	0.000	0.000
62	0.00	0.000	0.010	0.0520	1.3067	.6908E-02	.1028E-03	0.0000	0.000	0.000
63	0.00	0.000	0.010	0.0514	1.2880	.6809E-02	.1014E-03	0.0000	0.000	0.000
64	0.00	0.000	0.010	0.0508	1.2695	.6712E-02	.1001E-03	0.0000	0.000	0.000
65	0.00	0.000	0.010	0.0503	1.2513	.6615E-02	.9879E-04	0.0000	0.000	0.000
66	0.00	0.000	0.009	0.0498	1.2333	.6520E-02	.9750E-04	0.0000	0.000	0.000
67	0.00	0.000	0.008	0.0493	1.2158	.6428E-02	.9624E-04	0.0000	0.000	0.000
68	0.00	0.000	0.008	0.0488	1.2003	.6346E-02	.9512E-04	0.0000	0.000	0.000
69	0.00	0.000	0.008	0.0482	1.1873	.6277E-02	.9418E-04	0.0000	0.000	0.000
70	0.00	0.000	0.008	0.0476	1.1762	.6218E-02	.9338E-04	0.0000	0.000	0.000
71	0.00	0.000	0.008	0.0471	1.1665	.6167E-02	.9267E-04	0.0000	0.000	0.000
72	0.00	0.000	0.008	0.0465	1.1577	.6121E-02	.9204E-04	0.0000	0.000	0.000
73	0.00	0.000	0.008	0.0459	1.1495	.6077E-02	.9144E-04	0.0000	0.000	0.000
74	0.00	0.000	0.008	0.0453	1.1415	.6035E-02	.9086E-04	0.0000	0.000	0.000
75	0.00	0.000	0.007	0.0447	1.1336	.5993E-02	.9029E-04	0.0000	0.000	0.000
76	0.00	0.000	0.007	0.0441	1.1258	.5952E-02	.8972E-04	0.0000	0.000	0.000
77	0.00	0.000	0.007	0.0436	1.1178	.5910E-02	.8914E-04	0.0000	0.000	0.000
78	0.00	0.000	0.007	0.0431	1.1055	.5845E-02	.8825E-04	0.0000	0.000	0.000
79	0.00	0.000	0.007	0.0426	1.0928	.5778E-02	.8733E-04	0.0000	0.000	0.000
80	0.00	0.000	0.007	0.0421	1.0822	.5722E-02	.8656E-04	0.0000	0.000	0.000
81	0.00	0.000	0.007	0.0416	1.0730	.5673E-02	.8589E-04	0.0000	0.000	0.000
82	0.00	0.000	0.007	0.0410	1.0646	.5628E-02	.8527E-04	0.0000	0.000	0.000
83	0.00	0.000	0.007	0.0405	1.0566	.5586E-02	.8469E-04	0.0000	0.000	0.000
84	0.00	0.000	0.007	0.0400	1.0489	.5545E-02	.8413E-04	0.0000	0.000	0.000
85	0.00	0.000	0.007	0.0394	1.0412	.5505E-02	.8357E-04	0.0000	0.000	0.000
86	0.00	0.000	0.007	0.0389	1.0335	.5464E-02	.8301E-04	0.0000	0.000	0.000
87	0.00	0.000	0.007	0.0384	1.0257	.5423E-02	.8244E-04	0.0000	0.000	0.000
88	0.00	0.000	0.007	0.0379	1.0178	.5381E-02	.8186E-04	0.0000	0.000	0.000
89	0.00	0.000	0.007	0.0374	1.0098	.5338E-02	.8127E-04	0.0000	0.000	0.000
90	0.00	0.000	0.007	0.0369	1.0016	.5295E-02	.8067E-04	0.0000	0.000	0.000
91	0.00	0.000	0.006	0.0364	0.9933	.5251E-02	.8006E-04	0.0000	0.000	0.000
92	0.00	0.000	0.006	0.0359	0.9848	.5207E-02	.7944E-04	0.0000	0.000	0.000
93	0.00	0.000	0.006	0.0355	0.9762	.5161E-02	.7881E-04	0.0000	0.000	0.000
94	0.00	0.000	0.006	0.0350	0.9676	.5115E-02	.7818E-04	0.0000	0.000	0.000
95	0.00	0.000	0.006	0.0345	0.9588	.5069E-02	.7753E-04	0.0000	0.000	0.000
96	0.00	0.000	0.006	0.0341	0.9500	.5022E-02	.7688E-04	0.0000	0.000	0.000
97	0.00	0.000	0.006	0.0337	0.9411	.4975E-02	.7623E-04	0.0000	0.000	0.000
98	0.00	0.000	0.006	0.0332	0.9321	.4928E-02	.7557E-04	0.0000	0.000	0.000
99	0.00	0.000	0.006	0.0329	0.9215	.4872E-02	.7479E-04	0.0000	0.000	0.000
100	0.00	0.000	0.006	0.0323	0.9120	.4822E-02	.7409E-04	0.0000	0.000	0.000
101	0.00	0.000	0.006	0.0318	0.9082	.4801E-02	.7380E-04	0.0000	0.000	0.000
102	0.00	0.000	0.006	0.0313	0.9035	.4776E-02	.7345E-04	0.0000	0.000	0.000
103	0.15	0.000	0.008	0.0391	0.8980	.4748E-02	.7305E-04	0.0000	0.000	0.000
104	0.11	0.000	0.008	0.0446	0.8921	.4716E-02	.7261E-04	0.0000	0.000	0.000
105	0.01	0.000	0.008	0.0446	0.8857	.4682E-02	.7214E-04	0.0000	0.000	0.000
106	0.00	0.000	0.006	0.0442	0.8789	.4647E-02	.7164E-04	0.0000	0.000	0.000
107	0.00	0.000	0.006	0.0438	0.8719	.4609E-02	.7112E-04	0.0000	0.000	0.000
108	0.00	0.000	0.006	0.0433	0.8646	.4571E-02	.7058E-04	0.0000	0.000	0.000
109	0.00	0.000	0.006	0.0429	0.8571	.4531E-02	.7002E-04	0.0000	0.000	0.000
110	0.00	0.000	0.006	0.0425	0.8495	.4491E-02	.6946E-04	0.0000	0.000	0.000
111	0.00	0.000	0.006	0.0421	0.8418	.4450E-02	.6889E-04	0.0000	0.000	0.000
112	0.00	0.000	0.006	0.0417	0.8340	.4409E-02	.6830E-04	0.0000	0.000	0.000
113	0.00	0.000	0.006	0.0413	0.8261	.4367E-02	.6772E-04	0.0000	0.000	0.000
114	0.00	0.000	0.006	0.0409	0.8182	.4325E-02	.6713E-04	0.0000	0.000	0.000
115	0.00	0.000	0.006	0.0405	0.8102	.4283E-02	.6654E-04	0.0000	0.000	0.000
116	0.00	0.000	0.006	0.0401	0.8022	.4241E-02	.6594E-04	0.0000	0.000	0.000
117	0.00	0.000	0.006	0.0398	0.7943	.4199E-02	.6535E-04	0.0000	0.000	0.000
118	0.00	0.000	0.005	0.0394	0.7863	.4157E-02	.6475E-04	0.0000	0.000	0.000
119	0.00	0.000	0.005	0.0390	0.7784	.4115E-02	.6416E-04	0.0000	0.000	0.000
120	0.00	0.000	0.005	0.0386	0.7705	.4073E-02	.6357E-04	0.0000	0.000	0.000
121	0.00	0.000	0.005	0.0383	0.7626	.4032E-02	.6298E-04	0.0000	0.000	0.000
122	0.00	0.000	0.005	0.0379	0.7548	.3991E-02	.6239E-04	0.0000	0.000	0.000
123	0.00	0.000	0.005	0.0376	0.7470	.3949E-02	.6181E-04	0.0000	0.000	0.000
124	0.00	0.000	0.005	0.0372	0.7393	.3909E-02	.6123E-04	0.0000	0.000	0.000

125	0.00	0.000	0.005	0.0368	0.7316	.3868E-02	.6065E-04	0.0000	0.000	0.000
126	0.00	0.000	0.005	0.0365	0.7240	.3828E-02	.6008E-04	0.0000	0.000	0.000
127	0.00	0.000	0.005	0.0361	0.7165	.3788E-02	.5951E-04	0.0000	0.000	0.000
128	0.00	0.000	0.005	0.0358	0.7090	.3748E-02	.5895E-04	0.0000	0.000	0.000
129	0.00	0.000	0.005	0.0354	0.7016	.3709E-02	.5839E-04	0.0000	0.000	0.000
130	0.00	0.000	0.005	0.0351	0.6943	.3670E-02	.5784E-04	0.0000	0.000	0.000
131	0.00	0.000	0.005	0.0348	0.6868	.3631E-02	.5727E-04	0.0000	0.000	0.000
132	0.00	0.000	0.005	0.0345	0.6775	.3582E-02	.5657E-04	0.0000	0.000	0.000
133	0.00	0.000	0.005	0.0342	0.6677	.3530E-02	.5583E-04	0.0000	0.000	0.000
134	0.00	0.000	0.005	0.0339	0.6582	.3480E-02	.5510E-04	0.0000	0.000	0.000
135	0.00	0.000	0.005	0.0337	0.6487	.3430E-02	.5438E-04	0.0000	0.000	0.000
136	0.00	0.000	0.005	0.0334	0.6394	.3380E-02	.5368E-04	0.0000	0.000	0.000
137	0.00	0.000	0.005	0.0331	0.6302	.3332E-02	.5298E-04	0.0000	0.000	0.000
138	0.00	0.000	0.005	0.0328	0.6212	.3284E-02	.5229E-04	0.0000	0.000	0.000
139	0.00	0.000	0.005	0.0325	0.6122	.3237E-02	.5161E-04	0.0000	0.000	0.000
140	0.00	0.000	0.005	0.0323	0.6034	.3190E-02	.5093E-04	0.0000	0.000	0.000
141	0.00	0.000	0.005	0.0320	0.5948	.3144E-02	.5027E-04	0.0000	0.000	0.000
142	0.00	0.000	0.005	0.0317	0.5862	.3099E-02	.4962E-04	0.0000	0.000	0.000
143	0.00	0.000	0.005	0.0315	0.5778	.3055E-02	.4897E-04	0.0000	0.000	0.000
144	0.00	0.000	0.005	0.0312	0.5695	.3011E-02	.4833E-04	0.0000	0.000	0.000
145	0.00	0.000	0.005	0.0309	0.5613	.2968E-02	.4770E-04	0.0000	0.000	0.000
146	0.00	0.000	0.005	0.0306	0.5538	.2928E-02	.4712E-04	0.0000	0.000	0.000
147	0.00	0.000	0.005	0.0303	0.5483	.2899E-02	.4670E-04	0.0000	0.000	0.000
148	0.00	0.000	0.005	0.0300	0.5430	.2871E-02	.4629E-04	0.0000	0.000	0.000
149	0.00	0.000	0.005	0.0296	0.5378	.2843E-02	.4589E-04	0.0000	0.000	0.000
150	0.00	0.000	0.005	0.0293	0.5326	.2816E-02	.4549E-04	0.0000	0.000	0.000
151	0.00	0.000	0.005	0.0290	0.5274	.2789E-02	.4509E-04	0.0000	0.000	0.000
152	0.00	0.000	0.005	0.0287	0.5223	.2762E-02	.4469E-04	0.0000	0.000	0.000
153	0.00	0.000	0.005	0.0284	0.5173	.2735E-02	.4430E-04	0.0000	0.000	0.000
154	0.00	0.000	0.005	0.0281	0.5123	.2708E-02	.4391E-04	0.0000	0.000	0.000
155	0.00	0.000	0.005	0.0278	0.5073	.2682E-02	.4353E-04	0.0000	0.000	0.000
156	0.00	0.000	0.005	0.0275	0.5024	.2656E-02	.4315E-04	0.0000	0.000	0.000
157	0.00	0.000	0.005	0.0272	0.4976	.2630E-02	.4277E-04	0.0000	0.000	0.000
158	0.00	0.000	0.005	0.0269	0.4927	.2605E-02	.4240E-04	0.0000	0.000	0.000
159	0.00	0.000	0.005	0.0266	0.4880	.2580E-02	.4203E-04	0.0000	0.000	0.000
160	0.00	0.000	0.005	0.0263	0.4833	.2555E-02	.4166E-04	0.0000	0.000	0.000
161	0.00	0.000	0.005	0.0260	0.4786	.2530E-02	.4130E-04	0.0000	0.000	0.000
162	0.00	0.000	0.005	0.0257	0.4736	.2504E-02	.4090E-04	0.0000	0.000	0.000
163	0.00	0.000	0.005	0.0254	0.4689	.2479E-02	.4054E-04	0.0000	0.000	0.000
164	0.00	0.000	0.005	0.0251	0.4644	.2455E-02	.4019E-04	0.0000	0.000	0.000
165	0.00	0.000	0.004	0.0248	0.4600	.2432E-02	.3984E-04	0.0000	0.000	0.000
166	0.00	0.000	0.004	0.0245	0.4556	.2409E-02	.3949E-04	0.0000	0.000	0.000
167	0.00	0.000	0.004	0.0242	0.4513	.2386E-02	.3915E-04	0.0000	0.000	0.000
168	0.00	0.000	0.004	0.0239	0.4470	.2363E-02	.3882E-04	0.0000	0.000	0.000
169	0.00	0.000	0.004	0.0236	0.4428	.2341E-02	.3849E-04	0.0000	0.000	0.000
170	0.00	0.000	0.004	0.0233	0.4386	.2319E-02	.3816E-04	0.0000	0.000	0.000
171	0.00	0.000	0.004	0.0230	0.4345	.2297E-02	.3783E-04	0.0000	0.000	0.000
172	0.00	0.000	0.004	0.0227	0.4304	.2275E-02	.3751E-04	0.0000	0.000	0.000
173	0.00	0.000	0.004	0.0225	0.4264	.2254E-02	.3719E-04	0.0000	0.000	0.000
174	0.00	0.000	0.004	0.0222	0.4224	.2233E-02	.3688E-04	0.0000	0.000	0.000
175	0.00	0.000	0.004	0.0219	0.4184	.2212E-02	.3657E-04	0.0000	0.000	0.000
176	0.26	0.000	0.008	0.0358	0.4145	.2192E-02	.3626E-04	0.0000	0.000	0.000
177	0.00	0.000	0.004	0.0356	0.4103	.2169E-02	.3592E-04	0.0000	0.000	0.000
178	0.00	0.000	0.004	0.0354	0.4045	.2139E-02	.3547E-04	0.0000	0.000	0.000
179	0.00	0.000	0.004	0.0351	0.3987	.2108E-02	.3501E-04	0.0000	0.000	0.000
180	0.00	0.000	0.004	0.0349	0.3930	.2078E-02	.3455E-04	0.0000	0.000	0.000
181	0.00	0.000	0.004	0.0346	0.3874	.2048E-02	.3410E-04	0.0000	0.000	0.000
182	0.00	0.000	0.004	0.0344	0.3818	.2018E-02	.3366E-04	0.0000	0.000	0.000
183	0.00	0.000	0.004	0.0342	0.3763	.1989E-02	.3322E-04	0.0000	0.000	0.000
184	0.00	0.000	0.004	0.0339	0.3709	.1961E-02	.3279E-04	0.0000	0.000	0.000
185	0.00	0.000	0.004	0.0337	0.3656	.1933E-02	.3236E-04	0.0000	0.000	0.000
186	0.00	0.000	0.004	0.0335	0.3603	.1905E-02	.3194E-04	0.0000	0.000	0.000
187	0.00	0.000	0.004	0.0332	0.3551	.1878E-02	.3153E-04	0.0000	0.000	0.000
188	0.00	0.000	0.004	0.0330	0.3500	.1851E-02	.3112E-04	0.0000	0.000	0.000
189	0.00	0.000	0.004	0.0328	0.3450	.1824E-02	.3071E-04	0.0000	0.000	0.000
190	0.00	0.000	0.004	0.0325	0.3400	.1798E-02	.3031E-04	0.0000	0.000	0.000
191	0.00	0.000	0.004	0.0323	0.3354	.1773E-02	.2994E-04	0.0000	0.000	0.000

192	0.00	0.000	0.004	0.0321	0.3308	.1749E-02	.2957E-04	0.0000	0.000	0.000
193	0.00	0.000	0.004	0.0319	0.3261	.1724E-02	.2919E-04	0.0000	0.000	0.000
194	0.00	0.000	0.004	0.0316	0.3215	.1699E-02	.2881E-04	0.0000	0.000	0.000
195	0.00	0.000	0.004	0.0314	0.3171	.1676E-02	.2846E-04	0.0000	0.000	0.000
196	0.00	0.000	0.004	0.0312	0.3130	.1655E-02	.2812E-04	0.0000	0.000	0.000
197	0.00	0.000	0.004	0.0309	0.3097	.1637E-02	.2786E-04	0.0000	0.000	0.000
198	0.00	0.000	0.004	0.0306	0.3064	.1620E-02	.2759E-04	0.0000	0.000	0.000
199	0.31	0.000	0.008	0.0473	0.3046	.1611E-02	.2745E-04	0.0000	0.000	0.000
200	0.00	0.000	0.004	0.0470	0.3058	.1617E-02	.2755E-04	0.0000	0.000	0.000
201	0.16	0.000	0.008	0.0554	0.3050	.1613E-02	.2748E-04	0.0000	0.000	0.000
202	0.00	0.000	0.004	0.0551	0.3024	.1599E-02	.2727E-04	0.0000	0.000	0.000
203	0.31	0.000	0.008	0.0719	0.2991	.1581E-02	.2699E-04	0.0000	0.000	0.000
204	0.00	0.000	0.296	0.0553	0.2953	.1561E-02	.2668E-04	0.0000	0.000	0.000
205	0.00	0.000	0.004	0.0544	0.3021	.1597E-02	.2724E-04	0.0000	0.000	0.000
206	0.08	0.000	0.008	0.0566	0.3612	.1909E-02	.3200E-04	0.0000	0.000	0.000
207	0.00	0.000	0.004	0.0553	0.4358	.2304E-02	.3793E-04	0.0000	0.000	0.000
208	0.00	0.000	0.004	0.0536	0.4845	.2561E-02	.4175E-04	0.0000	0.000	0.000
209	0.00	0.000	0.004	0.0525	0.5329	.2817E-02	.4551E-04	0.0000	0.000	0.000
210	0.00	0.000	0.004	0.0516	0.5647	.2986E-02	.4797E-04	0.0000	0.000	0.000
211	0.00	0.000	0.004	0.0508	0.5887	.3112E-02	.4981E-04	0.0000	0.000	0.000
212	0.05	0.000	0.008	0.0526	0.6071	.3210E-02	.5121E-04	0.0000	0.000	0.000
213	0.00	0.000	0.004	0.0520	0.6185	.3270E-02	.5208E-04	0.0000	0.000	0.000
214	0.00	0.000	0.004	0.0514	0.6287	.3324E-02	.5286E-04	0.0000	0.000	0.000
215	0.02	0.000	0.008	0.0516	0.6414	.3391E-02	.5383E-04	0.0000	0.000	0.000
216	0.45	0.000	0.008	0.0759	0.6473	.3422E-02	.5428E-04	0.0000	0.000	0.000
217	0.16	0.000	0.196	0.0739	0.6484	.3428E-02	.5436E-04	0.0000	0.000	0.000
218	0.00	0.000	0.314	0.0564	0.6391	.3379E-02	.5365E-04	0.0000	0.000	0.000
219	0.04	0.000	0.123	0.0514	0.6409	.3388E-02	.5379E-04	0.0000	0.000	0.000
220	0.00	0.000	0.049	0.0487	0.6412	.3390E-02	.5382E-04	0.0000	0.000	0.000
221	0.00	0.000	0.038	0.0465	0.6342	.3353E-02	.5329E-04	0.0000	0.000	0.000
222	0.00	0.000	0.032	0.0447	0.6261	.3310E-02	.5267E-04	0.0000	0.000	0.000
223	0.00	0.000	0.028	0.0432	0.6171	.3263E-02	.5198E-04	0.0000	0.000	0.000
224	0.00	0.000	0.025	0.0418	0.6083	.3216E-02	.5130E-04	0.0000	0.000	0.000
225	0.00	0.000	0.023	0.0405	0.5995	.3170E-02	.5064E-04	0.0000	0.000	0.000
226	0.00	0.000	0.022	0.0393	0.5909	.3124E-02	.4998E-04	0.0000	0.000	0.000
227	0.00	0.000	0.020	0.0382	0.5824	.3079E-02	.4933E-04	0.0000	0.000	0.000
228	0.00	0.000	0.019	0.0371	0.5741	.3035E-02	.4868E-04	0.0000	0.000	0.000
229	0.48	0.000	0.023	0.0625	0.5658	.2991E-02	.4805E-04	0.0000	0.000	0.000
230	0.00	0.000	0.017	0.0615	0.5577	.2948E-02	.4742E-04	0.0000	0.000	0.000
231	2.59	0.000	0.022	0.2042	0.5498	.2906E-02	.4681E-04	0.0000	0.000	0.000
232	0.20	0.000	0.298	0.1326	2.1241	.1123E-01	.1583E-03	0.0000	0.000	0.000
233	0.00	0.000	0.294	0.1090	3.8759	.2049E-01	.2793E-03	0.0000	0.000	0.000
234	0.48	0.000	0.243	0.1181	4.0730	.2153E-01	.2926E-03	0.0000	0.000	0.000
235	0.00	0.000	0.270	0.0998	4.2018	.2221E-01	.3012E-03	0.0000	0.000	0.000
236	0.00	0.000	0.239	0.0851	4.2516	.2248E-01	.3045E-03	0.0000	0.000	0.000
237	0.00	0.000	0.130	0.0771	4.2495	.2247E-01	.3044E-03	0.0000	0.000	0.000
238	0.00	0.000	0.054	0.0730	4.2319	.2237E-01	.3032E-03	0.0000	0.000	0.000
239	0.00	0.000	0.041	0.0697	4.2229	.2233E-01	.3026E-03	0.0000	0.000	0.000
240	0.00	0.000	0.035	0.0669	4.2063	.2224E-01	.3015E-03	0.0000	0.000	0.000
241	0.00	0.000	0.031	0.0644	4.1876	.2214E-01	.3002E-03	0.0000	0.000	0.000
242	0.00	0.000	0.028	0.0622	4.1628	.2201E-01	.2986E-03	0.0000	0.000	0.000
243	0.27	0.000	0.030	0.0752	4.1280	.2182E-01	.2962E-03	0.0000	0.000	0.000
244	0.09	0.000	0.029	0.0786	4.0763	.2155E-01	.2928E-03	0.0000	0.000	0.000
245	0.13	0.000	0.027	0.0843	4.0179	.2124E-01	.2889E-03	0.0000	0.000	0.000
246	0.66	0.000	0.026	0.1193	3.9644	.2096E-01	.2853E-03	0.0000	0.000	0.000
247	0.00	0.000	0.236	0.1056	3.9250	.2075E-01	.2826E-03	0.0000	0.000	0.000
248	0.00	0.000	0.247	0.0912	3.9072	.2066E-01	.2815E-03	0.0000	0.000	0.000
249	0.00	0.000	0.241	0.0773	3.8730	.2048E-01	.2792E-03	0.0000	0.000	0.000
250	0.00	0.000	0.130	0.0694	3.8436	.2032E-01	.2772E-03	0.0000	0.000	0.000
251	0.75	0.000	0.059	0.1078	3.8133	.2016E-01	.2752E-03	0.0000	0.000	0.000
252	0.00	0.000	0.246	0.0931	3.7711	.1994E-01	.2723E-03	0.0000	0.000	0.000
253	0.00	0.000	0.230	0.0787	3.7834	.2000E-01	.2731E-03	0.0000	0.000	0.000
254	0.00	0.000	0.130	0.0704	3.7999	.2009E-01	.2742E-03	0.0000	0.000	0.000
255	0.00	0.000	0.054	0.0661	3.8029	.2011E-01	.2745E-03	0.0000	0.000	0.000
256	0.00	0.000	0.041	0.0627	3.8071	.2013E-01	.2747E-03	0.0000	0.000	0.000
257	0.34	0.000	0.040	0.0785	3.7997	.2009E-01	.2742E-03	0.0000	0.000	0.000
258	0.00	0.000	0.031	0.0761	3.7831	.2000E-01	.2731E-03	0.0000	0.000	0.000

259	0.21	0.000	0.033	0.0854	3.7609	.1988E-01	.2716E-03	0.0000	0.000	0.000
260	0.00	0.000	0.238	0.0714	3.7364	.1975E-01	.2700E-03	0.0000	0.000	0.000
261	0.00	0.000	0.025	0.0696	3.7156	.1964E-01	.2686E-03	0.0000	0.000	0.000
262	0.00	0.000	0.024	0.0681	3.6762	.1944E-01	.2659E-03	0.0000	0.000	0.000
263	0.00	0.000	0.022	0.0667	3.6315	.1920E-01	.2629E-03	0.0000	0.000	0.000
264	0.00	0.000	0.021	0.0653	3.5888	.1897E-01	.2601E-03	0.0000	0.000	0.000
265	0.00	0.000	0.020	0.0640	3.5476	.1876E-01	.2573E-03	0.0000	0.000	0.000
266	0.00	0.000	0.019	0.0626	3.5092	.1855E-01	.2547E-03	0.0000	0.000	0.000
267	0.03	0.000	0.023	0.0627	3.4715	.1835E-01	.2522E-03	0.0000	0.000	0.000
268	0.09	0.000	0.023	0.0663	3.4322	.1815E-01	.2495E-03	0.0000	0.000	0.000
269	0.32	0.000	0.022	0.0827	3.3920	.1793E-01	.2468E-03	0.0000	0.000	0.000
270	0.00	0.000	0.250	0.0685	3.3575	.1775E-01	.2445E-03	0.0000	0.000	0.000
271	0.00	0.000	0.016	0.0675	3.3159	.1753E-01	.2417E-03	0.0000	0.000	0.000
272	0.00	0.000	0.016	0.0665	3.2715	.1730E-01	.2387E-03	0.0000	0.000	0.000
273	0.00	0.000	0.016	0.0656	3.2282	.1707E-01	.2357E-03	0.0000	0.000	0.000
274	0.00	0.000	0.015	0.0647	3.1859	.1684E-01	.2329E-03	0.0000	0.000	0.000
275	0.38	0.000	0.020	0.0846	3.1444	.1662E-01	.2301E-03	0.0000	0.000	0.000
276	0.17	0.000	0.177	0.0838	3.1110	.1645E-01	.2278E-03	0.0000	0.000	0.000
277	0.00	0.000	0.177	0.0739	3.0789	.1628E-01	.2256E-03	0.0000	0.000	0.000
278	0.00	0.000	0.130	0.0667	3.0348	.1604E-01	.2226E-03	0.0000	0.000	0.000
279	0.00	0.000	0.054	0.0637	2.9919	.1582E-01	.2197E-03	0.0000	0.000	0.000
280	0.00	0.000	0.041	0.0613	2.9512	.1560E-01	.2170E-03	0.0000	0.000	0.000
281	0.00	0.000	0.035	0.0593	2.9122	.1540E-01	.2143E-03	0.0000	0.000	0.000
282	0.00	0.000	0.031	0.0575	2.8743	.1520E-01	.2117E-03	0.0000	0.000	0.000
283	0.00	0.000	0.028	0.0559	2.8372	.1500E-01	.2092E-03	0.0000	0.000	0.000
284	0.00	0.000	0.025	0.0544	2.8008	.1481E-01	.2067E-03	0.0000	0.000	0.000
285	0.00	0.000	0.024	0.0530	2.7650	.1462E-01	.2043E-03	0.0000	0.000	0.000
286	0.00	0.000	0.022	0.0517	2.7296	.1443E-01	.2019E-03	0.0000	0.000	0.000
287	0.00	0.000	0.021	0.0504	2.6948	.1425E-01	.1995E-03	0.0000	0.000	0.000
288	0.00	0.000	0.020	0.0492	2.6603	.1406E-01	.1972E-03	0.0000	0.000	0.000
289	0.08	0.000	0.024	0.0522	2.6263	.1388E-01	.1948E-03	0.0000	0.000	0.000
290	0.00	0.000	0.018	0.0511	2.5927	.1371E-01	.1925E-03	0.0000	0.000	0.000
291	0.00	0.000	0.018	0.0501	2.5597	.1353E-01	.1903E-03	0.0000	0.000	0.000
292	0.00	0.000	0.017	0.0490	2.5269	.1336E-01	.1880E-03	0.0000	0.000	0.000
293	0.00	0.000	0.016	0.0480	2.4943	.1319E-01	.1858E-03	0.0000	0.000	0.000
294	0.00	0.000	0.016	0.0471	2.4621	.1302E-01	.1836E-03	0.0000	0.000	0.000
295	0.00	0.000	0.016	0.0462	2.4302	.1285E-01	.1814E-03	0.0000	0.000	0.000
296	0.00	0.000	0.009	0.0456	2.3987	.1268E-01	.1792E-03	0.0000	0.000	0.000
297	0.00	0.000	0.015	0.0447	2.3676	.1252E-01	.1771E-03	0.0000	0.000	0.000
298	0.00	0.000	0.014	0.0438	2.3368	.1235E-01	.1750E-03	0.0000	0.000	0.000
299	0.00	0.000	0.014	0.0430	2.3064	.1219E-01	.1729E-03	0.0000	0.000	0.000
300	0.00	0.000	0.014	0.0422	2.2763	.1203E-01	.1708E-03	0.0000	0.000	0.000
301	0.00	0.000	0.013	0.0414	2.2466	.1188E-01	.1687E-03	0.0000	0.000	0.000
302	0.00	0.000	0.013	0.0406	2.2176	.1172E-01	.1667E-03	0.0000	0.000	0.000
303	0.00	0.000	0.013	0.0398	2.1904	.1158E-01	.1649E-03	0.0000	0.000	0.000
304	0.00	0.000	0.013	0.0390	2.1633	.1144E-01	.1630E-03	0.0000	0.000	0.000
305	0.16	0.000	0.018	0.0468	2.1364	.1129E-01	.1611E-03	0.0000	0.000	0.000
306	0.00	0.000	0.012	0.0460	2.1096	.1115E-01	.1593E-03	0.0000	0.000	0.000
307	0.00	0.000	0.012	0.0453	2.0823	.1101E-01	.1574E-03	0.0000	0.000	0.000
308	0.00	0.000	0.012	0.0446	2.0549	.1086E-01	.1555E-03	0.0000	0.000	0.000
309	0.00	0.000	0.012	0.0439	2.0288	.1073E-01	.1537E-03	0.0000	0.000	0.000
310	0.00	0.000	0.011	0.0432	2.0028	.1059E-01	.1519E-03	0.0000	0.000	0.000
311	0.00	0.000	0.011	0.0425	1.9770	.1045E-01	.1501E-03	0.0000	0.000	0.000
312	0.00	0.000	0.011	0.0418	1.9516	.1032E-01	.1483E-03	0.0000	0.000	0.000
313	0.00	0.000	0.011	0.0412	1.9265	.1018E-01	.1465E-03	0.0000	0.000	0.000
314	0.00	0.000	0.011	0.0405	1.9016	.1005E-01	.1448E-03	0.0000	0.000	0.000
315	0.00	0.000	0.011	0.0399	1.8769	.9923E-02	.1431E-03	0.0000	0.000	0.000
316	0.00	0.000	0.010	0.0393	1.8525	.9794E-02	.1414E-03	0.0000	0.000	0.000
317	0.00	0.000	0.010	0.0386	1.8283	.9666E-02	.1397E-03	0.0000	0.000	0.000
318	0.00	0.000	0.010	0.0380	1.8044	.9540E-02	.1380E-03	0.0000	0.000	0.000
319	0.00	0.000	0.010	0.0374	1.7808	.9415E-02	.1364E-03	0.0000	0.000	0.000
320	0.00	0.000	0.010	0.0368	1.7574	.9291E-02	.1347E-03	0.0000	0.000	0.000
321	0.00	0.000	0.010	0.0362	1.7343	.9169E-02	.1331E-03	0.0000	0.000	0.000
322	0.00	0.000	0.010	0.0356	1.7114	.9048E-02	.1315E-03	0.0000	0.000	0.000
323	0.00	0.000	0.010	0.0351	1.6888	.8929E-02	.1299E-03	0.0000	0.000	0.000
324	0.00	0.000	0.010	0.0345	1.6665	.8810E-02	.1283E-03	0.0000	0.000	0.000
325	0.00	0.000	0.009	0.0339	1.6444	.8694E-02	.1268E-03	0.0000	0.000	0.000

326	0.00	0.000	0.008	0.0335	1.6220	.8575E-02	.1252E-03	0.0000	0.000	0.000
327	0.00	0.000	0.009	0.0330	1.5990	.8454E-02	.1236E-03	0.0000	0.000	0.000
328	0.00	0.000	0.009	0.0325	1.5762	.8333E-02	.1220E-03	0.0000	0.000	0.000
329	0.00	0.000	0.009	0.0320	1.5536	.8214E-02	.1204E-03	0.0000	0.000	0.000
330	0.00	0.000	0.009	0.0315	1.5313	.8096E-02	.1188E-03	0.0000	0.000	0.000
331	0.00	0.000	0.009	0.0310	1.5094	.7980E-02	.1172E-03	0.0000	0.000	0.000
332	0.00	0.000	0.009	0.0304	1.4895	.7875E-02	.1158E-03	0.0000	0.000	0.000
333	0.00	0.000	0.009	0.0299	1.4709	.7777E-02	.1145E-03	0.0000	0.000	0.000
334	0.00	0.000	0.009	0.0293	1.4525	.7679E-02	.1132E-03	0.0000	0.000	0.000
335	0.00	0.000	0.009	0.0288	1.4342	.7583E-02	.1119E-03	0.0000	0.000	0.000
336	0.00	0.000	0.008	0.0283	1.4161	.7487E-02	.1106E-03	0.0000	0.000	0.000
337	0.00	0.000	0.008	0.0278	1.3982	.7392E-02	.1093E-03	0.0000	0.000	0.000
338	0.00	0.000	0.008	0.0273	1.3804	.7298E-02	.1080E-03	0.0000	0.000	0.000
339	0.00	0.000	0.008	0.0268	1.3628	.7205E-02	.1068E-03	0.0000	0.000	0.000
340	0.08	0.000	0.011	0.0306	1.3453	.7112E-02	.1055E-03	0.0000	0.000	0.000
341	0.00	0.000	0.008	0.0301	1.3277	.7019E-02	.1043E-03	0.0000	0.000	0.000
342	0.00	0.000	0.008	0.0295	1.3132	.6943E-02	.1032E-03	0.0000	0.000	0.000
343	0.00	0.000	0.008	0.0288	1.3042	.6895E-02	.1026E-03	0.0000	0.000	0.000
344	0.00	0.000	0.008	0.0281	1.2961	.6852E-02	.1020E-03	0.0000	0.000	0.000
345	0.00	0.000	0.008	0.0275	1.2867	.6803E-02	.1013E-03	0.0000	0.000	0.000
346	0.00	0.000	0.008	0.0269	1.2766	.6749E-02	.1006E-03	0.0000	0.000	0.000
347	0.00	0.000	0.008	0.0263	1.2661	.6694E-02	.9986E-04	0.0000	0.000	0.000
348	0.00	0.000	0.008	0.0257	1.2554	.6637E-02	.9909E-04	0.0000	0.000	0.000
349	0.00	0.000	0.008	0.0252	1.2447	.6580E-02	.9831E-04	0.0000	0.000	0.000
350	0.00	0.000	0.008	0.0246	1.2339	.6523E-02	.9754E-04	0.0000	0.000	0.000
351	0.00	0.000	0.008	0.0240	1.2231	.6466E-02	.9676E-04	0.0000	0.000	0.000
352	0.19	0.000	0.010	0.0340	1.2114	.6405E-02	.9592E-04	0.0000	0.000	0.000
353	0.05	0.000	0.010	0.0362	1.1950	.6318E-02	.9474E-04	0.0000	0.000	0.000
354	0.00	0.000	0.007	0.0358	1.1781	.6229E-02	.9352E-04	0.0000	0.000	0.000
355	0.02	0.000	0.009	0.0363	1.1612	.6139E-02	.9229E-04	0.0000	0.000	0.000
356	0.06	0.000	0.009	0.0390	1.1510	.6085E-02	.9155E-04	0.0000	0.000	0.000
357	0.00	0.000	0.007	0.0386	1.1395	.6024E-02	.9072E-04	0.0000	0.000	0.000
358	0.00	0.000	0.007	0.0382	1.1231	.5938E-02	.8953E-04	0.0000	0.000	0.000
359	0.00	0.000	0.007	0.0378	1.1070	.5853E-02	.8836E-04	0.0000	0.000	0.000
360	0.00	0.000	0.007	0.0374	1.0911	.5769E-02	.8721E-04	0.0000	0.000	0.000
361	0.00	0.000	0.007	0.0370	1.0755	.5686E-02	.8607E-04	0.0000	0.000	0.000
362	0.00	0.000	0.007	0.0366	1.0601	.5604E-02	.8494E-04	0.0000	0.000	0.000
363	0.00	0.000	0.007	0.0362	1.0449	.5524E-02	.8384E-04	0.0000	0.000	0.000
364	0.00	0.000	0.007	0.0358	1.0306	.5448E-02	.8279E-04	0.0000	0.000	0.000
365	0.00	0.000	0.007	0.0353	1.0179	.5381E-02	.8187E-04	0.0000	0.000	0.000
366	0.00	0.000	0.007	0.0349	1.0064	.5321E-02	.8103E-04	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.73	0.66	0.00	0.27	0.00	0.26
	0.91	4.78	2.53	0.79	0.00	0.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	2.328	0.425	0.241	0.181	0.156	0.137
	0.438	2.693	2.521	1.065	0.300	0.247
LATERAL DRAINAGE COLLECTED	0.4106	0.2531	0.1855	0.1384	0.1037	0.0714
FROM LAYER 1	0.0620	0.3330	0.5800	0.4278	0.2782	0.1984
PERCOLATION/LEAKAGE THROUGH	0.0058	0.0037	0.0028	0.0021	0.0016	0.0012
LAYER 2	0.0010	0.0047	0.0079	0.0060	0.0040	0.0030
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	2.505	1.651	1.132	0.873	0.633	0.450
TOP OF LAYER 2	0.378	2.032	3.657	2.610	1.754	1.210
STD. DEVIATION OF DAILY	0.293	0.199	0.096	0.065	0.075	0.040
HEAD ON TOP OF LAYER 2	0.100	1.738	0.233	0.308	0.206	0.120
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.33	10459693.247	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	10.732	9103999.109	87.04
DRAINAGE COLLECTED FROM LAYER 1	3.0421	2580666.817	24.67
PERC./LEAKAGE THROUGH LAYER 2	0.043857	37204.100	0.36
AVG. HEAD ON TOP OF LAYER 2	1.5738		
DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 5	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
CHANGE IN WATER STORAGE	-1.444	-1224972.522	-11.71
SOIL WATER AT START OF YEAR	18.525	15715254.508	
SOIL WATER AT END OF YEAR	17.081	14490281.986	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.157	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

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DAILY OUTPUT FOR YEAR 5

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.007	0.0344	0.9959	.5265E-02	.8025E-04	0.0000	0.000	0.000
2			0.00	0.000	0.007	0.0339	0.9860	.5213E-02	.7953E-04	0.0000	0.000	0.000
3			0.00	0.000	0.007	0.0335	0.9762	.5161E-02	.7881E-04	0.0000	0.000	0.000
4			0.00	0.000	0.007	0.0330	0.9659	.5107E-02	.7805E-04	0.0000	0.000	0.000
5			0.00	0.000	0.007	0.0326	0.9559	.5054E-02	.7732E-04	0.0000	0.000	0.000
6			0.00	0.000	0.007	0.0321	0.9464	.5003E-02	.7662E-04	0.0000	0.000	0.000
7			0.00	0.000	0.007	0.0316	0.9371	.4954E-02	.7593E-04	0.0000	0.000	0.000
8			0.00	0.000	0.007	0.0312	0.9280	.4906E-02	.7526E-04	0.0000	0.000	0.000
9			0.00	0.000	0.007	0.0307	0.9191	.4859E-02	.7461E-04	0.0000	0.000	0.000
10			0.00	0.000	0.007	0.0303	0.9103	.4813E-02	.7396E-04	0.0000	0.000	0.000
11			0.00	0.000	0.007	0.0298	0.9017	.4767E-02	.7333E-04	0.0000	0.000	0.000
12			0.00	0.000	0.006	0.0294	0.8932	.4722E-02	.7270E-04	0.0000	0.000	0.000
13			0.00	0.000	0.006	0.0289	0.8848	.4678E-02	.7208E-04	0.0000	0.000	0.000
14			0.08	0.000	0.008	0.0328	0.8769	.4636E-02	.7149E-04	0.0000	0.000	0.000
15			0.00	0.000	0.006	0.0322	0.8733	.4617E-02	.7123E-04	0.0000	0.000	0.000
16	*		0.00	0.000	0.006	0.0316	0.8708	.4604E-02	.7104E-04	0.0000	0.000	0.000
17			0.00	0.000	0.006	0.0311	0.8673	.4585E-02	.7078E-04	0.0000	0.000	0.000
18			0.00	0.000	0.006	0.0307	0.8616	.4555E-02	.7036E-04	0.0000	0.000	0.000
19			0.00	0.000	0.006	0.0302	0.8550	.4520E-02	.6987E-04	0.0000	0.000	0.000
20	*		0.00	0.000	0.006	0.0297	0.8480	.4483E-02	.6935E-04	0.0000	0.000	0.000
21			0.00	0.000	0.006	0.0293	0.8409	.4446E-02	.6882E-04	0.0000	0.000	0.000
22			0.00	0.000	0.006	0.0289	0.8338	.4408E-02	.6829E-04	0.0000	0.000	0.000
23			0.00	0.000	0.006	0.0284	0.8268	.4371E-02	.6777E-04	0.0000	0.000	0.000
24			0.00	0.000	0.006	0.0280	0.8198	.4334E-02	.6725E-04	0.0000	0.000	0.000
25			0.00	0.000	0.006	0.0275	0.8130	.4298E-02	.6675E-04	0.0000	0.000	0.000
26			0.00	0.000	0.006	0.0271	0.8063	.4263E-02	.6625E-04	0.0000	0.000	0.000
27			0.00	0.000	0.006	0.0266	0.7998	.4228E-02	.6576E-04	0.0000	0.000	0.000
28			0.00	0.000	0.006	0.0262	0.7932	.4194E-02	.6527E-04	0.0000	0.000	0.000
29			0.00	0.000	0.006	0.0258	0.7857	.4154E-02	.6471E-04	0.0000	0.000	0.000
30			0.00	0.000	0.006	0.0254	0.7782	.4114E-02	.6414E-04	0.0000	0.000	0.000
31			0.00	0.000	0.006	0.0250	0.7708	.4075E-02	.6359E-04	0.0000	0.000	0.000
32			0.00	0.000	0.006	0.0246	0.7635	.4037E-02	.6305E-04	0.0000	0.000	0.000
33			0.00	0.000	0.006	0.0242	0.7564	.3999E-02	.6251E-04	0.0000	0.000	0.000
34			0.08	0.000	0.007	0.0282	0.7491	.3961E-02	.6197E-04	0.0000	0.000	0.000
35			0.04	0.000	0.007	0.0300	0.7391	.3907E-02	.6121E-04	0.0000	0.000	0.000
36			0.00	0.000	0.006	0.0297	0.7285	.3851E-02	.6042E-04	0.0000	0.000	0.000
37			0.00	0.000	0.006	0.0293	0.7200	.3806E-02	.5977E-04	0.0000	0.000	0.000
38			0.00	0.000	0.006	0.0289	0.7121	.3765E-02	.5918E-04	0.0000	0.000	0.000
39			0.00	0.000	0.006	0.0286	0.7026	.3715E-02	.5847E-04	0.0000	0.000	0.000
40			0.10	0.000	0.007	0.0338	0.6929	.3663E-02	.5773E-04	0.0000	0.000	0.000
41			0.03	0.000	0.007	0.0351	0.6829	.3610E-02	.5698E-04	0.0000	0.000	0.000
42			0.22	0.000	0.007	0.0469	0.6731	.3559E-02	.5624E-04	0.0000	0.000	0.000
43			0.00	0.000	0.006	0.0466	0.6634	.3508E-02	.5550E-04	0.0000	0.000	0.000
44			0.61	0.000	0.007	0.0801	0.6539	.3457E-02	.5478E-04	0.0000	0.000	0.000
45			0.03	0.000	0.109	0.0757	0.6445	.3408E-02	.5407E-04	0.0000	0.000	0.000
46			0.05	0.000	0.105	0.0726	0.6353	.3359E-02	.5336E-04	0.0000	0.000	0.000

47	0.19	0.000	0.116	0.0767	0.6261	.3310E-02	.5267E-04	0.0000	0.000	0.000
48	0.11	0.000	0.133	0.0752	0.6180	.3268E-02	.5205E-04	0.0000	0.000	0.000
49	0.01	0.000	0.140	0.0670	0.6330	.3347E-02	.5319E-04	0.0000	0.000	0.000
50	0.03	0.000	0.120	0.0609	0.6782	.3585E-02	.5662E-04	0.0000	0.000	0.000
51	0.20	0.000	0.050	0.0685	0.7162	.3787E-02	.5949E-04	0.0000	0.000	0.000
52	0.00	0.000	0.142	0.0606	0.7257	.3836E-02	.6020E-04	0.0000	0.000	0.000
53	0.00	0.000	0.038	0.0581	0.7234	.3825E-02	.6004E-04	0.0000	0.000	0.000
54	0.00	0.000	0.032	0.0559	0.7337	.3879E-02	.6081E-04	0.0000	0.000	0.000
55	0.00	0.000	0.028	0.0540	0.7420	.3923E-02	.6143E-04	0.0000	0.000	0.000
56	0.00	0.000	0.025	0.0523	0.7464	.3946E-02	.6176E-04	0.0000	0.000	0.000
57	0.00	0.000	0.023	0.0508	0.7482	.3956E-02	.6190E-04	0.0000	0.000	0.000
58	0.00	0.000	0.022	0.0494	0.7482	.3956E-02	.6190E-04	0.0000	0.000	0.000
59	0.00	0.000	0.020	0.0481	0.7469	.3949E-02	.6180E-04	0.0000	0.000	0.000
60	0.00	0.000	0.019	0.0469	0.7445	.3936E-02	.6162E-04	0.0000	0.000	0.000
61	0.00	0.000	0.018	0.0457	0.7414	.3920E-02	.6139E-04	0.0000	0.000	0.000
62	0.00	0.000	0.017	0.0446	0.7376	.3900E-02	.6110E-04	0.0000	0.000	0.000
63	0.00	0.000	0.017	0.0435	0.7333	.3877E-02	.6078E-04	0.0000	0.000	0.000
64	0.00	0.000	0.016	0.0425	0.7287	.3852E-02	.6043E-04	0.0000	0.000	0.000
65	0.00	0.000	0.016	0.0415	0.7237	.3826E-02	.6006E-04	0.0000	0.000	0.000
66	0.00	0.000	0.015	0.0406	0.7184	.3798E-02	.5966E-04	0.0000	0.000	0.000
67	0.00	0.000	0.015	0.0397	0.7127	.3768E-02	.5923E-04	0.0000	0.000	0.000
68	0.00	0.000	0.014	0.0390	0.7033	.3718E-02	.5852E-04	0.0000	0.000	0.000
69	0.00	0.000	0.014	0.0382	0.6932	.3665E-02	.5776E-04	0.0000	0.000	0.000
70	0.00	0.000	0.013	0.0374	0.6833	.3612E-02	.5701E-04	0.0000	0.000	0.000
71	0.00	0.000	0.013	0.0367	0.6735	.3561E-02	.5627E-04	0.0000	0.000	0.000
72	0.00	0.000	0.013	0.0360	0.6638	.3509E-02	.5553E-04	0.0000	0.000	0.000
73	0.00	0.000	0.012	0.0353	0.6543	.3459E-02	.5481E-04	0.0000	0.000	0.000
74	0.03	0.000	0.014	0.0362	0.6449	.3409E-02	.5410E-04	0.0000	0.000	0.000
75	0.00	0.000	0.009	0.0357	0.6371	.3368E-02	.5350E-04	0.0000	0.000	0.000
76	0.00	0.000	0.012	0.0350	0.6289	.3325E-02	.5287E-04	0.0000	0.000	0.000
77	0.00	0.000	0.012	0.0344	0.6198	.3277E-02	.5219E-04	0.0000	0.000	0.000
78	0.00	0.000	0.011	0.0338	0.6109	.3230E-02	.5151E-04	0.0000	0.000	0.000
79	0.00	0.000	0.011	0.0331	0.6022	.3183E-02	.5084E-04	0.0000	0.000	0.000
80	0.00	0.000	0.011	0.0325	0.5935	.3138E-02	.5017E-04	0.0000	0.000	0.000
81	0.00	0.000	0.011	0.0319	0.5850	.3093E-02	.4952E-04	0.0000	0.000	0.000
82	0.00	0.000	0.011	0.0314	0.5766	.3048E-02	.4888E-04	0.0000	0.000	0.000
83	0.00	0.000	0.010	0.0308	0.5683	.3005E-02	.4824E-04	0.0000	0.000	0.000
84	0.00	0.000	0.010	0.0302	0.5601	.2961E-02	.4761E-04	0.0000	0.000	0.000
85	0.00	0.000	0.010	0.0289	0.5659	.2992E-02	.4805E-04	0.0000	0.000	0.000
86	0.00	0.000	0.010	0.0278	0.5898	.3118E-02	.4989E-04	0.0000	0.000	0.000
87	0.00	0.000	0.010	0.0267	0.6081	.3215E-02	.5129E-04	0.0000	0.000	0.000
88	0.00	0.000	0.010	0.0256	0.6252	.3305E-02	.5259E-04	0.0000	0.000	0.000
89	0.00	0.000	0.010	0.0245	0.6431	.3400E-02	.5396E-04	0.0000	0.000	0.000
90	0.00	0.000	0.009	0.0235	0.6598	.3488E-02	.5522E-04	0.0000	0.000	0.000
91	0.00	0.000	0.009	0.0225	0.6755	.3571E-02	.5642E-04	0.0000	0.000	0.000
92	0.00	0.000	0.009	0.0214	0.6906	.3651E-02	.5756E-04	0.0000	0.000	0.000
93	0.10	0.000	0.011	0.0259	0.7043	.3724E-02	.5860E-04	0.0000	0.000	0.000
94	0.00	0.000	0.009	0.0252	0.7129	.3769E-02	.5924E-04	0.0000	0.000	0.000
95	0.00	0.000	0.009	0.0244	0.7155	.3783E-02	.5944E-04	0.0000	0.000	0.000
96	0.00	0.000	0.009	0.0237	0.7164	.3787E-02	.5951E-04	0.0000	0.000	0.000
97	0.15	0.000	0.010	0.0313	0.7149	.3780E-02	.5940E-04	0.0000	0.000	0.000
98	0.01	0.000	0.010	0.0306	0.7274	.3846E-02	.6034E-04	0.0000	0.000	0.000
99	0.00	0.000	0.004	0.0301	0.7350	.3886E-02	.6090E-04	0.0000	0.000	0.000
100	0.00	0.000	0.004	0.0295	0.7436	.3931E-02	.6155E-04	0.0000	0.000	0.000
101	0.00	0.000	0.004	0.0289	0.7533	.3983E-02	.6228E-04	0.0000	0.000	0.000
102	0.00	0.000	0.004	0.0283	0.7600	.4018E-02	.6278E-04	0.0000	0.000	0.000
103	0.00	0.000	0.004	0.0278	0.7639	.4038E-02	.6307E-04	0.0000	0.000	0.000
104	0.00	0.000	0.004	0.0274	0.7657	.4048E-02	.6321E-04	0.0000	0.000	0.000
105	0.00	0.000	0.004	0.0270	0.7659	.4049E-02	.6323E-04	0.0000	0.000	0.000
106	0.00	0.000	0.004	0.0266	0.7649	.4044E-02	.6315E-04	0.0000	0.000	0.000
107	0.00	0.000	0.004	0.0262	0.7630	.4034E-02	.6301E-04	0.0000	0.000	0.000
108	0.00	0.000	0.004	0.0258	0.7603	.4020E-02	.6281E-04	0.0000	0.000	0.000
109	0.00	0.000	0.004	0.0254	0.7578	.4007E-02	.6262E-04	0.0000	0.000	0.000
110	0.00	0.000	0.004	0.0251	0.7560	.3997E-02	.6249E-04	0.0000	0.000	0.000
111	0.00	0.000	0.003	0.0247	0.7538	.3985E-02	.6232E-04	0.0000	0.000	0.000
112	0.00	0.000	0.003	0.0243	0.7512	.3971E-02	.6212E-04	0.0000	0.000	0.000
113	0.00	0.000	0.003	0.0240	0.7483	.3956E-02	.6191E-04	0.0000	0.000	0.000

114	0.00	0.000	0.003	0.0236	0.7453	.3940E-02	.6168E-04	0.0000	0.000	0.000
115	0.00	0.000	0.003	0.0233	0.7421	.3923E-02	.6144E-04	0.0000	0.000	0.000
116	0.00	0.000	0.003	0.0230	0.7388	.3906E-02	.6119E-04	0.0000	0.000	0.000
117	0.00	0.000	0.003	0.0226	0.7355	.3888E-02	.6094E-04	0.0000	0.000	0.000
118	0.00	0.000	0.003	0.0223	0.7321	.3870E-02	.6069E-04	0.0000	0.000	0.000
119	0.00	0.000	0.003	0.0220	0.7287	.3852E-02	.6043E-04	0.0000	0.000	0.000
120	0.00	0.000	0.003	0.0216	0.7252	.3834E-02	.6017E-04	0.0000	0.000	0.000
121	0.00	0.000	0.003	0.0213	0.7218	.3816E-02	.5991E-04	0.0000	0.000	0.000
122	0.00	0.000	0.003	0.0210	0.7183	.3798E-02	.5965E-04	0.0000	0.000	0.000
123	0.00	0.000	0.003	0.0207	0.7148	.3779E-02	.5939E-04	0.0000	0.000	0.000
124	0.00	0.000	0.003	0.0204	0.7114	.3761E-02	.5913E-04	0.0000	0.000	0.000
125	0.00	0.000	0.003	0.0200	0.7079	.3743E-02	.5887E-04	0.0000	0.000	0.000
126	0.00	0.000	0.003	0.0197	0.7044	.3724E-02	.5860E-04	0.0000	0.000	0.000
127	0.00	0.000	0.003	0.0194	0.7010	.3706E-02	.5834E-04	0.0000	0.000	0.000
128	0.00	0.000	0.003	0.0191	0.6975	.3688E-02	.5808E-04	0.0000	0.000	0.000
129	0.00	0.000	0.003	0.0188	0.6943	.3671E-02	.5784E-04	0.0000	0.000	0.000
130	0.00	0.000	0.003	0.0184	0.6919	.3658E-02	.5766E-04	0.0000	0.000	0.000
131	0.73	0.000	0.005	0.0583	0.7021	.3712E-02	.5843E-04	0.0000	0.000	0.000
132	0.00	0.000	0.005	0.0580	0.6970	.3685E-02	.5804E-04	0.0000	0.000	0.000
133	0.00	0.000	0.006	0.0577	0.6870	.3632E-02	.5729E-04	0.0000	0.000	0.000
134	0.00	0.000	0.006	0.0574	0.6771	.3580E-02	.5654E-04	0.0000	0.000	0.000
135	0.00	0.000	0.006	0.0570	0.6674	.3529E-02	.5581E-04	0.0000	0.000	0.000
136	0.00	0.000	0.006	0.0562	0.6679	.3531E-02	.5585E-04	0.0000	0.000	0.000
137	0.00	0.000	0.006	0.0551	0.6876	.3635E-02	.5733E-04	0.0000	0.000	0.000
138	0.00	0.000	0.006	0.0541	0.7129	.3769E-02	.5924E-04	0.0000	0.000	0.000
139	0.00	0.000	0.006	0.0531	0.7370	.3897E-02	.6106E-04	0.0000	0.000	0.000
140	0.00	0.000	0.006	0.0522	0.7580	.4007E-02	.6263E-04	0.0000	0.000	0.000
141	0.00	0.000	0.006	0.0513	0.7754	.4100E-02	.6394E-04	0.0000	0.000	0.000
142	0.00	0.000	0.006	0.0505	0.7897	.4175E-02	.6500E-04	0.0000	0.000	0.000
143	0.00	0.000	0.006	0.0498	0.8011	.4235E-02	.6586E-04	0.0000	0.000	0.000
144	0.00	0.000	0.006	0.0491	0.8102	.4283E-02	.6653E-04	0.0000	0.000	0.000
145	0.00	0.000	0.005	0.0484	0.8172	.4320E-02	.6706E-04	0.0000	0.000	0.000
146	0.00	0.000	0.005	0.0477	0.8224	.4348E-02	.6745E-04	0.0000	0.000	0.000
147	0.00	0.000	0.005	0.0471	0.8262	.4368E-02	.6772E-04	0.0000	0.000	0.000
148	0.00	0.000	0.005	0.0466	0.8286	.4381E-02	.6791E-04	0.0000	0.000	0.000
149	0.00	0.000	0.005	0.0460	0.8299	.4388E-02	.6800E-04	0.0000	0.000	0.000
150	0.00	0.000	0.005	0.0455	0.8302	.4389E-02	.6803E-04	0.0000	0.000	0.000
151	0.00	0.000	0.005	0.0449	0.8297	.4386E-02	.6799E-04	0.0000	0.000	0.000
152	0.00	0.000	0.005	0.0444	0.8284	.4380E-02	.6789E-04	0.0000	0.000	0.000
153	0.00	0.000	0.005	0.0439	0.8264	.4369E-02	.6774E-04	0.0000	0.000	0.000
154	0.00	0.000	0.005	0.0435	0.8238	.4355E-02	.6755E-04	0.0000	0.000	0.000
155	0.00	0.000	0.005	0.0430	0.8207	.4339E-02	.6732E-04	0.0000	0.000	0.000
156	0.00	0.000	0.005	0.0427	0.8144	.4306E-02	.6685E-04	0.0000	0.000	0.000
157	0.00	0.000	0.005	0.0423	0.8070	.4267E-02	.6630E-04	0.0000	0.000	0.000
158	0.05	0.000	0.008	0.0445	0.8008	.4234E-02	.6584E-04	0.0000	0.000	0.000
159	0.01	0.000	0.008	0.0445	0.7954	.4205E-02	.6543E-04	0.0000	0.000	0.000
160	0.00	0.000	0.005	0.0440	0.7906	.4180E-02	.6507E-04	0.0000	0.000	0.000
161	0.00	0.000	0.005	0.0436	0.7859	.4155E-02	.6472E-04	0.0000	0.000	0.000
162	0.00	0.000	0.005	0.0432	0.7816	.4132E-02	.6440E-04	0.0000	0.000	0.000
163	0.00	0.000	0.005	0.0427	0.7784	.4115E-02	.6416E-04	0.0000	0.000	0.000
164	0.00	0.000	0.005	0.0423	0.7755	.4100E-02	.6395E-04	0.0000	0.000	0.000
165	0.00	0.000	0.005	0.0418	0.7725	.4084E-02	.6372E-04	0.0000	0.000	0.000
166	0.00	0.000	0.005	0.0414	0.7692	.4067E-02	.6347E-04	0.0000	0.000	0.000
167	0.00	0.000	0.005	0.0410	0.7654	.4047E-02	.6319E-04	0.0000	0.000	0.000
168	0.00	0.000	0.005	0.0406	0.7613	.4025E-02	.6288E-04	0.0000	0.000	0.000
169	0.00	0.000	0.005	0.0402	0.7568	.4001E-02	.6254E-04	0.0000	0.000	0.000
170	0.00	0.000	0.005	0.0398	0.7519	.3975E-02	.6218E-04	0.0000	0.000	0.000
171	0.00	0.000	0.005	0.0394	0.7467	.3948E-02	.6179E-04	0.0000	0.000	0.000
172	0.00	0.000	0.005	0.0390	0.7413	.3919E-02	.6138E-04	0.0000	0.000	0.000
173	0.00	0.000	0.005	0.0386	0.7356	.3889E-02	.6095E-04	0.0000	0.000	0.000
174	0.00	0.000	0.005	0.0383	0.7297	.3858E-02	.6051E-04	0.0000	0.000	0.000
175	0.00	0.000	0.005	0.0379	0.7237	.3826E-02	.6006E-04	0.0000	0.000	0.000
176	0.00	0.000	0.005	0.0376	0.7175	.3793E-02	.5959E-04	0.0000	0.000	0.000
177	0.00	0.000	0.005	0.0372	0.7112	.3760E-02	.5912E-04	0.0000	0.000	0.000
178	0.00	0.000	0.005	0.0369	0.7048	.3726E-02	.5863E-04	0.0000	0.000	0.000
179	0.00	0.000	0.005	0.0366	0.6983	.3692E-02	.5814E-04	0.0000	0.000	0.000
180	0.00	0.000	0.005	0.0362	0.6918	.3657E-02	.5765E-04	0.0000	0.000	0.000

181	0.00	0.000	0.005	0.0359	0.6856	.3625E-02	.5718E-04	0.0000	0.000	0.000
182	0.00	0.000	0.005	0.0356	0.6796	.3593E-02	.5673E-04	0.0000	0.000	0.000
183	0.06	0.000	0.008	0.0384	0.6722	.3554E-02	.5617E-04	0.0000	0.000	0.000
184	0.00	0.000	0.005	0.0382	0.6625	.3503E-02	.5543E-04	0.0000	0.000	0.000
185	0.00	0.000	0.005	0.0379	0.6530	.3452E-02	.5471E-04	0.0000	0.000	0.000
186	0.00	0.000	0.005	0.0377	0.6436	.3403E-02	.5400E-04	0.0000	0.000	0.000
187	0.42	0.000	0.008	0.0605	0.6345	.3355E-02	.5331E-04	0.0000	0.000	0.000
188	0.01	0.000	0.211	0.0494	0.6265	.3312E-02	.5269E-04	0.0000	0.000	0.000
189	0.00	0.000	0.005	0.0491	0.6180	.3267E-02	.5205E-04	0.0000	0.000	0.000
190	0.00	0.000	0.005	0.0488	0.6105	.3227E-02	.5147E-04	0.0000	0.000	0.000
191	0.00	0.000	0.005	0.0485	0.6030	.3188E-02	.5090E-04	0.0000	0.000	0.000
192	0.00	0.000	0.005	0.0482	0.5957	.3149E-02	.5034E-04	0.0000	0.000	0.000
193	0.00	0.000	0.005	0.0479	0.5884	.3111E-02	.4979E-04	0.0000	0.000	0.000
194	0.00	0.000	0.005	0.0476	0.5813	.3073E-02	.4924E-04	0.0000	0.000	0.000
195	0.00	0.000	0.005	0.0473	0.5742	.3036E-02	.4870E-04	0.0000	0.000	0.000
196	0.24	0.000	0.009	0.0601	0.5673	.2999E-02	.4816E-04	0.0000	0.000	0.000
197	0.00	0.000	0.323	0.0421	0.5600	.2960E-02	.4760E-04	0.0000	0.000	0.000
198	1.20	0.000	0.009	0.1083	0.5522	.2920E-02	.4700E-04	0.0000	0.000	0.000
199	0.00	0.000	0.335	0.0897	0.5446	.2879E-02	.4642E-04	0.0000	0.000	0.000
200	0.00	0.000	0.361	0.0697	0.5368	.2838E-02	.4581E-04	0.0000	0.000	0.000
201	0.43	0.000	0.134	0.0861	0.5291	.2797E-02	.4522E-04	0.0000	0.000	0.000
202	0.00	0.000	0.335	0.0675	0.5215	.2757E-02	.4463E-04	0.0000	0.000	0.000
203	0.07	0.000	0.058	0.0682	0.5140	.2717E-02	.4405E-04	0.0000	0.000	0.000
204	0.00	0.000	0.041	0.0659	0.5066	.2678E-02	.4348E-04	0.0000	0.000	0.000
205	0.00	0.000	0.035	0.0640	0.4993	.2640E-02	.4291E-04	0.0000	0.000	0.000
206	0.44	0.000	0.035	0.0865	0.4922	.2602E-02	.4235E-04	0.0000	0.000	0.000
207	0.00	0.000	0.365	0.0658	0.4963	.2624E-02	.4267E-04	0.0000	0.000	0.000
208	0.00	0.000	0.028	0.0643	0.4958	.2621E-02	.4263E-04	0.0000	0.000	0.000
209	0.00	0.000	0.025	0.0629	0.4886	.2583E-02	.4208E-04	0.0000	0.000	0.000
210	0.38	0.000	0.028	0.0825	0.4816	.2546E-02	.4153E-04	0.0000	0.000	0.000
211	0.00	0.000	0.339	0.0634	0.4783	.2529E-02	.4127E-04	0.0000	0.000	0.000
212	0.00	0.000	0.022	0.0621	0.4813	.2545E-02	.4150E-04	0.0000	0.000	0.000
213	0.00	0.000	0.021	0.0606	0.4823	.2550E-02	.4158E-04	0.0000	0.000	0.000
214	0.00	0.000	0.020	0.0591	0.4910	.2596E-02	.4226E-04	0.0000	0.000	0.000
215	0.00	0.000	0.019	0.0578	0.4993	.2640E-02	.4291E-04	0.0000	0.000	0.000
216	0.00	0.000	0.018	0.0565	0.5068	.2679E-02	.4349E-04	0.0000	0.000	0.000
217	0.00	0.000	0.018	0.0552	0.5134	.2714E-02	.4400E-04	0.0000	0.000	0.000
218	0.00	0.000	0.017	0.0540	0.5190	.2744E-02	.4443E-04	0.0000	0.000	0.000
219	0.00	0.000	0.016	0.0528	0.5237	.2769E-02	.4480E-04	0.0000	0.000	0.000
220	0.00	0.000	0.016	0.0517	0.5276	.2789E-02	.4510E-04	0.0000	0.000	0.000
221	0.00	0.000	0.016	0.0506	0.5307	.2806E-02	.4534E-04	0.0000	0.000	0.000
222	0.19	0.000	0.019	0.0599	0.5332	.2819E-02	.4553E-04	0.0000	0.000	0.000
223	0.00	0.000	0.015	0.0589	0.5350	.2828E-02	.4567E-04	0.0000	0.000	0.000
224	0.00	0.000	0.014	0.0578	0.5385	.2847E-02	.4594E-04	0.0000	0.000	0.000
225	0.00	0.000	0.014	0.0568	0.5435	.2873E-02	.4633E-04	0.0000	0.000	0.000
226	0.00	0.000	0.014	0.0558	0.5467	.2890E-02	.4658E-04	0.0000	0.000	0.000
227	0.00	0.000	0.013	0.0549	0.5485	.2900E-02	.4672E-04	0.0000	0.000	0.000
228	0.00	0.000	0.013	0.0540	0.5492	.2904E-02	.4677E-04	0.0000	0.000	0.000
229	0.84	0.000	0.017	0.0996	0.5481	.2898E-02	.4669E-04	0.0000	0.000	0.000
230	1.21	0.000	0.299	0.1498	0.5493	.2904E-02	.4678E-04	0.0000	0.000	0.000
231	0.15	0.000	0.233	0.1341	0.6026	.3186E-02	.5085E-04	0.0000	0.000	0.000
232	0.00	0.000	0.323	0.1014	1.4992	.7926E-02	.1164E-03	0.0000	0.000	0.000
233	0.01	0.000	0.266	0.0839	1.8356	.9704E-02	.1402E-03	0.0000	0.000	0.000
234	0.00	0.000	0.130	0.0739	1.9486	.1030E-01	.1481E-03	0.0000	0.000	0.000
235	0.00	0.000	0.054	0.0688	2.0489	.1083E-01	.1551E-03	0.0000	0.000	0.000
236	0.00	0.000	0.041	0.0650	2.1081	.1115E-01	.1592E-03	0.0000	0.000	0.000
237	0.00	0.000	0.035	0.0622	2.1417	.1132E-01	.1615E-03	0.0000	0.000	0.000
238	0.00	0.000	0.031	0.0603	2.1347	.1129E-01	.1610E-03	0.0000	0.000	0.000
239	0.00	0.000	0.028	0.0584	2.1163	.1119E-01	.1597E-03	0.0000	0.000	0.000
240	0.11	0.000	0.030	0.0622	2.1144	.1118E-01	.1596E-03	0.0000	0.000	0.000
241	0.00	0.000	0.024	0.0605	2.1044	.1113E-01	.1589E-03	0.0000	0.000	0.000
242	0.12	0.000	0.026	0.0648	2.1008	.1111E-01	.1587E-03	0.0000	0.000	0.000
243	0.04	0.000	0.025	0.0649	2.1158	.1119E-01	.1597E-03	0.0000	0.000	0.000
244	0.00	0.000	0.020	0.0629	2.1239	.1123E-01	.1603E-03	0.0000	0.000	0.000
245	0.00	0.000	0.019	0.0610	2.1307	.1126E-01	.1607E-03	0.0000	0.000	0.000
246	0.00	0.000	0.018	0.0592	2.1400	.1131E-01	.1614E-03	0.0000	0.000	0.000
247	0.00	0.000	0.018	0.0575	2.1474	.1135E-01	.1619E-03	0.0000	0.000	0.000

248	0.00	0.000	0.017	0.0559	2.1496	.1136E-01	.1620E-03	0.0000	0.000	0.000
249	0.00	0.000	0.016	0.0545	2.1467	.1135E-01	.1618E-03	0.0000	0.000	0.000
250	0.00	0.000	0.016	0.0532	2.1388	.1131E-01	.1613E-03	0.0000	0.000	0.000
251	0.00	0.000	0.016	0.0519	2.1273	.1125E-01	.1605E-03	0.0000	0.000	0.000
252	0.00	0.000	0.015	0.0507	2.1148	.1118E-01	.1596E-03	0.0000	0.000	0.000
253	0.00	0.000	0.015	0.0496	2.1011	.1111E-01	.1587E-03	0.0000	0.000	0.000
254	0.00	0.000	0.014	0.0485	2.0861	.1103E-01	.1576E-03	0.0000	0.000	0.000
255	0.00	0.000	0.014	0.0475	2.0701	.1094E-01	.1565E-03	0.0000	0.000	0.000
256	0.00	0.000	0.014	0.0464	2.0531	.1085E-01	.1554E-03	0.0000	0.000	0.000
257	0.00	0.000	0.013	0.0455	2.0355	.1076E-01	.1541E-03	0.0000	0.000	0.000
258	3.38	0.000	0.018	0.2247	2.0161	.1066E-01	.1528E-03	0.0000	0.000	0.000
259	0.00	0.000	0.226	0.0994	5.1872	.2742E-01	.3661E-03	0.0000	0.000	0.000
260	0.00	0.000	0.246	0.0736	8.0591	.4261E-01	.5570E-03	0.0000	0.000	0.000
261	0.80	0.000	0.183	0.1046	8.2311	.4352E-01	.5684E-03	0.0000	0.000	0.000
262	0.00	0.000	0.209	0.0908	8.2501	.4362E-01	.5697E-03	0.0000	0.000	0.000
263	0.00	0.000	0.228	0.0766	8.2260	.4349E-01	.5681E-03	0.0000	0.000	0.000
264	0.00	0.000	0.214	0.0638	8.1713	.4320E-01	.5644E-03	0.0000	0.000	0.000
265	0.00	0.000	0.130	0.0554	8.0949	.4280E-01	.5594E-03	0.0000	0.000	0.000
266	0.00	0.000	0.043	0.0522	8.0328	.4247E-01	.5553E-03	0.0000	0.000	0.000
267	0.00	0.000	0.041	0.0492	7.9588	.4208E-01	.5504E-03	0.0000	0.000	0.000
268	0.00	0.000	0.035	0.0472	7.8628	.4157E-01	.5440E-03	0.0000	0.000	0.000
269	0.00	0.000	0.031	0.0451	7.7603	.4103E-01	.5372E-03	0.0000	0.000	0.000
270	0.00	0.000	0.028	0.0431	7.6698	.4055E-01	.5312E-03	0.0000	0.000	0.000
271	0.00	0.000	0.025	0.0415	7.5747	.4005E-01	.5250E-03	0.0000	0.000	0.000
272	0.00	0.000	0.024	0.0393	7.4868	.3958E-01	.5191E-03	0.0000	0.000	0.000
273	0.00	0.000	0.022	0.0366	7.4297	.3928E-01	.5154E-03	0.0000	0.000	0.000
274	0.00	0.000	0.021	0.0343	7.3951	.3910E-01	.5131E-03	0.0000	0.000	0.000
275	0.07	0.000	0.025	0.0361	7.3354	.3878E-01	.5091E-03	0.0000	0.000	0.000
276	0.00	0.000	0.019	0.0346	7.2611	.3839E-01	.5042E-03	0.0000	0.000	0.000
277	0.00	0.000	0.018	0.0335	7.1688	.3790E-01	.4981E-03	0.0000	0.000	0.000
278	0.00	0.000	0.018	0.0317	7.0854	.3746E-01	.4926E-03	0.0000	0.000	0.000
279	0.00	0.000	0.016	0.0303	7.0177	.3710E-01	.4881E-03	0.0000	0.000	0.000
280	0.00	0.000	0.016	0.0284	6.9497	.3674E-01	.4836E-03	0.0000	0.000	0.000
281	0.00	0.000	0.016	0.0268	6.8914	.3643E-01	.4797E-03	0.0000	0.000	0.000
282	0.00	0.000	0.016	0.0252	6.8295	.3611E-01	.4756E-03	0.0000	0.000	0.000
283	0.00	0.000	0.015	0.0236	6.7663	.3577E-01	.4715E-03	0.0000	0.000	0.000
284	0.00	0.000	0.015	0.0221	6.7028	.3544E-01	.4673E-03	0.0000	0.000	0.000
285	0.04	0.000	0.019	0.0233	6.6272	.3504E-01	.4623E-03	0.0000	0.000	0.000
286	0.00	0.000	0.014	0.0222	6.5350	.3455E-01	.4562E-03	0.0000	0.000	0.000
287	0.00	0.000	0.014	0.0209	6.4613	.3416E-01	.4513E-03	0.0000	0.000	0.000
288	0.00	0.000	0.013	0.0193	6.3953	.3381E-01	.4469E-03	0.0000	0.000	0.000
289	0.00	0.000	0.001	0.0192	6.3360	.3350E-01	.4430E-03	0.0000	0.000	0.000
290	0.00	0.000	0.001	0.0191	6.2489	.3304E-01	.4372E-03	0.0000	0.000	0.000
291	0.00	0.000	0.001	0.0189	6.1627	.3258E-01	.4315E-03	0.0000	0.000	0.000
292	0.00	0.000	0.001	0.0188	6.0774	.3213E-01	.4259E-03	0.0000	0.000	0.000
293	0.00	0.000	0.001	0.0187	5.9932	.3169E-01	.4203E-03	0.0000	0.000	0.000
294	0.00	0.000	0.001	0.0186	5.9101	.3125E-01	.4148E-03	0.0000	0.000	0.000
295	0.00	0.000	0.001	0.0185	5.8282	.3081E-01	.4094E-03	0.0000	0.000	0.000
296	0.00	0.000	0.001	0.0184	5.7473	.3039E-01	.4040E-03	0.0000	0.000	0.000
297	0.00	0.000	0.001	0.0183	5.6676	.2996E-01	.3987E-03	0.0000	0.000	0.000
298	0.00	0.000	0.001	0.0182	5.5890	.2955E-01	.3935E-03	0.0000	0.000	0.000
299	0.00	0.000	0.001	0.0181	5.5114	.2914E-01	.3883E-03	0.0000	0.000	0.000
300	0.00	0.000	0.000	0.0180	5.4351	.2873E-01	.3833E-03	0.0000	0.000	0.000
301	0.00	0.000	0.000	0.0180	5.3580	.2833E-01	.3782E-03	0.0000	0.000	0.000
302	0.00	0.000	0.000	0.0180	5.2812	.2792E-01	.3731E-03	0.0000	0.000	0.000
303	0.00	0.000	0.000	0.0180	5.2056	.2752E-01	.3680E-03	0.0000	0.000	0.000
304	0.00	0.000	0.000	0.0180	5.1310	.2713E-01	.3631E-03	0.0000	0.000	0.000
305	0.00	0.000	0.000	0.0180	5.0575	.2674E-01	.3582E-03	0.0000	0.000	0.000
306	0.00	0.000	0.000	0.0180	4.9851	.2636E-01	.3534E-03	0.0000	0.000	0.000
307	0.00	0.000	0.000	0.0180	4.9137	.2598E-01	.3486E-03	0.0000	0.000	0.000
308	0.00	0.000	0.000	0.0180	4.8433	.2561E-01	.3440E-03	0.0000	0.000	0.000
309	0.00	0.000	0.000	0.0180	4.7739	.2524E-01	.3393E-03	0.0000	0.000	0.000
310	0.00	0.000	0.000	0.0180	4.7055	.2488E-01	.3348E-03	0.0000	0.000	0.000
311	0.00	0.000	0.000	0.0180	4.6381	.2452E-01	.3303E-03	0.0000	0.000	0.000
312	0.11	0.000	0.006	0.0238	4.5716	.2417E-01	.3259E-03	0.0000	0.000	0.000
313	0.30	0.000	0.009	0.0400	4.5061	.2382E-01	.3215E-03	0.0000	0.000	0.000
314	0.00	0.000	0.004	0.0398	4.4416	.2348E-01	.3172E-03	0.0000	0.000	0.000

315	0.00	0.000	0.006	0.0394	4.3780	.2315E-01	.3129E-03	0.0000	0.000	0.000
316	0.00	0.000	0.006	0.0391	4.3152	.2281E-01	.3088E-03	0.0000	0.000	0.000
317	0.00	0.000	0.006	0.0387	4.2534	.2249E-01	.3046E-03	0.0000	0.000	0.000
318	0.00	0.000	0.006	0.0384	4.1925	.2217E-01	.3005E-03	0.0000	0.000	0.000
319	0.00	0.000	0.006	0.0381	4.1324	.2185E-01	.2965E-03	0.0000	0.000	0.000
320	0.00	0.000	0.006	0.0378	4.0732	.2153E-01	.2926E-03	0.0000	0.000	0.000
321	0.03	0.000	0.009	0.0389	4.0148	.2123E-01	.2887E-03	0.0000	0.000	0.000
322	0.12	0.000	0.009	0.0448	3.9619	.2095E-01	.2851E-03	0.0000	0.000	0.000
323	0.14	0.000	0.009	0.0521	3.9145	.2070E-01	.2819E-03	0.0000	0.000	0.000
324	0.17	0.000	0.009	0.0605	3.8646	.2043E-01	.2786E-03	0.0000	0.000	0.000
325	0.00	0.000	0.007	0.0602	3.8256	.2023E-01	.2760E-03	0.0000	0.000	0.000
326	0.00	0.000	0.007	0.0598	3.7708	.1994E-01	.2723E-03	0.0000	0.000	0.000
327	0.00	0.000	0.007	0.0594	3.7168	.1965E-01	.2687E-03	0.0000	0.000	0.000
328	0.00	0.000	0.007	0.0587	3.6664	.1938E-01	.2653E-03	0.0000	0.000	0.000
329	0.00	0.000	0.007	0.0575	3.6416	.1925E-01	.2636E-03	0.0000	0.000	0.000
330	0.00	0.000	0.007	0.0562	3.6320	.1920E-01	.2630E-03	0.0000	0.000	0.000
331	0.00	0.000	0.007	0.0550	3.6223	.1915E-01	.2623E-03	0.0000	0.000	0.000
332	0.00	0.000	0.006	0.0539	3.6085	.1908E-01	.2614E-03	0.0000	0.000	0.000
333	0.00	0.000	0.006	0.0529	3.5904	.1898E-01	.2602E-03	0.0000	0.000	0.000
334	0.00	0.000	0.006	0.0520	3.5685	.1887E-01	.2587E-03	0.0000	0.000	0.000
335	0.00	0.000	0.006	0.0512	3.5434	.1873E-01	.2570E-03	0.0000	0.000	0.000
336	0.00	0.000	0.006	0.0503	3.5164	.1859E-01	.2552E-03	0.0000	0.000	0.000
337	0.00	0.000	0.006	0.0496	3.4874	.1844E-01	.2532E-03	0.0000	0.000	0.000
338	0.00	0.000	0.006	0.0489	3.4561	.1827E-01	.2511E-03	0.0000	0.000	0.000
339	0.00	0.000	0.006	0.0482	3.4232	.1810E-01	.2489E-03	0.0000	0.000	0.000
340	0.00	0.000	0.006	0.0476	3.3893	.1792E-01	.2466E-03	0.0000	0.000	0.000
341	0.07	0.000	0.009	0.0507	3.3541	.1773E-01	.2442E-03	0.0000	0.000	0.000
342	0.12	0.000	0.009	0.0567	3.3148	.1752E-01	.2416E-03	0.0000	0.000	0.000
343	0.02	0.000	0.009	0.0569	3.2790	.1734E-01	.2392E-03	0.0000	0.000	0.000
344	0.03	0.000	0.009	0.0577	3.2505	.1719E-01	.2373E-03	0.0000	0.000	0.000
345	0.00	0.000	0.006	0.0571	3.2198	.1702E-01	.2352E-03	0.0000	0.000	0.000
346	0.00	0.000	0.006	0.0567	3.1836	.1683E-01	.2327E-03	0.0000	0.000	0.000
347	0.03	0.000	0.009	0.0579	3.1384	.1659E-01	.2297E-03	0.0000	0.000	0.000
348	0.00	0.000	0.006	0.0574	3.0941	.1636E-01	.2267E-03	0.0000	0.000	0.000
349	0.00	0.000	0.006	0.0569	3.0585	.1617E-01	.2243E-03	0.0000	0.000	0.000
350	0.00	0.000	0.006	0.0564	3.0227	.1598E-01	.2218E-03	0.0000	0.000	0.000
351	0.00	0.000	0.006	0.0558	2.9894	.1580E-01	.2196E-03	0.0000	0.000	0.000
352	0.00	0.000	0.006	0.0551	2.9620	.1566E-01	.2177E-03	0.0000	0.000	0.000
353	0.00	0.000	0.006	0.0544	2.9393	.1554E-01	.2162E-03	0.0000	0.000	0.000
354	0.00	0.000	0.006	0.0536	2.9192	.1543E-01	.2148E-03	0.0000	0.000	0.000
355	0.00	0.000	0.006	0.0528	2.8999	.1533E-01	.2135E-03	0.0000	0.000	0.000
356	0.00	0.000	0.006	0.0521	2.8804	.1523E-01	.2122E-03	0.0000	0.000	0.000
357	0.00	0.000	0.006	0.0513	2.8600	.1512E-01	.2108E-03	0.0000	0.000	0.000
358	0.00	0.000	0.006	0.0506	2.8386	.1501E-01	.2093E-03	0.0000	0.000	0.000
359	0.00	0.000	0.005	0.0500	2.8162	.1489E-01	.2078E-03	0.0000	0.000	0.000
360	0.00	0.000	0.005	0.0493	2.7929	.1477E-01	.2062E-03	0.0000	0.000	0.000
361	0.15	0.000	0.009	0.0569	2.7682	.1464E-01	.2045E-03	0.0000	0.000	0.000
362	0.03	0.000	0.009	0.0577	2.7419	.1450E-01	.2027E-03	0.0000	0.000	0.000
363	0.00	0.000	0.005	0.0570	2.7235	.1440E-01	.2015E-03	0.0000	0.000	0.000
364	0.01	0.000	0.009	0.0569	2.7011	.1428E-01	.1999E-03	0.0000	0.000	0.000
365	0.00	0.000	0.005	0.0566	2.6654	.1409E-01	.1975E-03	0.0000	0.000	0.000

MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.08	1.70	0.03	0.26	0.73	0.06
	3.25	2.67	4.18	0.11	0.87	0.46
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.199	1.186	0.392	0.155	0.148	0.155
	2.760	1.826	1.929	0.267	0.157	0.206

LATERAL DRAINAGE COLLECTED	0.1434	0.1042	0.1070	0.1171	0.1217	0.1210
FROM LAYER 1	0.0925	0.1816	0.7802	1.0304	0.6618	0.5035
PERCOLATION/LEAKAGE THROUGH	0.0022	0.0016	0.0017	0.0018	0.0019	0.0019
LAYER 2	0.0015	0.0027	0.0104	0.0136	0.0090	0.0070
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.875	0.704	0.653	0.738	0.743	0.763
TOP OF LAYER 2	0.564	1.108	4.919	6.287	4.173	3.072
STD. DEVIATION OF DAILY	0.065	0.045	0.059	0.023	0.058	0.042
HEAD ON TOP OF LAYER 2	0.064	0.747	2.910	0.691	0.477	0.272
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.40	12215700.142	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	9.378	7955629.730	65.13
DRAINAGE COLLECTED FROM LAYER 1	3.9643	3363003.735	27.53
PERC./LEAKAGE THROUGH LAYER 2	0.055360	46962.468	0.38
AVG. HEAD ON TOP OF LAYER 2	2.0499		
DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 5	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
CHANGE IN WATER STORAGE	1.057	897066.861	7.34
SOIL WATER AT START OF YEAR	17.081	14490281.986	
SOIL WATER AT END OF YEAR	18.139	15387348.846	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00

ANNUAL WATER BUDGET BALANCE	0.0000	-0.183	0.00

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AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.97	0.65	0.07	0.22	0.33	0.57
	1.54	3.80	4.40	0.39	0.50	0.41
STD. DEVIATIONS	0.95	0.62	0.13	0.24	0.29	0.63
	1.20	0.82	1.84	0.33	0.47	0.18
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	1.043	0.477	0.232	0.111	0.115	0.262
	1.360	2.427	2.424	0.546	0.211	0.269
STD. DEVIATIONS	0.912	0.424	0.130	0.068	0.041	0.162
	1.050	0.370	1.236	0.327	0.078	0.085
LATERAL DRAINAGE COLLECTED FROM LAYER 1						
TOTALS	0.2261	0.1680	0.1509	0.1185	0.0974	0.0776
	0.0842	0.1994	0.8677	0.9253	0.5945	0.4256
STD. DEVIATIONS	0.1599	0.1134	0.0993	0.0722	0.0575	0.0483
	0.0582	0.1416	0.6191	0.3815	0.2363	0.1602
PERCOLATION/LEAKAGE THROUGH LAYER 2						
TOTALS	0.0033	0.0025	0.0023	0.0018	0.0015	0.0012
	0.0013	0.0029	0.0115	0.0123	0.0081	0.0060
STD. DEVIATIONS	0.0022	0.0016	0.0015	0.0011	0.0009	0.0008
	0.0009	0.0020	0.0079	0.0048	0.0030	0.0021
LATERAL DRAINAGE COLLECTED FROM LAYER 3						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 5						

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 2

AVERAGES	1.3799	1.1229	0.9209	0.7474	0.5941	0.4892
	0.5140	1.2166	5.4707	5.6457	3.7481	2.5970
STD. DEVIATIONS	0.9758	0.7556	0.6060	0.4552	0.3511	0.3043
	0.3551	0.8637	3.9032	2.3278	1.4902	0.9776

DAILY AVERAGE HEAD ON TOP OF LAYER 4

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5

	INCHES		CU. FEET	PERCENT
PRECIPITATION	13.85	(1.659)	11749128.3	100.00
RUNOFF	0.000	(0.0000)	0.00	0.000
EVAPOTRANSPIRATION	9.476	(0.8511)	8038919.53	68.421
LATERAL DRAINAGE COLLECTED FROM LAYER 1	3.93524	(1.47548)	3338312.322	28.41328
PERCOLATION/LEAKAGE THROUGH LAYER 2	0.05463	(0.01963)	46339.379	0.39441
AVERAGE HEAD ON TOP OF LAYER 2	2.037	(0.768)		
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.00000	(0.00000)	0.000	0.00000
PERCOLATION/LEAKAGE THROUGH LAYER 5	0.00000	(0.00000)	0.000	0.00000
AVERAGE HEAD ON TOP OF LAYER 4	0.000	(0.000)		
CHANGE IN WATER STORAGE	0.438	(1.5365)	371896.59	3.165

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 5 and their dates (DDDYYYY)

	(INCHES)	(CU. FT.)	
PRECIPITATION	3.38	2867296.28340	2580005
RUNOFF	0.000	0.00000	0
DRAINAGE COLLECTED FROM LAYER 1	0.07633	64751.15153	2490003
PERCOLATION/LEAKAGE THROUGH LAYER 2	0.000983	834.04904	2490003
AVERAGE HEAD ON TOP OF LAYER 2	14.438		
MAXIMUM HEAD ON TOP OF LAYER 2	20.758		
LOCATION OF MAXIMUM HEAD IN LAYER 1 (DISTANCE FROM DRAIN)	84.2 FEET		
DRAINAGE COLLECTED FROM LAYER 3	0.00000	0.00000	0
PERCOLATION/LEAKAGE THROUGH LAYER 5	0.000000	0.00000	0
AVERAGE HEAD ON TOP OF LAYER 4	0.000		
MAXIMUM HEAD ON TOP OF LAYER 4	0.000		
LOCATION OF MAXIMUM HEAD IN LAYER 3 (DISTANCE FROM DRAIN)	0.0 FEET		
SNOW WATER	0.90	763748.4554	110002

MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.2247
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.0180

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

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FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	2.8116	0.0781
2	0.0000	0.0000
3	3.4771	0.1449
4	0.0000	0.0000
5	10.2480	0.4270
SNOW WATER	0.000	

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Attachment A-2
Tier I, Simulation 6-1
Alternate Liner, Soil Type 7

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**                                                                  **
**                                                                  **
**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE        **
**                HELP MODEL VERSION 3.07 (1 November 1997)         **
**                   DEVELOPED BY ENVIRONMENTAL LABORATORY          **
**                     USAE WATERWAYS EXPERIMENT STATION            **
**              FOR USEPA RISK REDUCTION ENGINEERING LABORATORY      **
**                                                                  **
**                                                                  **
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PRECIPITATION DATA FILE:     C:\WHI\VHELP22\data\P5078.VHP\_weather1.dat
TEMPERATURE DATA FILE:       C:\WHI\VHELP22\data\P5078.VHP\_weather2.dat
SOLAR RADIATION DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\_weather3.dat
EVAPOTRANSPIRATION DATA:     C:\WHI\VHELP22\data\P5078.VHP\_weather4.dat
SOIL AND DESIGN DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\I_389872.inp
OUTPUT DATA FILE:            C:\WHI\VHELP22\data\P5078.VHP\O_389872.prt


TIME:  10:25     DATE:  10/17/2013


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     TITLE:  Alternative Liner S-6

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     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
            WERE SPECIFIED BY THE USER.


                                LAYER  1
                                --------

                TYPE 1 - VERTICAL PERCOLATION LAYER
                    MATERIAL TEXTURE NUMBER   7
          THICKNESS                    =     60.96   CM   (24 in.)
          POROSITY                     =      0.4730 VOL/VOL
          FIELD CAPACITY               =      0.2220 VOL/VOL
          WILTING POINT                =      0.1040 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.1335 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.520000000000E-03 CM/SEC


                                LAYER  2
                                --------

                TYPE 4 - FLEXIBLE MEMBRANE LINER
                  MATERIAL TEXTURE NUMBER  35
          THICKNESS                    =      0.15   CM   (0.06 in.)
          POROSITY                     =      0.0000 VOL/VOL
          FIELD CAPACITY               =      0.0000 VOL/VOL
          WILTING POINT                =      0.0000 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.0000 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.200000000000E-12 CM/SEC
          FML PINHOLE DENSITY          =      2.47   HOLES/HECTARE  (1 hole/acre)
          FML INSTALLATION DEFECTS     =      9.88   HOLES/HECTARE  (4 hole/acre)
          FML PLACEMENT QUALITY        =  3 - GOOD
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LAYER 3

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 20

THICKNESS	=	0.50	CM (0.20 in.)
POROSITY	=	0.8500	VOL/VOL
FIELD CAPACITY	=	0.0100	VOL/VOL
WILTING POINT	=	0.0050	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0063	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	10.0000000000	CM/SEC
SLOPE	=	2.80	PERCENT
DRAINAGE LENGTH	=	91.4	METERS (300 ft.)

LAYER 4

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.15	CM (0.06 in.)
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.200000000000E-12	CM/SEC
FML PINHOLE DENSITY	=	2.47	HOLES/HECTARE (1 hole/acre)
FML INSTALLATION DEFECTS	=	9.88	HOLES/HECTARE (4 hole/acre)
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 5

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 17

THICKNESS	=	0.64	CM (0.25 in.)
POROSITY	=	0.7500	VOL/VOL
FIELD CAPACITY	=	0.7470	VOL/VOL
WILTING POINT	=	0.4000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.7500	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.300000000000E-08	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE # 7 WITH BARE GROUND CONDITIONS, A SURFACE SLOPE OF 2.8% AND A SLOPE LENGTH OF 91. METERS (300 ft.).

SCS RUNOFF CURVE NUMBER	=	88.34	
FRACTION OF AREA ALLOWING RUNOFF	=	0.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	94.5750	HECTARES (233.7 acres)
EVAPORATIVE ZONE DEPTH	=	45.7	CM (18.00 in.)
INITIAL WATER IN EVAPORATIVE ZONE	=	6.104	CM (2.40 in.)
UPPER LIMIT OF EVAPORATIVE STORAGE	=	21.626	CM (8.51 in.)
LOWER LIMIT OF EVAPORATIVE STORAGE	=	4.755	CM (1.87 in.)
INITIAL SNOW WATER	=	0.000	CM (0.00 in.)
INITIAL WATER IN LAYER MATERIALS	=	8.618	CM (3.39 in.)
TOTAL INITIAL WATER	=	8.618	CM (3.39 in.)

TOTAL SUBSURFACE INFLOW = 0.00 MM/YR (0.00 in./yr)

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
EL PASO TX

STATION LATITUDE	=	31.85 DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00
START OF GROWING SEASON (JULIAN DATE)	=	66
END OF GROWING SEASON (JULIAN DATE)	=	315
EVAPORATIVE ZONE DEPTH	=	18.0 INCHES
AVERAGE ANNUAL WIND SPEED	=	9.20 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	40.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	27.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	46.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	48.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.60	0.52	0.18	0.30	0.73	0.44
2.39	3.48	2.38	0.58	0.66	0.23

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
46.40	50.30	58.30	65.60	75.00	83.20
83.00	80.10	74.60	65.80	54.30	45.80

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR DNCS NM
AND STATION LATITUDE = 32.78 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

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DAILY OUTPUT FOR YEAR 1

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.010	0.1329	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.010	0.1323	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.010	0.1318	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.010	0.1312	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.010	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.010	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.010	0.1295	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.010	0.1289	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.010	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.010	0.1278	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.010	0.1273	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.010	0.1267	0.0000	0.000	0.000	0.0000	0.000	0.000
13			0.00	0.000	0.010	0.1262	0.0000	0.000	0.000	0.0000	0.000	0.000
14			0.00	0.000	0.010	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.010	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
16			0.00	0.000	0.010	0.1245	0.0000	0.000	0.000	0.0000	0.000	0.000
17			0.00	0.000	0.010	0.1240	0.0000	0.000	0.000	0.0000	0.000	0.000
18			0.00	0.000	0.010	0.1235	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.00	0.000	0.010	0.1229	0.0000	0.000	0.000	0.0000	0.000	0.000
20			0.00	0.000	0.010	0.1224	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.00	0.000	0.010	0.1219	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.009	0.1213	0.0000	0.000	0.000	0.0000	0.000	0.000
23			0.00	0.000	0.009	0.1208	0.0000	0.000	0.000	0.0000	0.000	0.000
24			0.00	0.000	0.009	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
25			0.00	0.000	0.009	0.1198	0.0000	0.000	0.000	0.0000	0.000	0.000
26			0.00	0.000	0.009	0.1193	0.0000	0.000	0.000	0.0000	0.000	0.000
27			0.00	0.000	0.009	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
28			0.00	0.000	0.009	0.1182	0.0000	0.000	0.000	0.0000	0.000	0.000
29			0.00	0.000	0.009	0.1177	0.0000	0.000	0.000	0.0000	0.000	0.000
30			0.00	0.000	0.009	0.1172	0.0000	0.000	0.000	0.0000	0.000	0.000
31			0.00	0.000	0.009	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
32			0.17	0.000	0.010	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
33			0.00	0.000	0.009	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
34			0.00	0.000	0.009	0.1246	0.0000	0.000	0.000	0.0000	0.000	0.000
35			0.00	0.000	0.009	0.1241	0.0000	0.000	0.000	0.0000	0.000	0.000
36			0.00	0.000	0.009	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
37			0.00	0.000	0.009	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
38			0.00	0.000	0.009	0.1226	0.0000	0.000	0.000	0.0000	0.000	0.000
39			0.00	0.000	0.009	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
40			0.00	0.000	0.009	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
41			0.00	0.000	0.009	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
42			0.00	0.000	0.009	0.1207	0.0000	0.000	0.000	0.0000	0.000	0.000
43			0.00	0.000	0.009	0.1202	0.0000	0.000	0.000	0.0000	0.000	0.000
44			0.00	0.000	0.009	0.1197	0.0000	0.000	0.000	0.0000	0.000	0.000
45			0.00	0.000	0.009	0.1192	0.0000	0.000	0.000	0.0000	0.000	0.000
46			0.00	0.000	0.009	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
47			0.00	0.000	0.009	0.1183	0.0000	0.000	0.000	0.0000	0.000	0.000
48			0.00	0.000	0.009	0.1178	0.0000	0.000	0.000	0.0000	0.000	0.000
49			0.00	0.000	0.008	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
50			0.00	0.000	0.008	0.1169	0.0000	0.000	0.000	0.0000	0.000	0.000
51			0.00	0.000	0.008	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
52			0.00	0.000	0.008	0.1159	0.0000	0.000	0.000	0.0000	0.000	0.000
53			0.00	0.000	0.008	0.1155	0.0000	0.000	0.000	0.0000	0.000	0.000
54			0.00	0.000	0.008	0.1150	0.0000	0.000	0.000	0.0000	0.000	0.000
55			0.00	0.000	0.008	0.1145	0.0000	0.000	0.000	0.0000	0.000	0.000
56			0.00	0.000	0.008	0.1141	0.0000	0.000	0.000	0.0000	0.000	0.000
57			0.00	0.000	0.008	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
58			0.00	0.000	0.008	0.1132	0.0000	0.000	0.000	0.0000	0.000	0.000
59			0.00	0.000	0.008	0.1127	0.0000	0.000	0.000	0.0000	0.000	0.000
60			0.00	0.000	0.008	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
61			0.00	0.000	0.008	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
62			0.00	0.000	0.008	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000

63	0.00	0.000	0.008	0.1109	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.008	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.008	0.1100	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.008	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.008	0.1091	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.008	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.008	0.1083	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.008	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.008	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.008	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.008	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.02	0.000	0.009	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.008	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.008	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.008	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.008	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.008	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.001	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.001	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.001	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.001	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.04	0.000	0.002	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.001	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.002	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.001	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.001	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.001	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.001	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.001	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.001	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.001	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.001	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.29	0.000	0.004	0.1213	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.003	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.26	0.000	0.004	0.1354	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.003	0.1352	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.005	0.1349	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.005	0.1347	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.005	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.005	0.1342	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.005	0.1339	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.005	0.1337	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.005	0.1334	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.005	0.1331	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.005	0.1329	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.005	0.1326	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.005	0.1324	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.005	0.1321	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.005	0.1319	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.005	0.1316	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.005	0.1314	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.005	0.1311	0.0000	0.000	0.000	0.0000	0.000	0.000

134	0.00	0.000	0.004	0.1309	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.004	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.004	0.1304	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.004	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.004	0.1299	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.004	0.1296	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.004	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.004	0.1291	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.004	0.1289	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.004	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.004	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.004	0.1282	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.004	0.1279	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.004	0.1277	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.004	0.1274	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.004	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.004	0.1270	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.30	0.000	0.006	0.1433	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.005	0.1430	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.005	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.01	0.000	0.006	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.004	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.01	0.000	0.006	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.004	0.1426	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.005	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.004	0.1421	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.004	0.1419	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.004	0.1417	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.004	0.1414	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.005	0.1412	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.005	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.005	0.1406	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.005	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.005	0.1400	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.005	0.1398	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.005	0.1395	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.005	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.005	0.1389	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.005	0.1386	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.005	0.1383	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.005	0.1381	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.005	0.1378	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.005	0.1375	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.005	0.1372	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.005	0.1369	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.005	0.1367	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.005	0.1364	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.005	0.1361	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.005	0.1358	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.005	0.1355	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.21	0.000	0.007	0.1468	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.005	0.1465	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.006	0.1462	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.005	0.1459	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.005	0.1456	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.005	0.1453	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.005	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.006	0.1447	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.01	0.000	0.008	0.1448	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.005	0.1445	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.005	0.1442	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.01	0.000	0.008	0.1443	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.005	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.005	0.1438	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.005	0.1435	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.005	0.1432	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.31	0.000	0.008	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.11	0.000	0.008	0.1657	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.005	0.1654	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.005	0.1651	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.18	0.000	0.008	0.1747	0.0000	0.000	0.000	0.0000	0.000	0.000

205	0.00	0.000	0.005	0.1744	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.09	0.000	0.008	0.1790	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.005	0.1787	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.25	0.000	0.008	0.1921	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.259	0.1777	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.005	0.1774	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.006	0.1771	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.005	0.1768	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.005	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.005	0.1763	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.005	0.1760	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.29	0.000	0.008	0.1916	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.272	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.006	0.1762	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.006	0.1759	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.006	0.1756	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.006	0.1753	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.006	0.1749	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.006	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.006	0.1743	0.0000	0.000	0.000	0.0000	0.000	0.000
225	1.03	0.000	0.009	0.2310	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.11	0.000	0.196	0.2262	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.303	0.2094	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.281	0.1938	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.299	0.1772	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.194	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.080	0.1619	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.062	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.052	0.1556	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.07	0.000	0.049	0.1567	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.041	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.37	0.000	0.042	0.1726	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.24	0.000	0.039	0.1838	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.033	0.1820	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.032	0.1802	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.82	0.000	0.034	0.2239	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.16	0.000	0.266	0.2180	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.05	0.000	0.275	0.2055	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.71	0.000	0.250	0.2310	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.257	0.2168	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.280	0.2013	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.277	0.1859	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.201	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.083	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.064	0.1665	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.054	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.047	0.1608	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.043	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.039	0.1563	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.037	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.034	0.1523	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.83	0.000	0.037	0.1964	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.31	0.000	0.170	0.2042	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.246	0.1905	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.232	0.1776	0.0000	0.000	0.000	0.0000	0.000	0.000
260	1.00	0.000	0.172	0.2236	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.26	0.000	0.220	0.2258	0.0000	0.000	0.000	0.0000	0.000	0.000
262	1.48	0.000	0.224	0.2956	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.16	0.000	0.200	0.2928	0.0000	0.000	0.000	0.0000	0.000	0.000
264	1.43	0.000	0.237	0.3222	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.251	0.2927	1.0727	0.000	.1366E-02	0.0001	.4660E-03	.1739E-08
266	0.00	0.000	0.242	0.2691	1.9713	0.000	.2226E-02	0.0004	.2063E-02	.6971E-08
267	0.00	0.000	0.238	0.2492	2.6156	0.000	.2796E-02	0.0005	.2698E-02	.7017E-08
268	0.16	0.000	0.239	0.2407	3.0113	0.000	.3136E-02	0.0006	.3077E-02	.7044E-08
269	0.00	0.000	0.232	0.2240	3.2818	0.000	.3365E-02	0.0006	.3326E-02	.7062E-08

270	0.76	0.000	0.243	0.2499	3.5240	0.000	.3568E-02	0.0007	.3535E-02
.7077E-08									
271	0.00	0.000	0.241	0.2343	3.6786	0.000	.3697E-02	0.0007	.3675E-02
.7086E-08									
272	0.00	0.000	0.253	0.2183	3.8032	0.000	.3800E-02	0.0007	.3783E-02
.7094E-08									
273	0.00	0.000	0.225	0.2039	3.9365	0.000	.3911E-02	0.0007	.3893E-02
.7101E-08									
274	0.00	0.000	0.188	0.1918	4.0494	0.000	.4004E-02	0.0008	.3989E-02
.7108E-08									
275	0.00	0.000	0.083	0.1858	4.1452	0.000	.4082E-02	0.0008	.4070E-02
.7114E-08									
276	0.00	0.000	0.064	0.1809	4.2265	0.000	.4149E-02	0.0008	.4138E-02
.7118E-08									
277	0.00	0.000	0.054	0.1769	4.2973	0.000	.4207E-02	0.0008	.4198E-02
.7122E-08									
278	0.00	0.000	0.047	0.1736	4.3440	0.000	.4246E-02	0.0008	.4239E-02
.7125E-08									
279	0.00	0.000	0.043	0.1706	4.3763	0.000	.4272E-02	0.0008	.4267E-02
.7127E-08									
280	0.00	0.000	0.039	0.1679	4.3992	0.000	.4291E-02	0.0008	.4287E-02
.7128E-08									
281	0.00	0.000	0.037	0.1654	4.4156	0.000	.4304E-02	0.0008	.4302E-02
.7129E-08									
282	0.00	0.000	0.034	0.1632	4.4273	0.000	.4314E-02	0.0008	.4312E-02
.7130E-08									
283	0.00	0.000	0.033	0.1612	4.4339	0.000	.4319E-02	0.0008	.4318E-02
.7131E-08									
284	0.00	0.000	0.031	0.1595	4.4212	0.000	.4309E-02	0.0008	.4310E-02
.7130E-08									
285	0.00	0.000	0.030	0.1578	4.4041	0.000	.4295E-02	0.0008	.4297E-02
.7129E-08									
286	0.00	0.000	0.028	0.1562	4.3870	0.000	.4281E-02	0.0008	.4283E-02
.7128E-08									
287	0.00	0.000	0.027	0.1547	4.3700	0.000	.4267E-02	0.0008	.4269E-02
.7127E-08									
288	0.00	0.000	0.026	0.1533	4.3530	0.000	.4253E-02	0.0008	.4255E-02
.7126E-08									
289	0.00	0.000	0.025	0.1518	4.3361	0.000	.4239E-02	0.0008	.4241E-02
.7125E-08									
290	0.00	0.000	0.025	0.1505	4.3192	0.000	.4225E-02	0.0008	.4227E-02
.7124E-08									
291	0.00	0.000	0.024	0.1491	4.3024	0.000	.4211E-02	0.0008	.4214E-02
.7123E-08									
292	0.00	0.000	0.023	0.1478	4.2856	0.000	.4198E-02	0.0008	.4200E-02
.7122E-08									
293	0.00	0.000	0.023	0.1466	4.2689	0.000	.4184E-02	0.0008	.4186E-02
.7122E-08									
294	0.00	0.000	0.022	0.1454	4.2523	0.000	.4170E-02	0.0008	.4173E-02
.7121E-08									
295	0.00	0.000	0.022	0.1442	4.2357	0.000	.4157E-02	0.0008	.4159E-02
.7120E-08									
296	0.00	0.000	0.021	0.1430	4.2191	0.000	.4143E-02	0.0008	.4145E-02
.7119E-08									
297	0.00	0.000	0.021	0.1418	4.2026	0.000	.4130E-02	0.0008	.4132E-02
.7118E-08									
298	0.00	0.000	0.020	0.1407	4.1862	0.000	.4116E-02	0.0008	.4118E-02
.7117E-08									
299	0.00	0.000	0.020	0.1396	4.1698	0.000	.4103E-02	0.0008	.4105E-02
.7116E-08									
300	0.00	0.000	0.019	0.1385	4.1535	0.000	.4089E-02	0.0008	.4091E-02
.7115E-08									
301	0.00	0.000	0.019	0.1375	4.1372	0.000	.4076E-02	0.0008	.4078E-02
.7114E-08									
302	0.00	0.000	0.019	0.1364	4.1210	0.000	.4063E-02	0.0008	.4065E-02
.7113E-08									
303	0.00	0.000	0.018	0.1354	4.1048	0.000	.4049E-02	0.0008	.4051E-02
.7112E-08									
304	0.00	0.000	0.018	0.1344	4.0887	0.000	.4036E-02	0.0008	.4038E-02
.7111E-08									

305	0.00	0.000	0.018	0.1334	4.0727	0.000	.4023E-02	0.0008	.4025E-02
.7110E-08									
306	0.00	0.000	0.018	0.1324	4.0567	0.000	.4010E-02	0.0008	.4012E-02
.7110E-08									
307	0.00	0.000	0.017	0.1314	4.0407	0.000	.3996E-02	0.0008	.3999E-02
.7109E-08									
308	0.00	0.000	0.017	0.1305	4.0248	0.000	.3983E-02	0.0008	.3985E-02
.7108E-08									
309	0.00	0.000	0.017	0.1296	4.0090	0.000	.3970E-02	0.0008	.3972E-02
.7107E-08									
310	0.00	0.000	0.017	0.1286	3.9932	0.000	.3957E-02	0.0007	.3959E-02
.7106E-08									
311	0.00	0.000	0.016	0.1277	3.9774	0.000	.3944E-02	0.0007	.3946E-02
.7105E-08									
312	0.00	0.000	0.016	0.1268	3.9617	0.000	.3931E-02	0.0007	.3933E-02
.7104E-08									
313	0.03	0.000	0.021	0.1273	3.9461	0.000	.3918E-02	0.0007	.3920E-02
.7103E-08									
314	0.00	0.000	0.016	0.1265	3.9305	0.000	.3906E-02	0.0007	.3908E-02
.7102E-08									
315	0.00	0.000	0.016	0.1256	3.9149	0.000	.3893E-02	0.0007	.3895E-02
.7102E-08									
316	0.00	0.000	0.015	0.1247	3.8995	0.000	.3880E-02	0.0007	.3882E-02
.7101E-08									
317	0.00	0.000	0.015	0.1239	3.8840	0.000	.3867E-02	0.0007	.3869E-02
.7100E-08									
318	0.00	0.000	0.012	0.1232	3.8694	0.000	.3855E-02	0.0007	.3857E-02
.7099E-08									
319	0.00	0.000	0.015	0.1224	3.8564	0.000	.3844E-02	0.0007	.3846E-02
.7098E-08									
320	0.00	0.000	0.015	0.1215	3.8411	0.000	.3832E-02	0.0007	.3834E-02
.7097E-08									
321	0.00	0.000	0.015	0.1204	3.8361	0.000	.3828E-02	0.0007	.3828E-02
.7097E-08									
322	0.00	0.000	0.014	0.1196	3.8379	0.000	.3829E-02	0.0007	.3829E-02
.7097E-08									
323	0.96	0.000	0.017	0.1717	3.8295	0.000	.3822E-02	0.0007	.3823E-02
.7097E-08									
324	0.00	0.000	0.014	0.1709	3.8257	0.000	.3819E-02	0.0007	.3819E-02
.7096E-08									
325	0.00	0.000	0.014	0.1701	3.8105	0.000	.3806E-02	0.0007	.3808E-02
.7096E-08									
326	0.00	0.000	0.014	0.1694	3.7954	0.000	.3794E-02	0.0007	.3796E-02
.7095E-08									
327	0.00	0.000	0.014	0.1686	3.7803	0.000	.3781E-02	0.0007	.3783E-02
.7094E-08									
328	0.00	0.000	0.014	0.1679	3.7652	0.000	.3769E-02	0.0007	.3771E-02
.7093E-08									
329	0.00	0.000	0.013	0.1671	3.7502	0.000	.3756E-02	0.0007	.3758E-02
.7092E-08									
330	0.00	0.000	0.013	0.1664	3.7353	0.000	.3744E-02	0.0007	.3746E-02
.7091E-08									
331	0.00	0.000	0.013	0.1656	3.7204	0.000	.3732E-02	0.0007	.3734E-02
.7090E-08									
332	0.00	0.000	0.013	0.1649	3.7055	0.000	.3719E-02	0.0007	.3721E-02
.7090E-08									
333	0.00	0.000	0.013	0.1642	3.6907	0.000	.3707E-02	0.0007	.3709E-02
.7089E-08									
334	0.00	0.000	0.013	0.1635	3.6760	0.000	.3695E-02	0.0007	.3697E-02
.7088E-08									
335	0.00	0.000	0.013	0.1627	3.6613	0.000	.3682E-02	0.0007	.3684E-02
.7087E-08									
336	0.00	0.000	0.013	0.1620	3.6466	0.000	.3670E-02	0.0007	.3672E-02
.7086E-08									
337	0.00	0.000	0.013	0.1613	3.6320	0.000	.3658E-02	0.0007	.3660E-02
.7085E-08									
338	0.00	0.000	0.012	0.1606	3.6175	0.000	.3646E-02	0.0007	.3648E-02
.7084E-08									
339	0.01	0.000	0.014	0.1604	3.6030	0.000	.3634E-02	0.0007	.3636E-02
.7084E-08									

340	0.00	0.000	0.012	0.1597	3.5885	0.000	.3622E-02	0.0007	.3624E-02
.7083E-08									
341	0.00	0.000	0.012	0.1590	3.5741	0.000	.3610E-02	0.0007	.3612E-02
.7082E-08									
342	0.06	0.000	0.014	0.1616	3.5597	0.000	.3598E-02	0.0007	.3600E-02
.7081E-08									
343	0.01	0.000	0.014	0.1614	3.5454	0.000	.3586E-02	0.0007	.3588E-02
.7080E-08									
344	0.04	0.000	0.014	0.1628	3.5311	0.000	.3574E-02	0.0007	.3576E-02
.7079E-08									
345	0.00	0.000	0.012	0.1622	3.5169	0.000	.3562E-02	0.0007	.3564E-02
.7079E-08									
346	0.00	0.000	0.012	0.1615	3.5028	0.000	.3550E-02	0.0007	.3552E-02
.7078E-08									
347 *	0.00	0.000	0.012	0.1608	3.4886	0.000	.3538E-02	0.0007	.3540E-02
.7077E-08									
348 *	0.07	0.000	0.056	0.1616	3.4745	0.000	.3527E-02	0.0007	.3529E-02
.7076E-08									
349	0.00	0.000	0.012	0.1610	3.4605	0.000	.3515E-02	0.0007	.3517E-02
.7075E-08									
350	0.00	0.000	0.012	0.1603	3.4465	0.000	.3503E-02	0.0007	.3505E-02
.7074E-08									
351	0.00	0.000	0.011	0.1597	3.4326	0.000	.3492E-02	0.0007	.3493E-02
.7074E-08									
352	0.00	0.000	0.011	0.1591	3.4187	0.000	.3480E-02	0.0007	.3482E-02
.7073E-08									
353	0.05	0.000	0.013	0.1611	3.4048	0.000	.3468E-02	0.0007	.3470E-02
.7072E-08									
354 *	0.02	0.000	0.031	0.1605	3.3910	0.000	.3457E-02	0.0007	.3459E-02
.7071E-08									
355 *	0.00	0.000	0.011	0.1599	3.3773	0.000	.3445E-02	0.0007	.3447E-02
.7070E-08									
356	0.12	0.000	0.013	0.1658	3.3636	0.000	.3434E-02	0.0006	.3435E-02
.7070E-08									
357	0.07	0.000	0.013	0.1690	3.3499	0.000	.3422E-02	0.0006	.3424E-02
.7069E-08									
358	0.02	0.000	0.013	0.1694	3.3363	0.000	.3411E-02	0.0006	.3413E-02
.7068E-08									
359	0.04	0.000	0.013	0.1709	3.3227	0.000	.3399E-02	0.0006	.3401E-02
.7067E-08									
360	0.04	0.000	0.013	0.1724	3.3092	0.000	.3388E-02	0.0006	.3390E-02
.7066E-08									
361	0.06	0.000	0.013	0.1751	3.2957	0.000	.3377E-02	0.0006	.3378E-02
.7066E-08									
362	0.01	0.000	0.012	0.1749	3.2823	0.000	.3365E-02	0.0006	.3367E-02
.7065E-08									
363	0.00	0.000	0.011	0.1743	3.2689	0.000	.3354E-02	0.0006	.3356E-02
.7064E-08									
364	0.00	0.000	0.011	0.1737	3.2556	0.000	.3343E-02	0.0006	.3345E-02
.7063E-08									
365	0.00	0.000	0.011	0.1732	3.2422	0.000	.3332E-02	0.0006	.3333E-02
.7062E-08									

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MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	0.17	0.02	0.59	0.30	0.02
	1.17	3.85	6.39	0.00	0.99	0.62
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000

	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.302	0.242	0.171	0.042	0.141	0.149
	0.437	2.874	5.318	1.105	0.454	0.445
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 2	0.0000	0.0000	0.0279	0.1298	0.1156	0.1086
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 3	0.0000	0.0000	0.0265	0.1298	0.1157	0.1087
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 2	0.000	0.000	0.897	4.272	3.868	3.448
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 2	0.000	0.000	1.480	0.114	0.115	0.127
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.001	0.001	0.001
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.12	11978172.640	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	11.682	9909583.928	82.73
PERC./LEAKAGE THROUGH LAYER 2	0.381896	323967.519	2.70
AVG. HEAD ON TOP OF LAYER 2	1.0404		
DRAINAGE COLLECTED FROM LAYER 3	0.3806	322899.947	2.70
PERC./LEAKAGE THROUGH LAYER 5	0.000001	0.603	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0002		
CHANGE IN WATER STORAGE	2.058	1745688.342	14.57
SOIL WATER AT START OF YEAR	4.194	3557556.813	
SOIL WATER AT END OF YEAR	6.252	5303245.154	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.180	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

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DAILY OUTPUT FOR YEAR 2

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.010	0.1726	3.2290	0.000	.3320E-02	0.0006	.3322E-02	.7062E-08
2			0.00	0.000	0.010	0.1720	3.2158	0.000	.3309E-02	0.0006	.3311E-02	.7061E-08
3			0.00	0.000	0.010	0.1714	3.2026	0.000	.3298E-02	0.0006	.3300E-02	.7060E-08
4			0.00	0.000	0.010	0.1708	3.1895	0.000	.3287E-02	0.0006	.3289E-02	.7059E-08
5			0.00	0.000	0.010	0.1703	3.1764	0.000	.3276E-02	0.0006	.3278E-02	.7059E-08
6			0.00	0.000	0.010	0.1697	3.1634	0.000	.3265E-02	0.0006	.3267E-02	.7058E-08
7			0.00	0.000	0.010	0.1691	3.1504	0.000	.3254E-02	0.0006	.3256E-02	.7057E-08
8			0.00	0.000	0.010	0.1686	3.1374	0.000	.3243E-02	0.0006	.3245E-02	.7056E-08
9			0.00	0.000	0.010	0.1680	3.1245	0.000	.3232E-02	0.0006	.3234E-02	.7056E-08
10			0.00	0.000	0.010	0.1675	3.1117	0.000	.3221E-02	0.0006	.3223E-02	.7055E-08
11	*		0.92	0.000	0.056	0.1686	3.0989	0.000	.3210E-02	0.0006	.3212E-02	.7054E-08
12			0.00	0.000	0.046	0.1809	3.0861	0.000	.3200E-02	0.0006	.3201E-02	.7053E-08
13	*		0.00	0.000	0.058	0.1820	3.0733	0.000	.3189E-02	0.0006	.3190E-02	.7052E-08
14	*		0.00	0.000	0.059	0.1831	3.0607	0.000	.3178E-02	0.0006	.3180E-02	.7052E-08
15			0.00	0.000	0.066	0.1842	3.0480	0.000	.3167E-02	0.0006	.3169E-02	.7051E-08
16			0.00	0.000	0.061	0.1981	3.0354	0.000	.3157E-02	0.0006	.3158E-02	.7050E-08
17			0.00	0.000	0.122	0.1925	3.0229	0.000	.3146E-02	0.0006	.3148E-02	.7049E-08
18			0.00	0.000	0.010	0.1919	3.0103	0.000	.3135E-02	0.0006	.3137E-02	.7049E-08
19			0.00	0.000	0.010	0.1914	2.9979	0.000	.3125E-02	0.0006	.3126E-02	.7048E-08
20			0.00	0.000	0.010	0.1909	2.9854	0.000	.3114E-02	0.0006	.3116E-02	.7047E-08
21			0.00	0.000	0.010	0.1903	2.9730	0.000	.3103E-02	0.0006	.3105E-02	.7046E-08

22	0.00	0.000	0.010	0.1898	2.9607	0.000	.3093E-02	0.0006	.3095E-02 .7046E-08
23	0.00	0.000	0.010	0.1892	2.9484	0.000	.3082E-02	0.0006	.3084E-02 .7045E-08
24	0.00	0.000	0.010	0.1887	2.9361	0.000	.3072E-02	0.0006	.3074E-02 .7044E-08
25	0.00	0.000	0.010	0.1882	2.9239	0.000	.3062E-02	0.0006	.3063E-02 .7043E-08
26	0.00	0.000	0.010	0.1876	2.9117	0.000	.3051E-02	0.0006	.3053E-02 .7043E-08
27	0.00	0.000	0.010	0.1871	2.8996	0.000	.3041E-02	0.0006	.3042E-02 .7042E-08
28	0.00	0.000	0.010	0.1866	2.8875	0.000	.3030E-02	0.0006	.3032E-02 .7041E-08
29	0.00	0.000	0.009	0.1860	2.8754	0.000	.3020E-02	0.0006	.3022E-02 .7041E-08
30	0.00	0.000	0.009	0.1855	2.8634	0.000	.3010E-02	0.0006	.3011E-02 .7040E-08
31	0.00	0.000	0.009	0.1850	2.8514	0.000	.3000E-02	0.0006	.3001E-02 .7039E-08
32	0.00	0.000	0.009	0.1845	2.8395	0.000	.2989E-02	0.0006	.2991E-02 .7038E-08
33	0.00	0.000	0.009	0.1840	2.8276	0.000	.2979E-02	0.0006	.2981E-02 .7038E-08
34	0.00	0.000	0.009	0.1834	2.8157	0.000	.2969E-02	0.0006	.2971E-02 .7037E-08
35	0.00	0.000	0.009	0.1829	2.8039	0.000	.2959E-02	0.0006	.2960E-02 .7036E-08
36	0.00	0.000	0.009	0.1824	2.7922	0.000	.2949E-02	0.0006	.2950E-02 .7036E-08
37	0.00	0.000	0.009	0.1819	2.7804	0.000	.2939E-02	0.0006	.2940E-02 .7035E-08
38	0.00	0.000	0.009	0.1814	2.7687	0.000	.2929E-02	0.0006	.2930E-02 .7034E-08
39	0.00	0.000	0.009	0.1809	2.7571	0.000	.2919E-02	0.0006	.2920E-02 .7033E-08
40	0.00	0.000	0.009	0.1804	2.7455	0.000	.2909E-02	0.0006	.2910E-02 .7033E-08
41	0.00	0.000	0.009	0.1799	2.7339	0.000	.2899E-02	0.0005	.2900E-02 .7032E-08
42	0.00	0.000	0.009	0.1794	2.7224	0.000	.2889E-02	0.0005	.2890E-02 .7031E-08
43	0.00	0.000	0.009	0.1789	2.7109	0.000	.2879E-02	0.0005	.2880E-02 .7031E-08
44	0.00	0.000	0.009	0.1784	2.6994	0.000	.2869E-02	0.0005	.2870E-02 .7030E-08
45	0.00	0.000	0.009	0.1779	2.6880	0.000	.2859E-02	0.0005	.2861E-02 .7029E-08
46	0.00	0.000	0.009	0.1774	2.6766	0.000	.2849E-02	0.0005	.2851E-02 .7028E-08
47	0.00	0.000	0.009	0.1769	2.6653	0.000	.2839E-02	0.0005	.2841E-02 .7028E-08
48	0.13	0.000	0.010	0.1836	2.6540	0.000	.2830E-02	0.0005	.2831E-02 .7027E-08
49	0.01	0.000	0.010	0.1836	2.6427	0.000	.2820E-02	0.0005	.2821E-02 .7026E-08
50	0.00	0.000	0.009	0.1831	2.6315	0.000	.2810E-02	0.0005	.2812E-02 .7026E-08
51	0.00	0.000	0.009	0.1827	2.6203	0.000	.2801E-02	0.0005	.2802E-02 .7025E-08
52	0.00	0.000	0.009	0.1822	2.6092	0.000	.2791E-02	0.0005	.2792E-02 .7024E-08
53	0.00	0.000	0.009	0.1817	2.5981	0.000	.2781E-02	0.0005	.2783E-02 .7024E-08
54	0.00	0.000	0.009	0.1812	2.5870	0.000	.2772E-02	0.0005	.2773E-02 .7023E-08
55	0.19	0.000	0.010	0.1913	2.5760	0.000	.2762E-02	0.0005	.2764E-02 .7022E-08
56	0.12	0.000	0.010	0.1974	2.5650	0.000	.2753E-02	0.0005	.2754E-02 .7022E-08

57	0.00	0.000	0.162	0.1884	2.5540	0.000	.2743E-02	0.0005	.2745E-02
.7021E-08									
58	0.00	0.000	0.008	0.1879	2.5431	0.000	.2734E-02	0.0005	.2735E-02
.7020E-08									
59	0.00	0.000	0.008	0.1875	2.5322	0.000	.2724E-02	0.0005	.2726E-02
.7020E-08									
60	0.00	0.000	0.008	0.1870	2.5214	0.000	.2715E-02	0.0005	.2716E-02
.7019E-08									
61	0.00	0.000	0.008	0.1865	2.5106	0.000	.2705E-02	0.0005	.2707E-02
.7018E-08									
62	0.00	0.000	0.008	0.1861	2.4998	0.000	.2696E-02	0.0005	.2697E-02
.7017E-08									
63	0.00	0.000	0.008	0.1856	2.4891	0.000	.2686E-02	0.0005	.2688E-02
.7017E-08									
64	0.12	0.000	0.009	0.1918	2.4784	0.000	.2677E-02	0.0005	.2679E-02
.7016E-08									
65	0.09	0.000	0.009	0.1963	2.4678	0.000	.2668E-02	0.0005	.2669E-02
.7015E-08									
66	0.00	0.000	0.230	0.1835	2.4572	0.000	.2659E-02	0.0005	.2660E-02
.7015E-08									
67	0.07	0.000	0.009	0.1868	2.4466	0.000	.2649E-02	0.0005	.2651E-02
.7014E-08									
68	0.00	0.000	0.008	0.1864	2.4360	0.000	.2640E-02	0.0005	.2642E-02
.7013E-08									
69	0.00	0.000	0.008	0.1859	2.4255	0.000	.2631E-02	0.0005	.2632E-02
.7013E-08									
70	0.00	0.000	0.008	0.1855	2.4151	0.000	.2622E-02	0.0005	.2623E-02
.7012E-08									
71	0.00	0.000	0.008	0.1850	2.4046	0.000	.2613E-02	0.0005	.2614E-02
.7012E-08									
72	0.00	0.000	0.008	0.1846	2.3943	0.000	.2603E-02	0.0005	.2605E-02
.7011E-08									
73	0.00	0.000	0.008	0.1841	2.3839	0.000	.2594E-02	0.0005	.2596E-02
.7010E-08									
74	0.00	0.000	0.008	0.1837	2.3736	0.000	.2585E-02	0.0005	.2587E-02
.7010E-08									
75	0.00	0.000	0.008	0.1832	2.3633	0.000	.2576E-02	0.0005	.2578E-02
.7009E-08									
76	0.02	0.000	0.009	0.1839	2.3530	0.000	.2567E-02	0.0005	.2569E-02
.7008E-08									
77	0.00	0.000	0.008	0.1834	2.3428	0.000	.2558E-02	0.0005	.2560E-02
.7008E-08									
78	0.00	0.000	0.008	0.1830	2.3328	0.000	.2550E-02	0.0005	.2551E-02
.7007E-08									
79	0.00	0.000	0.008	0.1825	2.3228	0.000	.2541E-02	0.0005	.2542E-02
.7006E-08									
80	0.00	0.000	0.008	0.1821	2.3126	0.000	.2532E-02	0.0005	.2533E-02
.7006E-08									
81	0.00	0.000	0.008	0.1816	2.3026	0.000	.2523E-02	0.0005	.2524E-02
.7005E-08									
82	0.00	0.000	0.008	0.1812	2.2925	0.000	.2514E-02	0.0005	.2515E-02
.7004E-08									
83	0.00	0.000	0.008	0.1808	2.2825	0.000	.2505E-02	0.0005	.2507E-02
.7004E-08									
84	0.00	0.000	0.008	0.1803	2.2726	0.000	.2496E-02	0.0005	.2498E-02
.7003E-08									
85	0.00	0.000	0.008	0.1799	2.2626	0.000	.2488E-02	0.0005	.2489E-02
.7003E-08									
86	0.00	0.000	0.008	0.1795	2.2527	0.000	.2479E-02	0.0005	.2480E-02
.7002E-08									
87	0.00	0.000	0.008	0.1791	2.2429	0.000	.2470E-02	0.0005	.2471E-02
.7001E-08									
88	0.00	0.000	0.008	0.1786	2.2330	0.000	.2461E-02	0.0005	.2463E-02
.7001E-08									
89	0.00	0.000	0.008	0.1782	2.2232	0.000	.2453E-02	0.0005	.2454E-02
.7000E-08									
90	0.00	0.000	0.008	0.1778	2.2135	0.000	.2444E-02	0.0005	.2445E-02
.6999E-08									
91	0.00	0.000	0.008	0.1773	2.2038	0.000	.2435E-02	0.0005	.2437E-02
.6999E-08									

92	0.00	0.000	0.008	0.1769	2.1941	0.000	.2427E-02	0.0005	.2428E-02
.6998E-08									
93	0.00	0.000	0.008	0.1765	2.1844	0.000	.2418E-02	0.0005	.2420E-02
.6998E-08									
94	0.00	0.000	0.008	0.1761	2.1748	0.000	.2410E-02	0.0005	.2411E-02
.6997E-08									
95	0.00	0.000	0.008	0.1757	2.1652	0.000	.2401E-02	0.0005	.2402E-02
.6996E-08									
96	0.00	0.000	0.008	0.1752	2.1557	0.000	.2393E-02	0.0005	.2394E-02
.6996E-08									
97	0.00	0.000	0.008	0.1748	2.1461	0.000	.2384E-02	0.0005	.2385E-02
.6995E-08									
98	0.00	0.000	0.007	0.1744	2.1367	0.000	.2376E-02	0.0004	.2377E-02
.6994E-08									
99	0.00	0.000	0.007	0.1740	2.1272	0.000	.2367E-02	0.0004	.2369E-02
.6994E-08									
100	0.00	0.000	0.007	0.1736	2.1178	0.000	.2359E-02	0.0004	.2360E-02
.6993E-08									
101	0.00	0.000	0.007	0.1732	2.1084	0.000	.2350E-02	0.0004	.2352E-02
.6993E-08									
102	0.00	0.000	0.007	0.1728	2.0990	0.000	.2342E-02	0.0004	.2343E-02
.6992E-08									
103	0.00	0.000	0.007	0.1723	2.0897	0.000	.2334E-02	0.0004	.2335E-02
.6991E-08									
104	0.00	0.000	0.007	0.1719	2.0804	0.000	.2325E-02	0.0004	.2327E-02
.6991E-08									
105	0.00	0.000	0.007	0.1715	2.0712	0.000	.2317E-02	0.0004	.2318E-02
.6990E-08									
106	0.00	0.000	0.007	0.1711	2.0620	0.000	.2309E-02	0.0004	.2310E-02
.6990E-08									
107	0.00	0.000	0.007	0.1707	2.0528	0.000	.2301E-02	0.0004	.2302E-02
.6989E-08									
108	0.00	0.000	0.007	0.1703	2.0436	0.000	.2292E-02	0.0004	.2294E-02
.6988E-08									
109	0.00	0.000	0.007	0.1699	2.0345	0.000	.2284E-02	0.0004	.2285E-02
.6988E-08									
110	0.00	0.000	0.007	0.1695	2.0254	0.000	.2276E-02	0.0004	.2277E-02
.6987E-08									
111	0.00	0.000	0.007	0.1691	2.0164	0.000	.2268E-02	0.0004	.2269E-02
.6987E-08									
112	0.00	0.000	0.007	0.1687	2.0073	0.000	.2260E-02	0.0004	.2261E-02
.6986E-08									
113	0.00	0.000	0.007	0.1683	1.9984	0.000	.2252E-02	0.0004	.2253E-02
.6985E-08									
114	0.00	0.000	0.007	0.1679	1.9894	0.000	.2244E-02	0.0004	.2245E-02
.6985E-08									
115	0.00	0.000	0.007	0.1675	1.9805	0.000	.2236E-02	0.0004	.2237E-02
.6984E-08									
116	0.00	0.000	0.007	0.1671	1.9716	0.000	.2228E-02	0.0004	.2229E-02
.6984E-08									
117	0.00	0.000	0.007	0.1667	1.9630	0.000	.2220E-02	0.0004	.2221E-02
.6983E-08									
118	0.00	0.000	0.007	0.1663	1.9546	0.000	.2212E-02	0.0004	.2213E-02
.6983E-08									
119	0.00	0.000	0.007	0.1659	1.9463	0.000	.2205E-02	0.0004	.2206E-02
.6982E-08									
120	0.00	0.000	0.007	0.1655	1.9382	0.000	.2197E-02	0.0004	.2198E-02
.6981E-08									
121	0.00	0.000	0.007	0.1651	1.9303	0.000	.2190E-02	0.0004	.2191E-02
.6981E-08									
122	0.00	0.000	0.007	0.1647	1.9219	0.000	.2183E-02	0.0004	.2184E-02
.6980E-08									
123	0.00	0.000	0.007	0.1643	1.9133	0.000	.2175E-02	0.0004	.2176E-02
.6980E-08									
124	0.00	0.000	0.007	0.1639	1.9046	0.000	.2167E-02	0.0004	.2168E-02
.6979E-08									
125	0.00	0.000	0.007	0.1635	1.8960	0.000	.2159E-02	0.0004	.2160E-02
.6979E-08									
126	0.00	0.000	0.007	0.1632	1.8874	0.000	.2151E-02	0.0004	.2152E-02
.6978E-08									

127	0.00	0.000	0.007	0.1628	1.8788	0.000	.2143E-02	0.0004	.2145E-02
.6978E-08									
128	0.00	0.000	0.007	0.1624	1.8703	0.000	.2136E-02	0.0004	.2137E-02
.6977E-08									
129	0.00	0.000	0.007	0.1620	1.8618	0.000	.2128E-02	0.0004	.2129E-02
.6976E-08									
130	0.00	0.000	0.007	0.1616	1.8533	0.000	.2120E-02	0.0004	.2121E-02
.6976E-08									
131	0.00	0.000	0.007	0.1612	1.8449	0.000	.2112E-02	0.0004	.2114E-02
.6975E-08									
132	0.00	0.000	0.007	0.1609	1.8365	0.000	.2105E-02	0.0004	.2106E-02
.6975E-08									
133	0.00	0.000	0.007	0.1605	1.8281	0.000	.2097E-02	0.0004	.2098E-02
.6974E-08									
134	0.00	0.000	0.007	0.1601	1.8198	0.000	.2090E-02	0.0004	.2091E-02
.6974E-08									
135	0.00	0.000	0.007	0.1597	1.8115	0.000	.2082E-02	0.0004	.2083E-02
.6973E-08									
136	0.00	0.000	0.007	0.1593	1.8032	0.000	.2074E-02	0.0004	.2076E-02
.6972E-08									
137	0.00	0.000	0.007	0.1590	1.7949	0.000	.2067E-02	0.0004	.2068E-02
.6972E-08									
138	0.00	0.000	0.007	0.1586	1.7867	0.000	.2059E-02	0.0004	.2060E-02
.6971E-08									
139	0.00	0.000	0.007	0.1582	1.7785	0.000	.2052E-02	0.0004	.2053E-02
.6971E-08									
140	0.00	0.000	0.006	0.1579	1.7704	0.000	.2044E-02	0.0004	.2045E-02
.6970E-08									
141	0.00	0.000	0.007	0.1575	1.7622	0.000	.2037E-02	0.0004	.2038E-02
.6970E-08									
142	0.00	0.000	0.007	0.1571	1.7541	0.000	.2029E-02	0.0004	.2030E-02
.6969E-08									
143	0.13	0.000	0.009	0.1638	1.7461	0.000	.2022E-02	0.0004	.2023E-02
.6969E-08									
144	0.00	0.000	0.007	0.1635	1.7380	0.000	.2014E-02	0.0004	.2016E-02
.6968E-08									
145	0.00	0.000	0.007	0.1631	1.7300	0.000	.2007E-02	0.0004	.2008E-02
.6967E-08									
146	0.00	0.000	0.007	0.1627	1.7220	0.000	.2000E-02	0.0004	.2001E-02
.6967E-08									
147	0.00	0.000	0.007	0.1624	1.7141	0.000	.1992E-02	0.0004	.1993E-02
.6966E-08									
148	0.00	0.000	0.007	0.1620	1.7061	0.000	.1985E-02	0.0004	.1986E-02
.6966E-08									
149	0.00	0.000	0.007	0.1616	1.6982	0.000	.1978E-02	0.0004	.1979E-02
.6965E-08									
150	0.00	0.000	0.007	0.1612	1.6904	0.000	.1970E-02	0.0004	.1972E-02
.6965E-08									
151	0.00	0.000	0.007	0.1609	1.6825	0.000	.1963E-02	0.0004	.1964E-02
.6964E-08									
152	0.00	0.000	0.007	0.1605	1.6747	0.000	.1956E-02	0.0004	.1957E-02
.6964E-08									
153	0.00	0.000	0.007	0.1602	1.6669	0.000	.1949E-02	0.0004	.1950E-02
.6963E-08									
154	0.12	0.000	0.009	0.1663	1.6592	0.000	.1941E-02	0.0004	.1943E-02
.6963E-08									
155	0.15	0.000	0.009	0.1741	1.6515	0.000	.1934E-02	0.0004	.1935E-02
.6962E-08									
156	0.00	0.000	0.007	0.1738	1.6438	0.000	.1927E-02	0.0004	.1928E-02
.6962E-08									
157	0.00	0.000	0.006	0.1734	1.6361	0.000	.1920E-02	0.0004	.1921E-02
.6961E-08									
158	0.00	0.000	0.006	0.1730	1.6284	0.000	.1913E-02	0.0004	.1914E-02
.6961E-08									
159	0.00	0.000	0.006	0.1727	1.6208	0.000	.1906E-02	0.0004	.1907E-02
.6960E-08									
160	0.00	0.000	0.006	0.1723	1.6133	0.000	.1899E-02	0.0004	.1900E-02
.6959E-08									
161	0.00	0.000	0.006	0.1720	1.6057	0.000	.1892E-02	0.0004	.1893E-02
.6959E-08									

162	0.00	0.000	0.006	0.1716	1.5982	0.000	.1885E-02	0.0004	.1886E-02
.6958E-08									
163	0.00	0.000	0.006	0.1713	1.5907	0.000	.1878E-02	0.0004	.1879E-02
.6958E-08									
164	0.00	0.000	0.006	0.1709	1.5832	0.000	.1871E-02	0.0004	.1872E-02
.6957E-08									
165	0.18	0.000	0.009	0.1804	1.5758	0.000	.1864E-02	0.0004	.1865E-02
.6957E-08									
166	0.05	0.000	0.009	0.1826	1.5684	0.000	.1857E-02	0.0004	.1858E-02
.6956E-08									
167	0.00	0.000	0.006	0.1823	1.5610	0.000	.1850E-02	0.0004	.1851E-02
.6956E-08									
168	0.00	0.000	0.006	0.1819	1.5536	0.000	.1843E-02	0.0003	.1844E-02
.6955E-08									
169	0.00	0.000	0.006	0.1816	1.5463	0.000	.1836E-02	0.0003	.1837E-02
.6955E-08									
170	0.00	0.000	0.006	0.1812	1.5390	0.000	.1829E-02	0.0003	.1830E-02
.6954E-08									
171	0.00	0.000	0.006	0.1809	1.5317	0.000	.1822E-02	0.0003	.1823E-02
.6954E-08									
172	0.00	0.000	0.006	0.1805	1.5245	0.000	.1815E-02	0.0003	.1816E-02
.6953E-08									
173	0.00	0.000	0.006	0.1802	1.5173	0.000	.1809E-02	0.0003	.1810E-02
.6953E-08									
174	0.19	0.000	0.009	0.1902	1.5101	0.000	.1802E-02	0.0003	.1803E-02
.6952E-08									
175	0.00	0.000	0.006	0.1899	1.5029	0.000	.1795E-02	0.0003	.1796E-02
.6952E-08									
176	0.00	0.000	0.006	0.1895	1.4958	0.000	.1788E-02	0.0003	.1789E-02
.6951E-08									
177	0.00	0.000	0.006	0.1892	1.4886	0.000	.1782E-02	0.0003	.1783E-02
.6951E-08									
178	0.00	0.000	0.006	0.1888	1.4816	0.000	.1775E-02	0.0003	.1776E-02
.6950E-08									
179	0.00	0.000	0.006	0.1885	1.4745	0.000	.1768E-02	0.0003	.1769E-02
.6950E-08									
180	0.13	0.000	0.009	0.1952	1.4675	0.000	.1761E-02	0.0003	.1763E-02
.6949E-08									
181	0.55	0.000	0.009	0.2252	1.4604	0.000	.1755E-02	0.0003	.1756E-02
.6949E-08									
182	0.03	0.000	0.317	0.2093	1.4535	0.000	.1748E-02	0.0003	.1749E-02
.6948E-08									
183	0.00	0.000	0.371	0.1886	1.4465	0.000	.1742E-02	0.0003	.1743E-02
.6948E-08									
184	0.00	0.000	0.201	0.1775	1.4396	0.000	.1735E-02	0.0003	.1736E-02
.6947E-08									
185	0.00	0.000	0.083	0.1729	1.4327	0.000	.1728E-02	0.0003	.1729E-02
.6947E-08									
186	0.01	0.000	0.067	0.1697	1.4258	0.000	.1722E-02	0.0003	.1723E-02
.6946E-08									
187	0.40	0.000	0.057	0.1887	1.4190	0.000	.1715E-02	0.0003	.1716E-02
.6946E-08									
188	0.00	0.000	0.047	0.1861	1.4121	0.000	.1709E-02	0.0003	.1710E-02
.6945E-08									
189	0.00	0.000	0.043	0.1837	1.4053	0.000	.1702E-02	0.0003	.1703E-02
.6945E-08									
190	0.00	0.000	0.039	0.1815	1.3986	0.000	.1696E-02	0.0003	.1697E-02
.6944E-08									
191	0.00	0.000	0.037	0.1795	1.3918	0.000	.1689E-02	0.0003	.1690E-02
.6944E-08									
192	0.00	0.000	0.034	0.1776	1.3851	0.000	.1683E-02	0.0003	.1684E-02
.6943E-08									
193	1.20	0.000	0.036	0.2423	1.3784	0.000	.1676E-02	0.0003	.1678E-02
.6943E-08									
194	0.00	0.000	0.358	0.2224	1.3717	0.000	.1670E-02	0.0003	.1671E-02
.6942E-08									
195	0.00	0.000	0.322	0.2045	1.3651	0.000	.1664E-02	0.0003	.1665E-02
.6942E-08									
196	0.00	0.000	0.337	0.1858	1.3585	0.000	.1657E-02	0.0003	.1658E-02
.6941E-08									

197	0.00	0.000	0.201	0.1746	1.3519	0.000	.1651E-02	0.0003	.1652E-02
.6941E-08									
198	0.00	0.000	0.083	0.1700	1.3453	0.000	.1645E-02	0.0003	.1646E-02
.6941E-08									
199	0.00	0.000	0.064	0.1665	1.3388	0.000	.1638E-02	0.0003	.1639E-02
.6940E-08									
200	0.00	0.000	0.054	0.1635	1.3322	0.000	.1632E-02	0.0003	.1633E-02
.6940E-08									
201	0.00	0.000	0.047	0.1608	1.3257	0.000	.1626E-02	0.0003	.1627E-02
.6939E-08									
202	0.00	0.000	0.043	0.1585	1.3193	0.000	.1620E-02	0.0003	.1621E-02
.6939E-08									
203	0.00	0.000	0.039	0.1563	1.3128	0.000	.1613E-02	0.0003	.1614E-02
.6938E-08									
204	0.00	0.000	0.037	0.1542	1.3064	0.000	.1607E-02	0.0003	.1608E-02
.6938E-08									
205	0.00	0.000	0.034	0.1523	1.3000	0.000	.1601E-02	0.0003	.1602E-02
.6937E-08									
206	0.00	0.000	0.033	0.1505	1.2937	0.000	.1595E-02	0.0003	.1596E-02
.6937E-08									
207	0.00	0.000	0.031	0.1488	1.2873	0.000	.1589E-02	0.0003	.1590E-02
.6936E-08									
208	0.01	0.000	0.033	0.1475	1.2810	0.000	.1582E-02	0.0003	.1583E-02
.6936E-08									
209	0.00	0.000	0.028	0.1460	1.2747	0.000	.1576E-02	0.0003	.1577E-02
.6935E-08									
210	0.05	0.000	0.031	0.1470	1.2684	0.000	.1570E-02	0.0003	.1571E-02
.6935E-08									
211	0.50	0.000	0.030	0.1731	1.2622	0.000	.1564E-02	0.0003	.1565E-02
.6934E-08									
212	0.00	0.000	0.025	0.1717	1.2560	0.000	.1558E-02	0.0003	.1559E-02
.6934E-08									
213	0.00	0.000	0.025	0.1703	1.2498	0.000	.1552E-02	0.0003	.1553E-02
.6934E-08									
214	0.00	0.000	0.024	0.1690	1.2436	0.000	.1546E-02	0.0003	.1547E-02
.6933E-08									
215	0.00	0.000	0.023	0.1677	1.2374	0.000	.1540E-02	0.0003	.1541E-02
.6933E-08									
216	0.00	0.000	0.023	0.1664	1.2313	0.000	.1534E-02	0.0003	.1535E-02
.6932E-08									
217	0.00	0.000	0.022	0.1652	1.2252	0.000	.1528E-02	0.0003	.1529E-02
.6932E-08									
218	0.00	0.000	0.022	0.1640	1.2191	0.000	.1522E-02	0.0003	.1523E-02
.6931E-08									
219	0.00	0.000	0.021	0.1628	1.2131	0.000	.1516E-02	0.0003	.1517E-02
.6931E-08									
220	0.00	0.000	0.021	0.1617	1.2070	0.000	.1510E-02	0.0003	.1511E-02
.6930E-08									
221	0.00	0.000	0.020	0.1606	1.2010	0.000	.1504E-02	0.0003	.1505E-02
.6930E-08									
222	0.11	0.000	0.024	0.1653	1.1951	0.000	.1498E-02	0.0003	.1499E-02
.6929E-08									
223	1.64	0.000	0.024	0.2551	1.1891	0.000	.1492E-02	0.0003	.1493E-02
.6929E-08									
224	0.00	0.000	0.282	0.2395	1.1832	0.000	.1487E-02	0.0003	.1488E-02
.6929E-08									
225	0.18	0.000	0.199	0.2384	1.1772	0.000	.1481E-02	0.0003	.1482E-02
.6928E-08									
226	0.34	0.000	0.314	0.2399	1.1713	0.000	.1475E-02	0.0003	.1476E-02
.6928E-08									
227	0.34	0.000	0.290	0.2427	1.1655	0.000	.1469E-02	0.0003	.1470E-02
.6927E-08									
228	0.00	0.000	0.316	0.2251	1.1596	0.000	.1463E-02	0.0003	.1464E-02
.6927E-08									
229	0.00	0.000	0.310	0.2079	1.1538	0.000	.1458E-02	0.0003	.1458E-02
.6926E-08									
230	0.00	0.000	0.252	0.1939	1.1480	0.000	.1452E-02	0.0003	.1453E-02
.6926E-08									
231	0.00	0.000	0.201	0.1828	1.1422	0.000	.1446E-02	0.0003	.1447E-02
.6926E-08									

232	0.00	0.000	0.083	0.1781	1.1365	0.000	.1440E-02	0.0003	.1441E-02
.6925E-08									
233	0.00	0.000	0.064	0.1746	1.1308	0.000	.1435E-02	0.0003	.1436E-02
.6925E-08									
234	0.00	0.000	0.054	0.1716	1.1251	0.000	.1429E-02	0.0003	.1430E-02
.6924E-08									
235	0.00	0.000	0.047	0.1690	1.1194	0.000	.1423E-02	0.0003	.1424E-02
.6924E-08									
236	0.00	0.000	0.043	0.1666	1.1137	0.000	.1418E-02	0.0003	.1419E-02
.6923E-08									
237	0.00	0.000	0.039	0.1644	1.1081	0.000	.1412E-02	0.0003	.1413E-02
.6923E-08									
238	0.00	0.000	0.037	0.1624	1.1024	0.000	.1406E-02	0.0003	.1407E-02
.6922E-08									
239	0.00	0.000	0.034	0.1605	1.0969	0.000	.1401E-02	0.0003	.1402E-02
.6922E-08									
240	0.78	0.000	0.037	0.2017	1.0913	0.000	.1395E-02	0.0003	.1396E-02
.6922E-08									
241	0.00	0.000	0.261	0.1872	1.0857	0.000	.1390E-02	0.0003	.1391E-02
.6921E-08									
242	0.00	0.000	0.031	0.1855	1.0802	0.000	.1384E-02	0.0003	.1385E-02
.6921E-08									
243	0.00	0.000	0.030	0.1839	1.0747	0.000	.1379E-02	0.0003	.1379E-02
.6920E-08									
244	0.00	0.000	0.028	0.1823	1.0692	0.000	.1373E-02	0.0003	.1374E-02
.6920E-08									
245	0.00	0.000	0.027	0.1808	1.0637	0.000	.1368E-02	0.0003	.1368E-02
.6920E-08									
246	0.00	0.000	0.026	0.1793	1.0588	0.000	.1363E-02	0.0003	.1363E-02
.6919E-08									
247	0.00	0.000	0.025	0.1779	1.0538	0.000	.1358E-02	0.0003	.1358E-02
.6919E-08									
248	0.00	0.000	0.025	0.1765	1.0484	0.000	.1352E-02	0.0003	.1353E-02
.6918E-08									
249	0.00	0.000	0.024	0.1752	1.0430	0.000	.1347E-02	0.0003	.1348E-02
.6918E-08									
250	0.00	0.000	0.023	0.1739	1.0377	0.000	.1341E-02	0.0003	.1342E-02
.6918E-08									
251	0.12	0.000	0.028	0.1790	1.0323	0.000	.1336E-02	0.0003	.1337E-02
.6917E-08									
252	0.00	0.000	0.022	0.1778	1.0270	0.000	.1330E-02	0.0003	.1331E-02
.6917E-08									
253	0.00	0.000	0.022	0.1766	1.0219	0.000	.1325E-02	0.0003	.1326E-02
.6916E-08									
254	0.02	0.000	0.026	0.1762	1.0174	0.000	.1321E-02	0.0002	.1321E-02
.6916E-08									
255	2.57	0.000	0.026	0.3176	1.0121	0.000	.1315E-02	0.0002	.1316E-02
.6916E-08									
256	0.00	0.000	0.282	0.2793	1.3455	0.000	.1626E-02	0.0003	.1582E-02
.6936E-08									
257	0.00	0.000	0.278	0.2559	2.8674	0.000	.3013E-02	0.0005	.2812E-02
.7025E-08									
258	0.00	0.000	0.219	0.2389	3.3321	0.000	.3407E-02	0.0006	.3329E-02
.7062E-08									
259	0.00	0.000	0.215	0.2242	3.5787	0.000	.3614E-02	0.0007	.3576E-02
.7079E-08									
260	0.00	0.000	0.214	0.2103	3.7437	0.000	.3751E-02	0.0007	.3727E-02
.7090E-08									
261	0.00	0.000	0.241	0.1944	3.8886	0.000	.3871E-02	0.0007	.3851E-02
.7099E-08									
262	0.00	0.000	0.201	0.1813	4.0350	0.000	.3992E-02	0.0008	.3973E-02
.7107E-08									
263	0.00	0.000	0.083	0.1745	4.1717	0.000	.4104E-02	0.0008	.4086E-02
.7115E-08									
264	0.00	0.000	0.064	0.1692	4.2996	0.000	.4209E-02	0.0008	.4192E-02
.7122E-08									
265	0.00	0.000	0.054	0.1649	4.3957	0.000	.4288E-02	0.0008	.4275E-02
.7128E-08									
266	0.00	0.000	0.047	0.1611	4.4690	0.000	.4348E-02	0.0008	.4338E-02
.7132E-08									

267	0.00	0.000	0.043	0.1578	4.5263	0.000	.4394E-02	0.0008	.4387E-02
.7135E-08									
268	0.00	0.000	0.039	0.1546	4.5755	0.000	.4435E-02	0.0008	.4428E-02
.7138E-08									
269	0.00	0.000	0.037	0.1518	4.6282	0.000	.4477E-02	0.0008	.4471E-02
.7141E-08									
270	0.00	0.000	0.034	0.1492	4.6661	0.000	.4508E-02	0.0009	.4503E-02
.7143E-08									
271	0.00	0.000	0.033	0.1468	4.6926	0.000	.4530E-02	0.0009	.4526E-02
.7145E-08									
272	0.00	0.000	0.031	0.1446	4.7115	0.000	.4545E-02	0.0009	.4543E-02
.7146E-08									
273	0.00	0.000	0.030	0.1426	4.7249	0.000	.4556E-02	0.0009	.4554E-02
.7147E-08									
274	0.00	0.000	0.028	0.1407	4.7300	0.000	.4560E-02	0.0009	.4560E-02
.7147E-08									
275	0.00	0.000	0.027	0.1388	4.7377	0.000	.4567E-02	0.0009	.4566E-02
.7147E-08									
276	0.00	0.000	0.026	0.1372	4.7430	0.000	.4571E-02	0.0009	.4570E-02
.7148E-08									
277	0.00	0.000	0.025	0.1358	4.7303	0.000	.4561E-02	0.0009	.4562E-02
.7147E-08									
278	0.00	0.000	0.025	0.1344	4.7122	0.000	.4546E-02	0.0009	.4548E-02
.7146E-08									
279	0.23	0.000	0.029	0.1455	4.6941	0.000	.4531E-02	0.0009	.4533E-02
.7145E-08									
280	0.00	0.000	0.023	0.1442	4.6761	0.000	.4516E-02	0.0009	.4519E-02
.7144E-08									
281	0.00	0.000	0.023	0.1430	4.6581	0.000	.4502E-02	0.0009	.4504E-02
.7143E-08									
282	0.00	0.000	0.022	0.1418	4.6402	0.000	.4487E-02	0.0008	.4490E-02
.7142E-08									
283	0.00	0.000	0.022	0.1405	4.6223	0.000	.4473E-02	0.0008	.4475E-02
.7141E-08									
284	0.00	0.000	0.021	0.1394	4.6045	0.000	.4458E-02	0.0008	.4461E-02
.7140E-08									
285	0.34	0.000	0.025	0.1569	4.5868	0.000	.4444E-02	0.0008	.4446E-02
.7139E-08									
286	0.00	0.000	0.020	0.1558	4.5691	0.000	.4429E-02	0.0008	.4432E-02
.7138E-08									
287	0.00	0.000	0.020	0.1547	4.5515	0.000	.4415E-02	0.0008	.4417E-02
.7137E-08									
288	0.00	0.000	0.019	0.1536	4.5339	0.000	.4401E-02	0.0008	.4403E-02
.7136E-08									
289	0.00	0.000	0.019	0.1525	4.5164	0.000	.4386E-02	0.0008	.4389E-02
.7135E-08									
290	0.00	0.000	0.019	0.1515	4.4990	0.000	.4372E-02	0.0008	.4374E-02
.7134E-08									
291	0.00	0.000	0.018	0.1504	4.4816	0.000	.4358E-02	0.0008	.4360E-02
.7133E-08									
292	0.00	0.000	0.018	0.1494	4.4642	0.000	.4344E-02	0.0008	.4346E-02
.7132E-08									
293	0.00	0.000	0.018	0.1484	4.4469	0.000	.4330E-02	0.0008	.4332E-02
.7132E-08									
294	0.00	0.000	0.018	0.1475	4.4297	0.000	.4316E-02	0.0008	.4318E-02
.7131E-08									
295	0.00	0.000	0.017	0.1465	4.4125	0.000	.4302E-02	0.0008	.4304E-02
.7130E-08									
296	0.00	0.000	0.017	0.1456	4.3954	0.000	.4288E-02	0.0008	.4290E-02
.7129E-08									
297	0.00	0.000	0.017	0.1446	4.3784	0.000	.4274E-02	0.0008	.4276E-02
.7128E-08									
298	0.00	0.000	0.017	0.1437	4.3613	0.000	.4260E-02	0.0008	.4262E-02
.7127E-08									
299	0.00	0.000	0.016	0.1428	4.3444	0.000	.4246E-02	0.0008	.4248E-02
.7126E-08									
300	0.00	0.000	0.016	0.1419	4.3275	0.000	.4232E-02	0.0008	.4234E-02
.7125E-08									
301	0.00	0.000	0.016	0.1410	4.3107	0.000	.4218E-02	0.0008	.4220E-02
.7124E-08									

302	0.00	0.000	0.016	0.1401	4.2939	0.000	.4204E-02	0.0008	.4207E-02
.7123E-08									
303	0.00	0.000	0.016	0.1393	4.2771	0.000	.4191E-02	0.0008	.4193E-02
.7122E-08									
304	0.03	0.000	0.021	0.1398	4.2605	0.000	.4177E-02	0.0008	.4179E-02
.7121E-08									
305	0.00	0.000	0.015	0.1389	4.2439	0.000	.4163E-02	0.0008	.4166E-02
.7120E-08									
306	0.00	0.000	0.015	0.1381	4.2273	0.000	.4150E-02	0.0008	.4152E-02
.7119E-08									
307	0.00	0.000	0.015	0.1372	4.2108	0.000	.4136E-02	0.0008	.4138E-02
.7118E-08									
308	0.00	0.000	0.015	0.1364	4.1943	0.000	.4123E-02	0.0008	.4125E-02
.7117E-08									
309	0.00	0.000	0.015	0.1356	4.1779	0.000	.4109E-02	0.0008	.4111E-02
.7116E-08									
310	0.00	0.000	0.014	0.1348	4.1616	0.000	.4096E-02	0.0008	.4098E-02
.7115E-08									
311	0.00	0.000	0.014	0.1340	4.1453	0.000	.4083E-02	0.0008	.4085E-02
.7115E-08									
312	0.00	0.000	0.014	0.1332	4.1290	0.000	.4069E-02	0.0008	.4071E-02
.7114E-08									
313	0.00	0.000	0.014	0.1325	4.1128	0.000	.4056E-02	0.0008	.4058E-02
.7113E-08									
314	0.00	0.000	0.014	0.1317	4.0967	0.000	.4043E-02	0.0008	.4045E-02
.7112E-08									
315	0.00	0.000	0.014	0.1309	4.0806	0.000	.4029E-02	0.0008	.4031E-02
.7111E-08									
316	0.00	0.000	0.014	0.1302	4.0646	0.000	.4016E-02	0.0008	.4018E-02
.7110E-08									
317	0.00	0.000	0.013	0.1294	4.0486	0.000	.4003E-02	0.0008	.4005E-02
.7109E-08									
318	0.00	0.000	0.013	0.1287	4.0327	0.000	.3990E-02	0.0008	.3992E-02
.7108E-08									
319	0.00	0.000	0.013	0.1280	4.0168	0.000	.3977E-02	0.0008	.3979E-02
.7107E-08									
320	0.00	0.000	0.013	0.1272	4.0010	0.000	.3964E-02	0.0008	.3966E-02
.7106E-08									
321	0.00	0.000	0.013	0.1265	3.9852	0.000	.3951E-02	0.0007	.3953E-02
.7106E-08									
322	0.00	0.000	0.013	0.1258	3.9695	0.000	.3938E-02	0.0007	.3940E-02
.7105E-08									
323	0.00	0.000	0.013	0.1251	3.9538	0.000	.3925E-02	0.0007	.3927E-02
.7104E-08									
324	0.00	0.000	0.013	0.1244	3.9382	0.000	.3912E-02	0.0007	.3914E-02
.7103E-08									
325	0.00	0.000	0.012	0.1237	3.9226	0.000	.3899E-02	0.0007	.3901E-02
.7102E-08									
326	0.00	0.000	0.012	0.1230	3.9071	0.000	.3886E-02	0.0007	.3888E-02
.7101E-08									
327	0.00	0.000	0.012	0.1223	3.8916	0.000	.3873E-02	0.0007	.3875E-02
.7100E-08									
328	0.00	0.000	0.012	0.1216	3.8762	0.000	.3861E-02	0.0007	.3863E-02
.7099E-08									
329	0.00	0.000	0.012	0.1209	3.8609	0.000	.3848E-02	0.0007	.3850E-02
.7098E-08									
330	0.00	0.000	0.012	0.1203	3.8455	0.000	.3835E-02	0.0007	.3837E-02
.7098E-08									
331	0.00	0.000	0.012	0.1196	3.8303	0.000	.3823E-02	0.0007	.3825E-02
.7097E-08									
332	0.00	0.000	0.012	0.1189	3.8151	0.000	.3810E-02	0.0007	.3812E-02
.7096E-08									
333	0.00	0.000	0.012	0.1183	3.7999	0.000	.3798E-02	0.0007	.3800E-02
.7095E-08									
334	0.00	0.000	0.010	0.1177	3.7848	0.000	.3785E-02	0.0007	.3787E-02
.7094E-08									
335	0.00	0.000	0.011	0.1169	3.7808	0.000	.3782E-02	0.0007	.3782E-02
.7094E-08									
336	0.00	0.000	0.012	0.1162	3.7724	0.000	.3775E-02	0.0007	.3776E-02
.7093E-08									

337	0.00	0.000	0.012	0.1156	3.7573	0.000	.3762E-02	0.0007	.3764E-02
.7092E-08									
338	0.00	0.000	0.011	0.1149	3.7424	0.000	.3750E-02	0.0007	.3752E-02
.7092E-08									
339	0.00	0.000	0.011	0.1143	3.7274	0.000	.3737E-02	0.0007	.3739E-02
.7091E-08									
340	0.00	0.000	0.011	0.1137	3.7126	0.000	.3725E-02	0.0007	.3727E-02
.7090E-08									
341	0.00	0.000	0.011	0.1131	3.6978	0.000	.3713E-02	0.0007	.3715E-02
.7089E-08									
342	0.00	0.000	0.011	0.1124	3.6830	0.000	.3700E-02	0.0007	.3702E-02
.7088E-08									
343	0.00	0.000	0.011	0.1118	3.6683	0.000	.3688E-02	0.0007	.3690E-02
.7087E-08									
344 *	0.00	0.000	0.011	0.1112	3.6536	0.000	.3676E-02	0.0007	.3678E-02
.7087E-08									
345	0.04	0.000	0.013	0.1127	3.6390	0.000	.3664E-02	0.0007	.3666E-02
.7086E-08									
346 *	0.08	0.000	0.067	0.1134	3.6244	0.000	.3652E-02	0.0007	.3654E-02
.7085E-08									
347	0.00	0.000	0.011	0.1128	3.6098	0.000	.3640E-02	0.0007	.3642E-02
.7084E-08									
348	0.00	0.000	0.011	0.1122	3.5954	0.000	.3628E-02	0.0007	.3629E-02
.7083E-08									
349	0.00	0.000	0.011	0.1116	3.5809	0.000	.3616E-02	0.0007	.3617E-02
.7082E-08									
350	0.00	0.000	0.011	0.1110	3.5665	0.000	.3604E-02	0.0007	.3605E-02
.7081E-08									
351	0.00	0.000	0.011	0.1104	3.5522	0.000	.3592E-02	0.0007	.3593E-02
.7081E-08									
352	0.00	0.000	0.011	0.1096	3.5442	0.000	.3585E-02	0.0007	.3586E-02
.7080E-08									
353 *	0.00	0.000	0.011	0.1090	3.5404	0.000	.3582E-02	0.0007	.3582E-02
.7080E-08									
354	0.00	0.000	0.010	0.1082	3.5325	0.000	.3575E-02	0.0007	.3576E-02
.7079E-08									
355	0.00	0.000	0.010	0.1076	3.5289	0.000	.3572E-02	0.0007	.3573E-02
.7079E-08									
356	0.00	0.000	0.010	0.1068	3.5210	0.000	.3566E-02	0.0007	.3566E-02
.7079E-08									
357	0.00	0.000	0.010	0.1062	3.5174	0.000	.3562E-02	0.0007	.3563E-02
.7079E-08									
358	0.00	0.000	0.010	0.1054	3.5095	0.000	.3556E-02	0.0007	.3557E-02
.7078E-08									
359	0.00	0.000	0.003	0.1053	3.5059	0.000	.3553E-02	0.0007	.3553E-02
.7078E-08									
360	0.00	0.000	0.002	0.1052	3.4918	0.000	.3541E-02	0.0007	.3543E-02
.7077E-08									
361 *	0.00	0.000	0.002	0.1051	3.4777	0.000	.3529E-02	0.0007	.3531E-02
.7076E-08									
362 *	0.00	0.000	0.002	0.1050	3.4637	0.000	.3518E-02	0.0007	.3519E-02
.7075E-08									
363	0.00	0.000	0.002	0.1049	3.4497	0.000	.3506E-02	0.0007	.3508E-02
.7075E-08									
364	0.00	0.000	0.002	0.1048	3.4357	0.000	.3494E-02	0.0007	.3496E-02
.7074E-08									
365	0.00	0.000	0.002	0.1047	3.4218	0.000	.3483E-02	0.0007	.3484E-02
.7073E-08									

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MONTHLY TOTALS (IN INCHES) FOR YEAR 2

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION	0.92	0.45	0.30	0.00	0.13	1.37
	2.20	3.39	2.71	0.60	0.00	0.12
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.707	0.405	0.475	0.220	0.213	0.212
	3.163	3.171	2.447	0.636	0.397	0.333
PERCOLATION/LEAKAGE THROUGH	0.0979	0.0799	0.0799	0.0694	0.0643	0.0556
LAYER 2	0.0512	0.0454	0.0878	0.1360	0.1191	0.1123
LATERAL DRAINAGE COLLECTED	0.0979	0.0800	0.0799	0.0695	0.0644	0.0557
FROM LAYER 3	0.0512	0.0454	0.0873	0.1360	0.1192	0.1124
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	3.037	2.684	2.365	2.068	1.804	1.566
TOP OF LAYER 2	1.353	1.161	2.838	4.516	4.011	3.590
STD. DEVIATION OF DAILY	0.114	0.094	0.093	0.081	0.075	0.065
HEAD ON TOP OF LAYER 2	0.060	0.053	1.630	0.154	0.139	0.106
AVERAGE DAILY HEAD ON	0.001	0.001	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.001	0.001	0.001	0.001
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.19	10340929.495	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	12.378	10500562.783	101.54
PERC./LEAKAGE THROUGH LAYER 2	0.998917	847393.824	8.19
AVG. HEAD ON TOP OF LAYER 2	2.5827		
DRAINAGE COLLECTED FROM LAYER 3	0.9989	847371.303	8.19
PERC./LEAKAGE THROUGH LAYER 5	0.000003	2.173	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0005		
CHANGE IN WATER STORAGE	-1.187	-1007006.608	-9.74
SOIL WATER AT START OF YEAR	6.252	5303245.154	
SOIL WATER AT END OF YEAR	5.064	4296238.546	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00

SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.155	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

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DAILY OUTPUT FOR YEAR 3

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.17	0.000	0.004	0.1139	3.4079	0.000	.3471E-02	0.0007	.3473E-02	.7072E-08
2			0.00	0.000	0.004	0.1137	3.3941	0.000	.3459E-02	0.0007	.3461E-02	.7071E-08
3			0.00	0.000	0.004	0.1135	3.3804	0.000	.3448E-02	0.0007	.3450E-02	.7071E-08
4			0.00	0.000	0.004	0.1132	3.3667	0.000	.3436E-02	0.0007	.3438E-02	.7070E-08
5			0.00	0.000	0.004	0.1130	3.3530	0.000	.3425E-02	0.0006	.3427E-02	.7069E-08
6			0.00	0.000	0.005	0.1127	3.3393	0.000	.3413E-02	0.0006	.3415E-02	.7068E-08
7			0.00	0.000	0.005	0.1124	3.3258	0.000	.3402E-02	0.0006	.3404E-02	.7067E-08
8			0.00	0.000	0.006	0.1121	3.3122	0.000	.3391E-02	0.0006	.3392E-02	.7067E-08
9			0.00	0.000	0.006	0.1118	3.2987	0.000	.3379E-02	0.0006	.3381E-02	.7066E-08
10			0.00	0.000	0.006	0.1115	3.2853	0.000	.3368E-02	0.0006	.3370E-02	.7065E-08
11			0.00	0.000	0.006	0.1111	3.2719	0.000	.3357E-02	0.0006	.3358E-02	.7064E-08
12			0.00	0.000	0.006	0.1108	3.2585	0.000	.3345E-02	0.0006	.3347E-02	.7063E-08
13			0.00	0.000	0.006	0.1105	3.2452	0.000	.3334E-02	0.0006	.3336E-02	.7063E-08
14			0.00	0.000	0.006	0.1101	3.2320	0.000	.3323E-02	0.0006	.3325E-02	.7062E-08
15			0.00	0.000	0.006	0.1098	3.2187	0.000	.3312E-02	0.0006	.3314E-02	.7061E-08
16			0.16	0.000	0.008	0.1182	3.2056	0.000	.3301E-02	0.0006	.3302E-02	.7060E-08
17			0.00	0.000	0.004	0.1180	3.1924	0.000	.3290E-02	0.0006	.3291E-02	.7060E-08
18			0.89	0.000	0.006	0.1671	3.1793	0.000	.3278E-02	0.0006	.3280E-02	.7059E-08

19	0.49	0.000	0.008	0.1938	3.1663	0.000	.3267E-02	0.0006	.3269E-02
.7058E-08									
20	0.09	0.000	0.010	0.1983	3.1533	0.000	.3256E-02	0.0006	.3258E-02
.7057E-08									
21	0.27	0.000	0.010	0.2128	3.1403	0.000	.3246E-02	0.0006	.3247E-02
.7056E-08									
22	0.00	0.000	0.132	0.2054	3.1274	0.000	.3235E-02	0.0006	.3236E-02
.7056E-08									
23	0.00	0.000	0.115	0.1990	3.1146	0.000	.3224E-02	0.0006	.3225E-02
.7055E-08									
24	0.00	0.000	0.132	0.1917	3.1017	0.000	.3213E-02	0.0006	.3215E-02
.7054E-08									
25	0.00	0.000	0.076	0.1875	3.0890	0.000	.3202E-02	0.0006	.3204E-02
.7053E-08									
26	0.04	0.000	0.060	0.1864	3.0762	0.000	.3191E-02	0.0006	.3193E-02
.7053E-08									
27	0.00	0.000	0.052	0.1835	3.0635	0.000	.3180E-02	0.0006	.3182E-02
.7052E-08									
28	0.00	0.000	0.046	0.1809	3.0509	0.000	.3170E-02	0.0006	.3171E-02
.7051E-08									
29	0.00	0.000	0.041	0.1786	3.0382	0.000	.3159E-02	0.0006	.3161E-02
.7050E-08									
30	0.00	0.000	0.038	0.1765	3.0257	0.000	.3148E-02	0.0006	.3150E-02
.7050E-08									
31	0.00	0.000	0.035	0.1745	3.0131	0.000	.3138E-02	0.0006	.3139E-02
.7049E-08									
32	0.00	0.000	0.033	0.1727	3.0007	0.000	.3127E-02	0.0006	.3129E-02
.7048E-08									
33	0.00	0.000	0.032	0.1709	2.9882	0.000	.3116E-02	0.0006	.3118E-02
.7047E-08									
34	0.00	0.000	0.030	0.1693	2.9758	0.000	.3106E-02	0.0006	.3107E-02
.7047E-08									
35	0.00	0.000	0.029	0.1677	2.9635	0.000	.3095E-02	0.0006	.3097E-02
.7046E-08									
36	0.00	0.000	0.027	0.1662	2.9511	0.000	.3085E-02	0.0006	.3086E-02
.7045E-08									
37	0.00	0.000	0.026	0.1647	2.9389	0.000	.3074E-02	0.0006	.3076E-02
.7044E-08									
38	0.00	0.000	0.026	0.1633	2.9266	0.000	.3064E-02	0.0006	.3066E-02
.7044E-08									
39	0.00	0.000	0.025	0.1619	2.9144	0.000	.3053E-02	0.0006	.3055E-02
.7043E-08									
40	0.00	0.000	0.024	0.1606	2.9023	0.000	.3043E-02	0.0006	.3045E-02
.7042E-08									
41	0.00	0.000	0.023	0.1593	2.8902	0.000	.3033E-02	0.0006	.3034E-02
.7041E-08									
42	0.00	0.000	0.023	0.1581	2.8781	0.000	.3022E-02	0.0006	.3024E-02
.7041E-08									
43	0.00	0.000	0.022	0.1568	2.8661	0.000	.3012E-02	0.0006	.3014E-02
.7040E-08									
44	0.00	0.000	0.021	0.1556	2.8541	0.000	.3002E-02	0.0006	.3003E-02
.7039E-08									
45	0.00	0.000	0.021	0.1545	2.8422	0.000	.2992E-02	0.0006	.2993E-02
.7039E-08									
46	0.00	0.000	0.020	0.1533	2.8303	0.000	.2981E-02	0.0006	.2983E-02
.7038E-08									
47	0.00	0.000	0.020	0.1522	2.8184	0.000	.2971E-02	0.0006	.2973E-02
.7037E-08									
48	0.00	0.000	0.020	0.1511	2.8066	0.000	.2961E-02	0.0006	.2963E-02
.7036E-08									
49	0.00	0.000	0.019	0.1501	2.7948	0.000	.2951E-02	0.0006	.2953E-02
.7036E-08									
50	0.00	0.000	0.019	0.1490	2.7831	0.000	.2941E-02	0.0006	.2942E-02
.7035E-08									
51	0.00	0.000	0.019	0.1480	2.7714	0.000	.2931E-02	0.0006	.2932E-02
.7034E-08									
52	0.00	0.000	0.018	0.1470	2.7597	0.000	.2921E-02	0.0006	.2922E-02
.7034E-08									
53	0.19	0.000	0.020	0.1564	2.7481	0.000	.2911E-02	0.0006	.2912E-02
.7033E-08									

54	0.00	0.000	0.018	0.1554	2.7365	0.000	.2901E-02	0.0005	.2902E-02
.7032E-08									
55	0.00	0.000	0.017	0.1545	2.7249	0.000	.2891E-02	0.0005	.2892E-02
.7031E-08									
56	0.00	0.000	0.017	0.1535	2.7134	0.000	.2881E-02	0.0005	.2883E-02
.7031E-08									
57	0.00	0.000	0.017	0.1526	2.7020	0.000	.2871E-02	0.0005	.2873E-02
.7030E-08									
58	0.00	0.000	0.017	0.1516	2.6906	0.000	.2861E-02	0.0005	.2863E-02
.7029E-08									
59	0.08	0.000	0.019	0.1550	2.6792	0.000	.2851E-02	0.0005	.2853E-02
.7029E-08									
60	0.02	0.000	0.019	0.1551	2.6678	0.000	.2842E-02	0.0005	.2843E-02
.7028E-08									
61	0.00	0.000	0.016	0.1542	2.6565	0.000	.2832E-02	0.0005	.2833E-02
.7027E-08									
62	0.00	0.000	0.016	0.1533	2.6453	0.000	.2822E-02	0.0005	.2824E-02
.7026E-08									
63	0.00	0.000	0.015	0.1525	2.6340	0.000	.2812E-02	0.0005	.2814E-02
.7026E-08									
64	0.00	0.000	0.015	0.1516	2.6228	0.000	.2803E-02	0.0005	.2804E-02
.7025E-08									
65	0.00	0.000	0.016	0.1507	2.6117	0.000	.2793E-02	0.0005	.2795E-02
.7024E-08									
66	0.00	0.000	0.015	0.1499	2.6006	0.000	.2783E-02	0.0005	.2785E-02
.7024E-08									
67	0.00	0.000	0.015	0.1490	2.5895	0.000	.2774E-02	0.0005	.2775E-02
.7023E-08									
68	0.00	0.000	0.015	0.1482	2.5785	0.000	.2764E-02	0.0005	.2766E-02
.7022E-08									
69	0.00	0.000	0.015	0.1474	2.5675	0.000	.2755E-02	0.0005	.2756E-02
.7022E-08									
70	0.00	0.000	0.015	0.1466	2.5565	0.000	.2745E-02	0.0005	.2747E-02
.7021E-08									
71	0.00	0.000	0.015	0.1458	2.5456	0.000	.2736E-02	0.0005	.2737E-02
.7020E-08									
72	0.00	0.000	0.014	0.1450	2.5347	0.000	.2726E-02	0.0005	.2728E-02
.7020E-08									
73	0.00	0.000	0.014	0.1442	2.5238	0.000	.2717E-02	0.0005	.2718E-02
.7019E-08									
74	0.00	0.000	0.014	0.1434	2.5130	0.000	.2707E-02	0.0005	.2709E-02
.7018E-08									
75	0.00	0.000	0.014	0.1426	2.5023	0.000	.2698E-02	0.0005	.2699E-02
.7018E-08									
76	0.00	0.000	0.014	0.1418	2.4915	0.000	.2689E-02	0.0005	.2690E-02
.7017E-08									
77	0.00	0.000	0.014	0.1411	2.4808	0.000	.2679E-02	0.0005	.2681E-02
.7016E-08									
78	0.00	0.000	0.014	0.1403	2.4702	0.000	.2670E-02	0.0005	.2671E-02
.7016E-08									
79	0.00	0.000	0.013	0.1396	2.4595	0.000	.2661E-02	0.0005	.2662E-02
.7015E-08									
80	0.00	0.000	0.013	0.1388	2.4490	0.000	.2651E-02	0.0005	.2653E-02
.7014E-08									
81	0.00	0.000	0.013	0.1381	2.4384	0.000	.2642E-02	0.0005	.2644E-02
.7014E-08									
82	0.00	0.000	0.013	0.1374	2.4279	0.000	.2633E-02	0.0005	.2634E-02
.7013E-08									
83	0.00	0.000	0.013	0.1366	2.4174	0.000	.2624E-02	0.0005	.2625E-02
.7012E-08									
84	0.00	0.000	0.012	0.1360	2.4070	0.000	.2615E-02	0.0005	.2616E-02
.7012E-08									
85	0.00	0.000	0.013	0.1352	2.3966	0.000	.2606E-02	0.0005	.2607E-02
.7011E-08									
86	0.00	0.000	0.013	0.1345	2.3862	0.000	.2596E-02	0.0005	.2598E-02
.7010E-08									
87	0.00	0.000	0.013	0.1338	2.3759	0.000	.2587E-02	0.0005	.2589E-02
.7010E-08									
88	0.00	0.000	0.012	0.1331	2.3656	0.000	.2578E-02	0.0005	.2580E-02
.7009E-08									

89	0.00	0.000	0.012	0.1325	2.3553	0.000	.2569E-02	0.0005	.2571E-02
.7008E-08									
90	0.00	0.000	0.012	0.1318	2.3451	0.000	.2560E-02	0.0005	.2562E-02
.7008E-08									
91	0.00	0.000	0.012	0.1311	2.3349	0.000	.2551E-02	0.0005	.2553E-02
.7007E-08									
92	0.00	0.000	0.012	0.1305	2.3248	0.000	.2542E-02	0.0005	.2544E-02
.7006E-08									
93	0.00	0.000	0.012	0.1298	2.3147	0.000	.2533E-02	0.0005	.2535E-02
.7006E-08									
94	0.00	0.000	0.012	0.1292	2.3046	0.000	.2525E-02	0.0005	.2526E-02
.7005E-08									
95	0.00	0.000	0.011	0.1285	2.2945	0.000	.2516E-02	0.0005	.2517E-02
.7005E-08									
96	0.00	0.000	0.011	0.1279	2.2845	0.000	.2507E-02	0.0005	.2508E-02
.7004E-08									
97	0.00	0.000	0.011	0.1273	2.2745	0.000	.2498E-02	0.0005	.2499E-02
.7003E-08									
98	0.00	0.000	0.011	0.1266	2.2646	0.000	.2489E-02	0.0005	.2491E-02
.7003E-08									
99	0.00	0.000	0.011	0.1260	2.2547	0.000	.2481E-02	0.0005	.2482E-02
.7002E-08									
100	0.00	0.000	0.011	0.1254	2.2448	0.000	.2472E-02	0.0005	.2473E-02
.7001E-08									
101	0.00	0.000	0.011	0.1248	2.2350	0.000	.2463E-02	0.0005	.2464E-02
.7001E-08									
102	0.00	0.000	0.011	0.1241	2.2252	0.000	.2454E-02	0.0005	.2456E-02
.7000E-08									
103	0.00	0.000	0.011	0.1235	2.2154	0.000	.2446E-02	0.0005	.2447E-02
.6999E-08									
104	0.00	0.000	0.011	0.1229	2.2057	0.000	.2437E-02	0.0005	.2438E-02
.6999E-08									
105	0.00	0.000	0.011	0.1223	2.1960	0.000	.2428E-02	0.0005	.2430E-02
.6998E-08									
106	0.00	0.000	0.011	0.1217	2.1863	0.000	.2420E-02	0.0005	.2421E-02
.6998E-08									
107	0.00	0.000	0.011	0.1211	2.1767	0.000	.2411E-02	0.0005	.2413E-02
.6997E-08									
108	0.00	0.000	0.011	0.1205	2.1671	0.000	.2403E-02	0.0005	.2404E-02
.6996E-08									
109	0.00	0.000	0.011	0.1198	2.1576	0.000	.2394E-02	0.0005	.2396E-02
.6996E-08									
110	0.00	0.000	0.011	0.1192	2.1480	0.000	.2386E-02	0.0005	.2387E-02
.6995E-08									
111	0.00	0.000	0.011	0.1187	2.1385	0.000	.2377E-02	0.0004	.2379E-02
.6995E-08									
112	0.00	0.000	0.011	0.1181	2.1291	0.000	.2369E-02	0.0004	.2370E-02
.6994E-08									
113	0.00	0.000	0.011	0.1175	2.1197	0.000	.2360E-02	0.0004	.2362E-02
.6993E-08									
114	0.00	0.000	0.011	0.1169	2.1103	0.000	.2352E-02	0.0004	.2353E-02
.6993E-08									
115	0.00	0.000	0.010	0.1163	2.1009	0.000	.2344E-02	0.0004	.2345E-02
.6992E-08									
116	0.00	0.000	0.010	0.1157	2.0916	0.000	.2335E-02	0.0004	.2337E-02
.6992E-08									
117	0.00	0.000	0.010	0.1151	2.0823	0.000	.2327E-02	0.0004	.2328E-02
.6991E-08									
118	0.00	0.000	0.010	0.1146	2.0730	0.000	.2319E-02	0.0004	.2320E-02
.6990E-08									
119	0.00	0.000	0.010	0.1140	2.0638	0.000	.2310E-02	0.0004	.2312E-02
.6990E-08									
120	0.00	0.000	0.010	0.1134	2.0546	0.000	.2302E-02	0.0004	.2304E-02
.6989E-08									
121	0.00	0.000	0.010	0.1129	2.0454	0.000	.2294E-02	0.0004	.2295E-02
.6989E-08									
122	0.00	0.000	0.010	0.1123	2.0363	0.000	.2286E-02	0.0004	.2287E-02
.6988E-08									
123	0.24	0.000	0.014	0.1249	2.0272	0.000	.2278E-02	0.0004	.2279E-02
.6987E-08									

124	0.00	0.000	0.010	0.1243	2.0182	0.000	.2269E-02	0.0004	.2271E-02
.6987E-08									
125	0.00	0.000	0.010	0.1238	2.0091	0.000	.2261E-02	0.0004	.2263E-02
.6986E-08									
126	0.00	0.000	0.010	0.1232	2.0001	0.000	.2253E-02	0.0004	.2255E-02
.6986E-08									
127	0.00	0.000	0.010	0.1227	1.9912	0.000	.2245E-02	0.0004	.2246E-02
.6985E-08									
128	0.00	0.000	0.010	0.1221	1.9822	0.000	.2237E-02	0.0004	.2238E-02
.6984E-08									
129	0.00	0.000	0.010	0.1216	1.9733	0.000	.2229E-02	0.0004	.2230E-02
.6984E-08									
130	0.00	0.000	0.010	0.1211	1.9645	0.000	.2221E-02	0.0004	.2222E-02
.6983E-08									
131	0.14	0.000	0.013	0.1281	1.9556	0.000	.2213E-02	0.0004	.2214E-02
.6983E-08									
132	0.09	0.000	0.013	0.1324	1.9468	0.000	.2205E-02	0.0004	.2206E-02
.6982E-08									
133	0.00	0.000	0.010	0.1318	1.9381	0.000	.2197E-02	0.0004	.2198E-02
.6981E-08									
134	0.00	0.000	0.010	0.1313	1.9293	0.000	.2189E-02	0.0004	.2190E-02
.6981E-08									
135	0.00	0.000	0.010	0.1308	1.9206	0.000	.2181E-02	0.0004	.2183E-02
.6980E-08									
136	0.00	0.000	0.009	0.1302	1.9119	0.000	.2173E-02	0.0004	.2175E-02
.6980E-08									
137	0.00	0.000	0.009	0.1297	1.9033	0.000	.2166E-02	0.0004	.2167E-02
.6979E-08									
138	0.00	0.000	0.009	0.1292	1.8947	0.000	.2158E-02	0.0004	.2159E-02
.6979E-08									
139	0.00	0.000	0.009	0.1287	1.8861	0.000	.2150E-02	0.0004	.2151E-02
.6978E-08									
140	0.00	0.000	0.009	0.1282	1.8775	0.000	.2142E-02	0.0004	.2143E-02
.6977E-08									
141	0.00	0.000	0.009	0.1276	1.8690	0.000	.2134E-02	0.0004	.2136E-02
.6977E-08									
142	0.00	0.000	0.009	0.1271	1.8605	0.000	.2127E-02	0.0004	.2128E-02
.6976E-08									
143	0.00	0.000	0.009	0.1266	1.8520	0.000	.2119E-02	0.0004	.2120E-02
.6976E-08									
144	0.00	0.000	0.009	0.1261	1.8436	0.000	.2111E-02	0.0004	.2113E-02
.6975E-08									
145	0.00	0.000	0.009	0.1256	1.8352	0.000	.2104E-02	0.0004	.2105E-02
.6975E-08									
146	0.00	0.000	0.009	0.1251	1.8268	0.000	.2096E-02	0.0004	.2097E-02
.6974E-08									
147	0.00	0.000	0.009	0.1246	1.8185	0.000	.2088E-02	0.0004	.2090E-02
.6973E-08									
148	0.00	0.000	0.009	0.1241	1.8102	0.000	.2081E-02	0.0004	.2082E-02
.6973E-08									
149	0.00	0.000	0.009	0.1236	1.8019	0.000	.2073E-02	0.0004	.2074E-02
.6972E-08									
150	0.00	0.000	0.009	0.1231	1.7937	0.000	.2066E-02	0.0004	.2067E-02
.6972E-08									
151	0.00	0.000	0.009	0.1226	1.7855	0.000	.2058E-02	0.0004	.2059E-02
.6971E-08									
152	0.00	0.000	0.009	0.1221	1.7773	0.000	.2051E-02	0.0004	.2052E-02
.6971E-08									
153	0.00	0.000	0.009	0.1216	1.7691	0.000	.2043E-02	0.0004	.2044E-02
.6970E-08									
154	0.00	0.000	0.009	0.1212	1.7610	0.000	.2036E-02	0.0004	.2037E-02
.6970E-08									
155	0.00	0.000	0.009	0.1207	1.7529	0.000	.2028E-02	0.0004	.2029E-02
.6969E-08									
156	0.00	0.000	0.009	0.1202	1.7448	0.000	.2021E-02	0.0004	.2022E-02
.6968E-08									
157	0.00	0.000	0.009	0.1197	1.7368	0.000	.2013E-02	0.0004	.2014E-02
.6968E-08									
158	0.17	0.000	0.013	0.1284	1.7288	0.000	.2006E-02	0.0004	.2007E-02
.6967E-08									

159	0.00	0.000	0.009	0.1280	1.7208	0.000	.1999E-02	0.0004	.2000E-02
.6967E-08									
160	0.00	0.000	0.009	0.1275	1.7128	0.000	.1991E-02	0.0004	.1992E-02
.6966E-08									
161	0.39	0.000	0.013	0.1484	1.7049	0.000	.1984E-02	0.0004	.1985E-02
.6966E-08									
162	0.21	0.000	0.012	0.1594	1.6973	0.000	.1977E-02	0.0004	.1978E-02
.6965E-08									
163	0.00	0.000	0.008	0.1590	1.6903	0.000	.1970E-02	0.0004	.1971E-02
.6965E-08									
164	0.00	0.000	0.008	0.1585	1.6825	0.000	.1963E-02	0.0004	.1964E-02
.6964E-08									
165	0.00	0.000	0.008	0.1580	1.6747	0.000	.1956E-02	0.0004	.1957E-02
.6964E-08									
166	0.00	0.000	0.008	0.1575	1.6669	0.000	.1949E-02	0.0004	.1950E-02
.6963E-08									
167	0.00	0.000	0.008	0.1571	1.6591	0.000	.1941E-02	0.0004	.1943E-02
.6963E-08									
168	0.00	0.000	0.008	0.1566	1.6514	0.000	.1934E-02	0.0004	.1935E-02
.6962E-08									
169	0.00	0.000	0.008	0.1562	1.6437	0.000	.1927E-02	0.0004	.1928E-02
.6962E-08									
170	0.00	0.000	0.008	0.1557	1.6361	0.000	.1920E-02	0.0004	.1921E-02
.6961E-08									
171	0.00	0.000	0.007	0.1553	1.6284	0.000	.1913E-02	0.0004	.1914E-02
.6961E-08									
172	0.33	0.000	0.011	0.1730	1.6208	0.000	.1906E-02	0.0004	.1907E-02
.6960E-08									
173	0.00	0.000	0.007	0.1726	1.6132	0.000	.1899E-02	0.0004	.1900E-02
.6959E-08									
174	0.00	0.000	0.007	0.1722	1.6057	0.000	.1892E-02	0.0004	.1893E-02
.6959E-08									
175	0.00	0.000	0.007	0.1718	1.5981	0.000	.1885E-02	0.0004	.1886E-02
.6958E-08									
176	0.00	0.000	0.007	0.1715	1.5906	0.000	.1878E-02	0.0004	.1879E-02
.6958E-08									
177	0.02	0.000	0.011	0.1719	1.5832	0.000	.1871E-02	0.0004	.1872E-02
.6957E-08									
178	0.00	0.000	0.007	0.1716	1.5757	0.000	.1864E-02	0.0004	.1865E-02
.6957E-08									
179	0.00	0.000	0.007	0.1712	1.5683	0.000	.1857E-02	0.0004	.1858E-02
.6956E-08									
180	0.00	0.000	0.007	0.1708	1.5609	0.000	.1850E-02	0.0004	.1851E-02
.6956E-08									
181	0.00	0.000	0.007	0.1704	1.5536	0.000	.1843E-02	0.0003	.1844E-02
.6955E-08									
182	0.00	0.000	0.007	0.1700	1.5462	0.000	.1836E-02	0.0003	.1837E-02
.6955E-08									
183	0.00	0.000	0.007	0.1696	1.5389	0.000	.1829E-02	0.0003	.1830E-02
.6954E-08									
184	0.00	0.000	0.007	0.1692	1.5317	0.000	.1822E-02	0.0003	.1823E-02
.6954E-08									
185	0.00	0.000	0.007	0.1688	1.5244	0.000	.1815E-02	0.0003	.1816E-02
.6953E-08									
186	0.00	0.000	0.007	0.1684	1.5172	0.000	.1809E-02	0.0003	.1810E-02
.6953E-08									
187	0.00	0.000	0.007	0.1680	1.5100	0.000	.1802E-02	0.0003	.1803E-02
.6952E-08									
188	0.00	0.000	0.007	0.1676	1.5028	0.000	.1795E-02	0.0003	.1796E-02
.6952E-08									
189	0.00	0.000	0.007	0.1672	1.4957	0.000	.1788E-02	0.0003	.1789E-02
.6951E-08									
190	0.00	0.000	0.007	0.1668	1.4886	0.000	.1781E-02	0.0003	.1783E-02
.6951E-08									
191	0.00	0.000	0.007	0.1664	1.4815	0.000	.1775E-02	0.0003	.1776E-02
.6950E-08									
192	0.00	0.000	0.007	0.1660	1.4744	0.000	.1768E-02	0.0003	.1769E-02
.6950E-08									
193	0.17	0.000	0.012	0.1748	1.4674	0.000	.1761E-02	0.0003	.1762E-02
.6949E-08									

194	0.00	0.000	0.007	0.1744	1.4604	0.000	.1755E-02	0.0003	.1756E-02 .6949E-08
195	0.00	0.000	0.007	0.1740	1.4534	0.000	.1748E-02	0.0003	.1749E-02 .6948E-08
196	0.00	0.000	0.007	0.1736	1.4464	0.000	.1742E-02	0.0003	.1743E-02 .6948E-08
197	0.00	0.000	0.007	0.1732	1.4395	0.000	.1735E-02	0.0003	.1736E-02 .6947E-08
198	0.00	0.000	0.007	0.1728	1.4326	0.000	.1728E-02	0.0003	.1729E-02 .6947E-08
199	0.00	0.000	0.007	0.1724	1.4257	0.000	.1722E-02	0.0003	.1723E-02 .6946E-08
200	0.00	0.000	0.007	0.1720	1.4189	0.000	.1715E-02	0.0003	.1716E-02 .6946E-08
201	0.00	0.000	0.007	0.1716	1.4121	0.000	.1709E-02	0.0003	.1710E-02 .6945E-08
202	0.00	0.000	0.007	0.1712	1.4053	0.000	.1702E-02	0.0003	.1703E-02 .6945E-08
203	0.00	0.000	0.007	0.1708	1.3985	0.000	.1696E-02	0.0003	.1697E-02 .6944E-08
204	0.00	0.000	0.007	0.1704	1.3917	0.000	.1689E-02	0.0003	.1690E-02 .6944E-08
205	0.00	0.000	0.007	0.1700	1.3850	0.000	.1683E-02	0.0003	.1684E-02 .6943E-08
206	0.00	0.000	0.007	0.1696	1.3783	0.000	.1676E-02	0.0003	.1677E-02 .6943E-08
207	0.02	0.000	0.012	0.1700	1.3717	0.000	.1670E-02	0.0003	.1671E-02 .6942E-08
208	0.00	0.000	0.007	0.1697	1.3650	0.000	.1664E-02	0.0003	.1665E-02 .6942E-08
209	0.00	0.000	0.007	0.1693	1.3584	0.000	.1657E-02	0.0003	.1658E-02 .6941E-08
210	0.00	0.000	0.007	0.1689	1.3518	0.000	.1651E-02	0.0003	.1652E-02 .6941E-08
211	0.00	0.000	0.007	0.1685	1.3452	0.000	.1645E-02	0.0003	.1646E-02 .6941E-08
212	0.00	0.000	0.007	0.1682	1.3387	0.000	.1638E-02	0.0003	.1639E-02 .6940E-08
213	0.00	0.000	0.007	0.1678	1.3322	0.000	.1632E-02	0.0003	.1633E-02 .6940E-08
214	0.52	0.000	0.012	0.1960	1.3257	0.000	.1626E-02	0.0003	.1627E-02 .6939E-08
215	0.00	0.000	0.007	0.1956	1.3192	0.000	.1619E-02	0.0003	.1620E-02 .6939E-08
216	0.00	0.000	0.007	0.1953	1.3128	0.000	.1613E-02	0.0003	.1614E-02 .6938E-08
217	0.00	0.000	0.007	0.1949	1.3064	0.000	.1607E-02	0.0003	.1608E-02 .6938E-08
218	0.00	0.000	0.007	0.1945	1.3000	0.000	.1601E-02	0.0003	.1602E-02 .6937E-08
219	0.00	0.000	0.007	0.1941	1.2936	0.000	.1595E-02	0.0003	.1596E-02 .6937E-08
220	0.00	0.000	0.007	0.1938	1.2873	0.000	.1589E-02	0.0003	.1589E-02 .6936E-08
221	0.03	0.000	0.012	0.1948	1.2809	0.000	.1582E-02	0.0003	.1583E-02 .6936E-08
222	0.27	0.000	0.012	0.2091	1.2746	0.000	.1576E-02	0.0003	.1577E-02 .6935E-08
223	0.00	0.000	0.282	0.1934	1.2684	0.000	.1570E-02	0.0003	.1571E-02 .6935E-08
224	0.00	0.000	0.007	0.1931	1.2621	0.000	.1564E-02	0.0003	.1565E-02 .6934E-08
225	0.00	0.000	0.007	0.1927	1.2559	0.000	.1558E-02	0.0003	.1559E-02 .6934E-08
226	0.00	0.000	0.007	0.1923	1.2497	0.000	.1552E-02	0.0003	.1553E-02 .6934E-08
227	0.00	0.000	0.007	0.1919	1.2435	0.000	.1546E-02	0.0003	.1547E-02 .6933E-08
228	0.00	0.000	0.007	0.1915	1.2374	0.000	.1540E-02	0.0003	.1541E-02 .6933E-08

229	0.00	0.000	0.007	0.1911	1.2312	0.000	.1534E-02	0.0003	.1535E-02
.6932E-08									
230	0.00	0.000	0.007	0.1907	1.2251	0.000	.1528E-02	0.0003	.1529E-02
.6932E-08									
231	0.35	0.000	0.013	0.2094	1.2191	0.000	.1522E-02	0.0003	.1523E-02
.6931E-08									
232	0.00	0.000	0.304	0.1926	1.2130	0.000	.1516E-02	0.0003	.1517E-02
.6931E-08									
233	0.00	0.000	0.007	0.1922	1.2070	0.000	.1510E-02	0.0003	.1511E-02
.6930E-08									
234	0.00	0.000	0.007	0.1918	1.2010	0.000	.1504E-02	0.0003	.1505E-02
.6930E-08									
235	0.00	0.000	0.007	0.1914	1.1950	0.000	.1498E-02	0.0003	.1499E-02
.6929E-08									
236	0.68	0.000	0.013	0.2285	1.1890	0.000	.1492E-02	0.0003	.1493E-02
.6929E-08									
237	0.05	0.000	0.286	0.2154	1.1831	0.000	.1487E-02	0.0003	.1487E-02
.6929E-08									
238	1.86	0.000	0.220	0.3065	1.1772	0.000	.1481E-02	0.0003	.1482E-02
.6928E-08									
239	0.08	0.000	0.165	0.2968	1.2081	0.000	.1511E-02	0.0003	.1507E-02
.6930E-08									
240	0.49	0.000	0.272	0.2977	1.8601	0.000	.2124E-02	0.0004	.2037E-02
.6969E-08									
241	0.00	0.000	0.271	0.2760	2.4772	0.000	.2676E-02	0.0005	.2588E-02
.7009E-08									
242	0.00	0.000	0.235	0.2569	2.9653	0.000	.3097E-02	0.0006	.3027E-02
.7041E-08									
243	0.00	0.000	0.268	0.2395	3.2752	0.000	.3359E-02	0.0006	.3315E-02
.7061E-08									
244	2.84	0.000	0.229	0.3804	3.3886	0.000	.3455E-02	0.0006	.3436E-02
.7070E-08									
245	0.74	0.000	0.180	0.3784	7.9604	0.000	.7148E-02	0.0013	.6623E-02
.7282E-08									
246	2.29	0.000	0.166	0.4730	17.7359	0.000	.1516E-01	0.0026	.1396E-01
.7740E-08									
247	0.00	0.000	0.281	0.4730	23.9998	0.000	.2055E-01	0.0037	.1965E-01
.8084E-08									
248	0.00	0.000	0.277	0.4623	23.7017	0.000	.2028E-01	0.0038	.2022E-01
.8120E-08									
249	0.00	0.000	0.270	0.4462	22.8306	0.000	.1951E-01	0.0037	.1961E-01
.8084E-08									
250	0.00	0.000	0.284	0.4294	21.6589	0.000	.1848E-01	0.0035	.1864E-01
.8026E-08									
251	0.00	0.000	0.272	0.4133	20.6803	0.000	.1763E-01	0.0034	.1777E-01
.7975E-08									
252	0.00	0.000	0.195	0.4015	20.0608	0.000	.1709E-01	0.0033	.1719E-01
.7940E-08									
253	0.00	0.000	0.221	0.3883	19.5181	0.000	.1663E-01	0.0032	.1670E-01
.7911E-08									
254	0.00	0.000	0.201	0.3763	18.9003	0.000	.1610E-01	0.0031	.1618E-01
.7880E-08									
255	0.00	0.000	0.083	0.3708	18.3265	0.000	.1561E-01	0.0030	.1569E-01
.7850E-08									
256	0.00	0.000	0.064	0.3664	17.9935	0.000	.1533E-01	0.0029	.1538E-01
.7832E-08									
257	0.30	0.000	0.060	0.3789	17.8425	0.000	.1520E-01	0.0029	.1523E-01
.7822E-08									
258	0.00	0.000	0.047	0.3754	17.7174	0.000	.1510E-01	0.0029	.1512E-01
.7816E-08									
259	0.00	0.000	0.043	0.3722	17.6188	0.000	.1501E-01	0.0028	.1503E-01
.7810E-08									
260	0.00	0.000	0.039	0.3692	17.5169	0.000	.1493E-01	0.0028	.1494E-01
.7805E-08									
261	0.00	0.000	0.037	0.3663	17.4149	0.000	.1484E-01	0.0028	.1486E-01
.7800E-08									
262	0.00	0.000	0.034	0.3636	17.3150	0.000	.1476E-01	0.0028	.1477E-01
.7795E-08									
263	0.00	0.000	0.033	0.3610	17.2175	0.000	.1468E-01	0.0028	.1469E-01
.7790E-08									

264	0.00	0.000	0.031	0.3585	17.1220	0.000	.1460E-01	0.0028	.1461E-01
.7785E-08									
265	0.00	0.000	0.030	0.3560	17.0251	0.000	.1452E-01	0.0027	.1453E-01
.7780E-08									
266	0.00	0.000	0.028	0.3536	16.9293	0.000	.1444E-01	0.0027	.1445E-01
.7775E-08									
267	0.00	0.000	0.027	0.3513	16.8354	0.000	.1436E-01	0.0027	.1437E-01
.7770E-08									
268	0.00	0.000	0.026	0.3490	16.7432	0.000	.1428E-01	0.0027	.1429E-01
.7766E-08									
269	0.00	0.000	0.025	0.3468	16.6527	0.000	.1420E-01	0.0027	.1422E-01
.7761E-08									
270	0.00	0.000	0.022	0.3449	16.5675	0.000	.1413E-01	0.0027	.1414E-01
.7757E-08									
271	0.00	0.000	0.024	0.3427	16.4816	0.000	.1406E-01	0.0027	.1407E-01
.7752E-08									
272	0.00	0.000	0.023	0.3407	16.3947	0.000	.1399E-01	0.0026	.1400E-01
.7748E-08									
273	0.00	0.000	0.023	0.3386	16.3089	0.000	.1392E-01	0.0026	.1393E-01
.7744E-08									
274	0.07	0.000	0.028	0.3402	16.2241	0.000	.1385E-01	0.0026	.1386E-01
.7739E-08									
275	0.17	0.000	0.028	0.3473	16.1404	0.000	.1378E-01	0.0026	.1379E-01
.7735E-08									
276	0.17	0.000	0.027	0.3545	16.0576	0.000	.1371E-01	0.0026	.1372E-01
.7731E-08									
277	0.04	0.000	0.027	0.3545	15.9756	0.000	.1364E-01	0.0026	.1365E-01
.7727E-08									
278	0.00	0.000	0.020	0.3526	15.8946	0.000	.1357E-01	0.0026	.1358E-01
.7723E-08									
279	0.00	0.000	0.020	0.3507	15.8143	0.000	.1350E-01	0.0026	.1352E-01
.7719E-08									
280	0.00	0.000	0.019	0.3489	15.7348	0.000	.1344E-01	0.0025	.1345E-01
.7714E-08									
281	0.00	0.000	0.019	0.3471	15.6561	0.000	.1337E-01	0.0025	.1338E-01
.7710E-08									
282	0.00	0.000	0.019	0.3453	15.5781	0.000	.1331E-01	0.0025	.1332E-01
.7707E-08									
283	0.00	0.000	0.018	0.3436	15.5007	0.000	.1324E-01	0.0025	.1326E-01
.7703E-08									
284	0.00	0.000	0.018	0.3418	15.4241	0.000	.1318E-01	0.0025	.1319E-01
.7699E-08									
285	0.00	0.000	0.018	0.3401	15.3480	0.000	.1312E-01	0.0025	.1313E-01
.7695E-08									
286	0.00	0.000	0.018	0.3384	15.2726	0.000	.1306E-01	0.0025	.1307E-01
.7691E-08									
287	0.00	0.000	0.017	0.3367	15.0547	0.000	.1288E-01	0.0024	.1290E-01
.7681E-08									
288	0.00	0.000	0.017	0.3351	14.9868	0.000	.1282E-01	0.0024	.1283E-01
.7677E-08									
289	0.00	0.000	0.017	0.3334	14.9662	0.000	.1280E-01	0.0024	.1281E-01
.7675E-08									
290	0.00	0.000	0.017	0.3318	14.9391	0.000	.1278E-01	0.0024	.1278E-01
.7674E-08									
291	0.00	0.000	0.016	0.3302	14.9023	0.000	.1275E-01	0.0024	.1276E-01
.7672E-08									
292	0.00	0.000	0.016	0.3286	14.8422	0.000	.1270E-01	0.0024	.1271E-01
.7669E-08									
293	0.00	0.000	0.016	0.3270	14.7803	0.000	.1265E-01	0.0024	.1266E-01
.7666E-08									
294	0.00	0.000	0.016	0.3254	14.7187	0.000	.1260E-01	0.0024	.1261E-01
.7663E-08									
295	0.00	0.000	0.016	0.3238	14.6574	0.000	.1255E-01	0.0024	.1256E-01
.7660E-08									
296	0.00	0.000	0.015	0.3223	14.5965	0.000	.1250E-01	0.0024	.1251E-01
.7657E-08									
297	0.00	0.000	0.015	0.3207	14.5360	0.000	.1245E-01	0.0024	.1246E-01
.7654E-08									
298	0.00	0.000	0.015	0.3192	14.4757	0.000	.1240E-01	0.0023	.1241E-01
.7651E-08									

299	0.00	0.000	0.015	0.3177	14.4158	0.000	.1235E-01	0.0023	.1236E-01
.7648E-08									
300	0.00	0.000	0.015	0.3162	14.3561	0.000	.1230E-01	0.0023	.1231E-01
.7644E-08									
301	0.00	0.000	0.015	0.3147	14.2968	0.000	.1225E-01	0.0023	.1226E-01
.7641E-08									
302	0.00	0.000	0.014	0.3132	14.2378	0.000	.1220E-01	0.0023	.1221E-01
.7638E-08									
303	0.00	0.000	0.014	0.3118	14.1791	0.000	.1216E-01	0.0023	.1216E-01
.7636E-08									
304	0.00	0.000	0.014	0.3103	14.1207	0.000	.1211E-01	0.0023	.1212E-01
.7633E-08									
305	0.00	0.000	0.014	0.3089	14.0625	0.000	.1206E-01	0.0023	.1207E-01
.7630E-08									
306	0.00	0.000	0.014	0.3074	14.0047	0.000	.1201E-01	0.0023	.1202E-01
.7627E-08									
307	0.00	0.000	0.014	0.3060	13.9471	0.000	.1197E-01	0.0023	.1197E-01
.7624E-08									
308	0.00	0.000	0.014	0.3046	13.8898	0.000	.1192E-01	0.0023	.1193E-01
.7621E-08									
309	0.00	0.000	0.013	0.3032	13.8328	0.000	.1187E-01	0.0022	.1188E-01
.7618E-08									
310	0.00	0.000	0.012	0.3019	13.7805	0.000	.1183E-01	0.0022	.1184E-01
.7615E-08									
311	0.00	0.000	0.013	0.3005	13.7267	0.000	.1179E-01	0.0022	.1179E-01
.7613E-08									
312	0.00	0.000	0.013	0.2991	13.6704	0.000	.1174E-01	0.0022	.1175E-01
.7610E-08									
313	0.00	0.000	0.013	0.2977	13.6145	0.000	.1169E-01	0.0022	.1170E-01
.7607E-08									
314	0.00	0.000	0.013	0.2964	13.5587	0.000	.1165E-01	0.0022	.1166E-01
.7604E-08									
315	0.00	0.000	0.013	0.2950	13.5033	0.000	.1160E-01	0.0022	.1161E-01
.7601E-08									
316	0.00	0.000	0.013	0.2937	13.4481	0.000	.1156E-01	0.0022	.1157E-01
.7599E-08									
317	0.00	0.000	0.013	0.2923	13.3932	0.000	.1151E-01	0.0022	.1152E-01
.7596E-08									
318	0.00	0.000	0.012	0.2910	13.3385	0.000	.1147E-01	0.0022	.1148E-01
.7593E-08									
319	0.33	0.000	0.016	0.3078	13.2840	0.000	.1142E-01	0.0022	.1143E-01
.7590E-08									
320	0.00	0.000	0.012	0.3065	13.2298	0.000	.1138E-01	0.0022	.1139E-01
.7587E-08									
321	0.00	0.000	0.012	0.3052	13.1760	0.000	.1134E-01	0.0021	.1134E-01
.7585E-08									
322	0.20	0.000	0.016	0.3148	13.1243	0.000	.1129E-01	0.0021	.1130E-01
.7582E-08									
323	0.00	0.000	0.012	0.3135	13.0708	0.000	.1125E-01	0.0021	.1126E-01
.7579E-08									
324	0.00	0.000	0.012	0.3122	13.0175	0.000	.1121E-01	0.0021	.1121E-01
.7577E-08									
325	0.11	0.000	0.015	0.3168	12.9645	0.000	.1116E-01	0.0021	.1117E-01
.7574E-08									
326	0.00	0.000	0.012	0.3155	12.9117	0.000	.1112E-01	0.0021	.1113E-01
.7571E-08									
327	0.00	0.000	0.012	0.3143	12.8591	0.000	.1108E-01	0.0021	.1109E-01
.7569E-08									
328	0.00	0.000	0.012	0.3130	12.8068	0.000	.1104E-01	0.0021	.1104E-01
.7566E-08									
329	0.00	0.000	0.012	0.3118	12.7547	0.000	.1099E-01	0.0021	.1100E-01
.7563E-08									
330	0.00	0.000	0.011	0.3105	12.7028	0.000	.1095E-01	0.0021	.1096E-01
.7561E-08									
331	0.00	0.000	0.011	0.3093	12.6511	0.000	.1091E-01	0.0021	.1092E-01
.7558E-08									
332	0.00	0.000	0.011	0.3080	12.5996	0.000	.1087E-01	0.0021	.1087E-01
.7556E-08									
333	0.00	0.000	0.011	0.3068	12.5484	0.000	.1083E-01	0.0020	.1083E-01
.7553E-08									

334	0.00	0.000	0.011	0.3056	12.4974	0.000	.1079E-01	0.0020	.1079E-01
.7550E-08									
335	0.00	0.000	0.011	0.3044	12.4466	0.000	.1074E-01	0.0020	.1075E-01
.7548E-08									
336	0.00	0.000	0.011	0.3032	12.3962	0.000	.1070E-01	0.0020	.1071E-01
.7545E-08									
337	0.00	0.000	0.011	0.3020	12.3462	0.000	.1066E-01	0.0020	.1067E-01
.7543E-08									
338	0.00	0.000	0.011	0.3008	12.2963	0.000	.1062E-01	0.0020	.1063E-01
.7540E-08									
339	0.00	0.000	0.011	0.2996	12.2470	0.000	.1058E-01	0.0020	.1059E-01
.7538E-08									
340 *	0.00	0.000	0.011	0.2984	12.1979	0.000	.1054E-01	0.0020	.1055E-01
.7535E-08									
341 *	0.00	0.000	0.011	0.2972	12.0402	0.000	.1042E-01	0.0020	.1043E-01
.7528E-08									
342	0.00	0.000	0.011	0.2961	11.9920	0.000	.1038E-01	0.0020	.1038E-01
.7525E-08									
343 *	0.00	0.000	0.011	0.2949	11.9800	0.000	.1037E-01	0.0020	.1037E-01
.7524E-08									
344	0.00	0.000	0.011	0.2937	11.9637	0.000	.1035E-01	0.0020	.1036E-01
.7523E-08									
345	0.00	0.000	0.010	0.2926	11.9441	0.000	.1034E-01	0.0020	.1034E-01
.7522E-08									
346	0.00	0.000	0.010	0.2914	11.9080	0.000	.1031E-01	0.0020	.1031E-01
.7520E-08									
347	0.00	0.000	0.010	0.2903	11.8633	0.000	.1027E-01	0.0019	.1028E-01
.7518E-08									
348	0.00	0.000	0.010	0.2891	11.8188	0.000	.1024E-01	0.0019	.1024E-01
.7516E-08									
349	0.00	0.000	0.010	0.2880	11.7745	0.000	.1020E-01	0.0019	.1021E-01
.7514E-08									
350	0.00	0.000	0.010	0.2869	11.7303	0.000	.1016E-01	0.0019	.1017E-01
.7512E-08									
351	0.00	0.000	0.010	0.2857	11.6863	0.000	.1013E-01	0.0019	.1013E-01
.7509E-08									
352	0.00	0.000	0.010	0.2846	11.6424	0.000	.1009E-01	0.0019	.1010E-01
.7507E-08									
353	0.00	0.000	0.010	0.2835	11.5987	0.000	.1006E-01	0.0019	.1006E-01
.7505E-08									
354	0.00	0.000	0.010	0.2824	11.5552	0.000	.1002E-01	0.0019	.1003E-01
.7503E-08									
355	0.01	0.000	0.012	0.2817	11.5118	0.000	.9989E-02	0.0019	.9994E-02
.7500E-08									
356	0.00	0.000	0.010	0.2806	11.4709	0.000	.9956E-02	0.0019	.9961E-02
.7498E-08									
357	0.00	0.000	0.010	0.2795	11.4287	0.000	.9922E-02	0.0019	.9927E-02
.7496E-08									
358	0.00	0.000	0.010	0.2784	11.3893	0.000	.9890E-02	0.0019	.9895E-02
.7494E-08									
359	0.00	0.000	0.010	0.2773	11.3562	0.000	.9863E-02	0.0019	.9868E-02
.7492E-08									
360	0.00	0.000	0.010	0.2762	11.3233	0.000	.9837E-02	0.0019	.9841E-02
.7491E-08									
361	0.05	0.000	0.012	0.2778	11.2869	0.000	.9808E-02	0.0019	.9812E-02
.7489E-08									
362	0.00	0.000	0.010	0.2767	11.2445	0.000	.9774E-02	0.0018	.9779E-02
.7487E-08									
363	0.17	0.000	0.012	0.2849	11.2022	0.000	.9740E-02	0.0018	.9745E-02
.7485E-08									
364	0.04	0.000	0.012	0.2860	11.1601	0.000	.9706E-02	0.0018	.9711E-02
.7483E-08									
365	0.17	0.000	0.012	0.2942	11.1182	0.000	.9672E-02	0.0018	.9677E-02
.7480E-08									

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MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.11	0.27	0.02	0.00	0.47	1.12
	0.19	4.33	6.17	0.45	0.64	0.44
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.853	0.621	0.438	0.330	0.305	0.260
	0.230	2.482	3.276	0.560	0.382	0.329
PERCOLATION/LEAKAGE THROUGH	0.1024	0.0836	0.0837	0.0728	0.0674	0.0584
LAYER 2	0.0538	0.0532	0.4500	0.4000	0.3423	0.3153
LATERAL DRAINAGE COLLECTED	0.1024	0.0837	0.0837	0.0728	0.0674	0.0584
FROM LAYER 3	0.0538	0.0529	0.4483	0.4003	0.3425	0.3155
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	3.207	2.838	2.504	2.192	1.913	1.664
TOP OF LAYER 2	1.441	1.431	17.549	15.087	13.266	11.739
STD. DEVIATION OF DAILY	0.120	0.098	0.098	0.085	0.079	0.068
HEAD ON TOP OF LAYER 2	0.063	0.515	3.928	0.639	0.475	0.393
AVERAGE DAILY HEAD ON	0.001	0.001	0.001	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.003	0.002	0.002	0.002
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.001	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.21	13751145.785	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	10.067	8539780.929	62.10
PERC./LEAKAGE THROUGH LAYER 2	2.082851	1766908.789	12.85
AVG. HEAD ON TOP OF LAYER 2	6.2358		
DRAINAGE COLLECTED FROM LAYER 3	2.0819	1766071.959	12.84
PERC./LEAKAGE THROUGH LAYER 5	0.000003	2.233	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0011		
CHANGE IN WATER STORAGE	4.061	3445290.871	25.05

SOIL WATER AT START OF YEAR	5.064	4296238.546	
SOIL WATER AT END OF YEAR	9.126	7741529.417	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.207	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

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DAILY OUTPUT FOR YEAR 4

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.20	0.000	0.012	0.3041	11.0764	0.000	.9638E-02	0.0018	.9644E-02	.7478E-08
2			0.00	0.000	0.009	0.3031	11.0347	0.000	.9605E-02	0.0018	.9610E-02	.7476E-08
3			0.00	0.000	0.009	0.3020	10.9932	0.000	.9572E-02	0.0018	.9577E-02	.7474E-08
4			0.00	0.000	0.009	0.3010	10.9518	0.000	.9538E-02	0.0018	.9544E-02	.7472E-08
5			0.00	0.000	0.009	0.2999	10.9106	0.000	.9505E-02	0.0018	.9510E-02	.7470E-08
6			0.00	0.000	0.009	0.2989	10.8695	0.000	.9472E-02	0.0018	.9477E-02	.7468E-08
7			0.00	0.000	0.009	0.2979	10.8296	0.000	.9440E-02	0.0018	.9445E-02	.7466E-08
8			0.09	0.000	0.011	0.3017	10.7904	0.000	.9409E-02	0.0018	.9414E-02	.7464E-08
9			0.06	0.000	0.011	0.3039	10.7504	0.000	.9377E-02	0.0018	.9382E-02	.7462E-08
10			0.61	0.000	0.011	0.3366	10.7114	0.000	.9345E-02	0.0018	.9350E-02	.7460E-08
11			0.19	0.000	0.112	0.3404	11.0681	0.000	.9632E-02	0.0018	.9592E-02	.7475E-08
12			0.05	0.000	0.105	0.3368	11.6178	0.000	.1007E-01	0.0019	.1001E-01	.7501E-08
13			0.00	0.000	0.105	0.3304	11.6393	0.000	.1009E-01	0.0019	.1008E-01	.7506E-08
14			0.00	0.000	0.115	0.3235	11.6955	0.000	.1014E-01	0.0019	.1013E-01	.7509E-08
15			0.00	0.000	0.108	0.3169	11.7879	0.000	.1021E-01	0.0019	.1020E-01	.7513E-08

16	0.00	0.000	0.099	0.3108	11.8301	0.000	.1025E-01	0.0019	.1024E-01
.7516E-08									
17	0.00	0.000	0.096	0.3049	11.8942	0.000	.1030E-01	0.0019	.1029E-01
.7519E-08									
18 *	0.00	0.000	0.083	0.2997	11.9742	0.000	.1036E-01	0.0020	.1035E-01
.7523E-08									
19	0.10	0.000	0.066	0.3010	12.4886	0.000	.1078E-01	0.0020	.1072E-01
.7546E-08									
20	0.43	0.000	0.056	0.3212	12.4160	0.000	.1072E-01	0.0020	.1072E-01
.7546E-08									
21	0.00	0.000	0.115	0.3142	12.3189	0.000	.1064E-01	0.0020	.1065E-01
.7542E-08									
22	0.00	0.000	0.100	0.3081	12.1990	0.000	.1054E-01	0.0020	.1056E-01
.7536E-08									
23	0.00	0.000	0.112	0.3012	11.9807	0.000	.1037E-01	0.0020	.1039E-01
.7526E-08									
24	0.00	0.000	0.083	0.2960	11.9643	0.000	.1035E-01	0.0020	.1036E-01
.7523E-08									
25	0.00	0.000	0.064	0.2919	11.9085	0.000	.1031E-01	0.0020	.1032E-01
.7521E-08									
26	0.00	0.000	0.054	0.2884	11.8464	0.000	.1026E-01	0.0019	.1027E-01
.7518E-08									
27	0.00	0.000	0.047	0.2852	11.7876	0.000	.1021E-01	0.0019	.1022E-01
.7515E-08									
28	0.00	0.000	0.043	0.2822	11.7310	0.000	.1017E-01	0.0019	.1017E-01
.7512E-08									
29	0.00	0.000	0.039	0.2795	11.6760	0.000	.1012E-01	0.0019	.1013E-01
.7509E-08									
30	0.00	0.000	0.037	0.2769	11.6223	0.000	.1008E-01	0.0019	.1008E-01
.7506E-08									
31	0.00	0.000	0.034	0.2744	11.5697	0.000	.1004E-01	0.0019	.1004E-01
.7503E-08									
32	0.00	0.000	0.033	0.2721	11.5179	0.000	.9994E-02	0.0019	.1000E-01
.7501E-08									
33	0.00	0.000	0.031	0.2698	11.4670	0.000	.9953E-02	0.0019	.9959E-02
.7498E-08									
34	0.00	0.000	0.030	0.2676	11.4167	0.000	.9912E-02	0.0019	.9919E-02
.7496E-08									
35	0.00	0.000	0.028	0.2655	11.3670	0.000	.9872E-02	0.0019	.9879E-02
.7493E-08									
36	0.00	0.000	0.027	0.2634	11.3180	0.000	.9833E-02	0.0019	.9839E-02
.7491E-08									
37	0.00	0.000	0.026	0.2614	11.2694	0.000	.9794E-02	0.0019	.9800E-02
.7488E-08									
38	0.00	0.000	0.025	0.2594	11.2213	0.000	.9755E-02	0.0018	.9761E-02
.7486E-08									
39	0.00	0.000	0.025	0.2575	11.1737	0.000	.9717E-02	0.0018	.9723E-02
.7483E-08									
40	0.00	0.000	0.024	0.2556	11.1265	0.000	.9679E-02	0.0018	.9685E-02
.7481E-08									
41	0.00	0.000	0.023	0.2538	11.0796	0.000	.9641E-02	0.0018	.9647E-02
.7479E-08									
42	0.00	0.000	0.023	0.2520	11.0332	0.000	.9604E-02	0.0018	.9610E-02
.7476E-08									
43	0.00	0.000	0.022	0.2503	10.9871	0.000	.9567E-02	0.0018	.9572E-02
.7474E-08									
44	0.00	0.000	0.022	0.2485	10.9413	0.000	.9530E-02	0.0018	.9536E-02
.7472E-08									
45	0.00	0.000	0.021	0.2468	10.8959	0.000	.9493E-02	0.0018	.9499E-02
.7469E-08									
46	0.00	0.000	0.021	0.2451	10.8508	0.000	.9457E-02	0.0018	.9463E-02
.7467E-08									
47	0.00	0.000	0.020	0.2435	10.8059	0.000	.9421E-02	0.0018	.9427E-02
.7465E-08									
48	0.00	0.000	0.020	0.2419	10.7614	0.000	.9385E-02	0.0018	.9391E-02
.7462E-08									
49	0.00	0.000	0.019	0.2403	10.7172	0.000	.9350E-02	0.0018	.9356E-02
.7460E-08									
50	0.00	0.000	0.019	0.2387	10.6732	0.000	.9315E-02	0.0018	.9320E-02
.7458E-08									

51	0.00	0.000	0.019	0.2371	10.6295	0.000	.9280E-02	0.0018	.9285E-02
.7456E-08									
52	0.00	0.000	0.018	0.2356	10.5860	0.000	.9245E-02	0.0017	.9250E-02
.7453E-08									
53	0.00	0.000	0.018	0.2341	10.5428	0.000	.9210E-02	0.0017	.9216E-02
.7451E-08									
54	0.00	0.000	0.018	0.2326	10.4998	0.000	.9176E-02	0.0017	.9181E-02
.7449E-08									
55	0.00	0.000	0.018	0.2311	10.4571	0.000	.9141E-02	0.0017	.9147E-02
.7447E-08									
56	0.39	0.000	0.019	0.2512	10.4146	0.000	.9107E-02	0.0017	.9113E-02
.7445E-08									
57	0.27	0.000	0.019	0.2647	10.3723	0.000	.9073E-02	0.0017	.9079E-02
.7443E-08									
58	0.00	0.000	0.017	0.2632	10.3302	0.000	.9040E-02	0.0017	.9045E-02
.7440E-08									
59	0.00	0.000	0.017	0.2618	10.2884	0.000	.9006E-02	0.0017	.9012E-02
.7438E-08									
60	0.00	0.000	0.016	0.2604	10.2468	0.000	.8973E-02	0.0017	.8978E-02
.7436E-08									
61	0.00	0.000	0.016	0.2590	10.2054	0.000	.8940E-02	0.0017	.8945E-02
.7434E-08									
62	0.00	0.000	0.016	0.2576	10.1641	0.000	.8907E-02	0.0017	.8912E-02
.7432E-08									
63	0.00	0.000	0.016	0.2562	10.1231	0.000	.8874E-02	0.0017	.8879E-02
.7430E-08									
64	0.00	0.000	0.016	0.2549	10.0823	0.000	.8841E-02	0.0017	.8846E-02
.7428E-08									
65	0.00	0.000	0.015	0.2535	10.0417	0.000	.8809E-02	0.0017	.8814E-02
.7426E-08									
66	0.00	0.000	0.015	0.2522	10.0013	0.000	.8776E-02	0.0017	.8782E-02
.7424E-08									
67	0.00	0.000	0.015	0.2509	9.9611	0.000	.8744E-02	0.0017	.8749E-02
.7422E-08									
68	0.00	0.000	0.015	0.2496	9.9210	0.000	.8712E-02	0.0016	.8717E-02
.7420E-08									
69	0.00	0.000	0.015	0.2483	9.8812	0.000	.8680E-02	0.0016	.8686E-02
.7418E-08									
70	0.00	0.000	0.015	0.2470	9.8415	0.000	.8649E-02	0.0016	.8654E-02
.7416E-08									
71	0.00	0.000	0.014	0.2457	9.8020	0.000	.8617E-02	0.0016	.8622E-02
.7414E-08									
72	0.00	0.000	0.014	0.2444	9.7627	0.000	.8586E-02	0.0016	.8591E-02
.7412E-08									
73	0.00	0.000	0.014	0.2432	9.7236	0.000	.8554E-02	0.0016	.8559E-02
.7410E-08									
74	0.00	0.000	0.014	0.2419	9.6846	0.000	.8523E-02	0.0016	.8528E-02
.7408E-08									
75	0.00	0.000	0.014	0.2407	9.6458	0.000	.8492E-02	0.0016	.8497E-02
.7406E-08									
76	0.00	0.000	0.014	0.2395	9.6072	0.000	.8461E-02	0.0016	.8466E-02
.7404E-08									
77	0.00	0.000	0.014	0.2382	9.5687	0.000	.8431E-02	0.0016	.8436E-02
.7402E-08									
78	0.00	0.000	0.013	0.2370	9.5304	0.000	.8400E-02	0.0016	.8405E-02
.7400E-08									
79	0.00	0.000	0.013	0.2358	9.4923	0.000	.8370E-02	0.0016	.8375E-02
.7398E-08									
80	0.00	0.000	0.013	0.2346	9.4543	0.000	.8339E-02	0.0016	.8344E-02
.7396E-08									
81	0.00	0.000	0.013	0.2334	9.4165	0.000	.8309E-02	0.0016	.8314E-02
.7394E-08									
82	0.00	0.000	0.013	0.2322	9.3789	0.000	.8279E-02	0.0016	.8284E-02
.7392E-08									
83	0.00	0.000	0.013	0.2311	9.3414	0.000	.8249E-02	0.0016	.8254E-02
.7390E-08									
84	0.00	0.000	0.013	0.2299	9.3041	0.000	.8220E-02	0.0016	.8224E-02
.7388E-08									
85	0.00	0.000	0.013	0.2287	9.2669	0.000	.8190E-02	0.0015	.8195E-02
.7386E-08									

86	0.00	0.000	0.013	0.2276	9.2299	0.000	.8160E-02	0.0015	.8165E-02
.7384E-08									
87	0.00	0.000	0.012	0.2264	9.1931	0.000	.8131E-02	0.0015	.8136E-02
.7382E-08									
88	0.00	0.000	0.012	0.2253	9.1566	0.000	.8102E-02	0.0015	.8107E-02
.7381E-08									
89	0.00	0.000	0.012	0.2242	9.1203	0.000	.8073E-02	0.0015	.8078E-02
.7379E-08									
90	0.00	0.000	0.012	0.2231	8.9990	0.000	.7976E-02	0.0015	.7990E-02
.7373E-08									
91	0.00	0.000	0.012	0.2219	8.9946	0.000	.7973E-02	0.0015	.7975E-02
.7372E-08									
92	0.00	0.000	0.012	0.2208	8.9867	0.000	.7966E-02	0.0015	.7968E-02
.7372E-08									
93	0.00	0.000	0.012	0.2197	8.9761	0.000	.7958E-02	0.0015	.7959E-02
.7371E-08									
94	0.00	0.000	0.012	0.2186	8.9633	0.000	.7948E-02	0.0015	.7949E-02
.7370E-08									
95	0.00	0.000	0.012	0.2175	8.9486	0.000	.7936E-02	0.0015	.7938E-02
.7370E-08									
96	0.00	0.000	0.012	0.2164	8.9325	0.000	.7923E-02	0.0015	.7925E-02
.7369E-08									
97	0.00	0.000	0.012	0.2153	8.9150	0.000	.7909E-02	0.0015	.7911E-02
.7368E-08									
98	0.00	0.000	0.011	0.2143	8.8876	0.000	.7887E-02	0.0015	.7891E-02
.7367E-08									
99	0.00	0.000	0.011	0.2132	8.8548	0.000	.7861E-02	0.0015	.7865E-02
.7365E-08									
100	0.00	0.000	0.011	0.2121	8.8220	0.000	.7835E-02	0.0015	.7839E-02
.7363E-08									
101	0.00	0.000	0.011	0.2111	8.7894	0.000	.7809E-02	0.0015	.7813E-02
.7362E-08									
102	0.00	0.000	0.011	0.2100	8.7569	0.000	.7783E-02	0.0015	.7787E-02
.7360E-08									
103	0.15	0.000	0.013	0.2172	8.7245	0.000	.7757E-02	0.0015	.7762E-02
.7358E-08									
104	0.11	0.000	0.013	0.2222	8.6922	0.000	.7732E-02	0.0015	.7736E-02
.7357E-08									
105	0.01	0.000	0.013	0.2216	8.6621	0.000	.7708E-02	0.0015	.7712E-02
.7355E-08									
106	0.00	0.000	0.011	0.2205	8.6307	0.000	.7683E-02	0.0015	.7687E-02
.7354E-08									
107	0.00	0.000	0.011	0.2195	8.5987	0.000	.7657E-02	0.0014	.7661E-02
.7352E-08									
108	0.00	0.000	0.011	0.2185	8.5674	0.000	.7632E-02	0.0014	.7636E-02
.7350E-08									
109	0.00	0.000	0.011	0.2175	8.5430	0.000	.7613E-02	0.0014	.7616E-02
.7349E-08									
110	0.00	0.000	0.011	0.2164	8.5216	0.000	.7596E-02	0.0014	.7598E-02
.7348E-08									
111	0.00	0.000	0.011	0.2154	8.5009	0.000	.7579E-02	0.0014	.7582E-02
.7347E-08									
112	0.00	0.000	0.011	0.2144	8.4804	0.000	.7563E-02	0.0014	.7566E-02
.7346E-08									
113	0.00	0.000	0.011	0.2134	8.4599	0.000	.7547E-02	0.0014	.7549E-02
.7345E-08									
114	0.00	0.000	0.010	0.2124	8.4351	0.000	.7527E-02	0.0014	.7530E-02
.7343E-08									
115	0.00	0.000	0.010	0.2114	8.4039	0.000	.7502E-02	0.0014	.7506E-02
.7342E-08									
116	0.00	0.000	0.010	0.2104	8.3727	0.000	.7477E-02	0.0014	.7481E-02
.7340E-08									
117	0.00	0.000	0.010	0.2094	8.3416	0.000	.7452E-02	0.0014	.7456E-02
.7339E-08									
118	0.00	0.000	0.010	0.2084	8.3107	0.000	.7428E-02	0.0014	.7432E-02
.7337E-08									
119	0.00	0.000	0.010	0.2075	8.2798	0.000	.7403E-02	0.0014	.7407E-02
.7335E-08									
120	0.00	0.000	0.010	0.2065	8.2490	0.000	.7379E-02	0.0014	.7383E-02
.7334E-08									

121	0.00	0.000	0.010	0.2055	8.2184	0.000	.7354E-02	0.0014	.7358E-02
.7332E-08									
122	0.00	0.000	0.010	0.2046	8.1879	0.000	.7330E-02	0.0014	.7334E-02
.7331E-08									
123	0.00	0.000	0.010	0.2036	8.1574	0.000	.7306E-02	0.0014	.7310E-02
.7329E-08									
124	0.00	0.000	0.010	0.2026	8.1271	0.000	.7282E-02	0.0014	.7285E-02
.7328E-08									
125	0.00	0.000	0.010	0.2017	8.0968	0.000	.7257E-02	0.0014	.7261E-02
.7326E-08									
126	0.00	0.000	0.010	0.2007	8.0667	0.000	.7233E-02	0.0014	.7237E-02
.7324E-08									
127	0.00	0.000	0.010	0.1998	8.0367	0.000	.7210E-02	0.0014	.7213E-02
.7323E-08									
128	0.00	0.000	0.010	0.1988	8.0067	0.000	.7186E-02	0.0014	.7189E-02
.7321E-08									
129	0.00	0.000	0.010	0.1979	7.9769	0.000	.7162E-02	0.0014	.7166E-02
.7320E-08									
130	0.00	0.000	0.010	0.1970	7.9472	0.000	.7138E-02	0.0014	.7142E-02
.7318E-08									
131	0.00	0.000	0.010	0.1960	7.9175	0.000	.7115E-02	0.0013	.7118E-02
.7317E-08									
132	0.00	0.000	0.010	0.1951	7.8880	0.000	.7091E-02	0.0013	.7095E-02
.7315E-08									
133	0.00	0.000	0.010	0.1942	7.8586	0.000	.7068E-02	0.0013	.7071E-02
.7314E-08									
134	0.00	0.000	0.010	0.1933	7.8292	0.000	.7044E-02	0.0013	.7048E-02
.7312E-08									
135	0.00	0.000	0.009	0.1924	7.8000	0.000	.7021E-02	0.0013	.7025E-02
.7311E-08									
136	0.00	0.000	0.009	0.1914	7.7709	0.000	.6998E-02	0.0013	.7002E-02
.7309E-08									
137	0.00	0.000	0.009	0.1905	7.7418	0.000	.6975E-02	0.0013	.6978E-02
.7308E-08									
138	0.00	0.000	0.009	0.1896	7.7129	0.000	.6952E-02	0.0013	.6955E-02
.7306E-08									
139	0.00	0.000	0.009	0.1887	7.6840	0.000	.6929E-02	0.0013	.6932E-02
.7305E-08									
140	0.00	0.000	0.009	0.1878	7.6553	0.000	.6906E-02	0.0013	.6909E-02
.7303E-08									
141	0.00	0.000	0.009	0.1869	7.6266	0.000	.6883E-02	0.0013	.6887E-02
.7302E-08									
142	0.00	0.000	0.009	0.1860	7.5981	0.000	.6860E-02	0.0013	.6864E-02
.7300E-08									
143	0.00	0.000	0.008	0.1852	7.5714	0.000	.6839E-02	0.0013	.6842E-02
.7299E-08									
144	0.00	0.000	0.009	0.1843	7.5441	0.000	.6817E-02	0.0013	.6821E-02
.7297E-08									
145	0.00	0.000	0.009	0.1835	7.5158	0.000	.6795E-02	0.0013	.6798E-02
.7296E-08									
146	0.00	0.000	0.009	0.1826	7.4876	0.000	.6772E-02	0.0013	.6776E-02
.7294E-08									
147	0.00	0.000	0.009	0.1817	7.4595	0.000	.6750E-02	0.0013	.6753E-02
.7293E-08									
148	0.00	0.000	0.009	0.1808	7.4315	0.000	.6728E-02	0.0013	.6731E-02
.7292E-08									
149	0.00	0.000	0.009	0.1800	7.4036	0.000	.6705E-02	0.0013	.6709E-02
.7290E-08									
150	0.00	0.000	0.009	0.1791	7.3758	0.000	.6683E-02	0.0013	.6687E-02
.7289E-08									
151	0.00	0.000	0.009	0.1782	7.3481	0.000	.6661E-02	0.0013	.6665E-02
.7287E-08									
152	0.00	0.000	0.009	0.1774	7.3205	0.000	.6639E-02	0.0013	.6643E-02
.7286E-08									
153	0.00	0.000	0.009	0.1765	7.2929	0.000	.6617E-02	0.0013	.6621E-02
.7284E-08									
154	0.00	0.000	0.009	0.1757	7.2655	0.000	.6595E-02	0.0012	.6599E-02
.7283E-08									
155	0.00	0.000	0.009	0.1748	7.2381	0.000	.6573E-02	0.0012	.6577E-02
.7281E-08									

156	0.00	0.000	0.009	0.1740	7.2109	0.000	.6552E-02	0.0012	.6555E-02
.7280E-08									
157	0.00	0.000	0.009	0.1731	7.1837	0.000	.6530E-02	0.0012	.6533E-02
.7279E-08									
158	0.00	0.000	0.009	0.1723	7.1566	0.000	.6508E-02	0.0012	.6512E-02
.7277E-08									
159	0.00	0.000	0.009	0.1715	7.1296	0.000	.6487E-02	0.0012	.6490E-02
.7276E-08									
160	0.00	0.000	0.009	0.1706	7.1027	0.000	.6466E-02	0.0012	.6469E-02
.7274E-08									
161	0.00	0.000	0.009	0.1698	7.0759	0.000	.6444E-02	0.0012	.6448E-02
.7273E-08									
162	0.00	0.000	0.008	0.1690	7.0492	0.000	.6423E-02	0.0012	.6426E-02
.7272E-08									
163	0.00	0.000	0.008	0.1681	7.0226	0.000	.6402E-02	0.0012	.6405E-02
.7270E-08									
164	0.00	0.000	0.008	0.1673	6.9960	0.000	.6380E-02	0.0012	.6384E-02
.7269E-08									
165	0.00	0.000	0.008	0.1665	6.9695	0.000	.6359E-02	0.0012	.6363E-02
.7267E-08									
166	0.00	0.000	0.008	0.1657	6.9432	0.000	.6338E-02	0.0012	.6342E-02
.7266E-08									
167	0.00	0.000	0.008	0.1649	6.9169	0.000	.6317E-02	0.0012	.6321E-02
.7265E-08									
168	0.00	0.000	0.008	0.1640	6.8907	0.000	.6296E-02	0.0012	.6300E-02
.7263E-08									
169	0.00	0.000	0.008	0.1632	6.8646	0.000	.6276E-02	0.0012	.6279E-02
.7262E-08									
170	0.00	0.000	0.008	0.1624	6.8386	0.000	.6255E-02	0.0012	.6258E-02
.7260E-08									
171	0.00	0.000	0.008	0.1616	6.8126	0.000	.6234E-02	0.0012	.6237E-02
.7259E-08									
172	0.00	0.000	0.008	0.1608	6.7868	0.000	.6214E-02	0.0012	.6217E-02
.7258E-08									
173	0.00	0.000	0.008	0.1600	6.7610	0.000	.6193E-02	0.0012	.6196E-02
.7256E-08									
174	0.00	0.000	0.008	0.1592	6.7353	0.000	.6172E-02	0.0012	.6176E-02
.7255E-08									
175	0.00	0.000	0.008	0.1584	6.7097	0.000	.6152E-02	0.0012	.6155E-02
.7254E-08									
176	0.26	0.000	0.011	0.1719	6.6842	0.000	.6132E-02	0.0012	.6135E-02
.7252E-08									
177	0.00	0.000	0.008	0.1711	6.6588	0.000	.6111E-02	0.0012	.6115E-02
.7251E-08									
178	0.00	0.000	0.008	0.1703	6.6335	0.000	.6091E-02	0.0012	.6094E-02
.7250E-08									
179	0.00	0.000	0.008	0.1695	6.6082	0.000	.6071E-02	0.0011	.6074E-02
.7248E-08									
180	0.00	0.000	0.008	0.1688	6.5830	0.000	.6051E-02	0.0011	.6054E-02
.7247E-08									
181	0.00	0.000	0.008	0.1680	6.5579	0.000	.6031E-02	0.0011	.6034E-02
.7246E-08									
182	0.00	0.000	0.008	0.1672	6.5329	0.000	.6011E-02	0.0011	.6014E-02
.7244E-08									
183	0.00	0.000	0.008	0.1664	6.5080	0.000	.5991E-02	0.0011	.5994E-02
.7243E-08									
184	0.00	0.000	0.008	0.1657	6.4832	0.000	.5971E-02	0.0011	.5974E-02
.7242E-08									
185	0.00	0.000	0.008	0.1649	6.4584	0.000	.5951E-02	0.0011	.5954E-02
.7240E-08									
186	0.00	0.000	0.008	0.1641	6.4337	0.000	.5932E-02	0.0011	.5935E-02
.7239E-08									
187	0.00	0.000	0.008	0.1634	6.4091	0.000	.5912E-02	0.0011	.5915E-02
.7238E-08									
188	0.00	0.000	0.008	0.1626	6.3846	0.000	.5892E-02	0.0011	.5895E-02
.7237E-08									
189	0.00	0.000	0.008	0.1619	6.3602	0.000	.5873E-02	0.0011	.5876E-02
.7235E-08									
190	0.00	0.000	0.008	0.1611	6.3358	0.000	.5853E-02	0.0011	.5856E-02
.7234E-08									

191	0.00	0.000	0.008	0.1603	6.3115	0.000	.5834E-02	0.0011	.5837E-02
.7233E-08									
192	0.00	0.000	0.008	0.1596	6.2873	0.000	.5815E-02	0.0011	.5818E-02
.7231E-08									
193	0.00	0.000	0.008	0.1588	6.2632	0.000	.5795E-02	0.0011	.5798E-02
.7230E-08									
194	0.00	0.000	0.008	0.1581	6.2392	0.000	.5776E-02	0.0011	.5779E-02
.7229E-08									
195	0.00	0.000	0.008	0.1574	6.2152	0.000	.5757E-02	0.0011	.5760E-02
.7228E-08									
196	0.00	0.000	0.008	0.1566	6.1914	0.000	.5738E-02	0.0011	.5741E-02
.7226E-08									
197	0.00	0.000	0.008	0.1559	6.1676	0.000	.5719E-02	0.0011	.5722E-02
.7225E-08									
198	0.00	0.000	0.008	0.1551	6.1438	0.000	.5700E-02	0.0011	.5703E-02
.7224E-08									
199	0.31	0.000	0.011	0.1714	6.1202	0.000	.5681E-02	0.0011	.5684E-02
.7222E-08									
200	0.00	0.000	0.008	0.1707	6.0966	0.000	.5662E-02	0.0011	.5665E-02
.7221E-08									
201	0.16	0.000	0.011	0.1786	6.0732	0.000	.5643E-02	0.0011	.5646E-02
.7220E-08									
202	0.00	0.000	0.007	0.1779	6.0497	0.000	.5624E-02	0.0011	.5627E-02
.7219E-08									
203	0.31	0.000	0.011	0.1942	6.0264	0.000	.5606E-02	0.0011	.5609E-02
.7218E-08									
204	0.00	0.000	0.007	0.1936	5.9981	0.000	.5583E-02	0.0011	.5586E-02
.7216E-08									
205	0.00	0.000	0.007	0.1932	5.9806	0.000	.5569E-02	0.0011	.5571E-02
.7215E-08									
206	0.08	0.000	0.011	0.1970	5.9584	0.000	.5551E-02	0.0011	.5554E-02
.7214E-08									
207	0.00	0.000	0.007	0.1966	5.9363	0.000	.5533E-02	0.0010	.5536E-02
.7213E-08									
208	0.00	0.000	0.007	0.1962	5.9143	0.000	.5516E-02	0.0010	.5519E-02
.7212E-08									
209	0.00	0.000	0.007	0.1958	5.8924	0.000	.5498E-02	0.0010	.5501E-02
.7210E-08									
210	0.00	0.000	0.007	0.1954	5.8705	0.000	.5481E-02	0.0010	.5483E-02
.7209E-08									
211	0.00	0.000	0.007	0.1950	5.8487	0.000	.5463E-02	0.0010	.5466E-02
.7208E-08									
212	0.05	0.000	0.011	0.1971	5.8269	0.000	.5446E-02	0.0010	.5448E-02
.7207E-08									
213	0.00	0.000	0.007	0.1967	5.8053	0.000	.5428E-02	0.0010	.5431E-02
.7206E-08									
214	0.00	0.000	0.007	0.1963	5.7837	0.000	.5411E-02	0.0010	.5414E-02
.7205E-08									
215	0.02	0.000	0.011	0.1968	5.7621	0.000	.5394E-02	0.0010	.5396E-02
.7203E-08									
216	0.45	0.000	0.011	0.2212	5.7407	0.000	.5376E-02	0.0010	.5379E-02
.7202E-08									
217	0.16	0.000	0.011	0.2295	5.7193	0.000	.5359E-02	0.0010	.5362E-02
.7201E-08									
218	0.00	0.000	0.007	0.2291	5.6980	0.000	.5342E-02	0.0010	.5345E-02
.7200E-08									
219	0.04	0.000	0.011	0.2307	5.6767	0.000	.5325E-02	0.0010	.5328E-02
.7199E-08									
220	0.00	0.000	0.007	0.2303	5.6555	0.000	.5308E-02	0.0010	.5311E-02
.7198E-08									
221	0.00	0.000	0.007	0.2299	5.6344	0.000	.5291E-02	0.0010	.5294E-02
.7196E-08									
222	0.00	0.000	0.007	0.2295	5.6133	0.000	.5274E-02	0.0010	.5277E-02
.7195E-08									
223	0.00	0.000	0.007	0.2291	5.5924	0.000	.5257E-02	0.0010	.5260E-02
.7194E-08									
224	0.00	0.000	0.007	0.2287	5.5714	0.000	.5240E-02	0.0010	.5243E-02
.7193E-08									
225	0.00	0.000	0.007	0.2283	5.5506	0.000	.5224E-02	0.0010	.5226E-02
.7192E-08									

226	0.00	0.000	0.007	0.2279	5.5298	0.000	.5207E-02	0.0010	.5210E-02
.7191E-08									
227	0.00	0.000	0.007	0.2275	5.5091	0.000	.5190E-02	0.0010	.5193E-02
.7190E-08									
228	0.00	0.000	0.007	0.2271	5.4884	0.000	.5174E-02	0.0010	.5176E-02
.7189E-08									
229	0.48	0.000	0.011	0.2532	5.4678	0.000	.5157E-02	0.0010	.5160E-02
.7188E-08									
230	0.00	0.000	0.297	0.2367	5.4473	0.000	.5140E-02	0.0010	.5143E-02
.7186E-08									
231	2.59	0.000	0.225	0.3681	5.4269	0.000	.5124E-02	0.0010	.5127E-02
.7185E-08									
232	0.20	0.000	0.300	0.3539	9.7983	0.000	.8625E-02	0.0015	.8129E-02
.7380E-08									
233	0.00	0.000	0.297	0.3367	13.8306	0.000	.1187E-01	0.0021	.1136E-01
.7584E-08									
234	0.48	0.000	0.244	0.3491	13.7567	0.000	.1181E-01	0.0022	.1176E-01
.7611E-08									
235	0.00	0.000	0.272	0.3334	13.7040	0.000	.1177E-01	0.0022	.1177E-01
.7611E-08									
236	0.00	0.000	0.241	0.3193	13.5385	0.000	.1163E-01	0.0022	.1165E-01
.7604E-08									
237	0.00	0.000	0.296	0.3023	13.3373	0.000	.1147E-01	0.0022	.1149E-01
.7594E-08									
238	0.00	0.000	0.311	0.2844	13.0783	0.000	.1126E-01	0.0021	.1129E-01
.7581E-08									
239	0.00	0.000	0.201	0.2726	12.8427	0.000	.1107E-01	0.0021	.1110E-01
.7569E-08									
240	0.00	0.000	0.083	0.2674	12.6878	0.000	.1094E-01	0.0021	.1096E-01
.7561E-08									
241	0.00	0.000	0.064	0.2632	12.5906	0.000	.1086E-01	0.0021	.1087E-01
.7556E-08									
242	0.00	0.000	0.054	0.2597	12.3973	0.000	.1070E-01	0.0020	.1073E-01
.7546E-08									
243	0.27	0.000	0.052	0.2712	12.4700	0.000	.1076E-01	0.0020	.1076E-01
.7548E-08									
244	0.09	0.000	0.047	0.2729	12.3948	0.000	.1070E-01	0.0020	.1071E-01
.7545E-08									
245	0.13	0.000	0.044	0.2771	12.3229	0.000	.1064E-01	0.0020	.1065E-01
.7542E-08									
246	0.66	0.000	0.041	0.3109	12.2534	0.000	.1059E-01	0.0020	.1060E-01
.7538E-08									
247	0.00	0.000	0.237	0.2971	12.0838	0.000	.1045E-01	0.0020	.1047E-01
.7530E-08									
248	0.00	0.000	0.248	0.2828	11.9384	0.000	.1033E-01	0.0020	.1035E-01
.7523E-08									
249	0.00	0.000	0.241	0.2688	11.8197	0.000	.1024E-01	0.0019	.1025E-01
.7517E-08									
250	0.00	0.000	0.201	0.2571	11.6997	0.000	.1014E-01	0.0019	.1016E-01
.7511E-08									
251	0.75	0.000	0.088	0.2933	11.6053	0.000	.1006E-01	0.0019	.1008E-01
.7506E-08									
252	0.00	0.000	0.247	0.2790	11.5170	0.000	.9993E-02	0.0019	.1000E-01
.7501E-08									
253	0.00	0.000	0.237	0.2653	11.3921	0.000	.9892E-02	0.0019	.9908E-02
.7495E-08									
254	0.00	0.000	0.201	0.2536	11.2746	0.000	.9798E-02	0.0019	.9813E-02
.7489E-08									
255	0.00	0.000	0.083	0.2485	11.1808	0.000	.9722E-02	0.0018	.9735E-02
.7484E-08									
256	0.00	0.000	0.064	0.2444	11.1192	0.000	.9673E-02	0.0018	.9681E-02
.7481E-08									
257	0.34	0.000	0.059	0.2595	11.0627	0.000	.9627E-02	0.0018	.9635E-02
.7478E-08									
258	0.00	0.000	0.047	0.2563	11.0070	0.000	.9583E-02	0.0018	.9590E-02
.7475E-08									
259	0.21	0.000	0.048	0.2648	10.9534	0.000	.9540E-02	0.0018	.9546E-02
.7472E-08									
260	0.00	0.000	0.039	0.2621	10.9009	0.000	.9497E-02	0.0018	.9504E-02
.7470E-08									

261	0.00	0.000	0.037	0.2595	10.8497	0.000	.9456E-02	0.0018	.9463E-02
.7467E-08									
262	0.00	0.000	0.034	0.2571	10.7995	0.000	.9416E-02	0.0018	.9422E-02
.7464E-08									
263	0.00	0.000	0.033	0.2548	10.7502	0.000	.9376E-02	0.0018	.9383E-02
.7462E-08									
264	0.00	0.000	0.031	0.2525	10.7017	0.000	.9338E-02	0.0018	.9344E-02
.7459E-08									
265	0.00	0.000	0.030	0.2504	10.6539	0.000	.9299E-02	0.0018	.9305E-02
.7457E-08									
266	0.00	0.000	0.028	0.2483	10.6067	0.000	.9261E-02	0.0018	.9267E-02
.7455E-08									
267	0.03	0.000	0.032	0.2476	10.5601	0.000	.9224E-02	0.0017	.9230E-02
.7452E-08									
268	0.09	0.000	0.031	0.2504	10.5139	0.000	.9187E-02	0.0017	.9193E-02
.7450E-08									
269	0.32	0.000	0.031	0.2659	10.4682	0.000	.9150E-02	0.0017	.9156E-02
.7448E-08									
270	0.00	0.000	0.025	0.2641	10.4230	0.000	.9114E-02	0.0017	.9120E-02
.7445E-08									
271	0.00	0.000	0.024	0.2622	10.3782	0.000	.9078E-02	0.0017	.9084E-02
.7443E-08									
272	0.00	0.000	0.023	0.2604	10.3337	0.000	.9043E-02	0.0017	.9048E-02
.7441E-08									
273	0.00	0.000	0.023	0.2587	10.2912	0.000	.9009E-02	0.0017	.9014E-02
.7439E-08									
274	0.00	0.000	0.022	0.2569	10.2475	0.000	.8973E-02	0.0017	.8979E-02
.7436E-08									
275	0.38	0.000	0.027	0.2761	10.2041	0.000	.8939E-02	0.0017	.8944E-02
.7434E-08									
276	0.17	0.000	0.176	0.2752	10.1413	0.000	.8889E-02	0.0017	.8896E-02
.7431E-08									
277	0.00	0.000	0.177	0.2649	10.0453	0.000	.8812E-02	0.0017	.8823E-02
.7426E-08									
278	0.00	0.000	0.201	0.2533	9.9452	0.000	.8732E-02	0.0017	.8744E-02
.7421E-08									
279	0.00	0.000	0.083	0.2482	9.8557	0.000	.8660E-02	0.0016	.8672E-02
.7417E-08									
280	0.00	0.000	0.064	0.2442	9.7947	0.000	.8611E-02	0.0016	.8619E-02
.7413E-08									
281	0.00	0.000	0.054	0.2407	9.7394	0.000	.8567E-02	0.0016	.8574E-02
.7411E-08									
282	0.00	0.000	0.047	0.2376	9.6873	0.000	.8526E-02	0.0016	.8532E-02
.7408E-08									
283	0.00	0.000	0.043	0.2347	9.6374	0.000	.8486E-02	0.0016	.8492E-02
.7405E-08									
284	0.00	0.000	0.039	0.2321	9.5891	0.000	.8447E-02	0.0016	.8453E-02
.7403E-08									
285	0.00	0.000	0.037	0.2296	9.5420	0.000	.8409E-02	0.0016	.8415E-02
.7400E-08									
286	0.00	0.000	0.034	0.2272	9.4960	0.000	.8373E-02	0.0016	.8379E-02
.7398E-08									
287	0.00	0.000	0.033	0.2249	9.4509	0.000	.8337E-02	0.0016	.8342E-02
.7396E-08									
288	0.00	0.000	0.031	0.2227	9.4065	0.000	.8301E-02	0.0016	.8307E-02
.7393E-08									
289	0.08	0.000	0.035	0.2248	9.3628	0.000	.8266E-02	0.0016	.8272E-02
.7391E-08									
290	0.00	0.000	0.028	0.2228	9.3197	0.000	.8232E-02	0.0016	.8238E-02
.7389E-08									
291	0.00	0.000	0.027	0.2208	9.2798	0.000	.8200E-02	0.0016	.8205E-02
.7387E-08									
292	0.00	0.000	0.026	0.2189	9.2401	0.000	.8169E-02	0.0015	.8174E-02
.7385E-08									
293	0.00	0.000	0.025	0.2170	9.1985	0.000	.8135E-02	0.0015	.8141E-02
.7383E-08									
294	0.00	0.000	0.025	0.2152	9.1573	0.000	.8102E-02	0.0015	.8108E-02
.7381E-08									
295	0.00	0.000	0.024	0.2134	9.1165	0.000	.8070E-02	0.0015	.8075E-02
.7379E-08									

296	0.00	0.000	0.023	0.2116	9.0220	0.000	.7995E-02	0.0015	.8006E-02
.7374E-08									
297	0.00	0.000	0.023	0.2099	8.9950	0.000	.7973E-02	0.0015	.7977E-02
.7372E-08									
298	0.00	0.000	0.021	0.2083	8.9867	0.000	.7966E-02	0.0015	.7968E-02
.7372E-08									
299	0.00	0.000	0.022	0.2067	8.9603	0.000	.7945E-02	0.0015	.7948E-02
.7370E-08									
300	0.00	0.000	0.021	0.2051	8.9259	0.000	.7918E-02	0.0015	.7922E-02
.7369E-08									
301	0.00	0.000	0.021	0.2035	8.8918	0.000	.7891E-02	0.0015	.7895E-02
.7367E-08									
302	0.00	0.000	0.020	0.2019	8.8577	0.000	.7864E-02	0.0015	.7868E-02
.7365E-08									
303	0.00	0.000	0.020	0.2004	8.8239	0.000	.7837E-02	0.0015	.7841E-02
.7363E-08									
304	0.00	0.000	0.019	0.1989	8.7902	0.000	.7810E-02	0.0015	.7814E-02
.7362E-08									
305	0.16	0.000	0.025	0.2060	8.7567	0.000	.7783E-02	0.0015	.7787E-02
.7360E-08									
306	0.00	0.000	0.019	0.2045	8.7233	0.000	.7756E-02	0.0015	.7761E-02
.7358E-08									
307	0.00	0.000	0.018	0.2030	8.6901	0.000	.7730E-02	0.0015	.7734E-02
.7357E-08									
308	0.00	0.000	0.018	0.2016	8.6624	0.000	.7708E-02	0.0015	.7712E-02
.7355E-08									
309	0.00	0.000	0.018	0.2002	8.6459	0.000	.7695E-02	0.0015	.7697E-02
.7354E-08									
310	0.00	0.000	0.018	0.1988	8.6196	0.000	.7674E-02	0.0015	.7677E-02
.7353E-08									
311	0.00	0.000	0.017	0.1974	8.5868	0.000	.7648E-02	0.0014	.7652E-02
.7351E-08									
312	0.00	0.000	0.017	0.1960	8.5542	0.000	.7622E-02	0.0014	.7626E-02
.7350E-08									
313	0.00	0.000	0.017	0.1947	8.5217	0.000	.7596E-02	0.0014	.7600E-02
.7348E-08									
314	0.00	0.000	0.017	0.1933	8.4893	0.000	.7570E-02	0.0014	.7574E-02
.7346E-08									
315	0.00	0.000	0.016	0.1920	8.4571	0.000	.7544E-02	0.0014	.7548E-02
.7345E-08									
316	0.00	0.000	0.016	0.1907	8.4250	0.000	.7519E-02	0.0014	.7523E-02
.7343E-08									
317	0.00	0.000	0.016	0.1894	8.3931	0.000	.7493E-02	0.0014	.7497E-02
.7341E-08									
318	0.00	0.000	0.016	0.1881	8.3612	0.000	.7468E-02	0.0014	.7472E-02
.7340E-08									
319	0.00	0.000	0.016	0.1868	8.3295	0.000	.7443E-02	0.0014	.7447E-02
.7338E-08									
320	0.00	0.000	0.015	0.1855	8.2979	0.000	.7418E-02	0.0014	.7422E-02
.7336E-08									
321	0.00	0.000	0.015	0.1843	8.2665	0.000	.7393E-02	0.0014	.7397E-02
.7335E-08									
322	0.00	0.000	0.012	0.1832	8.2351	0.000	.7368E-02	0.0014	.7372E-02
.7333E-08									
323	0.00	0.000	0.015	0.1819	8.2039	0.000	.7343E-02	0.0014	.7347E-02
.7332E-08									
324	0.00	0.000	0.015	0.1807	8.1728	0.000	.7318E-02	0.0014	.7322E-02
.7330E-08									
325	0.00	0.000	0.015	0.1795	8.1418	0.000	.7293E-02	0.0014	.7297E-02
.7328E-08									
326	0.00	0.000	0.014	0.1783	8.1110	0.000	.7269E-02	0.0014	.7273E-02
.7327E-08									
327	0.00	0.000	0.014	0.1771	8.0802	0.000	.7244E-02	0.0014	.7248E-02
.7325E-08									
328	0.00	0.000	0.014	0.1760	8.0496	0.000	.7220E-02	0.0014	.7224E-02
.7324E-08									
329	0.00	0.000	0.014	0.1748	8.0191	0.000	.7196E-02	0.0014	.7199E-02
.7322E-08									
330	0.00	0.000	0.014	0.1736	7.9887	0.000	.7171E-02	0.0014	.7175E-02
.7320E-08									

331	0.00	0.000	0.014	0.1724	7.9584	0.000	.7147E-02	0.0014	.7151E-02
.7319E-08									
332	0.00	0.000	0.014	0.1713	7.9282	0.000	.7123E-02	0.0013	.7127E-02
.7317E-08									
333	0.00	0.000	0.013	0.1702	7.8982	0.000	.7099E-02	0.0013	.7103E-02
.7316E-08									
334	0.00	0.000	0.013	0.1690	7.8682	0.000	.7075E-02	0.0013	.7079E-02
.7314E-08									
335	0.00	0.000	0.013	0.1679	7.8384	0.000	.7052E-02	0.0013	.7055E-02
.7313E-08									
336	0.00	0.000	0.013	0.1668	7.8086	0.000	.7028E-02	0.0013	.7032E-02
.7311E-08									
337	0.00	0.000	0.013	0.1657	7.7790	0.000	.7004E-02	0.0013	.7008E-02
.7310E-08									
338	0.00	0.000	0.013	0.1646	7.7495	0.000	.6981E-02	0.0013	.6985E-02
.7308E-08									
339	0.00	0.000	0.013	0.1635	7.7201	0.000	.6957E-02	0.0013	.6961E-02
.7307E-08									
340	0.08	0.000	0.015	0.1667	7.6908	0.000	.6934E-02	0.0013	.6938E-02
.7305E-08									
341	0.00	0.000	0.013	0.1656	7.6616	0.000	.6911E-02	0.0013	.6914E-02
.7303E-08									
342	0.00	0.000	0.012	0.1645	7.6325	0.000	.6888E-02	0.0013	.6891E-02
.7302E-08									
343	0.00	0.000	0.012	0.1634	7.6035	0.000	.6865E-02	0.0013	.6868E-02
.7300E-08									
344	0.00	0.000	0.012	0.1624	7.5746	0.000	.6842E-02	0.0013	.6845E-02
.7299E-08									
345	0.00	0.000	0.012	0.1613	7.5458	0.000	.6819E-02	0.0013	.6822E-02
.7297E-08									
346	0.00	0.000	0.012	0.1603	7.5171	0.000	.6796E-02	0.0013	.6799E-02
.7296E-08									
347	0.00	0.000	0.011	0.1593	7.4886	0.000	.6773E-02	0.0013	.6777E-02
.7294E-08									
348	0.00	0.000	0.012	0.1582	7.4601	0.000	.6750E-02	0.0013	.6754E-02
.7293E-08									
349	0.00	0.000	0.012	0.1572	7.4317	0.000	.6728E-02	0.0013	.6731E-02
.7292E-08									
350	0.00	0.000	0.012	0.1562	7.4034	0.000	.6705E-02	0.0013	.6709E-02
.7290E-08									
351	0.00	0.000	0.012	0.1551	7.3822	0.000	.6688E-02	0.0013	.6691E-02
.7289E-08									
352	0.19	0.000	0.014	0.1646	7.3657	0.000	.6675E-02	0.0013	.6677E-02
.7288E-08									
353	0.05	0.000	0.014	0.1662	7.3423	0.000	.6656E-02	0.0013	.6659E-02
.7287E-08									
354	0.00	0.000	0.011	0.1652	7.3220	0.000	.6640E-02	0.0013	.6643E-02
.7286E-08									
355	0.02	0.000	0.014	0.1652	7.2941	0.000	.6618E-02	0.0013	.6621E-02
.7284E-08									
356	0.06	0.000	0.013	0.1674	7.2663	0.000	.6596E-02	0.0012	.6599E-02
.7283E-08									
357	0.00	0.000	0.011	0.1664	7.2387	0.000	.6574E-02	0.0012	.6577E-02
.7281E-08									
358	0.00	0.000	0.011	0.1654	7.2111	0.000	.6552E-02	0.0012	.6555E-02
.7280E-08									
359	0.00	0.000	0.011	0.1645	7.1836	0.000	.6530E-02	0.0012	.6533E-02
.7279E-08									
360	0.00	0.000	0.011	0.1635	7.1562	0.000	.6508E-02	0.0012	.6512E-02
.7277E-08									
361	0.00	0.000	0.011	0.1625	7.1289	0.000	.6486E-02	0.0012	.6490E-02
.7276E-08									
362	0.00	0.000	0.011	0.1616	7.1017	0.000	.6465E-02	0.0012	.6468E-02
.7274E-08									
363	0.00	0.000	0.011	0.1606	7.0746	0.000	.6443E-02	0.0012	.6447E-02
.7273E-08									
364	0.00	0.000	0.011	0.1596	7.0476	0.000	.6422E-02	0.0012	.6425E-02
.7271E-08									
365	0.00	0.000	0.011	0.1587	7.0207	0.000	.6400E-02	0.0012	.6403E-02
.7270E-08									

366 0.00 0.000 0.011 0.1577 6.9938 0.000 .6379E-02 0.0012 .6382E-02
.7269E-08

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MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.73	0.66	0.00	0.27	0.00	0.26
	0.91	4.78	2.53	0.79	0.00	0.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.776	0.638	0.430	0.335	0.290	0.254
	0.254	3.118	2.529	1.451	0.463	0.375
PERCOLATION/LEAKAGE THROUGH	0.3105	0.2745	0.2624	0.2304	0.2163	0.1893
LAYER 2	0.1768	0.2383	0.2887	0.2562	0.2222	0.2076
LATERAL DRAINAGE COLLECTED	0.3105	0.2747	0.2625	0.2305	0.2164	0.1894
FROM LAYER 3	0.1769	0.2374	0.2890	0.2564	0.2223	0.2077
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	11.546	10.862	9.610	8.628	7.747	6.907
TOP OF LAYER 2	6.148	8.622	11.057	9.362	8.284	7.393
STD. DEVIATION OF DAILY	0.532	0.385	0.358	0.243	0.263	0.231
HEAD ON TOP OF LAYER 2	0.214	3.672	0.610	0.422	0.273	0.243
AVERAGE DAILY HEAD ON	0.002	0.002	0.002	0.001	0.001	0.001
TOP OF LAYER 4	0.001	0.001	0.002	0.002	0.001	0.001
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.001	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.33	10459693.247	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	11.913	10106279.493	96.62
PERC./LEAKAGE THROUGH LAYER 2	2.873241	2437406.372	23.30

AVG. HEAD ON TOP OF LAYER 2	8.8471		
DRAINAGE COLLECTED FROM LAYER 3	2.8738	2437848.166	23.31
PERC./LEAKAGE THROUGH LAYER 5	0.000003	2.286	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0015		
CHANGE IN WATER STORAGE	-2.457	-2084436.542	-19.93
SOIL WATER AT START OF YEAR	9.126	7741529.417	
SOIL WATER AT END OF YEAR	6.669	5657092.875	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.157	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

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DAILY OUTPUT FOR YEAR 5

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.011	0.1568	6.9671	0.000	.6357E-02	0.0012	.6361E-02	.7267E-08
2			0.00	0.000	0.011	0.1559	6.9405	0.000	.6336E-02	0.0012	.6339E-02	.7266E-08
3			0.00	0.000	0.010	0.1549	6.9139	0.000	.6315E-02	0.0012	.6318E-02	.7264E-08
4			0.00	0.000	0.010	0.1540	6.8875	0.000	.6294E-02	0.0012	.6297E-02	.7263E-08
5			0.00	0.000	0.010	0.1531	6.8611	0.000	.6273E-02	0.0012	.6276E-02	.7262E-08
6			0.00	0.000	0.010	0.1521	6.8348	0.000	.6252E-02	0.0012	.6255E-02	.7260E-08
7			0.00	0.000	0.010	0.1512	6.8086	0.000	.6231E-02	0.0012	.6234E-02	.7259E-08
8			0.00	0.000	0.010	0.1503	6.7825	0.000	.6210E-02	0.0012	.6213E-02	.7258E-08
9			0.00	0.000	0.010	0.1494	6.7565	0.000	.6189E-02	0.0012	.6193E-02	.7256E-08
10			0.00	0.000	0.010	0.1485	6.7306	0.000	.6169E-02	0.0012	.6172E-02	.7255E-08
11			0.00	0.000	0.010	0.1476	6.7048	0.000	.6148E-02	0.0012	.6151E-02	.7253E-08

12	0.00	0.000	0.010	0.1467	6.6790	0.000	.6128E-02	0.0012	.6131E-02 .7252E-08
13	0.00	0.000	0.010	0.1458	6.6534	0.000	.6107E-02	0.0012	.6110E-02 .7251E-08
14	0.08	0.000	0.012	0.1493	6.6278	0.000	.6087E-02	0.0012	.6090E-02 .7249E-08
15	0.00	0.000	0.010	0.1484	6.6024	0.000	.6066E-02	0.0011	.6070E-02 .7248E-08
16 *	0.00	0.000	0.010	0.1475	6.5770	0.000	.6046E-02	0.0011	.6049E-02 .7247E-08
17	0.00	0.000	0.010	0.1466	6.5517	0.000	.6026E-02	0.0011	.6029E-02 .7245E-08
18	0.00	0.000	0.010	0.1458	6.5264	0.000	.6006E-02	0.0011	.6009E-02 .7244E-08
19	0.00	0.000	0.009	0.1449	6.5013	0.000	.5986E-02	0.0011	.5989E-02 .7243E-08
20 *	0.00	0.000	0.010	0.1440	6.4763	0.000	.5966E-02	0.0011	.5969E-02 .7241E-08
21	0.00	0.000	0.010	0.1432	6.4513	0.000	.5946E-02	0.0011	.5949E-02 .7240E-08
22	0.00	0.000	0.010	0.1423	6.4264	0.000	.5926E-02	0.0011	.5929E-02 .7239E-08
23	0.00	0.000	0.010	0.1415	6.4017	0.000	.5906E-02	0.0011	.5909E-02 .7237E-08
24	0.00	0.000	0.009	0.1406	6.3769	0.000	.5886E-02	0.0011	.5889E-02 .7236E-08
25	0.00	0.000	0.009	0.1398	6.3523	0.000	.5866E-02	0.0011	.5870E-02 .7235E-08
26	0.00	0.000	0.009	0.1389	6.3278	0.000	.5847E-02	0.0011	.5850E-02 .7234E-08
27	0.00	0.000	0.009	0.1381	6.3033	0.000	.5827E-02	0.0011	.5830E-02 .7232E-08
28	0.00	0.000	0.009	0.1372	6.2790	0.000	.5808E-02	0.0011	.5811E-02 .7231E-08
29	0.00	0.000	0.009	0.1364	6.2547	0.000	.5788E-02	0.0011	.5791E-02 .7230E-08
30	0.00	0.000	0.009	0.1356	6.2305	0.000	.5769E-02	0.0011	.5772E-02 .7228E-08
31	0.00	0.000	0.009	0.1347	6.2063	0.000	.5750E-02	0.0011	.5753E-02 .7227E-08
32	0.00	0.000	0.009	0.1339	6.1823	0.000	.5730E-02	0.0011	.5734E-02 .7226E-08
33	0.00	0.000	0.009	0.1331	6.1583	0.000	.5711E-02	0.0011	.5714E-02 .7225E-08
34	0.08	0.000	0.011	0.1366	6.1345	0.000	.5692E-02	0.0011	.5695E-02 .7223E-08
35	0.04	0.000	0.010	0.1380	6.1107	0.000	.5673E-02	0.0011	.5676E-02 .7222E-08
36	0.00	0.000	0.009	0.1372	6.0869	0.000	.5654E-02	0.0011	.5657E-02 .7221E-08
37	0.00	0.000	0.009	0.1363	6.0163	0.000	.5598E-02	0.0011	.5606E-02 .7217E-08
38	0.00	0.000	0.009	0.1355	6.0448	0.000	.5620E-02	0.0011	.5618E-02 .7218E-08
39	0.00	0.000	0.009	0.1348	6.0169	0.000	.5598E-02	0.0011	.5601E-02 .7217E-08
40	0.10	0.000	0.010	0.1398	5.9866	0.000	.5574E-02	0.0011	.5577E-02 .7215E-08
41	0.03	0.000	0.010	0.1408	5.9703	0.000	.5561E-02	0.0011	.5563E-02 .7214E-08
42	0.22	0.000	0.010	0.1524	5.9501	0.000	.5544E-02	0.0010	.5547E-02 .7213E-08
43	0.00	0.000	0.009	0.1520	5.9280	0.000	.5527E-02	0.0010	.5530E-02 .7212E-08
44	0.61	0.000	0.010	0.1853	5.9060	0.000	.5509E-02	0.0010	.5512E-02 .7211E-08
45	0.03	0.000	0.010	0.1864	5.8841	0.000	.5492E-02	0.0010	.5494E-02 .7210E-08
46	0.05	0.000	0.010	0.1886	5.8623	0.000	.5474E-02	0.0010	.5477E-02 .7209E-08

47	0.19	0.000	0.010	0.1985	5.8405	0.000	.5457E-02	0.0010	.5459E-02
.7208E-08									
48	0.11	0.000	0.010	0.2041	5.8230	0.000	.5443E-02	0.0010	.5445E-02
.7207E-08									
49	0.01	0.000	0.010	0.2041	5.8014	0.000	.5425E-02	0.0010	.5428E-02
.7205E-08									
50	0.03	0.000	0.010	0.2052	5.7798	0.000	.5408E-02	0.0010	.5411E-02
.7204E-08									
51	0.20	0.000	0.010	0.2158	5.7583	0.000	.5391E-02	0.0010	.5393E-02
.7203E-08									
52	0.00	0.000	0.008	0.2153	5.7368	0.000	.5373E-02	0.0010	.5376E-02
.7202E-08									
53	0.00	0.000	0.008	0.2148	5.7154	0.000	.5356E-02	0.0010	.5359E-02
.7201E-08									
54	0.00	0.000	0.008	0.2144	5.6941	0.000	.5339E-02	0.0010	.5342E-02
.7200E-08									
55	0.00	0.000	0.008	0.2139	5.6729	0.000	.5322E-02	0.0010	.5325E-02
.7199E-08									
56	0.00	0.000	0.008	0.2135	5.6517	0.000	.5305E-02	0.0010	.5308E-02
.7197E-08									
57	0.00	0.000	0.008	0.2130	5.6306	0.000	.5288E-02	0.0010	.5291E-02
.7196E-08									
58	0.00	0.000	0.008	0.2125	5.6095	0.000	.5271E-02	0.0010	.5274E-02
.7195E-08									
59	0.00	0.000	0.008	0.2121	5.5886	0.000	.5254E-02	0.0010	.5257E-02
.7194E-08									
60	0.00	0.000	0.008	0.2116	5.5677	0.000	.5237E-02	0.0010	.5240E-02
.7193E-08									
61	0.00	0.000	0.008	0.2112	5.5468	0.000	.5221E-02	0.0010	.5223E-02
.7192E-08									
62	0.00	0.000	0.008	0.2107	5.5260	0.000	.5204E-02	0.0010	.5207E-02
.7191E-08									
63	0.00	0.000	0.008	0.2102	5.5053	0.000	.5187E-02	0.0010	.5190E-02
.7190E-08									
64	0.00	0.000	0.008	0.2098	5.4847	0.000	.5171E-02	0.0010	.5173E-02
.7188E-08									
65	0.00	0.000	0.008	0.2093	5.4641	0.000	.5154E-02	0.0010	.5157E-02
.7187E-08									
66	0.00	0.000	0.008	0.2089	5.4436	0.000	.5138E-02	0.0010	.5140E-02
.7186E-08									
67	0.00	0.000	0.008	0.2085	5.4232	0.000	.5121E-02	0.0010	.5124E-02
.7185E-08									
68	0.00	0.000	0.008	0.2080	5.4028	0.000	.5105E-02	0.0010	.5107E-02
.7184E-08									
69	0.00	0.000	0.008	0.2076	5.3825	0.000	.5088E-02	0.0010	.5091E-02
.7183E-08									
70	0.00	0.000	0.008	0.2071	5.3622	0.000	.5072E-02	0.0010	.5075E-02
.7182E-08									
71	0.00	0.000	0.008	0.2067	5.3420	0.000	.5056E-02	0.0010	.5058E-02
.7181E-08									
72	0.00	0.000	0.008	0.2062	5.3219	0.000	.5039E-02	0.0010	.5042E-02
.7180E-08									
73	0.00	0.000	0.008	0.2058	5.3019	0.000	.5023E-02	0.0010	.5026E-02
.7179E-08									
74	0.03	0.000	0.009	0.2070	5.2819	0.000	.5007E-02	0.0009	.5010E-02
.7177E-08									
75	0.00	0.000	0.008	0.2065	5.2620	0.000	.4991E-02	0.0009	.4994E-02
.7176E-08									
76	0.00	0.000	0.008	0.2061	5.2421	0.000	.4975E-02	0.0009	.4978E-02
.7175E-08									
77	0.00	0.000	0.008	0.2057	5.2223	0.000	.4959E-02	0.0009	.4962E-02
.7174E-08									
78	0.00	0.000	0.008	0.2052	5.2026	0.000	.4943E-02	0.0009	.4946E-02
.7173E-08									
79	0.00	0.000	0.008	0.2048	5.1829	0.000	.4927E-02	0.0009	.4930E-02
.7172E-08									
80	0.00	0.000	0.008	0.2044	5.1633	0.000	.4911E-02	0.0009	.4914E-02
.7171E-08									
81	0.00	0.000	0.008	0.2039	5.1438	0.000	.4896E-02	0.0009	.4898E-02
.7170E-08									

82	0.00	0.000	0.008	0.2035	5.1243	0.000	.4880E-02	0.0009	.4882E-02 .7169E-08
83	0.00	0.000	0.008	0.2031	5.1049	0.000	.4864E-02	0.0009	.4867E-02 .7168E-08
84	0.00	0.000	0.008	0.2027	5.0855	0.000	.4849E-02	0.0009	.4851E-02 .7167E-08
85	0.00	0.000	0.008	0.2022	5.0662	0.000	.4833E-02	0.0009	.4835E-02 .7166E-08
86	0.00	0.000	0.008	0.2018	5.0470	0.000	.4817E-02	0.0009	.4820E-02 .7165E-08
87	0.00	0.000	0.008	0.2014	5.0278	0.000	.4802E-02	0.0009	.4804E-02 .7164E-08
88	0.00	0.000	0.008	0.2010	5.0087	0.000	.4786E-02	0.0009	.4789E-02 .7163E-08
89	0.00	0.000	0.008	0.2006	4.9896	0.000	.4771E-02	0.0009	.4773E-02 .7161E-08
90	0.00	0.000	0.008	0.2001	4.9707	0.000	.4756E-02	0.0009	.4758E-02 .7160E-08
91	0.00	0.000	0.007	0.1997	4.9517	0.000	.4740E-02	0.0009	.4743E-02 .7159E-08
92	0.00	0.000	0.007	0.1993	4.9329	0.000	.4725E-02	0.0009	.4727E-02 .7158E-08
93	0.10	0.000	0.009	0.2044	4.9141	0.000	.4710E-02	0.0009	.4712E-02 .7157E-08
94	0.00	0.000	0.007	0.2040	4.8953	0.000	.4695E-02	0.0009	.4697E-02 .7156E-08
95	0.00	0.000	0.007	0.2035	4.8767	0.000	.4679E-02	0.0009	.4682E-02 .7155E-08
96	0.00	0.000	0.007	0.2031	4.8580	0.000	.4664E-02	0.0009	.4667E-02 .7154E-08
97	0.15	0.000	0.009	0.2110	4.8395	0.000	.4649E-02	0.0009	.4652E-02 .7153E-08
98	0.01	0.000	0.009	0.2110	4.8210	0.000	.4634E-02	0.0009	.4637E-02 .7152E-08
99	0.00	0.000	0.007	0.2106	4.8025	0.000	.4619E-02	0.0009	.4622E-02 .7151E-08
100	0.00	0.000	0.007	0.2102	4.7850	0.000	.4605E-02	0.0009	.4607E-02 .7150E-08
101	0.00	0.000	0.007	0.2098	4.7688	0.000	.4592E-02	0.0009	.4594E-02 .7149E-08
102	0.00	0.000	0.007	0.2093	4.7510	0.000	.4577E-02	0.0009	.4580E-02 .7148E-08
103	0.00	0.000	0.007	0.2089	4.7347	0.000	.4564E-02	0.0009	.4566E-02 .7147E-08
104	0.00	0.000	0.007	0.2085	4.7194	0.000	.4552E-02	0.0009	.4554E-02 .7147E-08
105	0.00	0.000	0.007	0.2081	4.7013	0.000	.4537E-02	0.0009	.4539E-02 .7146E-08
106	0.00	0.000	0.007	0.2077	4.6832	0.000	.4522E-02	0.0009	.4525E-02 .7145E-08
107	0.00	0.000	0.007	0.2073	4.6652	0.000	.4508E-02	0.0009	.4510E-02 .7144E-08
108	0.00	0.000	0.007	0.2069	4.6473	0.000	.4493E-02	0.0009	.4495E-02 .7143E-08
109	0.00	0.000	0.007	0.2064	4.6318	0.000	.4480E-02	0.0008	.4482E-02 .7142E-08
110	0.00	0.000	0.007	0.2060	4.6166	0.000	.4468E-02	0.0008	.4470E-02 .7141E-08
111	0.00	0.000	0.007	0.2056	4.5999	0.000	.4454E-02	0.0008	.4457E-02 .7140E-08
112	0.00	0.000	0.007	0.2052	4.5837	0.000	.4441E-02	0.0008	.4443E-02 .7139E-08
113	0.00	0.000	0.007	0.2048	4.5683	0.000	.4429E-02	0.0008	.4431E-02 .7138E-08
114	0.00	0.000	0.007	0.2043	4.5535	0.000	.4417E-02	0.0008	.4419E-02 .7137E-08
115	0.00	0.000	0.007	0.2039	4.5372	0.000	.4403E-02	0.0008	.4405E-02 .7137E-08
116	0.00	0.000	0.007	0.2035	4.5206	0.000	.4390E-02	0.0008	.4392E-02 .7136E-08

117	0.00	0.000	0.007	0.2031	4.5034	0.000	.4376E-02	0.0008	.4378E-02
.7135E-08									
118	0.00	0.000	0.007	0.2027	4.4874	0.000	.4363E-02	0.0008	.4365E-02
.7134E-08									
119	0.00	0.000	0.007	0.2023	4.4703	0.000	.4349E-02	0.0008	.4351E-02
.7133E-08									
120	0.00	0.000	0.007	0.2019	4.4561	0.000	.4337E-02	0.0008	.4339E-02
.7132E-08									
121	0.00	0.000	0.007	0.2015	4.4393	0.000	.4323E-02	0.0008	.4326E-02
.7131E-08									
122	0.00	0.000	0.007	0.2011	4.4234	0.000	.4310E-02	0.0008	.4312E-02
.7130E-08									
123	0.00	0.000	0.007	0.2007	4.4074	0.000	.4297E-02	0.0008	.4299E-02
.7129E-08									
124	0.00	0.000	0.007	0.2003	4.3915	0.000	.4284E-02	0.0008	.4286E-02
.7128E-08									
125	0.00	0.000	0.007	0.1999	4.3762	0.000	.4272E-02	0.0008	.4274E-02
.7128E-08									
126	0.00	0.000	0.007	0.1995	4.3601	0.000	.4259E-02	0.0008	.4261E-02
.7127E-08									
127	0.00	0.000	0.007	0.1991	4.3432	0.000	.4245E-02	0.0008	.4247E-02
.7126E-08									
128	0.00	0.000	0.007	0.1987	4.3277	0.000	.4232E-02	0.0008	.4234E-02
.7125E-08									
129	0.00	0.000	0.007	0.1983	4.3121	0.000	.4219E-02	0.0008	.4221E-02
.7124E-08									
130	0.00	0.000	0.007	0.1980	4.2964	0.000	.4207E-02	0.0008	.4209E-02
.7123E-08									
131	0.73	0.000	0.009	0.2380	4.2807	0.000	.4194E-02	0.0008	.4196E-02
.7122E-08									
132	0.00	0.000	0.325	0.2200	4.2643	0.000	.4180E-02	0.0008	.4182E-02
.7121E-08									
133	0.00	0.000	0.352	0.2003	4.2502	0.000	.4169E-02	0.0008	.4171E-02
.7120E-08									
134	0.00	0.000	0.201	0.1891	4.2413	0.000	.4161E-02	0.0008	.4163E-02
.7120E-08									
135	0.00	0.000	0.083	0.1845	4.2248	0.000	.4148E-02	0.0008	.4150E-02
.7119E-08									
136	0.00	0.000	0.064	0.1810	4.2083	0.000	.4134E-02	0.0008	.4136E-02
.7118E-08									
137	0.00	0.000	0.054	0.1780	4.1918	0.000	.4121E-02	0.0008	.4123E-02
.7117E-08									
138	0.00	0.000	0.047	0.1754	4.1754	0.000	.4107E-02	0.0008	.4109E-02
.7116E-08									
139	0.00	0.000	0.043	0.1730	4.1591	0.000	.4094E-02	0.0008	.4096E-02
.7115E-08									
140	0.00	0.000	0.039	0.1708	4.1428	0.000	.4080E-02	0.0008	.4083E-02
.7114E-08									
141	0.00	0.000	0.037	0.1688	4.1265	0.000	.4067E-02	0.0008	.4069E-02
.7114E-08									
142	0.00	0.000	0.034	0.1668	4.1107	0.000	.4054E-02	0.0008	.4056E-02
.7113E-08									
143	0.00	0.000	0.033	0.1650	4.0957	0.000	.4042E-02	0.0008	.4044E-02
.7112E-08									
144	0.00	0.000	0.031	0.1633	4.0802	0.000	.4029E-02	0.0008	.4031E-02
.7111E-08									
145	0.00	0.000	0.030	0.1616	4.0655	0.000	.4017E-02	0.0008	.4019E-02
.7110E-08									
146	0.00	0.000	0.028	0.1600	4.0498	0.000	.4004E-02	0.0008	.4006E-02
.7109E-08									
147	0.00	0.000	0.027	0.1585	4.0338	0.000	.3991E-02	0.0008	.3993E-02
.7108E-08									
148	0.00	0.000	0.026	0.1571	4.0180	0.000	.3978E-02	0.0008	.3980E-02
.7107E-08									
149	0.00	0.000	0.025	0.1556	4.0021	0.000	.3965E-02	0.0008	.3967E-02
.7106E-08									
150	0.00	0.000	0.025	0.1543	3.9864	0.000	.3952E-02	0.0007	.3954E-02
.7106E-08									
151	0.00	0.000	0.024	0.1529	3.9706	0.000	.3939E-02	0.0007	.3941E-02
.7105E-08									

152	0.00	0.000	0.023	0.1516	3.9550	0.000	.3926E-02	0.0007	.3928E-02
.7104E-08									
153	0.00	0.000	0.023	0.1504	3.9393	0.000	.3913E-02	0.0007	.3915E-02
.7103E-08									
154	0.00	0.000	0.022	0.1491	3.9238	0.000	.3900E-02	0.0007	.3902E-02
.7102E-08									
155	0.00	0.000	0.022	0.1479	3.9082	0.000	.3887E-02	0.0007	.3889E-02
.7101E-08									
156	0.00	0.000	0.021	0.1468	3.8928	0.000	.3874E-02	0.0007	.3876E-02
.7100E-08									
157	0.00	0.000	0.021	0.1456	3.8774	0.000	.3862E-02	0.0007	.3864E-02
.7099E-08									
158	0.05	0.000	0.023	0.1471	3.8620	0.000	.3849E-02	0.0007	.3851E-02
.7098E-08									
159	0.01	0.000	0.023	0.1464	3.8467	0.000	.3836E-02	0.0007	.3838E-02
.7098E-08									
160	0.00	0.000	0.019	0.1453	3.8314	0.000	.3824E-02	0.0007	.3826E-02
.7097E-08									
161	0.00	0.000	0.019	0.1443	3.8162	0.000	.3811E-02	0.0007	.3813E-02
.7096E-08									
162	0.00	0.000	0.019	0.1432	3.8010	0.000	.3798E-02	0.0007	.3800E-02
.7095E-08									
163	0.00	0.000	0.018	0.1422	3.7859	0.000	.3786E-02	0.0007	.3788E-02
.7094E-08									
164	0.00	0.000	0.018	0.1412	3.7709	0.000	.3773E-02	0.0007	.3775E-02
.7093E-08									
165	0.00	0.000	0.018	0.1402	3.7558	0.000	.3761E-02	0.0007	.3763E-02
.7092E-08									
166	0.00	0.000	0.018	0.1392	3.7409	0.000	.3749E-02	0.0007	.3751E-02
.7092E-08									
167	0.00	0.000	0.017	0.1383	3.7260	0.000	.3736E-02	0.0007	.3738E-02
.7091E-08									
168	0.00	0.000	0.017	0.1373	3.7111	0.000	.3724E-02	0.0007	.3726E-02
.7090E-08									
169	0.00	0.000	0.017	0.1364	3.6963	0.000	.3712E-02	0.0007	.3713E-02
.7089E-08									
170	0.00	0.000	0.017	0.1355	3.6815	0.000	.3699E-02	0.0007	.3701E-02
.7088E-08									
171	0.00	0.000	0.016	0.1345	3.6668	0.000	.3687E-02	0.0007	.3689E-02
.7087E-08									
172	0.00	0.000	0.016	0.1336	3.6521	0.000	.3675E-02	0.0007	.3677E-02
.7086E-08									
173	0.00	0.000	0.016	0.1328	3.6375	0.000	.3663E-02	0.0007	.3665E-02
.7086E-08									
174	0.00	0.000	0.016	0.1319	3.6229	0.000	.3651E-02	0.0007	.3652E-02
.7085E-08									
175	0.00	0.000	0.016	0.1310	3.6084	0.000	.3638E-02	0.0007	.3640E-02
.7084E-08									
176	0.00	0.000	0.015	0.1302	3.5939	0.000	.3626E-02	0.0007	.3628E-02
.7083E-08									
177	0.00	0.000	0.015	0.1293	3.5795	0.000	.3614E-02	0.0007	.3616E-02
.7082E-08									
178	0.00	0.000	0.015	0.1285	3.5651	0.000	.3602E-02	0.0007	.3604E-02
.7081E-08									
179	0.00	0.000	0.015	0.1277	3.5508	0.000	.3590E-02	0.0007	.3592E-02
.7081E-08									
180	0.00	0.000	0.015	0.1269	3.5365	0.000	.3578E-02	0.0007	.3580E-02
.7080E-08									
181	0.00	0.000	0.015	0.1261	3.5222	0.000	.3567E-02	0.0007	.3568E-02
.7079E-08									
182	0.00	0.000	0.014	0.1253	3.5081	0.000	.3555E-02	0.0007	.3557E-02
.7078E-08									
183	0.06	0.000	0.018	0.1276	3.4939	0.000	.3543E-02	0.0007	.3545E-02
.7077E-08									
184	0.00	0.000	0.014	0.1268	3.4798	0.000	.3531E-02	0.0007	.3533E-02
.7076E-08									
185	0.00	0.000	0.014	0.1261	3.4658	0.000	.3519E-02	0.0007	.3521E-02
.7076E-08									
186	0.00	0.000	0.014	0.1253	3.4518	0.000	.3508E-02	0.0007	.3509E-02
.7075E-08									

187	0.42	0.000	0.017	0.1477	3.4378	0.000	.3496E-02	0.0007	.3498E-02
.7074E-08									
188	0.01	0.000	0.017	0.1473	3.4239	0.000	.3484E-02	0.0007	.3486E-02
.7073E-08									
189	0.00	0.000	0.013	0.1466	3.4100	0.000	.3473E-02	0.0007	.3474E-02
.7072E-08									
190	0.00	0.000	0.013	0.1458	3.3962	0.000	.3461E-02	0.0007	.3463E-02
.7072E-08									
191	0.00	0.000	0.013	0.1451	3.3824	0.000	.3449E-02	0.0007	.3451E-02
.7071E-08									
192	0.00	0.000	0.013	0.1444	3.3687	0.000	.3438E-02	0.0007	.3440E-02
.7070E-08									
193	0.00	0.000	0.013	0.1436	3.3550	0.000	.3426E-02	0.0006	.3428E-02
.7069E-08									
194	0.00	0.000	0.013	0.1429	3.3414	0.000	.3415E-02	0.0006	.3417E-02
.7068E-08									
195	0.00	0.000	0.013	0.1422	3.3278	0.000	.3404E-02	0.0006	.3405E-02
.7068E-08									
196	0.24	0.000	0.016	0.1546	3.3143	0.000	.3392E-02	0.0006	.3394E-02
.7067E-08									
197	0.00	0.000	0.013	0.1539	3.3008	0.000	.3381E-02	0.0006	.3383E-02
.7066E-08									
198	1.20	0.000	0.016	0.2197	3.2873	0.000	.3370E-02	0.0006	.3371E-02
.7065E-08									
199	0.00	0.000	0.369	0.1992	3.2739	0.000	.3358E-02	0.0006	.3360E-02
.7064E-08									
200	0.00	0.000	0.012	0.1985	3.2605	0.000	.3347E-02	0.0006	.3349E-02
.7064E-08									
201	0.43	0.000	0.016	0.2216	3.2472	0.000	.3336E-02	0.0006	.3338E-02
.7063E-08									
202	0.00	0.000	0.337	0.2028	3.2339	0.000	.3325E-02	0.0006	.3326E-02
.7062E-08									
203	0.07	0.000	0.016	0.2058	3.2207	0.000	.3313E-02	0.0006	.3315E-02
.7061E-08									
204	0.00	0.000	0.012	0.2052	3.2075	0.000	.3302E-02	0.0006	.3304E-02
.7060E-08									
205	0.00	0.000	0.012	0.2045	3.1944	0.000	.3291E-02	0.0006	.3293E-02
.7060E-08									
206	0.44	0.000	0.016	0.2281	3.1813	0.000	.3280E-02	0.0006	.3282E-02
.7059E-08									
207	0.00	0.000	0.366	0.2076	3.1707	0.000	.3271E-02	0.0006	.3273E-02
.7058E-08									
208	0.00	0.000	0.012	0.2069	3.1651	0.000	.3266E-02	0.0006	.3267E-02
.7058E-08									
209	0.00	0.000	0.012	0.2063	3.1521	0.000	.3255E-02	0.0006	.3257E-02
.7057E-08									
210	0.38	0.000	0.016	0.2265	3.1392	0.000	.3245E-02	0.0006	.3246E-02
.7056E-08									
211	0.00	0.000	0.343	0.2074	3.1287	0.000	.3236E-02	0.0006	.3237E-02
.7056E-08									
212	0.00	0.000	0.012	0.2068	3.1183	0.000	.3227E-02	0.0006	.3228E-02
.7055E-08									
213	0.00	0.000	0.012	0.2061	3.1055	0.000	.3216E-02	0.0006	.3218E-02
.7054E-08									
214	0.00	0.000	0.011	0.2055	3.0927	0.000	.3205E-02	0.0006	.3207E-02
.7054E-08									
215	0.00	0.000	0.011	0.2049	3.0799	0.000	.3194E-02	0.0006	.3196E-02
.7053E-08									
216	0.00	0.000	0.011	0.2042	3.0672	0.000	.3184E-02	0.0006	.3185E-02
.7052E-08									
217	0.00	0.000	0.011	0.2036	3.0546	0.000	.3173E-02	0.0006	.3174E-02
.7051E-08									
218	0.00	0.000	0.011	0.2030	3.0419	0.000	.3162E-02	0.0006	.3164E-02
.7051E-08									
219	0.00	0.000	0.011	0.2024	3.0294	0.000	.3151E-02	0.0006	.3153E-02
.7050E-08									
220	0.00	0.000	0.011	0.2018	3.0168	0.000	.3141E-02	0.0006	.3142E-02
.7049E-08									
221	0.00	0.000	0.011	0.2011	3.0043	0.000	.3130E-02	0.0006	.3132E-02
.7048E-08									

222	0.19	0.000	0.015	0.2109	2.9919	0.000	.3119E-02	0.0006	.3121E-02
.7048E-08									
223	0.00	0.000	0.011	0.2103	2.9795	0.000	.3109E-02	0.0006	.3111E-02
.7047E-08									
224	0.00	0.000	0.011	0.2097	2.9671	0.000	.3098E-02	0.0006	.3100E-02
.7046E-08									
225	0.00	0.000	0.011	0.2091	2.9548	0.000	.3088E-02	0.0006	.3090E-02
.7045E-08									
226	0.00	0.000	0.011	0.2085	2.9425	0.000	.3077E-02	0.0006	.3079E-02
.7045E-08									
227	0.00	0.000	0.011	0.2079	2.9302	0.000	.3067E-02	0.0006	.3069E-02
.7044E-08									
228	0.00	0.000	0.011	0.2073	2.9180	0.000	.3057E-02	0.0006	.3058E-02
.7043E-08									
229	0.84	0.000	0.015	0.2532	2.9059	0.000	.3046E-02	0.0006	.3048E-02
.7042E-08									
230	1.21	0.000	0.298	0.3038	2.8938	0.000	.3036E-02	0.0006	.3037E-02
.7042E-08									
231	0.15	0.000	0.233	0.2962	2.9036	0.000	.3044E-02	0.0006	.3043E-02
.7042E-08									
232	0.00	0.000	0.322	0.2712	3.3141	0.000	.3392E-02	0.0006	.3342E-02
.7063E-08									
233	0.01	0.000	0.298	0.2493	3.7396	0.000	.3747E-02	0.0007	.3692E-02
.7087E-08									
234	0.00	0.000	0.269	0.2313	4.0753	0.000	.4025E-02	0.0008	.3980E-02
.7107E-08									
235	0.00	0.000	0.276	0.2119	4.3082	0.000	.4216E-02	0.0008	.4184E-02
.7121E-08									
236	0.00	0.000	0.201	0.1992	4.5088	0.000	.4380E-02	0.0008	.4353E-02
.7133E-08									
237	0.00	0.000	0.083	0.1932	4.5885	0.000	.4445E-02	0.0008	.4433E-02
.7138E-08									
238	0.00	0.000	0.064	0.1880	4.6792	0.000	.4519E-02	0.0009	.4507E-02
.7143E-08									
239	0.00	0.000	0.054	0.1835	4.7833	0.000	.4604E-02	0.0009	.4590E-02
.7149E-08									
240	0.11	0.000	0.052	0.1856	4.8610	0.000	.4667E-02	0.0009	.4656E-02
.7154E-08									
241	0.00	0.000	0.043	0.1820	4.9254	0.000	.4719E-02	0.0009	.4710E-02
.7157E-08									
242	0.12	0.000	0.044	0.1850	4.9942	0.000	.4775E-02	0.0009	.4766E-02
.7161E-08									
243	0.04	0.000	0.041	0.1839	5.0563	0.000	.4825E-02	0.0009	.4817E-02
.7164E-08									
244	0.00	0.000	0.034	0.1811	5.1082	0.000	.4867E-02	0.0009	.4860E-02
.7167E-08									
245	0.00	0.000	0.033	0.1785	5.1484	0.000	.4899E-02	0.0009	.4894E-02
.7170E-08									
246	0.00	0.000	0.031	0.1760	5.1839	0.000	.4928E-02	0.0009	.4923E-02
.7172E-08									
247	0.00	0.000	0.030	0.1735	5.2274	0.000	.4963E-02	0.0009	.4958E-02
.7174E-08									
248	0.00	0.000	0.028	0.1714	5.2549	0.000	.4985E-02	0.0009	.4982E-02
.7176E-08									
249	0.00	0.000	0.027	0.1695	5.2710	0.000	.4998E-02	0.0009	.4996E-02
.7177E-08									
250	0.00	0.000	0.026	0.1677	5.2770	0.000	.5003E-02	0.0009	.5002E-02
.7177E-08									
251	0.00	0.000	0.025	0.1659	5.2825	0.000	.5008E-02	0.0009	.5007E-02
.7177E-08									
252	0.00	0.000	0.024	0.1642	5.2878	0.000	.5012E-02	0.0009	.5011E-02
.7178E-08									
253	0.00	0.000	0.024	0.1624	5.2996	0.000	.5021E-02	0.0009	.5020E-02
.7178E-08									
254	0.00	0.000	0.022	0.1608	5.3092	0.000	.5029E-02	0.0010	.5028E-02
.7179E-08									
255	0.00	0.000	0.023	0.1592	5.3151	0.000	.5034E-02	0.0010	.5033E-02
.7179E-08									
256	0.00	0.000	0.022	0.1579	5.3143	0.000	.5033E-02	0.0010	.5033E-02
.7179E-08									

257	0.00	0.000	0.021	0.1568	5.2958	0.000	.5018E-02	0.0009	.5020E-02
.7178E-08									
258	3.38	0.000	0.026	0.3431	5.2758	0.000	.5002E-02	0.0009	.5005E-02
.7177E-08									
259	0.00	0.000	0.224	0.3201	6.1659	0.000	.5713E-02	0.0011	.5613E-02
.7218E-08									
260	0.00	0.000	0.251	0.3056	10.4269	0.000	.9117E-02	0.0016	.8624E-02
.7412E-08									
261	0.80	0.000	0.182	0.3394	10.6350	0.000	.9284E-02	0.0017	.9207E-02
.7451E-08									
262	0.00	0.000	0.207	0.3274	10.8128	0.000	.9427E-02	0.0018	.9398E-02
.7463E-08									
263	0.00	0.000	0.226	0.3143	11.0250	0.000	.9597E-02	0.0018	.9570E-02
.7474E-08									
264	0.00	0.000	0.212	0.3019	11.2036	0.000	.9741E-02	0.0018	.9717E-02
.7483E-08									
265	0.00	0.000	0.232	0.2885	11.3496	0.000	.9858E-02	0.0019	.9839E-02
.7491E-08									
266	0.00	0.000	0.199	0.2769	11.4732	0.000	.9958E-02	0.0019	.9941E-02
.7497E-08									
267	0.00	0.000	0.217	0.2643	11.5605	0.000	.1003E-01	0.0019	.1002E-01
.7502E-08									
268	0.00	0.000	0.201	0.2526	11.5727	0.000	.1004E-01	0.0019	.1004E-01
.7503E-08									
269	0.00	0.000	0.083	0.2474	11.5368	0.000	.1001E-01	0.0019	.1001E-01
.7502E-08									
270	0.00	0.000	0.064	0.2433	11.4704	0.000	.9955E-02	0.0019	.9963E-02
.7499E-08									
271	0.00	0.000	0.054	0.2398	11.4098	0.000	.9907E-02	0.0019	.9914E-02
.7495E-08									
272	0.00	0.000	0.047	0.2366	11.3524	0.000	.9860E-02	0.0019	.9868E-02
.7492E-08									
273	0.00	0.000	0.043	0.2337	11.2972	0.000	.9816E-02	0.0019	.9823E-02
.7490E-08									
274	0.00	0.000	0.039	0.2310	11.2436	0.000	.9773E-02	0.0018	.9780E-02
.7487E-08									
275	0.07	0.000	0.042	0.2320	11.1912	0.000	.9731E-02	0.0018	.9737E-02
.7484E-08									
276	0.00	0.000	0.034	0.2295	11.1400	0.000	.9689E-02	0.0018	.9696E-02
.7482E-08									
277	0.00	0.000	0.033	0.2272	11.0896	0.000	.9649E-02	0.0018	.9655E-02
.7479E-08									
278	0.00	0.000	0.030	0.2250	11.0400	0.000	.9609E-02	0.0018	.9615E-02
.7477E-08									
279	0.00	0.000	0.030	0.2228	10.9911	0.000	.9570E-02	0.0018	.9576E-02
.7474E-08									
280	0.00	0.000	0.028	0.2207	10.9428	0.000	.9531E-02	0.0018	.9537E-02
.7472E-08									
281	0.00	0.000	0.027	0.2187	10.8951	0.000	.9493E-02	0.0018	.9499E-02
.7469E-08									
282	0.00	0.000	0.026	0.2167	10.8479	0.000	.9455E-02	0.0018	.9461E-02
.7467E-08									
283	0.00	0.000	0.025	0.2147	10.8012	0.000	.9417E-02	0.0018	.9423E-02
.7464E-08									
284	0.00	0.000	0.025	0.2128	10.7549	0.000	.9380E-02	0.0018	.9386E-02
.7462E-08									
285	0.04	0.000	0.029	0.2129	10.7134	0.000	.9347E-02	0.0018	.9352E-02
.7460E-08									
286	0.00	0.000	0.023	0.2111	10.6811	0.000	.9321E-02	0.0018	.9325E-02
.7458E-08									
287	0.00	0.000	0.023	0.2094	10.6272	0.000	.9278E-02	0.0018	.9284E-02
.7456E-08									
288	0.00	0.000	0.022	0.2076	10.5437	0.000	.9211E-02	0.0017	.9221E-02
.7452E-08									
289	0.00	0.000	0.022	0.2059	10.4357	0.000	.9124E-02	0.0017	.9138E-02
.7446E-08									
290	0.00	0.000	0.021	0.2042	10.3294	0.000	.9039E-02	0.0017	.9053E-02
.7441E-08									
291	0.00	0.000	0.021	0.2026	10.2245	0.000	.8955E-02	0.0017	.8968E-02
.7436E-08									

292	0.00	0.000	0.020	0.2010	10.1213	0.000	.8873E-02	0.0017	.8886E-02
.7430E-08									
293	0.00	0.000	0.020	0.1994	10.0197	0.000	.8791E-02	0.0017	.8804E-02
.7425E-08									
294	0.00	0.000	0.019	0.1978	9.9197	0.000	.8711E-02	0.0017	.8724E-02
.7420E-08									
295	0.00	0.000	0.019	0.1963	9.8211	0.000	.8632E-02	0.0016	.8645E-02
.7415E-08									
296	0.00	0.000	0.019	0.1948	9.7240	0.000	.8555E-02	0.0016	.8567E-02
.7410E-08									
297	0.00	0.000	0.018	0.1933	9.6283	0.000	.8478E-02	0.0016	.8491E-02
.7405E-08									
298	0.00	0.000	0.018	0.1918	9.5336	0.000	.8403E-02	0.0016	.8415E-02
.7400E-08									
299	0.00	0.000	0.018	0.1904	9.4360	0.000	.8325E-02	0.0016	.8337E-02
.7395E-08									
300	0.00	0.000	0.018	0.1889	9.3333	0.000	.8243E-02	0.0016	.8256E-02
.7390E-08									
301	0.00	0.000	0.017	0.1875	9.2311	0.000	.8161E-02	0.0015	.8174E-02
.7385E-08									
302	0.00	0.000	0.017	0.1861	9.1301	0.000	.8081E-02	0.0015	.8094E-02
.7380E-08									
303	0.00	0.000	0.017	0.1847	9.0303	0.000	.8001E-02	0.0015	.8014E-02
.7375E-08									
304	0.00	0.000	0.017	0.1834	8.9721	0.000	.7955E-02	0.0015	.7963E-02
.7371E-08									
305	0.00	0.000	0.016	0.1820	8.9383	0.000	.7928E-02	0.0015	.7932E-02
.7369E-08									
306	0.00	0.000	0.016	0.1807	8.9047	0.000	.7901E-02	0.0015	.7905E-02
.7368E-08									
307	0.00	0.000	0.016	0.1794	8.8712	0.000	.7874E-02	0.0015	.7879E-02
.7366E-08									
308	0.00	0.000	0.016	0.1780	8.8379	0.000	.7848E-02	0.0015	.7852E-02
.7364E-08									
309	0.00	0.000	0.016	0.1767	8.8046	0.000	.7821E-02	0.0015	.7825E-02
.7363E-08									
310	0.00	0.000	0.015	0.1755	8.7715	0.000	.7795E-02	0.0015	.7799E-02
.7361E-08									
311	0.00	0.000	0.015	0.1742	8.7386	0.000	.7769E-02	0.0015	.7773E-02
.7359E-08									
312	0.11	0.000	0.021	0.1787	8.7057	0.000	.7742E-02	0.0015	.7747E-02
.7357E-08									
313	0.30	0.000	0.021	0.1938	8.6730	0.000	.7716E-02	0.0015	.7721E-02
.7356E-08									
314	0.00	0.000	0.015	0.1926	8.6404	0.000	.7690E-02	0.0015	.7695E-02
.7354E-08									
315	0.00	0.000	0.015	0.1913	8.6080	0.000	.7665E-02	0.0015	.7669E-02
.7352E-08									
316	0.00	0.000	0.014	0.1901	8.5756	0.000	.7639E-02	0.0014	.7643E-02
.7351E-08									
317	0.00	0.000	0.014	0.1889	8.5434	0.000	.7613E-02	0.0014	.7617E-02
.7349E-08									
318	0.00	0.000	0.014	0.1877	8.5113	0.000	.7588E-02	0.0014	.7592E-02
.7347E-08									
319	0.00	0.000	0.014	0.1865	8.4794	0.000	.7562E-02	0.0014	.7566E-02
.7346E-08									
320	0.00	0.000	0.014	0.1853	8.4475	0.000	.7537E-02	0.0014	.7541E-02
.7344E-08									
321	0.03	0.000	0.017	0.1856	8.4157	0.000	.7511E-02	0.0014	.7515E-02
.7342E-08									
322	0.12	0.000	0.017	0.1909	8.3841	0.000	.7486E-02	0.0014	.7490E-02
.7341E-08									
323	0.14	0.000	0.017	0.1973	8.3526	0.000	.7461E-02	0.0014	.7465E-02
.7339E-08									
324	0.17	0.000	0.017	0.2054	8.3212	0.000	.7436E-02	0.0014	.7440E-02
.7338E-08									
325	0.00	0.000	0.013	0.2043	8.2929	0.000	.7414E-02	0.0014	.7417E-02
.7336E-08									
326	0.00	0.000	0.013	0.2031	8.2627	0.000	.7390E-02	0.0014	.7393E-02
.7335E-08									

327	0.00	0.000	0.013	0.2020	8.2316	0.000	.7365E-02	0.0014	.7369E-02 .7333E-08
328	0.00	0.000	0.013	0.2009	8.2007	0.000	.7340E-02	0.0014	.7344E-02 .7331E-08
329	0.00	0.000	0.013	0.1998	8.1699	0.000	.7316E-02	0.0014	.7319E-02 .7330E-08
330	0.00	0.000	0.013	0.1987	8.1391	0.000	.7291E-02	0.0014	.7295E-02 .7328E-08
331	0.00	0.000	0.013	0.1976	8.1085	0.000	.7267E-02	0.0014	.7271E-02 .7327E-08
332	0.00	0.000	0.012	0.1965	8.0780	0.000	.7242E-02	0.0014	.7246E-02 .7325E-08
333	0.00	0.000	0.012	0.1954	8.0476	0.000	.7218E-02	0.0014	.7222E-02 .7323E-08
334	0.00	0.000	0.012	0.1943	8.0173	0.000	.7194E-02	0.0014	.7198E-02 .7322E-08
335	0.00	0.000	0.012	0.1932	7.9871	0.000	.7170E-02	0.0014	.7174E-02 .7320E-08
336	0.00	0.000	0.012	0.1921	7.9570	0.000	.7146E-02	0.0014	.7150E-02 .7319E-08
337	0.00	0.000	0.012	0.1911	7.9271	0.000	.7122E-02	0.0013	.7126E-02 .7317E-08
338	0.00	0.000	0.012	0.1900	7.8972	0.000	.7098E-02	0.0013	.7102E-02 .7316E-08
339	0.00	0.000	0.012	0.1890	7.8674	0.000	.7075E-02	0.0013	.7079E-02 .7314E-08
340	0.00	0.000	0.012	0.1879	7.8378	0.000	.7051E-02	0.0013	.7055E-02 .7313E-08
341	0.07	0.000	0.014	0.1906	7.8082	0.000	.7028E-02	0.0013	.7031E-02 .7311E-08
342	0.12	0.000	0.014	0.1961	7.7788	0.000	.7004E-02	0.0013	.7008E-02 .7310E-08
343	0.02	0.000	0.014	0.1961	7.7495	0.000	.6981E-02	0.0013	.6984E-02 .7308E-08
344	0.03	0.000	0.014	0.1966	7.7203	0.000	.6958E-02	0.0013	.6961E-02 .7307E-08
345	0.00	0.000	0.011	0.1956	7.6912	0.000	.6934E-02	0.0013	.6938E-02 .7305E-08
346	0.00	0.000	0.011	0.1946	7.6621	0.000	.6911E-02	0.0013	.6915E-02 .7304E-08
347	0.03	0.000	0.013	0.1951	7.6332	0.000	.6888E-02	0.0013	.6892E-02 .7302E-08
348	0.00	0.000	0.011	0.1941	7.6044	0.000	.6865E-02	0.0013	.6869E-02 .7301E-08
349	0.00	0.000	0.011	0.1931	7.5756	0.000	.6842E-02	0.0013	.6846E-02 .7299E-08
350	0.00	0.000	0.011	0.1921	7.5470	0.000	.6820E-02	0.0013	.6823E-02 .7298E-08
351	0.00	0.000	0.011	0.1911	7.5185	0.000	.6797E-02	0.0013	.6800E-02 .7296E-08
352	0.00	0.000	0.011	0.1902	7.4900	0.000	.6774E-02	0.0013	.6778E-02 .7295E-08
353	0.00	0.000	0.011	0.1892	7.4617	0.000	.6752E-02	0.0013	.6755E-02 .7293E-08
354	0.00	0.000	0.011	0.1882	7.4334	0.000	.6729E-02	0.0013	.6733E-02 .7292E-08
355	0.00	0.000	0.011	0.1872	7.4053	0.000	.6707E-02	0.0013	.6710E-02 .7290E-08
356	0.00	0.000	0.011	0.1863	7.3773	0.000	.6684E-02	0.0013	.6688E-02 .7289E-08
357	0.00	0.000	0.011	0.1853	7.3493	0.000	.6662E-02	0.0013	.6666E-02 .7287E-08
358	0.00	0.000	0.011	0.1844	7.3215	0.000	.6640E-02	0.0013	.6643E-02 .7286E-08
359	0.00	0.000	0.010	0.1834	7.2937	0.000	.6618E-02	0.0013	.6621E-02 .7284E-08
360	0.00	0.000	0.010	0.1825	7.2660	0.000	.6596E-02	0.0012	.6599E-02 .7283E-08
361	0.15	0.000	0.012	0.1897	7.2385	0.000	.6574E-02	0.0012	.6577E-02 .7281E-08

362	0.03	0.000	0.012	0.1904	7.2110	0.000	.6552E-02	0.0012	.6555E-02 .7280E-08
363	0.00	0.000	0.010	0.1894	7.1836	0.000	.6530E-02	0.0012	.6533E-02 .7279E-08
364	0.01	0.000	0.012	0.1890	7.1563	0.000	.6508E-02	0.0012	.6512E-02 .7277E-08
365	0.00	0.000	0.010	0.1880	7.1291	0.000	.6487E-02	0.0012	.6490E-02 .7276E-08

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MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.08	1.70	0.03	0.26	0.73	0.06
	3.25	2.67	4.18	0.11	0.87	0.46
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.307	0.261	0.245	0.221	1.605	0.544
	1.793	2.473	2.839	0.737	0.447	0.361
PERCOLATION/LEAKAGE THROUGH	0.1875	0.1536	0.1548	0.1360	0.1281	0.1123
LAYER 2	0.1049	0.1116	0.2171	0.2788	0.2266	0.2115
LATERAL DRAINAGE COLLECTED	0.1876	0.1537	0.1549	0.1360	0.1281	0.1124
FROM LAYER 3	0.1050	0.1114	0.2163	0.2791	0.2267	0.2116
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	6.580	5.876	5.265	4.696	4.205	3.735
TOP OF LAYER 2	3.304	3.571	8.071	10.271	8.469	7.551
STD. DEVIATION OF DAILY	0.231	0.178	0.181	0.150	0.141	0.131
HEAD ON TOP OF LAYER 2	0.120	0.809	3.013	0.718	0.279	0.260
AVERAGE DAILY HEAD ON	0.001	0.001	0.001	0.001	0.001	0.001
TOP OF LAYER 4	0.001	0.001	0.001	0.002	0.001	0.001
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.40	12215700.142	100.00

RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	11.832	10037105.685	82.17
PERC./LEAKAGE THROUGH LAYER 2	2.022759	1715931.492	14.05
AVG. HEAD ON TOP OF LAYER 2	5.9663		
DRAINAGE COLLECTED FROM LAYER 3	2.0227	1715914.714	14.05
PERC./LEAKAGE THROUGH LAYER 5	0.000003	2.233	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0010		
CHANGE IN WATER STORAGE	0.545	462677.693	3.79
SOIL WATER AT START OF YEAR	6.669	5657092.875	
SOIL WATER AT END OF YEAR	7.214	6119770.569	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.183	0.00

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AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.97	0.65	0.07	0.22	0.33	0.57
	1.54	3.80	4.40	0.39	0.50	0.41
STD. DEVIATIONS	0.95	0.62	0.13	0.24	0.29	0.63
	1.20	0.82	1.84	0.33	0.47	0.18
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	0.789	0.433	0.352	0.230	0.511	0.284
	1.175	2.824	3.282	0.898	0.429	0.369
STD. DEVIATIONS	0.603	0.190	0.135	0.119	0.615	0.152
	1.286	0.335	1.184	0.373	0.036	0.047
PERCOLATION/LEAKAGE THROUGH LAYER 2						
TOTALS	0.1397	0.1183	0.1161	0.1017	0.0952	0.0831
	0.0773	0.0897	0.2143	0.2402	0.2052	0.1911
STD. DEVIATIONS	0.1163	0.1029	0.0984	0.0865	0.0815	0.0714
	0.0668	0.0920	0.1672	0.1122	0.0935	0.0853

LATERAL DRAINAGE COLLECTED FROM LAYER 3

TOTALS	0.1397	0.1184	0.1162	0.1018	0.0953	0.0832
	0.0774	0.0894	0.2135	0.2403	0.2053	0.1912
STD. DEVIATIONS	0.1163	0.1029	0.0985	0.0866	0.0815	0.0715
	0.0669	0.0917	0.1671	0.1123	0.0936	0.0854

PERCOLATION/LEAKAGE THROUGH LAYER 5

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 2

AVERAGES	4.8742	4.4519	3.9485	3.5168	3.1338	2.7743
	2.4492	2.9572	8.0823	8.7014	7.5795	6.7445
STD. DEVIATIONS	4.3971	4.1433	3.6731	3.3065	2.9792	2.6643
	2.3786	3.4195	6.6633	4.4947	3.8772	3.4217

DAILY AVERAGE HEAD ON TOP OF LAYER 4

AVERAGES	0.0009	0.0008	0.0007	0.0006	0.0006	0.0005
	0.0005	0.0005	0.0013	0.0015	0.0013	0.0012
STD. DEVIATIONS	0.0007	0.0007	0.0006	0.0005	0.0005	0.0005
	0.0004	0.0006	0.0011	0.0007	0.0006	0.0005

****

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5

	INCHES		CU. FEET	PERCENT
PRECIPITATION	13.85	(1.659)	11749128.3	100.00
RUNOFF	0.000	(0.0000)	0.00	0.000
EVAPOTRANSPIRATION	11.574	(0.8820)	9818662.56	83.569
PERCOLATION/LEAKAGE THROUGH LAYER 2	1.67193	(0.98135)	1418321.599	12.07172
AVERAGE HEAD ON TOP OF LAYER 2	4.934	(3.113)		
LATERAL DRAINAGE COLLECTED FROM LAYER 3	1.67158	(0.98183)	1418021.218	12.06916
PERCOLATION/LEAKAGE THROUGH LAYER 5	0.00000	(0.00000)	1.906	0.00002
AVERAGE HEAD ON TOP OF LAYER 4	0.001	(0.001)		
CHANGE IN WATER STORAGE	0.604	(2.5811)	512442.75	4.362

****

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 5 and their dates (DDDYYYY)

	(INCHES)	(CU. FT.)	
PRECIPITATION	3.38	2867296.28340	2580005
RUNOFF	0.000	0.00000	0
PERCOLATION/LEAKAGE THROUGH LAYER 2	0.020546	17429.52672	2470003
AVERAGE HEAD ON TOP OF LAYER 2	24.000		
DRAINAGE COLLECTED FROM LAYER 3	0.02022	17154.45574	2480003
PERCOLATION/LEAKAGE THROUGH LAYER 5	0.000000	0.00689	2480003
AVERAGE HEAD ON TOP OF LAYER 4	0.004		
MAXIMUM HEAD ON TOP OF LAYER 4	0.008		
LOCATION OF MAXIMUM HEAD IN LAYER 3 (DISTANCE FROM DRAIN)	0.0 FEET		
SNOW WATER	0.90	763748.4554	110002

MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.4730
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.1040

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

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FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	6.2226	0.2593
2	0.0000	0.0000
3	0.0030	0.0152
4	0.0000	0.0000
5	0.1875	0.7500
SNOW WATER	0.000	

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Attachment A-3
Tier I, Simulation 3-1
Alternate Final Cover, Soil Type 7

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**********************************************************************
**********************************************************************
**                                                                  **
**                                                                  **
**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE        **
**                HELP MODEL VERSION 3.07 (1 November 1997)         **
**                   DEVELOPED BY ENVIRONMENTAL LABORATORY          **
**                     USAE WATERWAYS EXPERIMENT STATION            **
**              FOR USEPA RISK REDUCTION ENGINEERING LABORATORY      **
**                                                                  **
**                                                                  **
**********************************************************************
**********************************************************************


PRECIPITATION DATA FILE:     C:\WHI\VHELP22\data\P5078.VHP\_weather1.dat
TEMPERATURE DATA FILE:       C:\WHI\VHELP22\data\P5078.VHP\_weather2.dat
SOLAR RADIATION DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\_weather3.dat
EVAPOTRANSPIRATION DATA:     C:\WHI\VHELP22\data\P5078.VHP\_weather4.dat
SOIL AND DESIGN DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\I_389891.inp
OUTPUT DATA FILE:            C:\WHI\VHELP22\data\P5078.VHP\O_389891.prt


TIME:  12:40     DATE:  10/17/2013


**********************************************************************

     TITLE:  Alternative Cover for 4:1 S-3

**********************************************************************


     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
            WERE SPECIFIED BY THE USER.


                                LAYER  1
                                --------

                  TYPE 1 - VERTICAL PERCOLATION LAYER
                      MATERIAL TEXTURE NUMBER   7
          THICKNESS                    =     30.48   CM   ( 12 in.)
          POROSITY                     =      0.4730 VOL/VOL
          FIELD CAPACITY               =      0.2220 VOL/VOL
          WILTING POINT                =      0.1040 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.1335 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.520000000000E-03 CM/SEC
        NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  1.60
                FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.


                                LAYER  2
                                --------

                  TYPE 1 - VERTICAL PERCOLATION LAYER
                      MATERIAL TEXTURE NUMBER   7
          THICKNESS                    =     60.96   CM   (24 in.)
          POROSITY                     =      0.4730 VOL/VOL
          FIELD CAPACITY               =      0.2220 VOL/VOL
          WILTING POINT                =      0.1040 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.1335 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.520000000000E-03 CM/SEC
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LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 7

THICKNESS	=	30.48	CM (12 in.)
POROSITY	=	0.4730	VOL/VOL
FIELD CAPACITY	=	0.2220	VOL/VOL
WILTING POINT	=	0.1040	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1335	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.520000000000E-03	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE # 7 WITH A POOR STAND OF GRASS, A SURFACE SLOPE OF 25.% AND A SLOPE LENGTH OF 30. METERS (100 ft.)

SCS RUNOFF CURVE NUMBER	=	85.07	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	35.2845	HECTARES (87.19 acres)
EVAPORATIVE ZONE DEPTH	=	71.1	CM (28 in.)
INITIAL WATER IN EVAPORATIVE ZONE	=	9.495	CM (3.74 in.)
UPPER LIMIT OF EVAPORATIVE STORAGE	=	33.640	CM (13.24 in.)
LOWER LIMIT OF EVAPORATIVE STORAGE	=	7.396	CM (2.91 in.)
INITIAL SNOW WATER	=	0.000	CM (0.00 in.)
INITIAL WATER IN LAYER MATERIALS	=	16.276	CM (6.41 in.)
TOTAL INITIAL WATER	=	16.276	CM (6.41 in.)
TOTAL SUBSURFACE INFLOW	=	0.00	MM/YR (0.00 in./yr)

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM EL PASO TX

STATION LATITUDE	=	31.85	DEGREES
MAXIMUM LEAF AREA INDEX	=	0.80	
START OF GROWING SEASON (JULIAN DATE)	=	66	
END OF GROWING SEASON (JULIAN DATE)	=	315	
EVAPORATIVE ZONE DEPTH	=	28.0	INCHES
AVERAGE ANNUAL WIND SPEED	=	9.20	MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	40.00	%
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	27.00	%
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	46.00	%
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	48.00	%

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.60	0.52	0.18	0.30	0.73	0.44
2.39	3.48	2.38	0.58	0.66	0.23

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
46.40	50.30	58.30	65.60	75.00	83.20
83.00	80.10	74.60	65.80	54.30	45.80

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR DNCS NM
AND STATION LATITUDE = 32.78 DEGREES

LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3

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DAILY OUTPUT FOR YEAR 1

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.
1			0.00	0.000	0.017	0.1329	0.0000	0.000	.3454E-05
2			0.00	0.000	0.016	0.1323	0.0000	0.000	.3486E-05
3			0.00	0.000	0.016	0.1317	0.0000	0.000	.3290E-05
4			0.00	0.000	0.016	0.1312	0.0000	0.000	.3378E-05
5			0.00	0.000	0.016	0.1306	0.0000	0.000	.3348E-05
6			0.00	0.000	0.016	0.1301	0.0000	0.000	.3350E-05
7			0.00	0.000	0.015	0.1295	0.0000	0.000	.3358E-05
8			0.00	0.000	0.015	0.1290	0.0000	0.000	.3348E-05
9			0.00	0.000	0.015	0.1284	0.0000	0.000	.3357E-05
10			0.00	0.000	0.015	0.1279	0.0000	0.000	.3350E-05
11			0.00	0.000	0.015	0.1274	0.0000	0.000	.3355E-05
12			0.00	0.000	0.015	0.1268	0.0000	0.000	.3352E-05
13			0.00	0.000	0.014	0.1263	0.0000	0.000	.3353E-05
14			0.00	0.000	0.014	0.1258	0.0000	0.000	.3352E-05
15			0.00	0.000	0.014	0.1253	0.0000	0.000	.3353E-05
16			0.00	0.000	0.014	0.1248	0.0000	0.000	.3353E-05
17			0.00	0.000	0.014	0.1243	0.0000	0.000	.3353E-05
18			0.00	0.000	0.014	0.1238	0.0000	0.000	.3352E-05
19			0.00	0.000	0.014	0.1234	0.0000	0.000	.3352E-05
20			0.00	0.000	0.013	0.1229	0.0000	0.000	.3352E-05
21			0.00	0.000	0.013	0.1224	0.0000	0.000	.3352E-05
22			0.00	0.000	0.013	0.1219	0.0000	0.000	.3352E-05
23			0.00	0.000	0.013	0.1215	0.0000	0.000	.3352E-05
24			0.00	0.000	0.013	0.1210	0.0000	0.000	.3352E-05
25			0.00	0.000	0.013	0.1205	0.0000	0.000	.3352E-05
26			0.00	0.000	0.013	0.1201	0.0000	0.000	.3352E-05
27			0.00	0.000	0.013	0.1196	0.0000	0.000	.3352E-05
28			0.00	0.000	0.013	0.1192	0.0000	0.000	.3352E-05
29			0.00	0.000	0.012	0.1187	0.0000	0.000	.3352E-05
30			0.00	0.000	0.012	0.1183	0.0000	0.000	.3352E-05
31			0.00	0.000	0.012	0.1178	0.0000	0.000	.3352E-05
32			0.11	0.000	0.013	0.1213	0.0000	0.000	.3352E-05
33			0.07	0.000	0.013	0.1234	0.0000	0.000	.3352E-05
34			0.17	0.000	0.013	0.1290	0.0000	0.000	.3352E-05

35	0.00	0.000	0.012	0.1286	0.0000	0.000	.3352E-05
36	0.00	0.000	0.012	0.1281	0.0000	0.000	.3352E-05
37	0.00	0.000	0.012	0.1277	0.0000	0.000	.3352E-05
38	0.00	0.000	0.012	0.1273	0.0000	0.000	.3351E-05
39	0.00	0.000	0.012	0.1269	0.0000	0.000	.3351E-05
40	0.00	0.000	0.012	0.1265	0.0000	0.000	.3351E-05
41	0.00	0.000	0.011	0.1261	0.0000	0.000	.3351E-05
42	0.00	0.000	0.011	0.1256	0.0000	0.000	.3351E-05
43	0.00	0.000	0.011	0.1252	0.0000	0.000	.3351E-05
44	0.00	0.000	0.011	0.1248	0.0000	0.000	.3351E-05
45	0.00	0.000	0.011	0.1244	0.0000	0.000	.3351E-05
46	0.00	0.000	0.011	0.1240	0.0000	0.000	.3351E-05
47	0.00	0.000	0.011	0.1237	0.0000	0.000	.3351E-05
48	0.00	0.000	0.011	0.1233	0.0000	0.000	.3351E-05
49	0.00	0.000	0.011	0.1229	0.0000	0.000	.3351E-05
50	0.00	0.000	0.011	0.1225	0.0000	0.000	.3351E-05
51	0.00	0.000	0.011	0.1221	0.0000	0.000	.3351E-05
52	0.00	0.000	0.011	0.1217	0.0000	0.000	.3351E-05
53	0.01	0.000	0.011	0.1217	0.0000	0.000	.3351E-05
54	0.00	0.000	0.011	0.1213	0.0000	0.000	.3351E-05
55	0.00	0.000	0.011	0.1209	0.0000	0.000	.3351E-05
56	0.00	0.000	0.010	0.1205	0.0000	0.000	.3351E-05
57	0.00	0.000	0.010	0.1202	0.0000	0.000	.3351E-05
58	0.00	0.000	0.010	0.1198	0.0000	0.000	.3350E-05
59	0.00	0.000	0.010	0.1194	0.0000	0.000	.3350E-05
60	0.00	0.000	0.010	0.1191	0.0000	0.000	.3350E-05
61	0.00	0.000	0.010	0.1187	0.0000	0.000	.3350E-05
62	0.00	0.000	0.010	0.1183	0.0000	0.000	.3350E-05
63	0.01	0.000	0.011	0.1183	0.0000	0.000	.3350E-05
64	0.00	0.000	0.010	0.1180	0.0000	0.000	.3350E-05
65	0.00	0.000	0.010	0.1176	0.0000	0.000	.3350E-05
66	0.00	0.000	0.010	0.1172	0.0000	0.000	.3350E-05
67	0.00	0.000	0.010	0.1169	0.0000	0.000	.3571E-05
68	0.00	0.000	0.010	0.1165	0.0000	0.000	.3580E-05
69	0.00	0.000	0.010	0.1162	0.0000	0.000	.3489E-05
70	0.00	0.000	0.010	0.1158	0.0000	0.000	0.000
71	0.00	0.000	0.010	0.1155	0.0000	0.000	0.000
72	0.00	0.000	0.010	0.1151	0.0000	0.000	0.000
73	0.00	0.000	0.010	0.1148	0.0000	0.000	0.000
74	0.00	0.000	0.010	0.1144	0.0000	0.000	0.000
75	0.00	0.000	0.010	0.1141	0.0000	0.000	0.000
76	0.00	0.000	0.010	0.1137	0.0000	0.000	0.000
77	0.00	0.000	0.010	0.1134	0.0000	0.000	0.000
78	0.00	0.000	0.009	0.1131	0.0000	0.000	0.000
79	0.00	0.000	0.010	0.1127	0.0000	0.000	0.000
80	0.00	0.000	0.010	0.1123	0.0000	0.000	0.000
81	0.00	0.000	0.010	0.1120	0.0000	0.000	0.000
82	0.00	0.000	0.010	0.1116	0.0000	0.000	0.000
83	0.00	0.000	0.010	0.1113	0.0000	0.000	0.000
84	0.00	0.000	0.010	0.1109	0.0000	0.000	0.000
85	0.00	0.000	0.010	0.1105	0.0000	0.000	0.000
86	0.00	0.000	0.010	0.1102	0.0000	0.000	0.000
87	0.00	0.000	0.010	0.1098	0.0000	0.000	0.000
88	0.00	0.000	0.008	0.1095	0.0000	0.000	0.000
89	0.00	0.000	0.006	0.1093	0.0000	0.000	0.000
90	0.00	0.000	0.005	0.1092	0.0000	0.000	0.000
91	0.00	0.000	0.003	0.1090	0.0000	0.000	0.000
92	0.04	0.000	0.005	0.1103	0.0000	0.000	0.000
93	0.00	0.000	0.003	0.1102	0.0000	0.000	0.000
94	0.00	0.000	0.004	0.1100	0.0000	0.000	0.000
95	0.00	0.000	0.004	0.1099	0.0000	0.000	0.000
96	0.00	0.000	0.004	0.1097	0.0000	0.000	0.000
97	0.00	0.000	0.004	0.1096	0.0000	0.000	0.000
98	0.00	0.000	0.004	0.1094	0.0000	0.000	0.000
99	0.00	0.000	0.004	0.1093	0.0000	0.000	0.000
100	0.00	0.000	0.004	0.1091	0.0000	0.000	0.000
101	0.00	0.000	0.004	0.1089	0.0000	0.000	0.000
102	0.00	0.000	0.004	0.1088	0.0000	0.000	0.000
103	0.20	0.000	0.005	0.1157	0.0000	0.000	0.000
104	0.00	0.000	0.007	0.1155	0.0000	0.000	0.000
105	0.21	0.000	0.008	0.1227	0.0000	0.000	0.000

106	0.00	0.000	0.009	0.1224	0.0000	0.000	0.000
107	0.00	0.000	0.008	0.1220	0.0000	0.000	0.000
108	0.00	0.000	0.008	0.1218	0.0000	0.000	0.000
109	0.00	0.000	0.009	0.1214	0.0000	0.000	0.000
110	0.00	0.000	0.011	0.1210	0.0000	0.000	0.000
111	0.00	0.000	0.011	0.1206	0.0000	0.000	0.000
112	0.00	0.000	0.011	0.1203	0.0000	0.000	0.000
113	0.00	0.000	0.011	0.1199	0.0000	0.000	0.000
114	0.00	0.000	0.011	0.1195	0.0000	0.000	0.000
115	0.00	0.000	0.011	0.1191	0.0000	0.000	0.000
116	0.00	0.000	0.012	0.1187	0.0000	0.000	0.000
117	0.00	0.000	0.012	0.1183	0.0000	0.000	0.000
118	0.00	0.000	0.012	0.1178	0.0000	0.000	0.000
119	0.00	0.000	0.012	0.1174	0.0000	0.000	0.000
120	0.00	0.000	0.012	0.1170	0.0000	0.000	0.000
121	0.00	0.000	0.012	0.1165	0.0000	0.000	0.000
122	0.00	0.000	0.013	0.1161	0.0000	0.000	0.000
123	0.00	0.000	0.013	0.1156	0.0000	0.000	0.000
124	0.00	0.000	0.014	0.1151	0.0000	0.000	0.000
125	0.00	0.000	0.014	0.1146	0.0000	0.000	0.000
126	0.00	0.000	0.015	0.1141	0.0000	0.000	0.000
127	0.00	0.000	0.016	0.1135	0.0000	0.000	0.000
128	0.00	0.000	0.015	0.1130	0.0000	0.000	0.000
129	0.00	0.000	0.017	0.1123	0.0000	0.000	0.000
130	0.00	0.000	0.017	0.1117	0.0000	0.000	0.000
131	0.00	0.000	0.017	0.1112	0.0000	0.000	0.000
132	0.00	0.000	0.019	0.1105	0.0000	0.000	0.000
133	0.00	0.000	0.019	0.1098	0.0000	0.000	0.000
134	0.00	0.000	0.019	0.1091	0.0000	0.000	0.000
135	0.00	0.000	0.021	0.1084	0.0000	0.000	0.000
136	0.00	0.000	0.021	0.1076	0.0000	0.000	0.000
137	0.00	0.000	0.020	0.1069	0.0000	0.000	0.000
138	0.00	0.000	0.020	0.1062	0.0000	0.000	0.000
139	0.01	0.000	0.027	0.1056	0.0000	0.000	0.000
140	0.00	0.000	0.023	0.1048	0.0000	0.000	0.000
141	0.01	0.000	0.023	0.1043	0.0000	0.000	0.000
142	0.00	0.000	0.006	0.1041	0.0000	0.000	0.000
143	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
144	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
145	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
146	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
147	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
148	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
149	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
150	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
151	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
152	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
153	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
154	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
155	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
156	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
157	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
158	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
159	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
160	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
161	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
162	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
163	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
164	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
165	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
166	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
167	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
168	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
169	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
170	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
171	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
172	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
173	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
174	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
175	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
176	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000

177	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
178	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
179	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
180	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
181	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
182	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
183	0.01	0.000	0.005	0.1042	0.0000	0.000	0.000
184	0.00	0.000	0.002	0.1041	0.0000	0.000	0.000
185	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
186	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
187	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
188	0.31	0.000	0.006	0.1149	0.0000	0.000	0.000
189	0.11	0.000	0.013	0.1183	0.0000	0.000	0.000
190	0.00	0.000	0.014	0.1178	0.0000	0.000	0.000
191	0.00	0.000	0.013	0.1174	0.0000	0.000	0.000
192	0.20	0.000	0.018	0.1239	0.0000	0.000	0.000
193	0.01	0.000	0.022	0.1235	0.0000	0.000	0.000
194	0.09	0.000	0.022	0.1259	0.0000	0.000	0.000
195	0.28	0.000	0.021	0.1351	0.0000	0.000	0.000
196	0.00	0.000	0.024	0.1343	0.0000	0.000	0.000
197	0.00	0.000	0.023	0.1335	0.0000	0.000	0.000
198	0.00	0.000	0.023	0.1327	0.0000	0.000	0.000
199	0.00	0.000	0.020	0.1320	0.0000	0.000	0.000
200	0.00	0.000	0.021	0.1312	0.0000	0.000	0.000
201	0.00	0.000	0.023	0.1304	0.0000	0.000	0.000
202	0.00	0.000	0.021	0.1296	0.0000	0.000	0.000
203	0.18	0.000	0.026	0.1351	0.0000	0.000	0.000
204	0.00	0.000	0.027	0.1342	0.0000	0.000	0.000
205	0.00	0.000	0.026	0.1332	0.0000	0.000	0.000
206	0.00	0.000	0.025	0.1323	0.0000	0.000	0.000
207	0.00	0.000	0.025	0.1314	0.0000	0.000	0.000
208	0.00	0.000	0.022	0.1307	0.0000	0.000	0.000
209	0.00	0.000	0.023	0.1298	0.0000	0.000	0.000
210	0.00	0.000	0.025	0.1289	0.0000	0.000	0.000
211	0.00	0.000	0.024	0.1281	0.0000	0.000	0.000
212	0.61	0.000	0.030	0.1488	0.0000	0.000	0.000
213	0.10	0.000	0.272	0.1426	0.0000	0.000	0.000
214	0.00	0.000	0.029	0.1416	0.0000	0.000	0.000
215	0.00	0.000	0.031	0.1405	0.0000	0.000	0.000
216	0.00	0.000	0.029	0.1395	0.0000	0.000	0.000
217	0.00	0.000	0.027	0.1385	0.0000	0.000	0.000
218	0.00	0.000	0.027	0.1376	0.0000	0.000	0.000
219	0.00	0.000	0.030	0.1365	0.0000	0.000	0.000
220	0.00	0.000	0.037	0.1352	0.0000	0.000	0.000
221	0.06	0.000	0.035	0.1361	0.0000	0.000	0.000
222	0.00	0.000	0.037	0.1347	0.0000	0.000	0.000
223	0.36	0.000	0.035	0.1463	0.0000	0.000	0.000
224	0.25	0.000	0.222	0.1473	0.0000	0.000	0.000
225	0.00	0.000	0.252	0.1383	0.0000	0.000	0.000
226	0.00	0.000	0.220	0.1305	0.0000	0.000	0.000
227	0.85	0.000	0.226	0.1528	0.0000	0.000	0.000
228	0.12	0.000	0.232	0.1487	0.0000	0.000	0.000
229	0.05	0.000	0.289	0.1402	0.0000	0.000	0.000
230	0.65	0.000	0.266	0.1539	0.0000	0.000	0.000
231	0.00	0.000	0.294	0.1434	0.0000	0.000	0.000
232	0.00	0.000	0.248	0.1346	0.0000	0.000	0.000
233	0.00	0.000	0.307	0.1236	0.0000	0.000	0.000
234	0.00	0.000	0.230	0.1154	0.0000	0.000	0.000
235	0.00	0.000	0.132	0.1107	0.0000	0.000	0.000
236	0.27	0.000	0.116	0.1162	0.0000	0.000	0.000
237	1.39	0.052	0.097	0.1605	0.0000	0.000	0.000
238	0.00	0.000	0.294	0.1500	0.0000	0.000	0.000
239	0.00	0.000	0.252	0.1410	0.0000	0.000	0.000
240	0.00	0.000	0.250	0.1321	0.0000	0.000	0.000
241	0.00	0.000	0.273	0.1223	0.0000	0.000	0.000
242	0.00	0.000	0.270	0.1127	0.0000	0.000	0.000
243	0.00	0.000	0.206	0.1053	0.0000	0.000	0.000
244	0.00	0.000	0.032	0.1042	0.0000	0.000	0.000
245	0.00	0.000	0.004	0.1040	0.0000	0.000	0.000
246	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
247	0.78	0.000	0.053	0.1300	0.0000	0.000	0.000

248	0.23	0.000	0.134	0.1334	0.0000	0.000	0.000
249	1.08	0.021	0.184	0.1647	0.0000	0.000	0.000
250	0.15	0.000	0.191	0.1632	0.0000	0.000	0.000
251	1.04	0.030	0.168	0.1933	0.0000	0.000	0.000
252	0.00	0.000	0.208	0.1858	0.0000	0.000	0.000
253	0.00	0.000	0.218	0.1781	0.0000	0.000	0.000
254	0.00	0.000	0.225	0.1700	0.0000	0.000	0.000
255	0.12	0.000	0.205	0.1670	0.0000	0.000	0.000
256	0.00	0.000	0.214	0.1594	0.0000	0.000	0.000
257	0.58	0.000	0.158	0.1744	0.0000	0.000	0.000
258	0.00	0.000	0.236	0.1660	0.0000	0.000	0.000
259	0.00	0.000	0.213	0.1584	0.0000	0.000	0.000
260	0.00	0.000	0.191	0.1516	0.0000	0.000	0.000
261	0.00	0.000	0.227	0.1435	0.0000	0.000	0.000
262	0.00	0.000	0.228	0.1353	0.0000	0.000	0.000
263	0.00	0.000	0.193	0.1284	0.0000	0.000	0.000
264	0.00	0.000	0.102	0.1248	0.0000	0.000	0.000
265	0.00	0.000	0.082	0.1219	0.0000	0.000	0.000
266	0.00	0.000	0.070	0.1194	0.0000	0.000	0.000
267	0.00	0.000	0.062	0.1171	0.0000	0.000	0.000
268	0.00	0.000	0.058	0.1151	0.0000	0.000	0.000
269	0.00	0.000	0.052	0.1132	0.0000	0.000	0.000
270	0.00	0.000	0.050	0.1114	0.0000	0.000	0.000
271	0.00	0.000	0.046	0.1098	0.0000	0.000	0.000
272	0.00	0.000	0.045	0.1082	0.0000	0.000	0.000
273	0.00	0.000	0.041	0.1067	0.0000	0.000	0.000
274	0.00	0.000	0.020	0.1060	0.0000	0.000	0.000
275	0.00	0.000	0.013	0.1055	0.0000	0.000	0.000
276	0.00	0.000	0.009	0.1052	0.0000	0.000	0.000
277	0.00	0.000	0.008	0.1049	0.0000	0.000	0.000
278	0.00	0.000	0.006	0.1047	0.0000	0.000	0.000
279	0.00	0.000	0.007	0.1044	0.0000	0.000	0.000
280	0.00	0.000	0.006	0.1042	0.0000	0.000	0.000
281	0.00	0.000	0.005	0.1040	0.0000	0.000	0.000
282	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
283	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
284	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
285	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
286	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
287	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
288	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
289	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
290	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
291	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
292	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
293	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
294	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
295	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
296	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
297	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
298	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
299	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
300	0.02	0.000	0.013	0.1043	0.0000	0.000	0.000
301	0.23	0.000	0.016	0.1119	0.0000	0.000	0.000
302	0.00	0.000	0.009	0.1116	0.0000	0.000	0.000
303	0.00	0.000	0.009	0.1113	0.0000	0.000	0.000
304	0.00	0.000	0.009	0.1110	0.0000	0.000	0.000
305	0.01	0.000	0.017	0.1107	0.0000	0.000	0.000
306	0.17	0.000	0.026	0.1159	0.0000	0.000	0.000
307	0.00	0.000	0.012	0.1154	0.0000	0.000	0.000
308	0.00	0.000	0.009	0.1151	0.0000	0.000	0.000
309	0.00	0.000	0.008	0.1148	0.0000	0.000	0.000
310	0.00	0.000	0.009	0.1145	0.0000	0.000	0.000
311	0.00	0.000	0.010	0.1142	0.0000	0.000	0.000
312	0.00	0.000	0.011	0.1138	0.0000	0.000	0.000
313	0.00	0.000	0.011	0.1134	0.0000	0.000	0.000
314	0.00	0.000	0.011	0.1130	0.0000	0.000	0.000
315	0.03	0.000	0.024	0.1132	0.0000	0.000	0.000
316	0.00	0.000	0.011	0.1128	0.0000	0.000	0.000
317	0.00	0.000	0.012	0.1124	0.0000	0.000	0.000
318	0.00	0.000	0.011	0.1120	0.0000	0.000	0.000

319		1.10	0.008	0.020	0.1503	0.0000 0.000	0.000
320		0.00	0.000	0.118	0.1460	0.0000 0.000	0.000
321		0.00	0.000	0.100	0.1425	0.0000 0.000	0.000
322		0.00	0.000	0.097	0.1390	0.0000 0.000	0.000
323		0.05	0.000	0.103	0.1371	0.0000 0.000	0.000
324		0.00	0.000	0.112	0.1331	0.0000 0.000	0.000
325		0.40	0.000	0.094	0.1440	0.0000 0.000	0.000
326		0.00	0.000	0.099	0.1405	0.0000 0.000	0.000
327		0.00	0.000	0.088	0.1373	0.0000 0.000	0.000
328		0.00	0.000	0.074	0.1347	0.0000 0.000	0.000
329		0.00	0.000	0.092	0.1314	0.0000 0.000	0.000
330		0.00	0.000	0.102	0.1278	0.0000 0.000	0.000
331		0.00	0.000	0.078	0.1250	0.0000 0.000	0.000
332		0.00	0.000	0.059	0.1229	0.0000 0.000	0.000
333		0.00	0.000	0.050	0.1211	0.0000 0.000	0.000
334		0.00	0.000	0.044	0.1195	0.0000 0.000	0.000
335		0.00	0.000	0.040	0.1181	0.0000 0.000	0.000
336		0.00	0.000	0.037	0.1168	0.0000 0.000	0.000
337		0.00	0.000	0.034	0.1156	0.0000 0.000	0.000
338		0.00	0.000	0.032	0.1144	0.0000 0.000	0.000
339		0.00	0.000	0.030	0.1134	0.0000 0.000	0.000
340		0.00	0.000	0.030	0.1123	0.0000 0.000	0.000
341		0.00	0.000	0.029	0.1112	0.0000 0.000	0.000
342		0.00	0.000	0.028	0.1102	0.0000 0.000	0.000
343		0.00	0.000	0.027	0.1093	0.0000 0.000	0.000
344		0.00	0.000	0.026	0.1083	0.0000 0.000	0.000
345		0.00	0.000	0.025	0.1074	0.0000 0.000	0.000
346		0.00	0.000	0.025	0.1066	0.0000 0.000	0.000
347	*	0.00	0.000	0.024	0.1057	0.0000 0.000	0.000
348	*	0.00	0.000	0.023	0.1049	0.0000 0.000	0.000
349		0.00	0.000	0.016	0.1043	0.0000 0.000	0.000
350		0.03	0.000	0.013	0.1049	0.0000 0.000	0.000
351		0.05	0.000	0.013	0.1063	0.0000 0.000	0.000
352		0.02	0.000	0.011	0.1066	0.0000 0.000	0.000
353		0.00	0.000	0.003	0.1065	0.0000 0.000	0.000
354	*	0.00	0.000	0.006	0.1062	0.0000 0.000	0.000
355	*	0.00	0.000	0.005	0.1061	0.0000 0.000	0.000
356		0.00	0.000	0.005	0.1059	0.0000 0.000	0.000
357		0.00	0.000	0.005	0.1057	0.0000 0.000	0.000
358		0.00	0.000	0.005	0.1055	0.0000 0.000	0.000
359		0.00	0.000	0.004	0.1054	0.0000 0.000	0.000
360		0.00	0.000	0.004	0.1052	0.0000 0.000	0.000
361		0.00	0.000	0.004	0.1051	0.0000 0.000	0.000
362		0.00	0.000	0.004	0.1049	0.0000 0.000	0.000
363		0.00	0.000	0.004	0.1048	0.0000 0.000	0.000
364		0.00	0.000	0.004	0.1046	0.0000 0.000	0.000
365		0.00	0.000	0.004	0.1045	0.0000 0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	0.36	0.01	0.45	0.02	0.00
	1.80	4.10	3.98	0.25	1.76	0.10
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.052	0.051	0.000	0.008	0.000
EVAPOTRANSPIRATION	0.439	0.315	0.298	0.228	0.383	0.000
	0.546	5.265	3.889	0.129	1.513	0.521
PERCOLATION/LEAKAGE THROUGH	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.83	4060602.645	100.00
RUNOFF	0.111	34982.606	0.86
EVAPOTRANSPIRATION	13.525	4280633.145	105.42
PERC./LEAKAGE THROUGH LAYER 3	0.000232	73.439	0.00
CHANGE IN WATER STORAGE	-0.806	-255086.484	-6.28
SOIL WATER AT START OF YEAR	6.408	2028077.453	
SOIL WATER AT END OF YEAR	5.602	1772990.969	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.061	0.00

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LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3

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DAILY OUTPUT FOR YEAR 2

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.
1			0.00	0.000	0.004	0.1043	0.0000	0.000	0.000
2			0.00	0.000	0.004	0.1042	0.0000	0.000	0.000
3			0.00	0.000	0.001	0.1042	0.0000	0.000	0.000
4			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
5			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
6			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
7			1.09	0.007	0.018	0.1422	0.0000	0.000	0.000
8			0.00	0.000	0.052	0.1404	0.0000	0.000	0.000
9			0.00	0.000	0.065	0.1380	0.0000	0.000	0.000
10			0.00	0.000	0.066	0.1357	0.0000	0.000	0.000
11	*		0.00	0.000	0.055	0.1337	0.0000	0.000	0.000
12			0.00	0.000	0.067	0.1313	0.0000	0.000	0.000
13	*		0.00	0.000	0.062	0.1291	0.0000	0.000	0.000
14	*		0.00	0.000	0.062	0.1269	0.0000	0.000	0.000
15			0.00	0.000	0.059	0.1248	0.0000	0.000	0.000
16			0.00	0.000	0.050	0.1230	0.0000	0.000	0.000
17			0.00	0.000	0.044	0.1214	0.0000	0.000	0.000
18			0.00	0.000	0.040	0.1200	0.0000	0.000	0.000
19			0.00	0.000	0.037	0.1187	0.0000	0.000	0.000
20			0.00	0.000	0.034	0.1175	0.0000	0.000	0.000

21	0.00	0.000	0.032	0.1164	0.0000	0.000	0.000
22	0.00	0.000	0.030	0.1153	0.0000	0.000	0.000
23	0.00	0.000	0.029	0.1143	0.0000	0.000	0.000
24	0.00	0.000	0.027	0.1133	0.0000	0.000	0.000
25	0.00	0.000	0.026	0.1123	0.0000	0.000	0.000
26	0.00	0.000	0.027	0.1114	0.0000	0.000	0.000
27	0.00	0.000	0.026	0.1104	0.0000	0.000	0.000
28	0.00	0.000	0.025	0.1095	0.0000	0.000	0.000
29	0.00	0.000	0.025	0.1087	0.0000	0.000	0.000
30	0.00	0.000	0.024	0.1078	0.0000	0.000	0.000
31	0.00	0.000	0.023	0.1070	0.0000	0.000	0.000
32	0.00	0.000	0.023	0.1062	0.0000	0.000	0.000
33	0.00	0.000	0.022	0.1054	0.0000	0.000	0.000
34	0.00	0.000	0.022	0.1046	0.0000	0.000	0.000
35	0.00	0.000	0.008	0.1043	0.0000	0.000	0.000
36	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000
37	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000
38	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000
39	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
40	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
41	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
42	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
43	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
44	0.10	0.000	0.011	0.1074	0.0000	0.000	0.000
45	0.01	0.000	0.008	0.1074	0.0000	0.000	0.000
46	0.00	0.000	0.006	0.1072	0.0000	0.000	0.000
47	0.00	0.000	0.008	0.1069	0.0000	0.000	0.000
48	0.00	0.000	0.006	0.1067	0.0000	0.000	0.000
49	0.00	0.000	0.006	0.1065	0.0000	0.000	0.000
50	0.00	0.000	0.005	0.1063	0.0000	0.000	0.000
51	0.15	0.000	0.014	0.1112	0.0000	0.000	0.000
52	0.09	0.000	0.018	0.1138	0.0000	0.000	0.000
53	0.00	0.000	0.009	0.1135	0.0000	0.000	0.000
54	0.00	0.000	0.008	0.1132	0.0000	0.000	0.000
55	0.00	0.000	0.008	0.1129	0.0000	0.000	0.000
56	0.00	0.000	0.009	0.1125	0.0000	0.000	0.000
57	0.00	0.000	0.011	0.1121	0.0000	0.000	0.000
58	0.00	0.000	0.011	0.1117	0.0000	0.000	0.000
59	0.00	0.000	0.012	0.1113	0.0000	0.000	0.000
60	0.12	0.000	0.021	0.1149	0.0000	0.000	0.000
61	0.08	0.000	0.021	0.1170	0.0000	0.000	0.000
62	0.00	0.000	0.009	0.1167	0.0000	0.000	0.000
63	0.07	0.000	0.017	0.1186	0.0000	0.000	0.000
64	0.01	0.000	0.016	0.1184	0.0000	0.000	0.000
65	0.00	0.000	0.008	0.1181	0.0000	0.000	0.000
66	0.00	0.000	0.008	0.1178	0.0000	0.000	0.000
67	0.00	0.000	0.008	0.1175	0.0000	0.000	0.000
68	0.00	0.000	0.009	0.1172	0.0000	0.000	0.000
69	0.02	0.000	0.018	0.1172	0.0000	0.000	0.000
70	0.00	0.000	0.011	0.1169	0.0000	0.000	0.000
71	0.00	0.000	0.011	0.1165	0.0000	0.000	0.000
72	0.00	0.000	0.010	0.1161	0.0000	0.000	0.000
73	0.00	0.000	0.010	0.1157	0.0000	0.000	0.000
74	0.00	0.000	0.011	0.1153	0.0000	0.000	0.000
75	0.00	0.000	0.010	0.1150	0.0000	0.000	0.000
76	0.00	0.000	0.010	0.1146	0.0000	0.000	0.000
77	0.00	0.000	0.010	0.1142	0.0000	0.000	0.000
78	0.00	0.000	0.010	0.1138	0.0000	0.000	0.000
79	0.00	0.000	0.010	0.1135	0.0000	0.000	0.000
80	0.00	0.000	0.010	0.1131	0.0000	0.000	0.000
81	0.00	0.000	0.010	0.1127	0.0000	0.000	0.000
82	0.00	0.000	0.010	0.1124	0.0000	0.000	0.000
83	0.00	0.000	0.010	0.1120	0.0000	0.000	0.000
84	0.00	0.000	0.010	0.1116	0.0000	0.000	0.000
85	0.00	0.000	0.011	0.1113	0.0000	0.000	0.000
86	0.00	0.000	0.011	0.1109	0.0000	0.000	0.000
87	0.00	0.000	0.010	0.1105	0.0000	0.000	0.000
88	0.00	0.000	0.010	0.1101	0.0000	0.000	0.000
89	0.00	0.000	0.010	0.1098	0.0000	0.000	0.000
90	0.00	0.000	0.011	0.1094	0.0000	0.000	0.000
91	0.00	0.000	0.010	0.1090	0.0000	0.000	0.000

92	0.00	0.000	0.010	0.1086	0.0000	0.000	0.000
93	0.00	0.000	0.010	0.1083	0.0000	0.000	0.000
94	0.00	0.000	0.010	0.1079	0.0000	0.000	0.000
95	0.00	0.000	0.010	0.1075	0.0000	0.000	0.000
96	0.00	0.000	0.010	0.1072	0.0000	0.000	0.000
97	0.00	0.000	0.010	0.1068	0.0000	0.000	0.000
98	0.00	0.000	0.010	0.1064	0.0000	0.000	0.000
99	0.00	0.000	0.010	0.1061	0.0000	0.000	0.000
100	0.00	0.000	0.011	0.1057	0.0000	0.000	0.000
101	0.00	0.000	0.009	0.1054	0.0000	0.000	0.000
102	0.00	0.000	0.012	0.1049	0.0000	0.000	0.000
103	0.00	0.000	0.013	0.1045	0.0000	0.000	0.000
104	0.00	0.000	0.011	0.1041	0.0000	0.000	0.000
105	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
106	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
107	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
108	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
109	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
110	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
111	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
112	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
113	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
114	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
115	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
116	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
117	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
118	0.26	0.000	0.011	0.1129	0.0000	0.000	0.000
119	0.00	0.000	0.007	0.1126	0.0000	0.000	0.000
120	0.00	0.000	0.007	0.1124	0.0000	0.000	0.000
121	0.00	0.000	0.007	0.1121	0.0000	0.000	0.000
122	0.00	0.000	0.008	0.1119	0.0000	0.000	0.000
123	0.00	0.000	0.009	0.1115	0.0000	0.000	0.000
124	0.00	0.000	0.010	0.1112	0.0000	0.000	0.000
125	0.00	0.000	0.011	0.1108	0.0000	0.000	0.000
126	0.00	0.000	0.011	0.1104	0.0000	0.000	0.000
127	0.00	0.000	0.011	0.1100	0.0000	0.000	0.000
128	0.00	0.000	0.012	0.1096	0.0000	0.000	0.000
129	0.00	0.000	0.012	0.1091	0.0000	0.000	0.000
130	0.00	0.000	0.012	0.1087	0.0000	0.000	0.000
131	0.16	0.000	0.022	0.1137	0.0000	0.000	0.000
132	0.00	0.000	0.011	0.1133	0.0000	0.000	0.000
133	0.17	0.000	0.018	0.1187	0.0000	0.000	0.000
134	0.00	0.000	0.010	0.1183	0.0000	0.000	0.000
135	0.18	0.000	0.018	0.1241	0.0000	0.000	0.000
136	0.22	0.000	0.021	0.1312	0.0000	0.000	0.000
137	0.00	0.000	0.148	0.1259	0.0000	0.000	0.000
138	0.00	0.000	0.013	0.1255	0.0000	0.000	0.000
139	0.00	0.000	0.013	0.1250	0.0000	0.000	0.000
140	0.00	0.000	0.014	0.1245	0.0000	0.000	0.000
141	0.00	0.000	0.014	0.1240	0.0000	0.000	0.000
142	0.00	0.000	0.015	0.1235	0.0000	0.000	0.000
143	0.00	0.000	0.014	0.1230	0.0000	0.000	0.000
144	0.26	0.000	0.025	0.1314	0.0000	0.000	0.000
145	0.05	0.000	0.228	0.1250	0.0000	0.000	0.000
146	0.11	0.000	0.026	0.1280	0.0000	0.000	0.000
147	0.00	0.000	0.019	0.1273	0.0000	0.000	0.000
148	0.00	0.000	0.020	0.1266	0.0000	0.000	0.000
149	0.00	0.000	0.019	0.1259	0.0000	0.000	0.000
150	0.28	0.000	0.030	0.1349	0.0000	0.000	0.000
151	0.00	0.000	0.225	0.1268	0.0000	0.000	0.000
152	0.00	0.000	0.245	0.1181	0.0000	0.000	0.000
153	0.00	0.000	0.021	0.1173	0.0000	0.000	0.000
154	0.00	0.000	0.024	0.1165	0.0000	0.000	0.000
155	0.00	0.000	0.025	0.1156	0.0000	0.000	0.000
156	0.10	0.000	0.038	0.1178	0.0000	0.000	0.000
157	0.41	0.000	0.040	0.1310	0.0000	0.000	0.000
158	0.01	0.000	0.250	0.1224	0.0000	0.000	0.000
159	0.00	0.000	0.028	0.1214	0.0000	0.000	0.000
160	0.00	0.000	0.026	0.1205	0.0000	0.000	0.000
161	0.00	0.000	0.025	0.1196	0.0000	0.000	0.000
162	0.00	0.000	0.023	0.1188	0.0000	0.000	0.000

163	0.00	0.000	0.025	0.1179	0.0000	0.000	0.000
164	0.00	0.000	0.025	0.1170	0.0000	0.000	0.000
165	0.30	0.000	0.034	0.1265	0.0000	0.000	0.000
166	0.00	0.000	0.274	0.1167	0.0000	0.000	0.000
167	0.00	0.000	0.027	0.1157	0.0000	0.000	0.000
168	0.00	0.000	0.025	0.1149	0.0000	0.000	0.000
169	0.00	0.000	0.027	0.1139	0.0000	0.000	0.000
170	0.00	0.000	0.028	0.1129	0.0000	0.000	0.000
171	0.00	0.000	0.029	0.1119	0.0000	0.000	0.000
172	0.00	0.000	0.029	0.1108	0.0000	0.000	0.000
173	0.00	0.000	0.034	0.1096	0.0000	0.000	0.000
174	0.00	0.000	0.040	0.1082	0.0000	0.000	0.000
175	0.00	0.000	0.038	0.1068	0.0000	0.000	0.000
176	0.00	0.000	0.042	0.1053	0.0000	0.000	0.000
177	0.07	0.000	0.041	0.1064	0.0000	0.000	0.000
178	0.00	0.000	0.015	0.1058	0.0000	0.000	0.000
179	0.00	0.000	0.011	0.1054	0.0000	0.000	0.000
180	0.00	0.000	0.009	0.1051	0.0000	0.000	0.000
181	0.00	0.000	0.009	0.1048	0.0000	0.000	0.000
182	0.00	0.000	0.009	0.1045	0.0000	0.000	0.000
183	0.00	0.000	0.009	0.1042	0.0000	0.000	0.000
184	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000
185	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
186	0.00	0.000	0.000	0.1040	0.0000	0.000	.2124E-06
187	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
188	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
189	0.01	0.000	0.010	0.1040	0.0000	0.000	0.000
190	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
191	0.05	0.000	0.018	0.1052	0.0000	0.000	0.000
192	0.50	0.000	0.036	0.1217	0.0000	0.000	0.000
193	0.00	0.000	0.163	0.1159	0.0000	0.000	0.000
194	0.00	0.000	0.237	0.1075	0.0000	0.000	0.000
195	0.00	0.000	0.078	0.1047	0.0000	0.000	0.000
196	0.00	0.000	0.016	0.1041	0.0000	0.000	0.000
197	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
198	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
199	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
200	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
201	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
202	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
203	0.07	0.000	0.022	0.1057	0.0000	0.000	0.000
204	1.13	0.010	0.051	0.1439	0.0000	0.000	0.000
205	0.00	0.000	0.172	0.1377	0.0000	0.000	0.000
206	0.10	0.000	0.240	0.1327	0.0000	0.000	0.000
207	0.23	0.000	0.244	0.1322	0.0000	0.000	0.000
208	0.22	0.000	0.323	0.1285	0.0000	0.000	0.000
209	0.00	0.000	0.303	0.1177	0.0000	0.000	0.000
210	0.00	0.000	0.242	0.1091	0.0000	0.000	0.000
211	0.00	0.000	0.125	0.1046	0.0000	0.000	0.000
212	0.00	0.000	0.013	0.1042	0.0000	0.000	0.000
213	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000
214	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
215	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
216	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
217	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
218	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
219	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
220	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
221	0.82	0.000	0.156	0.1277	0.0000	0.000	0.000
222	0.00	0.000	0.161	0.1220	0.0000	0.000	0.000
223	0.00	0.000	0.198	0.1149	0.0000	0.000	0.000
224	0.00	0.000	0.179	0.1085	0.0000	0.000	0.000
225	0.00	0.000	0.099	0.1049	0.0000	0.000	0.000
226	0.00	0.000	0.022	0.1041	0.0000	0.000	0.000
227	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000
228	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
229	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
230	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
231	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
232	0.20	0.000	0.037	0.1098	0.0000	0.000	0.000
233	0.00	0.000	0.053	0.1079	0.0000	0.000	0.000

234	0.00	0.000	0.084	0.1049	0.0000	0.000	0.000
235	0.02	0.000	0.040	0.1042	0.0000	0.000	0.000
236	1.68	0.111	0.162	0.1544	0.0000	0.000	0.000
237	0.00	0.000	0.223	0.1465	0.0000	0.000	0.000
238	0.00	0.000	0.220	0.1386	0.0000	0.000	0.000
239	0.00	0.000	0.236	0.1302	0.0000	0.000	0.000
240	0.00	0.000	0.259	0.1209	0.0000	0.000	0.000
241	0.00	0.000	0.214	0.1133	0.0000	0.000	0.000
242	0.00	0.000	0.232	0.1050	0.0000	0.000	0.000
243	0.00	0.000	0.024	0.1042	0.0000	0.000	0.000
244	0.00	0.000	0.005	0.1040	0.0000	0.000	0.000
245	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
246	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
247	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
248	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
249	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
250	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
251	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
252	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
253	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
254	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
255	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
256	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
257	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
258	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
259	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
260	0.13	0.000	0.032	0.1075	0.0000	0.000	0.000
261	0.00	0.000	0.022	0.1067	0.0000	0.000	0.000
262	0.00	0.000	0.047	0.1051	0.0000	0.000	0.000
263	0.03	0.000	0.052	0.1043	0.0000	0.000	0.000
264	0.26	0.000	0.043	0.1120	0.0000	0.000	0.000
265	0.38	0.000	0.095	0.1222	0.0000	0.000	0.000
266	0.00	0.000	0.096	0.1188	0.0000	0.000	0.000
267	0.00	0.000	0.154	0.1133	0.0000	0.000	0.000
268	0.00	0.000	0.152	0.1078	0.0000	0.000	0.000
269	0.00	0.000	0.079	0.1050	0.0000	0.000	0.000
270	0.57	0.000	0.110	0.1214	0.0000	0.000	0.000
271	0.43	0.000	0.090	0.1336	0.0000	0.000	0.000
272	0.17	0.000	0.106	0.1359	0.0000	0.000	0.000
273	0.00	0.000	0.131	0.1312	0.0000	0.000	0.000
274	0.00	0.000	0.088	0.1280	0.0000	0.000	0.000
275	0.00	0.000	0.099	0.1245	0.0000	0.000	0.000
276	0.00	0.000	0.100	0.1209	0.0000	0.000	0.000
277	0.00	0.000	0.119	0.1167	0.0000	0.000	0.000
278	0.00	0.000	0.144	0.1115	0.0000	0.000	0.000
279	0.00	0.000	0.139	0.1066	0.0000	0.000	0.000
280	0.00	0.000	0.064	0.1043	0.0000	0.000	0.000
281	0.00	0.000	0.004	0.1041	0.0000	0.000	0.000
282	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
283	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
284	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
285	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
286	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
287	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
288	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
289	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
290	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
291	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
292	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
293	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
294	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
295	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
296	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
297	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
298	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
299	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
300	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
301	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
302	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
303	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
304	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000

305		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
306		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
307		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
308		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
309		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
310		0.12	0.000	0.028	0.1073	0.0000	0.000	0.000
311		0.28	0.000	0.029	0.1162	0.0000	0.000	0.000
312		0.00	0.000	0.059	0.1141	0.0000	0.000	0.000
313		0.00	0.000	0.059	0.1120	0.0000	0.000	0.000
314		0.00	0.000	0.072	0.1094	0.0000	0.000	0.000
315		0.00	0.000	0.079	0.1066	0.0000	0.000	0.000
316		0.00	0.000	0.060	0.1044	0.0000	0.000	0.000
317		0.00	0.000	0.009	0.1041	0.0000	0.000	0.000
318		0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
319		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
320		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
321		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
322		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
323		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
324		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
325		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
326		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
327		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
328		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
329		0.28	0.000	0.025	0.1131	0.0000	0.000	0.000
330		0.00	0.000	0.045	0.1115	0.0000	0.000	0.000
331		0.00	0.000	0.059	0.1094	0.0000	0.000	0.000
332		0.00	0.000	0.083	0.1064	0.0000	0.000	0.000
333		0.00	0.000	0.035	0.1052	0.0000	0.000	0.000
334		0.00	0.000	0.026	0.1043	0.0000	0.000	0.000
335		0.00	0.000	0.005	0.1041	0.0000	0.000	0.000
336		0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
337		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
338		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
339		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
340		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
341		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
342		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
343		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
344	*	0.07	0.000	0.057	0.1045	0.0000	0.000	0.000
345		0.00	0.000	0.007	0.1042	0.0000	0.000	0.000
346	*	0.38	0.000	0.048	0.1049	0.0000	0.000	0.000
347	*	0.21	0.000	0.049	0.1057	0.0000	0.000	0.000
348		0.04	0.000	0.000	0.1100	0.0000	0.000	0.000
349	*	0.02	0.000	0.054	0.1107	0.0000	0.000	0.000
350		0.00	0.000	0.054	0.1169	0.0000	0.000	0.000
351		0.00	0.000	0.093	0.1168	0.0000	0.000	0.000
352		0.00	0.000	0.033	0.1156	0.0000	0.000	0.000
353	*	0.00	0.000	0.042	0.1141	0.0000	0.000	0.000
354		0.01	0.000	0.050	0.1127	0.0000	0.000	0.000
355		0.00	0.000	0.051	0.1108	0.0000	0.000	0.000
356		0.00	0.000	0.057	0.1088	0.0000	0.000	0.000
357		0.00	0.000	0.062	0.1066	0.0000	0.000	0.000
358		0.00	0.000	0.045	0.1050	0.0000	0.000	0.000
359		0.00	0.000	0.025	0.1041	0.0000	0.000	0.000
360		0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
361	*	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
362	*	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
363		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
364		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
365		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.09	0.35	0.30	0.26	1.43	0.89
	2.31	2.72	1.97	0.00	0.68	0.73
RUNOFF	0.007	0.000	0.000	0.000	0.000	0.000
	0.010	0.111	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.013	0.228	0.355	0.176	1.025	1.507
	2.318	2.609	1.213	0.762	0.673	0.736
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.73	4028953.365	100.00
RUNOFF	0.128	40408.058	1.00
EVAPOTRANSPIRATION	12.615	3992520.667	99.10
PERC./LEAKAGE THROUGH LAYER 3	0.000000	0.067	0.00
CHANGE IN WATER STORAGE	-0.013	-3975.367	-0.10
SOIL WATER AT START OF YEAR	5.602	1772990.969	
SOIL WATER AT END OF YEAR	5.589	1769015.602	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.061	0.00

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LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3

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DAILY OUTPUT FOR YEAR 3

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.
1			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
2			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
3			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
4			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
5			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
6			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000

7	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
8	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
9	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
10	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
11	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
12	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
13	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
14	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
15	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
16	0.24	0.000	0.018	0.1120	0.0000	0.000	0.000
17	0.00	0.000	0.050	0.1102	0.0000	0.000	0.000
18	0.00	0.000	0.067	0.1078	0.0000	0.000	0.000
19	0.00	0.000	0.060	0.1056	0.0000	0.000	0.000
20	0.00	0.000	0.020	0.1049	0.0000	0.000	0.000
21	0.00	0.000	0.020	0.1042	0.0000	0.000	0.000
22	0.51	0.000	0.068	0.1200	0.0000	0.000	0.000
23	0.00	0.000	0.048	0.1183	0.0000	0.000	0.000
24	0.00	0.000	0.066	0.1159	0.0000	0.000	0.000
25	0.00	0.000	0.068	0.1135	0.0000	0.000	0.000
26	0.00	0.000	0.065	0.1112	0.0000	0.000	0.000
27	0.00	0.000	0.068	0.1087	0.0000	0.000	0.000
28	0.00	0.000	0.073	0.1061	0.0000	0.000	0.000
29	0.00	0.000	0.046	0.1045	0.0000	0.000	0.000
30	0.00	0.000	0.012	0.1041	0.0000	0.000	0.000
31	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
32	0.26	0.000	0.023	0.1125	0.0000	0.000	0.000
33	0.00	0.000	0.061	0.1103	0.0000	0.000	0.000
34	0.00	0.000	0.070	0.1078	0.0000	0.000	0.000
35	0.00	0.000	0.056	0.1058	0.0000	0.000	0.000
36	0.00	0.000	0.026	0.1049	0.0000	0.000	0.000
37	0.00	0.000	0.019	0.1042	0.0000	0.000	0.000
38	0.00	0.000	0.003	0.1041	0.0000	0.000	0.000
39	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
40	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
41	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
42	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
43	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
44	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
45	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
46	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
47	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
48	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
49	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
50	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
51	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
52	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
53	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
54	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
55	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
56	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
57	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
58	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
59	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
60	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
61	0.15	0.000	0.018	0.1088	0.0000	0.000	0.000
62	0.07	0.000	0.026	0.1103	0.0000	0.000	0.000
63	0.00	0.000	0.069	0.1079	0.0000	0.000	0.000
64	0.00	0.000	0.046	0.1062	0.0000	0.000	0.000
65	0.00	0.000	0.037	0.1049	0.0000	0.000	.3638E-07
66	0.00	0.000	0.019	0.1042	0.0000	0.000	0.000
67	0.00	0.000	0.004	0.1041	0.0000	0.000	0.000
68	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
69	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
70	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
71	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
72	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
73	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
74	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
75	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
76	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
77	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000

78	0.05	0.000	0.018	0.1052	0.0000	0.000	0.000
79	0.11	0.000	0.018	0.1084	0.0000	0.000	0.000
80	0.00	0.000	0.019	0.1078	0.0000	0.000	0.000
81	0.00	0.000	0.052	0.1059	0.0000	0.000	0.000
82	0.00	0.000	0.015	0.1054	0.0000	0.000	0.000
83	0.02	0.000	0.021	0.1053	0.0000	0.000	0.000
84	0.01	0.000	0.012	0.1053	0.0000	0.000	0.000
85	0.00	0.000	0.003	0.1051	0.0000	0.000	0.000
86	0.00	0.000	0.006	0.1049	0.0000	0.000	0.000
87	0.00	0.000	0.005	0.1047	0.0000	0.000	0.000
88	0.00	0.000	0.005	0.1045	0.0000	0.000	0.000
89	0.01	0.000	0.012	0.1045	0.0000	0.000	0.000
90	0.00	0.000	0.003	0.1044	0.0000	0.000	0.000
91	0.00	0.000	0.005	0.1042	0.0000	0.000	0.000
92	0.00	0.000	0.005	0.1040	0.0000	0.000	0.000
93	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
103	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
104	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
105	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
106	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
107	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
108	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
109	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
110	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
111	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
112	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
113	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
114	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
115	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
116	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
117	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
118	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
119	0.11	0.000	0.017	0.1073	0.0000	0.000	0.000
120	0.00	0.000	0.028	0.1063	0.0000	0.000	0.000
121	0.00	0.000	0.008	0.1061	0.0000	0.000	0.000
122	0.00	0.000	0.011	0.1057	0.0000	0.000	0.000
123	0.00	0.000	0.011	0.1053	0.0000	0.000	0.000
124	0.00	0.000	0.010	0.1049	0.0000	0.000	0.000
125	0.00	0.000	0.003	0.1048	0.0000	0.000	0.000
126	0.00	0.000	0.004	0.1046	0.0000	0.000	0.000
127	0.46	0.000	0.023	0.1202	0.0000	0.000	0.000
128	0.00	0.000	0.141	0.1152	0.0000	0.000	0.000
129	0.00	0.000	0.195	0.1083	0.0000	0.000	0.000
130	0.00	0.000	0.076	0.1056	0.0000	0.000	0.000
131	0.00	0.000	0.033	0.1044	0.0000	0.000	0.000
132	0.02	0.000	0.028	0.1041	0.0000	0.000	0.000
133	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
134	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
135	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
136	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
137	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
138	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
139	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
140	0.07	0.000	0.019	0.1058	0.0000	0.000	0.000
141	0.00	0.000	0.004	0.1057	0.0000	0.000	0.000
142	0.00	0.000	0.008	0.1054	0.0000	0.000	0.000
143	0.00	0.000	0.007	0.1051	0.0000	0.000	0.000
144	0.00	0.000	0.007	0.1049	0.0000	0.000	0.000
145	0.00	0.000	0.007	0.1047	0.0000	0.000	0.000
146	0.00	0.000	0.006	0.1044	0.0000	0.000	0.000
147	0.00	0.000	0.006	0.1042	0.0000	0.000	.1905E-05
148	0.11	0.000	0.021	0.1074	0.0000	0.000	.3879E-05

149	0.00	0.000	0.004	0.1073	0.0000	0.000	.2418E-05
150	0.00	0.000	0.012	0.1068	0.0000	0.000	.3729E-05
151	0.00	0.000	0.008	0.1066	0.0000	0.000	.3791E-05
152	0.00	0.000	0.008	0.1063	0.0000	0.000	.5875E-06
153	0.00	0.000	0.006	0.1061	0.0000	0.000	0.000
154	0.00	0.000	0.006	0.1059	0.0000	0.000	.1033E-06
155	0.00	0.000	0.006	0.1057	0.0000	0.000	0.000
156	0.00	0.000	0.005	0.1055	0.0000	0.000	0.000
157	0.00	0.000	0.005	0.1053	0.0000	0.000	0.000
158	0.00	0.000	0.005	0.1051	0.0000	0.000	0.000
159	0.00	0.000	0.005	0.1049	0.0000	0.000	.1449E-05
160	0.00	0.000	0.005	0.1047	0.0000	0.000	0.000
161	0.00	0.000	0.005	0.1046	0.0000	0.000	0.000
162	0.00	0.000	0.005	0.1044	0.0000	0.000	0.000
163	0.00	0.000	0.005	0.1042	0.0000	0.000	.1876E-05
164	0.00	0.000	0.005	0.1041	0.0000	0.000	.3737E-05
165	0.00	0.000	0.002	0.1040	0.0000	0.000	.3406E-05
166	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
167	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
168	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
169	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
170	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
171	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
172	0.10	0.000	0.018	0.1069	0.0000	0.000	0.000
173	0.00	0.000	0.002	0.1069	0.0000	0.000	0.000
174	0.00	0.000	0.007	0.1066	0.0000	0.000	0.000
175	0.00	0.000	0.006	0.1064	0.0000	0.000	0.000
176	0.00	0.000	0.005	0.1062	0.0000	0.000	0.000
177	0.00	0.000	0.005	0.1060	0.0000	0.000	0.000
178	0.00	0.000	0.005	0.1059	0.0000	0.000	0.000
179	0.01	0.000	0.011	0.1058	0.0000	0.000	0.000
180	0.06	0.000	0.018	0.1073	0.0000	0.000	0.000
181	0.00	0.000	0.002	0.1073	0.0000	0.000	.2994E-05
182	0.00	0.000	0.009	0.1069	0.0000	0.000	.5945E-06
183	0.00	0.000	0.007	0.1067	0.0000	0.000	0.000
184	0.00	0.000	0.006	0.1065	0.0000	0.000	0.000
185	0.00	0.000	0.005	0.1063	0.0000	0.000	0.000
186	0.00	0.000	0.005	0.1061	0.0000	0.000	0.000
187	0.00	0.000	0.004	0.1060	0.0000	0.000	0.000
188	0.00	0.000	0.004	0.1058	0.0000	0.000	0.000
189	0.03	0.000	0.017	0.1063	0.0000	0.000	0.000
190	0.00	0.000	0.002	0.1062	0.0000	0.000	0.000
191	0.00	0.000	0.005	0.1060	0.0000	0.000	0.000
192	0.00	0.000	0.004	0.1059	0.0000	0.000	0.000
193	0.43	0.000	0.025	0.1203	0.0000	0.000	0.000
194	0.03	0.000	0.161	0.1156	0.0000	0.000	0.000
195	1.28	0.030	0.239	0.1518	0.0000	0.000	0.000
196	0.05	0.000	0.267	0.1440	0.0000	0.000	0.000
197	0.33	0.000	0.237	0.1473	0.0000	0.000	0.000
198	0.00	0.000	0.281	0.1373	0.0000	0.000	0.000
199	0.00	0.000	0.248	0.1285	0.0000	0.000	.5834E-07
200	0.00	0.000	0.284	0.1183	0.0000	0.000	0.000
201	1.22	0.020	0.276	0.1513	0.0000	0.000	0.000
202	0.48	0.000	0.263	0.1591	0.0000	0.000	0.000
203	0.98	0.019	0.309	0.1824	0.0000	0.000	0.000
204	0.00	0.000	0.279	0.1724	0.0000	0.000	0.000
205	0.00	0.000	0.268	0.1628	0.0000	0.000	0.000
206	0.00	0.000	0.269	0.1532	0.0000	0.000	0.000
207	0.00	0.000	0.284	0.1431	0.0000	0.000	0.000
208	0.00	0.000	0.262	0.1337	0.0000	0.000	0.000
209	0.10	0.000	0.225	0.1293	0.0000	0.000	0.000
210	0.00	0.000	0.092	0.1260	0.0000	0.000	0.000
211	0.00	0.000	0.072	0.1234	0.0000	0.000	0.000
212	0.00	0.000	0.064	0.1211	0.0000	0.000	0.000
213	0.00	0.000	0.056	0.1191	0.0000	0.000	0.000
214	0.00	0.000	0.054	0.1172	0.0000	0.000	0.000
215	0.00	0.000	0.051	0.1154	0.0000	0.000	0.000
216	0.00	0.000	0.049	0.1136	0.0000	0.000	0.000
217	0.00	0.000	0.046	0.1120	0.0000	0.000	0.000
218	0.00	0.000	0.046	0.1103	0.0000	0.000	0.000
219	0.00	0.000	0.044	0.1088	0.0000	0.000	0.000

220	0.00	0.000	0.044	0.1072	0.0000	0.000	0.000
221	0.00	0.000	0.043	0.1056	0.0000	0.000	0.000
222	0.00	0.000	0.022	0.1049	0.0000	0.000	0.000
223	0.00	0.000	0.017	0.1042	0.0000	0.000	0.000
224	0.01	0.000	0.017	0.1040	0.0000	0.000	0.000
225	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
226	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
227	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
228	0.19	0.000	0.021	0.1100	0.0000	0.000	0.000
229	0.34	0.000	0.035	0.1209	0.0000	0.000	0.000
230	0.70	0.000	0.035	0.1446	0.0000	0.000	0.000
231	0.29	0.000	0.195	0.1480	0.0000	0.000	0.000
232	0.00	0.000	0.221	0.1401	0.0000	0.000	0.000
233	0.00	0.000	0.198	0.1331	0.0000	0.000	.7852E-06
234	0.00	0.000	0.231	0.1248	0.0000	0.000	.3575E-05
235	0.00	0.000	0.202	0.1176	0.0000	0.000	0.000
236	0.00	0.000	0.094	0.1142	0.0000	0.000	0.000
237	0.00	0.000	0.080	0.1114	0.0000	0.000	0.000
238	0.00	0.000	0.070	0.1089	0.0000	0.000	0.000
239	0.00	0.000	0.062	0.1066	0.0000	0.000	0.000
240	0.00	0.000	0.052	0.1048	0.0000	0.000	0.000
241	0.00	0.000	0.018	0.1041	0.0000	0.000	0.000
242	0.00	0.000	0.004	0.1040	0.0000	0.000	0.000
243	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
244	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
245	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
246	0.16	0.000	0.024	0.1089	0.0000	0.000	0.000
247	0.00	0.000	0.005	0.1087	0.0000	0.000	0.000
248	0.00	0.000	0.024	0.1078	0.0000	0.000	0.000
249	0.00	0.000	0.033	0.1067	0.0000	0.000	0.000
250	0.00	0.000	0.012	0.1062	0.0000	0.000	0.000
251	0.00	0.000	0.012	0.1058	0.0000	0.000	0.000
252	0.00	0.000	0.009	0.1055	0.0000	0.000	0.000
253	0.74	0.000	0.038	0.1306	0.0000	0.000	0.000
254	0.00	0.000	0.113	0.1265	0.0000	0.000	0.000
255	0.00	0.000	0.148	0.1212	0.0000	0.000	0.000
256	0.00	0.000	0.135	0.1164	0.0000	0.000	0.000
257	0.00	0.000	0.078	0.1136	0.0000	0.000	0.000
258	0.00	0.000	0.061	0.1114	0.0000	0.000	0.000
259	0.00	0.000	0.045	0.1098	0.0000	0.000	0.000
260	0.00	0.000	0.050	0.1080	0.0000	0.000	0.000
261	0.00	0.000	0.050	0.1063	0.0000	0.000	0.000
262	0.00	0.000	0.047	0.1046	0.0000	0.000	0.000
263	0.00	0.000	0.013	0.1041	0.0000	0.000	0.000
264	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000
265	0.44	0.000	0.041	0.1183	0.0000	0.000	0.000
266	0.00	0.000	0.021	0.1175	0.0000	0.000	0.000
267	0.00	0.000	0.021	0.1168	0.0000	0.000	0.000
268	0.51	0.000	0.044	0.1334	0.0000	0.000	0.000
269	0.00	0.000	0.076	0.1307	0.0000	0.000	0.000
270	0.00	0.000	0.132	0.1260	0.0000	0.000	0.000
271	0.19	0.000	0.137	0.1279	0.0000	0.000	0.000
272	0.00	0.000	0.130	0.1232	0.0000	0.000	0.000
273	0.00	0.000	0.106	0.1194	0.0000	0.000	0.000
274	0.00	0.000	0.117	0.1153	0.0000	0.000	0.000
275	0.00	0.000	0.073	0.1127	0.0000	0.000	0.000
276	0.00	0.000	0.056	0.1107	0.0000	0.000	0.000
277	0.00	0.000	0.046	0.1090	0.0000	0.000	0.000
278	0.00	0.000	0.049	0.1073	0.0000	0.000	0.000
279	0.00	0.000	0.047	0.1056	0.0000	0.000	0.000
280	0.00	0.000	0.034	0.1044	0.0000	0.000	0.000
281	0.00	0.000	0.010	0.1040	0.0000	0.000	0.000
282	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
283	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
284	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
285	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
286	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
287	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
288	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
289	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
290	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000

291		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
292		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
293		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
294		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
295		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
296		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
297		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
298		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
299		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
300		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
301		0.02	0.000	0.015	0.1042	0.0000	0.000	0.000
302		0.00	0.000	0.002	0.1041	0.0000	0.000	0.000
303		0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
304		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
305		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
306		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
307		0.29	0.000	0.023	0.1135	0.0000	0.000	0.000
308		0.00	0.000	0.009	0.1132	0.0000	0.000	0.000
309		0.91	0.000	0.030	0.1446	0.0000	0.000	0.000
310		0.08	0.000	0.086	0.1444	0.0000	0.000	0.000
311		0.94	0.007	0.093	0.1744	0.0000	0.000	0.000
312		0.23	0.000	0.086	0.1795	0.0000	0.000	0.000
313		0.00	0.000	0.075	0.1768	0.0000	0.000	0.000
314		0.00	0.000	0.072	0.1743	0.0000	0.000	0.000
315		0.00	0.000	0.077	0.1715	0.0000	0.000	0.000
316		0.00	0.000	0.084	0.1685	0.0000	0.000	0.000
317		0.00	0.000	0.095	0.1651	0.0000	0.000	0.000
318		0.00	0.000	0.085	0.1621	0.0000	0.000	0.000
319		0.10	0.000	0.094	0.1623	0.0000	0.000	0.000
320		0.09	0.000	0.106	0.1617	0.0000	0.000	0.000
321		1.01	0.011	0.112	0.1934	0.0000	0.000	0.000
322		0.56	0.000	0.106	0.2097	0.0000	0.000	0.000
323		0.49	0.000	0.097	0.2237	0.0000	0.000	0.000
324		0.03	0.000	0.091	0.2215	0.0000	0.000	0.000
325		0.45	0.000	0.094	0.2342	0.0000	0.000	0.000
326		0.00	0.000	0.066	0.2319	0.0000	0.000	0.000
327		0.00	0.000	0.076	0.2292	0.0000	0.000	0.000
328		0.00	0.000	0.069	0.2267	0.0000	0.000	0.000
329		0.00	0.000	0.078	0.2239	0.0000	0.000	0.000
330		0.00	0.000	0.089	0.2207	0.0000	0.000	0.000
331		0.00	0.000	0.084	0.2177	0.0000	0.000	0.000
332		0.00	0.000	0.065	0.2154	0.0000	0.000	0.000
333		0.00	0.000	0.052	0.2135	0.0000	0.000	0.000
334		0.00	0.000	0.064	0.2113	0.0000	0.000	0.000
335		0.00	0.000	0.061	0.2091	0.0000	0.000	0.000
336		0.00	0.000	0.069	0.2066	0.0000	0.000	0.000
337		0.00	0.000	0.067	0.2042	0.0000	0.000	0.000
338		0.00	0.000	0.062	0.2020	0.0000	0.000	0.000
339		0.00	0.000	0.057	0.2000	0.0000	0.000	0.000
340	*	0.00	0.000	0.040	0.1986	0.0000	0.000	0.000
341	*	0.00	0.000	0.043	0.1970	0.0000	0.000	0.000
342	*	0.00	0.000	0.048	0.1953	0.0000	0.000	0.000
343	*	0.00	0.000	0.047	0.1936	0.0000	0.000	0.000
344		0.00	0.000	0.062	0.1914	0.0000	0.000	0.000
345		0.00	0.000	0.068	0.1890	0.0000	0.000	0.000
346		0.00	0.000	0.073	0.1864	0.0000	0.000	0.000
347		0.00	0.000	0.063	0.1841	0.0000	0.000	0.000
348		0.00	0.000	0.064	0.1818	0.0000	0.000	0.000
349		0.00	0.000	0.054	0.1799	0.0000	0.000	0.000
350		0.00	0.000	0.047	0.1782	0.0000	0.000	0.000
351		0.00	0.000	0.043	0.1767	0.0000	0.000	0.000
352		0.00	0.000	0.039	0.1753	0.0000	0.000	0.000
353		0.00	0.000	0.037	0.1740	0.0000	0.000	0.000
354		0.00	0.000	0.034	0.1727	0.0000	0.000	0.000
355		0.00	0.000	0.033	0.1716	0.0000	0.000	0.000
356		0.00	0.000	0.031	0.1705	0.0000	0.000	0.000
357		0.00	0.000	0.030	0.1694	0.0000	0.000	0.000
358		0.00	0.000	0.028	0.1684	0.0000	0.000	0.000
359		0.00	0.000	0.027	0.1674	0.0000	0.000	0.000
360		0.00	0.000	0.026	0.1665	0.0000	0.000	0.000
361		0.00	0.000	0.025	0.1656	0.0000	0.000	0.000

362		0.00	0.000	0.025	0.1647	0.0000	0.000	0.000
363	*	0.06	0.000	0.069	0.1644	0.0000	0.000	0.000
364		0.07	0.000	0.034	0.1656	0.0000	0.000	0.000
365		0.00	0.000	0.023	0.1648	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.75	0.26	0.42	0.11	0.66	0.17
	4.93	1.53	2.04	0.02	5.18	0.13
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.068	0.000	0.000	0.000	0.018	0.000
EVAPOTRANSPIRATION	0.749	0.261	0.410	0.055	0.653	0.151
	4.473	2.009	1.608	0.452	2.159	1.430
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.20	5127183.386	100.00
RUNOFF	0.086	27321.149	0.53
EVAPOTRANSPIRATION	14.411	4560987.530	88.96
PERC./LEAKAGE THROUGH LAYER 3	0.000035	11.053	0.00
CHANGE IN WATER STORAGE	1.703	538863.731	10.51
SOIL WATER AT START OF YEAR	5.589	1769015.602	
SOIL WATER AT END OF YEAR	7.292	2307879.333	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.077	0.00

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LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3

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DAILY OUTPUT FOR YEAR 4

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.
1			0.00	0.000	0.022	0.1640	0.0000	0.000	0.000
2			0.00	0.000	0.022	0.1633	0.0000	0.000	0.000
3			0.00	0.000	0.021	0.1624	0.0000	0.000	0.000
4			0.00	0.000	0.021	0.1616	0.0000	0.000	0.000
5			0.00	0.000	0.020	0.1608	0.0000	0.000	0.000
6			0.00	0.000	0.020	0.1600	0.0000	0.000	0.000
7			0.00	0.000	0.019	0.1593	0.0000	0.000	0.000
8			0.00	0.000	0.019	0.1585	0.0000	0.000	0.000
9			0.00	0.000	0.019	0.1578	0.0000	0.000	0.000
10			0.00	0.000	0.018	0.1571	0.0000	0.000	0.000
11			0.00	0.000	0.018	0.1563	0.0000	0.000	0.000
12			0.00	0.000	0.018	0.1556	0.0000	0.000	0.000
13			0.00	0.000	0.018	0.1549	0.0000	0.000	0.000
14			0.00	0.000	0.017	0.1543	0.0000	0.000	0.000
15			0.00	0.000	0.017	0.1536	0.0000	0.000	0.000
16			0.00	0.000	0.017	0.1529	0.0000	0.000	0.000
17	*		0.00	0.000	0.017	0.1523	0.0000	0.000	0.000
18	*		0.00	0.000	0.016	0.1516	0.0000	0.000	0.000
19			0.00	0.000	0.016	0.1510	0.0000	0.000	0.000
20			0.00	0.000	0.016	0.1503	0.0000	0.000	0.000
21			0.00	0.000	0.016	0.1497	0.0000	0.000	0.000
22			0.00	0.000	0.016	0.1491	0.0000	0.000	0.000
23			0.00	0.000	0.015	0.1485	0.0000	0.000	0.000
24			0.00	0.000	0.015	0.1479	0.0000	0.000	0.000
25			0.00	0.000	0.015	0.1473	0.0000	0.000	0.000
26			0.00	0.000	0.015	0.1467	0.0000	0.000	0.000
27			0.00	0.000	0.015	0.1461	0.0000	0.000	0.000
28			0.00	0.000	0.015	0.1456	0.0000	0.000	0.000
29			0.00	0.000	0.014	0.1450	0.0000	0.000	0.000
30			0.00	0.000	0.014	0.1444	0.0000	0.000	0.000
31			0.00	0.000	0.014	0.1439	0.0000	0.000	0.000
32			0.00	0.000	0.014	0.1433	0.0000	0.000	0.000
33			0.00	0.000	0.014	0.1428	0.0000	0.000	0.000
34			0.00	0.000	0.014	0.1422	0.0000	0.000	0.000
35			0.00	0.000	0.014	0.1417	0.0000	0.000	0.000
36			0.00	0.000	0.013	0.1412	0.0000	0.000	0.000
37			0.00	0.000	0.013	0.1406	0.0000	0.000	0.000
38			0.00	0.000	0.013	0.1401	0.0000	0.000	0.000
39			0.00	0.000	0.013	0.1396	0.0000	0.000	0.000
40			0.00	0.000	0.013	0.1391	0.0000	0.000	0.000
41			0.19	0.000	0.019	0.1451	0.0000	0.000	0.000
42			0.00	0.000	0.013	0.1446	0.0000	0.000	0.000
43			0.00	0.000	0.013	0.1441	0.0000	0.000	0.000
44			0.00	0.000	0.013	0.1436	0.0000	0.000	0.000
45			0.00	0.000	0.012	0.1431	0.0000	0.000	0.000
46			0.00	0.000	0.012	0.1426	0.0000	0.000	0.000
47			0.00	0.000	0.012	0.1421	0.0000	0.000	0.000
48			0.02	0.000	0.017	0.1421	0.0000	0.000	0.000
49			0.00	0.000	0.012	0.1416	0.0000	0.000	0.000
50			0.00	0.000	0.012	0.1411	0.0000	0.000	0.000
51			0.00	0.000	0.012	0.1407	0.0000	0.000	0.000
52			0.00	0.000	0.012	0.1402	0.0000	0.000	0.000
53			0.00	0.000	0.012	0.1397	0.0000	0.000	0.000
54			0.00	0.000	0.012	0.1392	0.0000	0.000	0.000
55			0.00	0.000	0.012	0.1388	0.0000	0.000	0.000
56			0.00	0.000	0.012	0.1383	0.0000	0.000	0.000
57			0.00	0.000	0.011	0.1378	0.0000	0.000	0.000
58			0.00	0.000	0.011	0.1374	0.0000	0.000	0.000
59			0.00	0.000	0.010	0.1370	0.0000	0.000	0.000
60			0.00	0.000	0.011	0.1365	0.0000	0.000	0.000
61			0.00	0.000	0.011	0.1361	0.0000	0.000	0.000
62			0.00	0.000	0.011	0.1356	0.0000	0.000	0.000
63			0.00	0.000	0.011	0.1352	0.0000	0.000	0.000

64	0.00	0.000	0.011	0.1348	0.0000	0.000	0.000
65	0.00	0.000	0.011	0.1344	0.0000	0.000	0.000
66	0.00	0.000	0.011	0.1339	0.0000	0.000	0.000
67	0.00	0.000	0.011	0.1335	0.0000	0.000	0.000
68	0.00	0.000	0.011	0.1331	0.0000	0.000	0.000
69	0.00	0.000	0.011	0.1327	0.0000	0.000	0.000
70	0.00	0.000	0.011	0.1322	0.0000	0.000	0.000
71	0.00	0.000	0.011	0.1318	0.0000	0.000	0.000
72	0.00	0.000	0.011	0.1314	0.0000	0.000	0.000
73	0.00	0.000	0.011	0.1309	0.0000	0.000	0.000
74	0.00	0.000	0.011	0.1305	0.0000	0.000	0.000
75	0.00	0.000	0.010	0.1301	0.0000	0.000	0.000
76	0.00	0.000	0.011	0.1297	0.0000	0.000	0.000
77	0.00	0.000	0.011	0.1292	0.0000	0.000	0.000
78	0.00	0.000	0.011	0.1288	0.0000	0.000	0.000
79	0.00	0.000	0.011	0.1284	0.0000	0.000	0.000
80	0.00	0.000	0.011	0.1280	0.0000	0.000	0.000
81	0.00	0.000	0.011	0.1275	0.0000	0.000	0.000
82	0.00	0.000	0.011	0.1271	0.0000	0.000	0.000
83	0.00	0.000	0.011	0.1267	0.0000	0.000	0.000
84	0.00	0.000	0.011	0.1262	0.0000	0.000	0.000
85	0.00	0.000	0.011	0.1258	0.0000	0.000	0.000
86	0.00	0.000	0.011	0.1254	0.0000	0.000	0.000
87	0.00	0.000	0.011	0.1249	0.0000	0.000	0.000
88	0.04	0.000	0.015	0.1258	0.0000	0.000	0.000
89	0.00	0.000	0.011	0.1254	0.0000	0.000	0.000
90	0.00	0.000	0.011	0.1249	0.0000	0.000	0.000
91	0.00	0.000	0.011	0.1245	0.0000	0.000	0.000
92	0.00	0.000	0.011	0.1241	0.0000	0.000	0.000
93	0.00	0.000	0.011	0.1236	0.0000	0.000	0.000
94	0.00	0.000	0.012	0.1232	0.0000	0.000	0.000
95	0.00	0.000	0.011	0.1228	0.0000	0.000	0.000
96	0.00	0.000	0.012	0.1223	0.0000	0.000	0.000
97	0.00	0.000	0.012	0.1218	0.0000	0.000	0.000
98	0.00	0.000	0.012	0.1214	0.0000	0.000	0.000
99	0.00	0.000	0.012	0.1209	0.0000	0.000	0.000
100	0.00	0.000	0.013	0.1204	0.0000	0.000	0.000
101	0.00	0.000	0.012	0.1200	0.0000	0.000	0.000
102	0.00	0.000	0.009	0.1196	0.0000	0.000	0.000
103	0.00	0.000	0.006	0.1193	0.0000	0.000	0.000
104	0.00	0.000	0.005	0.1191	0.0000	0.000	0.000
105	0.00	0.000	0.004	0.1188	0.0000	0.000	0.000
106	0.00	0.000	0.003	0.1185	0.0000	0.000	0.000
107	0.00	0.000	0.003	0.1182	0.0000	0.000	0.000
108	0.00	0.000	0.004	0.1179	0.0000	0.000	0.000
109	0.00	0.000	0.004	0.1176	0.0000	0.000	0.000
110	0.00	0.000	0.005	0.1173	0.0000	0.000	0.000
111	0.00	0.000	0.005	0.1169	0.0000	0.000	0.000
112	0.00	0.000	0.005	0.1165	0.0000	0.000	0.000
113	0.00	0.000	0.005	0.1161	0.0000	0.000	0.000
114	0.25	0.000	0.009	0.1246	0.0000	0.000	0.000
115	0.00	0.000	0.010	0.1241	0.0000	0.000	0.000
116	0.00	0.000	0.010	0.1236	0.0000	0.000	0.000
117	0.00	0.000	0.010	0.1231	0.0000	0.000	0.000
118	0.00	0.000	0.012	0.1226	0.0000	0.000	0.000
119	0.00	0.000	0.013	0.1219	0.0000	0.000	0.000
120	0.00	0.000	0.014	0.1213	0.0000	0.000	0.000
121	0.00	0.000	0.013	0.1208	0.0000	0.000	0.000
122	0.00	0.000	0.015	0.1201	0.0000	0.000	0.000
123	0.00	0.000	0.016	0.1194	0.0000	0.000	0.000
124	0.00	0.000	0.017	0.1188	0.0000	0.000	0.000
125	0.00	0.000	0.017	0.1182	0.0000	0.000	0.000
126	0.00	0.000	0.016	0.1177	0.0000	0.000	0.000
127	0.00	0.000	0.016	0.1171	0.0000	0.000	0.000
128	0.00	0.000	0.017	0.1164	0.0000	0.000	0.000
129	0.00	0.000	0.018	0.1158	0.0000	0.000	0.000
130	0.00	0.000	0.019	0.1151	0.0000	0.000	0.000
131	0.00	0.000	0.020	0.1144	0.0000	0.000	0.000
132	0.00	0.000	0.022	0.1136	0.0000	0.000	0.000
133	0.00	0.000	0.021	0.1129	0.0000	0.000	0.000
134	0.00	0.000	0.021	0.1121	0.0000	0.000	0.000

135	0.00	0.000	0.020	0.1114	0.0000	0.000	0.000
136	0.00	0.000	0.020	0.1107	0.0000	0.000	0.000
137	0.00	0.000	0.018	0.1101	0.0000	0.000	0.000
138	0.00	0.000	0.018	0.1094	0.0000	0.000	0.000
139	0.00	0.000	0.018	0.1088	0.0000	0.000	0.000
140	0.00	0.000	0.019	0.1081	0.0000	0.000	0.000
141	0.00	0.000	0.018	0.1075	0.0000	0.000	0.000
142	0.11	0.000	0.024	0.1106	0.0000	0.000	0.000
143	0.00	0.000	0.023	0.1098	0.0000	0.000	0.000
144	0.00	0.000	0.028	0.1088	0.0000	0.000	0.000
145	0.00	0.000	0.029	0.1077	0.0000	0.000	0.000
146	0.00	0.000	0.029	0.1067	0.0000	0.000	0.000
147	0.00	0.000	0.015	0.1061	0.0000	0.000	0.000
148	0.00	0.000	0.007	0.1059	0.0000	0.000	0.000
149	0.00	0.000	0.006	0.1057	0.0000	0.000	0.000
150	0.00	0.000	0.006	0.1055	0.0000	0.000	0.000
151	0.00	0.000	0.006	0.1053	0.0000	0.000	0.000
152	0.00	0.000	0.006	0.1050	0.0000	0.000	0.000
153	0.00	0.000	0.006	0.1048	0.0000	0.000	0.000
154	0.00	0.000	0.006	0.1046	0.0000	0.000	0.000
155	0.00	0.000	0.007	0.1043	0.0000	0.000	0.000
156	0.00	0.000	0.007	0.1041	0.0000	0.000	0.000
157	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
158	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
159	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
160	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
161	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
162	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
163	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
164	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
165	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
166	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
167	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
168	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
169	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
170	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
171	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
172	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
173	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
174	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
175	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
176	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
177	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
178	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
179	0.01	0.000	0.008	0.1041	0.0000	0.000	0.000
180	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
181	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
182	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
183	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
184	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
185	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
186	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
187	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
188	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
189	0.33	0.000	0.009	0.1155	0.0000	0.000	0.000
190	0.00	0.000	0.016	0.1149	0.0000	0.000	0.000
191	1.68	0.117	0.021	0.1700	0.0000	0.000	0.000
192	0.08	0.000	0.297	0.1622	0.0000	0.000	0.000
193	0.00	0.000	0.350	0.1497	0.0000	0.000	0.000
194	0.28	0.000	0.030	0.1586	0.0000	0.000	0.000
195	0.00	0.000	0.033	0.1575	0.0000	0.000	0.000
196	0.00	0.000	0.036	0.1562	0.0000	0.000	0.000
197	0.00	0.000	0.036	0.1549	0.0000	0.000	0.000
198	0.00	0.000	0.037	0.1536	0.0000	0.000	0.000
199	0.00	0.000	0.036	0.1523	0.0000	0.000	0.000
200	0.00	0.000	0.035	0.1510	0.0000	0.000	0.000
201	0.00	0.000	0.034	0.1498	0.0000	0.000	0.000
202	0.00	0.000	0.038	0.1484	0.0000	0.000	0.000
203	0.19	0.000	0.044	0.1536	0.0000	0.000	0.000
204	0.05	0.000	0.321	0.1440	0.0000	0.000	0.000
205	0.07	0.000	0.045	0.1448	0.0000	0.000	0.000

206	0.56	0.000	0.047	0.1632	0.0000	0.000	0.000
207	0.00	0.000	0.365	0.1501	0.0000	0.000	0.000
208	0.00	0.000	0.346	0.1378	0.0000	0.000	0.000
209	0.00	0.000	0.245	0.1290	0.0000	0.000	0.000
210	0.00	0.000	0.133	0.1243	0.0000	0.000	0.000
211	0.32	0.000	0.112	0.1317	0.0000	0.000	0.000
212	0.00	0.000	0.101	0.1281	0.0000	0.000	0.000
213	0.00	0.000	0.098	0.1246	0.0000	0.000	0.000
214	0.00	0.000	0.094	0.1212	0.0000	0.000	0.000
215	0.00	0.000	0.089	0.1181	0.0000	0.000	0.000
216	0.01	0.000	0.082	0.1155	0.0000	0.000	0.000
217	0.00	0.000	0.079	0.1127	0.0000	0.000	0.000
218	0.00	0.000	0.094	0.1093	0.0000	0.000	0.000
219	1.23	0.021	0.095	0.1491	0.0000	0.000	0.000
220	0.79	0.001	0.271	0.1675	0.0000	0.000	0.000
221	0.00	0.000	0.264	0.1581	0.0000	0.000	0.000
222	0.00	0.000	0.273	0.1484	0.0000	0.000	0.000
223	0.00	0.000	0.309	0.1373	0.0000	0.000	0.000
224	0.50	0.000	0.300	0.1445	0.0000	0.000	0.000
225	0.65	0.000	0.295	0.1571	0.0000	0.000	0.000
226	0.00	0.000	0.338	0.1451	0.0000	0.000	0.000
227	0.00	0.000	0.341	0.1329	0.0000	0.000	0.000
228	0.34	0.000	0.322	0.1335	0.0000	0.000	0.000
229	0.00	0.000	0.322	0.1220	0.0000	0.000	0.000
230	0.00	0.000	0.279	0.1121	0.0000	0.000	0.000
231	0.00	0.000	0.146	0.1068	0.0000	0.000	0.000
232	0.00	0.000	0.066	0.1045	0.0000	0.000	0.000
233	0.00	0.000	0.011	0.1041	0.0000	0.000	0.000
234	0.99	0.001	0.075	0.1367	0.0000	0.000	0.000
235	0.53	0.000	0.128	0.1511	0.0000	0.000	0.000
236	0.00	0.000	0.191	0.1443	0.0000	0.000	0.000
237	0.00	0.000	0.241	0.1357	0.0000	0.000	0.000
238	0.00	0.000	0.297	0.1251	0.0000	0.000	0.000
239	0.00	0.000	0.308	0.1140	0.0000	0.000	0.000
240	1.08	0.006	0.272	0.1427	0.0000	0.000	0.000
241	0.00	0.000	0.264	0.1333	0.0000	0.000	0.000
242	0.00	0.000	0.204	0.1260	0.0000	0.000	0.000
243	0.00	0.000	0.178	0.1196	0.0000	0.000	0.000
244	0.02	0.000	0.206	0.1130	0.0000	0.000	0.000
245	0.00	0.000	0.208	0.1055	0.0000	0.000	0.000
246	0.00	0.000	0.035	0.1043	0.0000	0.000	0.000
247	0.00	0.000	0.007	0.1040	0.0000	0.000	0.000
248	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
249	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
250	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
251	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
252	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
253	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
254	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
255	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
256	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
257	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
258	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
259	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
260	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
261	0.12	0.000	0.043	0.1068	0.0000	0.000	0.000
262	0.00	0.000	0.027	0.1058	0.0000	0.000	0.000
263	0.00	0.000	0.043	0.1043	0.0000	0.000	0.000
264	0.00	0.000	0.006	0.1041	0.0000	0.000	0.000
265	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
266	0.01	0.000	0.010	0.1040	0.0000	0.000	0.000
267	0.04	0.000	0.031	0.1043	0.0000	0.000	0.000
268	0.00	0.000	0.005	0.1041	0.0000	0.000	0.000
269	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000
270	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
271	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
272	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
273	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
274	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
275	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
276	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000

277	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
278	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
279	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
280	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
281	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
282	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
283	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
284	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
285	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
286	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
287	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
288	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
289	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
290	0.05	0.000	0.030	0.1047	0.0000	0.000	0.000
291	0.10	0.000	0.033	0.1071	0.0000	0.000	0.000
292	0.69	0.000	0.088	0.1286	0.0000	0.000	0.000
293	0.34	0.000	0.064	0.1385	0.0000	0.000	0.000
294	0.00	0.000	0.081	0.1356	0.0000	0.000	0.000
295	0.00	0.000	0.094	0.1322	0.0000	0.000	0.000
296	0.00	0.000	0.107	0.1284	0.0000	0.000	0.000
297	0.00	0.000	0.106	0.1246	0.0000	0.000	0.000
298	0.00	0.000	0.105	0.1209	0.0000	0.000	0.000
299	0.00	0.000	0.088	0.1177	0.0000	0.000	0.000
300	0.00	0.000	0.102	0.1141	0.0000	0.000	0.000
301	0.00	0.000	0.107	0.1103	0.0000	0.000	0.000
302	0.00	0.000	0.090	0.1070	0.0000	0.000	0.000
303	0.00	0.000	0.076	0.1043	0.0000	0.000	0.000
304	0.00	0.000	0.004	0.1042	0.0000	0.000	0.000
305	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
306	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
307	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
308	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
309	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
310	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
311	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
312	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
313	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
314	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
315	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
316	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
317	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
318	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
319	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
320	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
321	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
322	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
323	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
324	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
325	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
326	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
327	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
328	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
329	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
330	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
331	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
332	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
333	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
334	0.11	0.000	0.020	0.1073	0.0000	0.000	0.000
335	0.00	0.000	0.011	0.1069	0.0000	0.000	0.000
336	0.00	0.000	0.023	0.1061	0.0000	0.000	0.000
337	0.00	0.000	0.019	0.1054	0.0000	0.000	0.000
338	0.00	0.000	0.020	0.1047	0.0000	0.000	0.000
339	0.00	0.000	0.014	0.1042	0.0000	0.000	0.000
340	0.00	0.000	0.002	0.1041	0.0000	0.000	0.000
341	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
342	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
343	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
344	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
345	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
346	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
347	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000

348		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
349		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
350		0.02	0.000	0.017	0.1042	0.0000	0.000	0.000
351	*	0.01	0.000	0.012	0.1041	0.0000	0.000	0.000
352		0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
353		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
354	*	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
355		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
356		0.03	0.000	0.019	0.1045	0.0000	0.000	0.000
357		0.01	0.000	0.016	0.1043	0.0000	0.000	0.000
358		0.04	0.000	0.026	0.1048	0.0000	0.000	0.000
359		0.00	0.000	0.011	0.1044	0.0000	0.000	0.000
360		0.27	0.000	0.030	0.1129	0.0000	0.000	0.000
361		0.01	0.000	0.049	0.1116	0.0000	0.000	0.000
362		0.02	0.000	0.061	0.1101	0.0000	0.000	0.000
363		0.01	0.000	0.065	0.1081	0.0000	0.000	0.000
364		0.05	0.000	0.053	0.1080	0.0000	0.000	0.000
365		0.01	0.000	0.020	0.1076	0.0000	0.000	0.000
366		0.01	0.000	0.029	0.1070	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	0.21	0.04	0.25	0.11	0.01
	3.56	6.14	0.17	1.18	0.11	0.49
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.117	0.030	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.535	0.371	0.339	0.268	0.544	0.039
	2.867	6.436	0.421	1.176	0.033	0.489
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.27	3883366.676	100.00
RUNOFF	0.146	46229.514	1.19
EVAPOTRANSPIRATION	13.517	4278173.579	110.17
PERC./LEAKAGE THROUGH LAYER 3	0.000000	0.000	0.00
CHANGE IN WATER STORAGE	-1.394	-441036.359	-11.36
SOIL WATER AT START OF YEAR	7.292	2307879.333	
SOIL WATER AT END OF YEAR	5.899	1866842.975	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00

ANNUAL WATER BUDGET BALANCE 0.0000 -0.058 0.00

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LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3

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DAILY OUTPUT FOR YEAR 5

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.
1			0.22	0.000	0.028	0.1138	0.0000	0.000	0.000
2			0.00	0.000	0.055	0.1118	0.0000	0.000	0.000
3			0.00	0.000	0.066	0.1095	0.0000	0.000	0.000
4			0.00	0.000	0.059	0.1073	0.0000	0.000	0.000
5			0.00	0.000	0.054	0.1054	0.0000	0.000	0.000
6			0.00	0.000	0.020	0.1047	0.0000	0.000	0.000
7			0.00	0.000	0.013	0.1043	0.0000	0.000	0.000
8			0.00	0.000	0.003	0.1041	0.0000	0.000	0.000
9			0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
10			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
11			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
12			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
13			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
14			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
15			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
16	*		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
17			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
18			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
19			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
20	*		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
21			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
22			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
23			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
24			0.12	0.000	0.022	0.1076	0.0000	0.000	0.000
25			0.00	0.000	0.012	0.1071	0.0000	0.000	0.000
26			0.00	0.000	0.031	0.1060	0.0000	0.000	0.000
27			0.00	0.000	0.029	0.1050	0.0000	0.000	0.000
28			0.00	0.000	0.020	0.1043	0.0000	0.000	0.000
29			0.00	0.000	0.004	0.1041	0.0000	0.000	0.000
30			0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
31			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
32			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
33			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
34			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
35			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
36			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
37			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
38			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
39			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
40			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
41			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
42			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
43			0.18	0.000	0.023	0.1097	0.0000	0.000	0.000
44			0.00	0.000	0.024	0.1088	0.0000	0.000	0.000
45			0.00	0.000	0.050	0.1071	0.0000	0.000	0.000
46			0.03	0.000	0.038	0.1068	0.0000	0.000	0.000
47			0.00	0.000	0.016	0.1062	0.0000	0.000	0.000
48			0.01	0.000	0.033	0.1054	0.0000	0.000	0.000

49	0.18	0.000	0.035	0.1105	0.0000	0.000	0.000
50	0.00	0.000	0.067	0.1081	0.0000	0.000	0.000
51	0.00	0.000	0.057	0.1061	0.0000	0.000	0.000
52	0.00	0.000	0.040	0.1047	0.0000	0.000	0.000
53	0.00	0.000	0.012	0.1042	0.0000	0.000	0.000
54	0.00	0.000	0.003	0.1041	0.0000	0.000	0.000
55	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
56	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
57	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
58	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
59	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
60	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
61	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
62	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
63	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
64	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
65	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
66	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
67	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
68	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
69	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
70	0.08	0.000	0.034	0.1057	0.0000	0.000	0.000
71	0.00	0.000	0.020	0.1050	0.0000	0.000	0.000
72	0.00	0.000	0.017	0.1044	0.0000	0.000	0.000
73	0.00	0.000	0.007	0.1042	0.0000	0.000	0.000
74	0.00	0.000	0.002	0.1041	0.0000	0.000	0.000
75	0.09	0.000	0.032	0.1062	0.0000	0.000	0.000
76	0.03	0.000	0.037	0.1059	0.0000	0.000	0.000
77	0.00	0.000	0.027	0.1050	0.0000	0.000	0.000
78	0.00	0.000	0.016	0.1044	0.0000	0.000	0.000
79	0.00	0.000	0.007	0.1042	0.0000	0.000	0.000
80	0.00	0.000	0.002	0.1041	0.0000	0.000	0.000
81	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
82	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
83	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
84	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
85	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
86	0.02	0.000	0.020	0.1041	0.0000	0.000	0.000
87	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
88	0.01	0.000	0.010	0.1041	0.0000	0.000	0.000
89	0.01	0.000	0.010	0.1041	0.0000	0.000	0.000
90	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
91	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
92	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
103	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
104	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
105	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
106	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
107	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
108	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
109	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
110	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
111	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
112	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
113	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
114	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
115	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
116	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
117	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
118	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
119	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000

120	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
121	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
122	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
123	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
124	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
125	0.27	0.000	0.031	0.1125	0.0000	0.000	0.000
126	0.01	0.000	0.115	0.1088	0.0000	0.000	0.000
127	0.00	0.000	0.083	0.1058	0.0000	0.000	0.000
128	0.00	0.000	0.034	0.1046	0.0000	0.000	0.000
129	0.00	0.000	0.012	0.1042	0.0000	0.000	0.000
130	0.00	0.000	0.003	0.1041	0.0000	0.000	0.000
131	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
132	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
133	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
134	0.16	0.000	0.046	0.1081	0.0000	0.000	0.000
135	0.00	0.000	0.034	0.1069	0.0000	0.000	0.000
136	0.77	0.000	0.144	0.1292	0.0000	0.000	0.000
137	0.00	0.000	0.156	0.1236	0.0000	0.000	0.000
138	0.00	0.000	0.210	0.1161	0.0000	0.000	0.000
139	0.00	0.000	0.185	0.1095	0.0000	0.000	0.000
140	0.00	0.000	0.119	0.1053	0.0000	0.000	0.000
141	0.31	0.000	0.072	0.1138	0.0000	0.000	0.000
142	0.00	0.000	0.147	0.1085	0.0000	0.000	0.000
143	0.00	0.000	0.087	0.1054	0.0000	0.000	0.000
144	0.00	0.000	0.028	0.1044	0.0000	0.000	0.000
145	0.00	0.000	0.008	0.1041	0.0000	0.000	0.000
146	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
147	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
148	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
149	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
150	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
151	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
152	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
153	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
154	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
155	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
156	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
157	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
158	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
159	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
160	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
161	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
162	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
163	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
164	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
165	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
166	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
167	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
168	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
169	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
170	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
171	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
172	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
173	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
174	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
175	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
176	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
177	0.16	0.000	0.042	0.1082	0.0000	0.000	0.000
178	0.27	0.000	0.056	0.1158	0.0000	0.000	0.000
179	0.03	0.000	0.188	0.1102	0.0000	0.000	0.000
180	0.00	0.000	0.117	0.1060	0.0000	0.000	0.000
181	0.00	0.000	0.041	0.1045	0.0000	0.000	0.000
182	0.00	0.000	0.012	0.1041	0.0000	0.000	0.000
183	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000
184	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
185	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
186	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
187	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
188	0.07	0.000	0.036	0.1052	0.0000	0.000	0.000
189	0.00	0.000	0.018	0.1045	0.0000	0.000	0.000
190	0.06	0.000	0.047	0.1050	0.0000	0.000	0.000

191	0.02	0.000	0.035	0.1045	0.0000	0.000	0.000
192	0.00	0.000	0.009	0.1041	0.0000	0.000	0.000
193	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000
194	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
195	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
196	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
197	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
198	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
199	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
200	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
201	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
202	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
203	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
204	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
205	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
206	0.11	0.000	0.015	0.1074	0.0000	0.000	0.000
207	0.00	0.000	0.038	0.1060	0.0000	0.000	0.000
208	1.24	0.022	0.160	0.1438	0.0000	0.000	0.000
209	0.29	0.000	0.151	0.1488	0.0000	0.000	0.000
210	0.01	0.000	0.183	0.1426	0.0000	0.000	0.000
211	0.00	0.000	0.234	0.1342	0.0000	0.000	0.000
212	0.00	0.000	0.284	0.1241	0.0000	0.000	0.000
213	0.00	0.000	0.267	0.1145	0.0000	0.000	0.000
214	0.00	0.000	0.256	0.1054	0.0000	0.000	0.000
215	0.00	0.000	0.030	0.1043	0.0000	0.000	0.000
216	0.00	0.000	0.004	0.1042	0.0000	0.000	0.000
217	0.00	0.000	0.002	0.1041	0.0000	0.000	0.000
218	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000
219	0.23	0.000	0.019	0.1115	0.0000	0.000	0.000
220	0.00	0.000	0.128	0.1070	0.0000	0.000	0.000
221	0.00	0.000	0.058	0.1049	0.0000	0.000	0.000
222	0.00	0.000	0.019	0.1042	0.0000	0.000	0.000
223	0.00	0.000	0.005	0.1041	0.0000	0.000	0.000
224	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
225	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
226	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
227	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
228	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
229	0.13	0.000	0.016	0.1081	0.0000	0.000	0.000
230	0.00	0.000	0.033	0.1069	0.0000	0.000	0.000
231	0.00	0.000	0.066	0.1046	0.0000	0.000	0.000
232	0.00	0.000	0.012	0.1041	0.0000	0.000	0.000
233	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000
234	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
235	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
236	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
237	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
238	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
239	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
240	0.06	0.000	0.015	0.1056	0.0000	0.000	0.000
241	0.41	0.000	0.025	0.1194	0.0000	0.000	0.000
242	0.00	0.000	0.126	0.1149	0.0000	0.000	0.000
243	0.00	0.000	0.177	0.1085	0.0000	0.000	0.000
244	0.00	0.000	0.098	0.1050	0.0000	0.000	0.000
245	0.00	0.000	0.022	0.1043	0.0000	0.000	0.000
246	0.00	0.000	0.005	0.1041	0.0000	0.000	0.000
247	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000
248	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
249	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000
250	0.31	0.000	0.018	0.1144	0.0000	0.000	0.000
251	0.67	0.000	0.091	0.1351	0.0000	0.000	0.000
252	0.00	0.000	0.109	0.1312	0.0000	0.000	0.000
253	0.49	0.000	0.152	0.1433	0.0000	0.000	0.000
254	0.00	0.000	0.178	0.1370	0.0000	0.000	0.000
255	0.00	0.000	0.183	0.1304	0.0000	0.000	0.000
256	0.09	0.000	0.172	0.1275	0.0000	0.000	0.000
257	0.07	0.000	0.162	0.1242	0.0000	0.000	0.000
258	0.12	0.000	0.146	0.1233	0.0000	0.000	0.000
259	0.47	0.000	0.151	0.1347	0.0000	0.000	0.000
260	0.00	0.000	0.198	0.1276	0.0000	0.000	0.000
261	0.00	0.000	0.178	0.1212	0.0000	0.000	0.000

262	0.30	0.000	0.119	0.1277	0.0000	0.000	0.000
263	0.00	0.000	0.169	0.1217	0.0000	0.000	0.000
264	0.00	0.000	0.149	0.1164	0.0000	0.000	0.000
265	0.00	0.000	0.158	0.1107	0.0000	0.000	0.000
266	0.00	0.000	0.120	0.1065	0.0000	0.000	0.000
267	0.00	0.000	0.048	0.1047	0.0000	0.000	0.000
268	0.00	0.000	0.013	0.1043	0.0000	0.000	0.000
269	0.00	0.000	0.002	0.1042	0.0000	0.000	0.000
270	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000
271	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
272	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000
273	0.66	0.000	0.034	0.1265	0.0000	0.000	0.000
274	0.68	0.000	0.105	0.1470	0.0000	0.000	0.000
275	0.00	0.000	0.184	0.1404	0.0000	0.000	0.000
276	0.00	0.000	0.179	0.1341	0.0000	0.000	0.000
277	0.00	0.000	0.173	0.1279	0.0000	0.000	0.000
278	0.00	0.000	0.179	0.1215	0.0000	0.000	0.000
279	0.00	0.000	0.188	0.1148	0.0000	0.000	0.000
280	0.00	0.000	0.161	0.1090	0.0000	0.000	0.000
281	0.00	0.000	0.121	0.1047	0.0000	0.000	0.000
282	0.00	0.000	0.011	0.1043	0.0000	0.000	0.000
283	0.08	0.000	0.024	0.1063	0.0000	0.000	0.000
284	0.00	0.000	0.008	0.1060	0.0000	0.000	0.000
285	0.00	0.000	0.015	0.1055	0.0000	0.000	0.000
286	0.00	0.000	0.012	0.1051	0.0000	0.000	0.000
287	0.01	0.000	0.017	0.1048	0.0000	0.000	0.000
288	0.14	0.000	0.020	0.1091	0.0000	0.000	0.000
289	0.00	0.000	0.014	0.1086	0.0000	0.000	0.000
290	0.00	0.000	0.020	0.1079	0.0000	0.000	0.000
291	0.00	0.000	0.027	0.1069	0.0000	0.000	0.000
292	0.00	0.000	0.016	0.1063	0.0000	0.000	0.000
293	0.00	0.000	0.010	0.1060	0.0000	0.000	0.000
294	0.19	0.000	0.021	0.1120	0.0000	0.000	0.000
295	0.02	0.000	0.059	0.1106	0.0000	0.000	0.000
296	0.00	0.000	0.066	0.1083	0.0000	0.000	0.000
297	0.00	0.000	0.054	0.1063	0.0000	0.000	0.000
298	0.00	0.000	0.026	0.1054	0.0000	0.000	0.000
299	0.00	0.000	0.019	0.1047	0.0000	0.000	0.000
300	0.00	0.000	0.012	0.1043	0.0000	0.000	0.000
301	0.00	0.000	0.003	0.1042	0.0000	0.000	0.000
302	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
303	0.08	0.000	0.017	0.1064	0.0000	0.000	0.000
304	0.08	0.000	0.017	0.1086	0.0000	0.000	0.000
305	0.02	0.000	0.014	0.1088	0.0000	0.000	0.000
306	0.00	0.000	0.018	0.1082	0.0000	0.000	0.000
307	0.00	0.000	0.018	0.1076	0.0000	0.000	0.000
308	0.00	0.000	0.022	0.1068	0.0000	0.000	0.000
309	0.00	0.000	0.008	0.1065	0.0000	0.000	0.000
310	0.00	0.000	0.009	0.1062	0.0000	0.000	0.000
311	0.00	0.000	0.007	0.1059	0.0000	0.000	0.000
312	0.00	0.000	0.006	0.1057	0.0000	0.000	0.000
313	0.00	0.000	0.006	0.1055	0.0000	0.000	0.000
314	0.00	0.000	0.006	0.1053	0.0000	0.000	0.000
315	0.00	0.000	0.006	0.1051	0.0000	0.000	0.000
316	0.00	0.000	0.005	0.1049	0.0000	0.000	0.000
317	0.00	0.000	0.005	0.1047	0.0000	0.000	0.000
318	0.07	0.000	0.017	0.1066	0.0000	0.000	0.000
319	0.45	0.000	0.024	0.1218	0.0000	0.000	0.000
320	0.06	0.000	0.068	0.1215	0.0000	0.000	0.000
321	0.00	0.000	0.071	0.1190	0.0000	0.000	0.000
322	0.00	0.000	0.093	0.1157	0.0000	0.000	0.000
323	0.00	0.000	0.092	0.1124	0.0000	0.000	0.000
324	0.00	0.000	0.094	0.1090	0.0000	0.000	0.000
325	0.00	0.000	0.075	0.1063	0.0000	0.000	0.000
326	0.00	0.000	0.050	0.1045	0.0000	0.000	0.000
327	0.00	0.000	0.009	0.1042	0.0000	0.000	0.000
328	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000
329	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
330	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
331	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
332	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000

333	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
334	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
335	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
336	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
337	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
338	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
339	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
340	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
341	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
342	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000
343	0.33	0.000	0.015	0.1154	0.0000	0.000	0.000
344	0.07	0.000	0.055	0.1159	0.0000	0.000	0.000
345	0.00	0.000	0.061	0.1137	0.0000	0.000	0.000
346	0.00	0.000	0.056	0.1117	0.0000	0.000	0.000
347	0.00	0.000	0.075	0.1090	0.0000	0.000	0.000
348	0.00	0.000	0.090	0.1058	0.0000	0.000	0.000
349	0.00	0.000	0.033	0.1046	0.0000	0.000	0.000
350	0.00	0.000	0.010	0.1043	0.0000	0.000	0.000
351	0.00	0.000	0.003	0.1042	0.0000	0.000	0.000
352	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000
353	0.17	0.000	0.017	0.1096	0.0000	0.000	0.000
354	0.08	0.000	0.021	0.1117	0.0000	0.000	0.000
355	0.00	0.000	0.041	0.1103	0.0000	0.000	0.000
356	0.00	0.000	0.027	0.1093	0.0000	0.000	0.000
357	0.00	0.000	0.026	0.1084	0.0000	0.000	0.000
358	0.00	0.000	0.026	0.1074	0.0000	0.000	0.000
359	0.00	0.000	0.025	0.1065	0.0000	0.000	0.000
360	0.00	0.000	0.019	0.1059	0.0000	0.000	0.000
361	0.00	0.000	0.008	0.1056	0.0000	0.000	0.000
362	0.00	0.000	0.008	0.1053	0.0000	0.000	0.000
363	0.00	0.000	0.006	0.1051	0.0000	0.000	0.000
364	0.00	0.000	0.006	0.1049	0.0000	0.000	0.000
365	0.00	0.000	0.006	0.1047	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.34	0.40	0.24	0.00	1.52	0.46
	1.80	0.83	3.18	1.28	0.60	0.65
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.022	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.421	0.400	0.241	0.002	1.520	0.445
	1.232	1.265	2.678	1.779	0.725	0.636
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	11.30	3576368.658	100.00
RUNOFF	0.022	6995.480	0.20

EVAPOTRANSPIRATION	11.341	3589483.680	100.37
PERC./LEAKAGE THROUGH LAYER 3	0.000000	0.000	0.00
CHANGE IN WATER STORAGE	-0.064	-20110.448	-0.56
SOIL WATER AT START OF YEAR	5.899	1866842.975	
SOIL WATER AT END OF YEAR	5.835	1846732.526	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.054	0.00

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AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.44	0.32	0.20	0.21	0.75	0.31
	2.88	3.06	2.27	0.55	1.67	0.42
STD. DEVIATIONS	0.48	0.08	0.17	0.17	0.71	0.38
	1.35	2.12	1.44	0.63	2.05	0.29
RUNOFF						
TOTALS	0.001	0.000	0.000	0.000	0.000	0.000
	0.043	0.038	0.010	0.000	0.005	0.000
STD. DEVIATIONS	0.003	0.000	0.000	0.000	0.000	0.000
	0.049	0.046	0.023	0.000	0.008	0.000
EVAPOTRANSPIRATION						
TOTALS	0.631	0.315	0.329	0.146	0.825	0.428
	2.287	3.517	1.962	0.860	1.020	0.763
STD. DEVIATIONS	0.250	0.072	0.064	0.114	0.455	0.628
	1.522	2.222	1.350	0.643	0.825	0.386
PERCOLATION/LEAKAGE THROUGH LAYER 3						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5

	INCHES		CU. FEET	PERCENT
PRECIPITATION	13.07	(1.854)	4135294.9	100.00
RUNOFF	0.099	(0.0481)	31187.36	0.754
EVAPOTRANSPIRATION	13.082	(1.1619)	4140359.72	100.122
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.00005	(0.00010)	16.912	0.00041
CHANGE IN WATER STORAGE	-0.115	(1.1650)	-36268.99	-0.877

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 5 and their dates (DDDYYYY)

	(INCHES)	(CU. FT.)	
PRECIPITATION	1.68	531707.90671	2360002
RUNOFF	0.117	36877.41159	1910004
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.000004	1.22755	1480003
SNOW WATER	0.50	159089.4806	3470002

MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.2342
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.1040

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FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	1.2624	0.1052
2	2.9273	0.1220
3	1.6453	0.1371
SNOW WATER	0.000	

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Attachment A-4

Tier II, Simulation 7-1

Alternate Liner with Soil Type 7

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**                                                                  **
**                                                                  **
**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE        **
**                HELP MODEL VERSION 3.07 (1 November 1997)         **
**                  DEVELOPED BY ENVIRONMENTAL LABORATORY           **
**                    USAE WATERWAYS EXPERIMENT STATION             **
**             FOR USEPA RISK REDUCTION ENGINEERING LABORATORY       **
**                                                                  **
**                                                                  **
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PRECIPITATION DATA FILE:     C:\WHI\VHELP22\data\P5078.VHP\_weather1.dat
TEMPERATURE DATA FILE:       C:\WHI\VHELP22\data\P5078.VHP\_weather2.dat
SOLAR RADIATION DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\_weather3.dat
EVAPOTRANSPIRATION DATA:     C:\WHI\VHELP22\data\P5078.VHP\_weather4.dat
SOIL AND DESIGN DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\I_389910.inp
OUTPUT DATA FILE:            C:\WHI\VHELP22\data\P5078.VHP\O_389910.prt


TIME:  13:41     DATE:  10/17/2013


**********************************************************************

     TITLE:  Alternative Liner S-7

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     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
              WERE SPECIFIED BY THE USER.


                              LAYER  1
                              --------

               TYPE 1 - VERTICAL PERCOLATION LAYER
                    MATERIAL TEXTURE NUMBER   7
          THICKNESS                    =     60.96   CM   (24 in.)
          POROSITY                     =      0.4730 VOL/VOL
          FIELD CAPACITY               =      0.2220 VOL/VOL
          WILTING POINT                =      0.1040 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.1335 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.520000000000E-03 CM/SEC


                              LAYER  2
                              --------

                TYPE 4 - FLEXIBLE MEMBRANE LINER
                    MATERIAL TEXTURE NUMBER  35
          THICKNESS                    =      0.15   CM   (0.06 in.)
          POROSITY                     =      0.0000 VOL/VOL
          FIELD CAPACITY               =      0.0000 VOL/VOL
          WILTING POINT                =      0.0000 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.0000 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.200000000000E-12 CM/SEC
          FML PINHOLE DENSITY          =      2.47   HOLES/HECTARE  (1 hole/acre)
          FML INSTALLATION DEFECTS     =      9.88   HOLES/HECTARE  (4 hole/acre)
          FML PLACEMENT QUALITY        =  3 - GOOD
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LAYER 3

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 20

THICKNESS	=	0.50	CM (0.20 in.)
POROSITY	=	0.8500	VOL/VOL
FIELD CAPACITY	=	0.0100	VOL/VOL
WILTING POINT	=	0.0050	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0063	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	10.0000000000	CM/SEC
SLOPE	=	2.80	PERCENT
DRAINAGE LENGTH	=	91.4	METERS (300 ft.)

LAYER 4

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.15	CM (0.06 in.)
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.200000000000E-12	CM/SEC
FML PINHOLE DENSITY	=	2.47	HOLES/HECTARE (1 hole/acre)
FML INSTALLATION DEFECTS	=	9.88	HOLES/HECTARE (4 hole/acre)
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 5

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 17

THICKNESS	=	0.64	CM (0.25 in.)
POROSITY	=	0.7500	VOL/VOL
FIELD CAPACITY	=	0.7470	VOL/VOL
WILTING POINT	=	0.4000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.7500	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.300000000000E-08	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE # 7 WITH BARE GROUND CONDITIONS, A SURFACE SLOPE OF 2.8% AND A SLOPE LENGTH OF 91. METERS (300 ft.)

SCS RUNOFF CURVE NUMBER	=	88.34	
FRACTION OF AREA ALLOWING RUNOFF	=	0.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	94.5750	HECTARES (233.7 acres)
EVAPORATIVE ZONE DEPTH	=	45.7	CM (18.00 in.)
INITIAL WATER IN EVAPORATIVE ZONE	=	6.104	CM (2.40 in.)
UPPER LIMIT OF EVAPORATIVE STORAGE	=	21.626	CM (8.51 in.)
LOWER LIMIT OF EVAPORATIVE STORAGE	=	4.755	CM (1.87 in.)
INITIAL SNOW WATER	=	0.000	CM (0.00 in.)
INITIAL WATER IN LAYER MATERIALS	=	8.618	CM (3.39 in.)
TOTAL INITIAL WATER	=	8.618	CM (3.39 in.)
TOTAL SUBSURFACE INFLOW	=	0.00	MM/YR (0.00 in./yr)

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
EL PASO TX

STATION LATITUDE	=	31.85 DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00
START OF GROWING SEASON (JULIAN DATE)	=	66
END OF GROWING SEASON (JULIAN DATE)	=	315
EVAPORATIVE ZONE DEPTH	=	18.0 INCHES
AVERAGE ANNUAL WIND SPEED	=	9.20 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	40.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	27.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	46.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	48.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
EL PASO TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.60	0.52	0.18	0.30	0.73	0.44
2.39	3.48	2.38	0.58	0.66	0.23

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
46.40	50.30	58.30	65.60	75.00	83.20
83.00	80.10	74.60	65.80	54.30	45.80

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR DNCS NM
AND STATION LATITUDE = 32.78 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

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DAILY OUTPUT FOR YEAR 1

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.

1	0.00	0.000	0.010	0.1329	0.0000	0.000	0.000	0.0000	0.000	0.000
2	0.00	0.000	0.010	0.1323	0.0000	0.000	0.000	0.0000	0.000	0.000
3	0.00	0.000	0.010	0.1318	0.0000	0.000	0.000	0.0000	0.000	0.000
4	0.00	0.000	0.010	0.1312	0.0000	0.000	0.000	0.0000	0.000	0.000
5	0.00	0.000	0.010	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
6	0.00	0.000	0.010	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
7	0.00	0.000	0.010	0.1295	0.0000	0.000	0.000	0.0000	0.000	0.000
8	0.00	0.000	0.010	0.1289	0.0000	0.000	0.000	0.0000	0.000	0.000
9	0.00	0.000	0.010	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
10	0.00	0.000	0.010	0.1278	0.0000	0.000	0.000	0.0000	0.000	0.000
11	0.00	0.000	0.010	0.1273	0.0000	0.000	0.000	0.0000	0.000	0.000
12	0.00	0.000	0.010	0.1267	0.0000	0.000	0.000	0.0000	0.000	0.000
13	0.00	0.000	0.010	0.1262	0.0000	0.000	0.000	0.0000	0.000	0.000
14	0.00	0.000	0.010	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
15	0.00	0.000	0.010	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
16	0.00	0.000	0.010	0.1245	0.0000	0.000	0.000	0.0000	0.000	0.000
17	0.00	0.000	0.010	0.1240	0.0000	0.000	0.000	0.0000	0.000	0.000
18	0.00	0.000	0.010	0.1235	0.0000	0.000	0.000	0.0000	0.000	0.000
19	0.00	0.000	0.010	0.1229	0.0000	0.000	0.000	0.0000	0.000	0.000
20	0.00	0.000	0.010	0.1224	0.0000	0.000	0.000	0.0000	0.000	0.000
21	0.00	0.000	0.010	0.1219	0.0000	0.000	0.000	0.0000	0.000	0.000
22	0.00	0.000	0.009	0.1213	0.0000	0.000	0.000	0.0000	0.000	0.000
23	0.00	0.000	0.009	0.1208	0.0000	0.000	0.000	0.0000	0.000	0.000
24	0.00	0.000	0.009	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
25	0.00	0.000	0.009	0.1198	0.0000	0.000	0.000	0.0000	0.000	0.000
26	0.00	0.000	0.009	0.1193	0.0000	0.000	0.000	0.0000	0.000	0.000
27	0.00	0.000	0.009	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
28	0.00	0.000	0.009	0.1182	0.0000	0.000	0.000	0.0000	0.000	0.000
29	0.00	0.000	0.009	0.1177	0.0000	0.000	0.000	0.0000	0.000	0.000
30	0.00	0.000	0.009	0.1172	0.0000	0.000	0.000	0.0000	0.000	0.000
31	0.00	0.000	0.009	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
32	0.17	0.000	0.010	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
33	0.00	0.000	0.009	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
34	0.00	0.000	0.009	0.1246	0.0000	0.000	0.000	0.0000	0.000	0.000
35	0.00	0.000	0.009	0.1241	0.0000	0.000	0.000	0.0000	0.000	0.000
36	0.00	0.000	0.009	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
37	0.00	0.000	0.009	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
38	0.00	0.000	0.009	0.1226	0.0000	0.000	0.000	0.0000	0.000	0.000
39	0.00	0.000	0.009	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
40	0.00	0.000	0.009	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
41	0.00	0.000	0.009	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
42	0.00	0.000	0.009	0.1207	0.0000	0.000	0.000	0.0000	0.000	0.000
43	0.00	0.000	0.009	0.1202	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.00	0.000	0.009	0.1197	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.00	0.000	0.009	0.1192	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.00	0.000	0.009	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.009	0.1183	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.00	0.000	0.009	0.1178	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.00	0.000	0.008	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.008	0.1169	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.008	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.008	0.1159	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.008	0.1155	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.008	0.1150	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.00	0.000	0.008	0.1145	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.00	0.000	0.008	0.1141	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.008	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.008	0.1132	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.008	0.1127	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.008	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.008	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.008	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.008	0.1109	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.008	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.008	0.1100	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.008	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.008	0.1091	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.008	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000

69	0.00	0.000	0.008	0.1083	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.008	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.008	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.008	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.008	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.02	0.000	0.009	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.008	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.008	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.008	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.008	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.008	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.001	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.001	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.001	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.001	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.04	0.000	0.002	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.001	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.002	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.001	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.001	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.001	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.001	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.001	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.001	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.001	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.001	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.29	0.000	0.004	0.1213	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.003	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.26	0.000	0.004	0.1354	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.003	0.1352	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.005	0.1349	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.005	0.1347	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.005	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.005	0.1342	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.005	0.1339	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.005	0.1337	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.005	0.1334	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.005	0.1331	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.005	0.1329	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.005	0.1326	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.005	0.1324	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.005	0.1321	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.005	0.1319	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.005	0.1316	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.005	0.1314	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.005	0.1311	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.004	0.1309	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.004	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.004	0.1304	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.004	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.004	0.1299	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.004	0.1296	0.0000	0.000	0.000	0.0000	0.000	0.000

140	0.00	0.000	0.004	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.004	0.1291	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.004	0.1289	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.004	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.004	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.004	0.1282	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.004	0.1279	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.004	0.1277	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.004	0.1274	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.004	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.004	0.1270	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.30	0.000	0.006	0.1433	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.005	0.1430	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.005	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.01	0.000	0.006	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.004	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.01	0.000	0.006	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.004	0.1426	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.005	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.004	0.1421	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.004	0.1419	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.004	0.1417	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.004	0.1414	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.005	0.1412	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.005	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.005	0.1406	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.005	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.005	0.1400	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.005	0.1398	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.005	0.1395	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.005	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.005	0.1389	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.005	0.1386	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.005	0.1383	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.005	0.1381	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.005	0.1378	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.005	0.1375	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.005	0.1372	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.005	0.1369	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.005	0.1367	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.005	0.1364	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.005	0.1361	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.005	0.1358	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.005	0.1355	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.21	0.000	0.007	0.1468	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.005	0.1465	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.006	0.1462	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.005	0.1459	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.005	0.1456	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.005	0.1453	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.005	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.006	0.1447	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.01	0.000	0.008	0.1448	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.005	0.1445	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.005	0.1442	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.01	0.000	0.008	0.1443	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.005	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.005	0.1438	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.005	0.1435	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.005	0.1432	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.31	0.000	0.008	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.11	0.000	0.008	0.1657	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.005	0.1654	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.005	0.1651	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.18	0.000	0.008	0.1747	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.005	0.1744	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.09	0.000	0.008	0.1790	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.005	0.1787	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.25	0.000	0.008	0.1921	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.259	0.1777	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.005	0.1774	0.0000	0.000	0.000	0.0000	0.000	0.000

211	0.00	0.000	0.006	0.1771	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.005	0.1768	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.005	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.005	0.1763	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.005	0.1760	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.29	0.000	0.008	0.1916	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.272	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.006	0.1762	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.006	0.1759	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.006	0.1756	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.006	0.1753	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.006	0.1749	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.006	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.006	0.1743	0.0000	0.000	0.000	0.0000	0.000	0.000
225	1.03	0.000	0.009	0.2310	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.11	0.000	0.196	0.2262	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.303	0.2094	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.281	0.1938	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.299	0.1772	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.194	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.080	0.1619	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.062	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.052	0.1556	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.07	0.000	0.049	0.1567	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.041	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.37	0.000	0.042	0.1726	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.24	0.000	0.039	0.1838	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.033	0.1820	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.032	0.1802	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.82	0.000	0.034	0.2239	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.16	0.000	0.266	0.2180	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.05	0.000	0.275	0.2055	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.71	0.000	0.250	0.2310	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.257	0.2168	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.280	0.2013	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.277	0.1859	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.201	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.083	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.064	0.1665	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.054	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.047	0.1608	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.043	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.039	0.1563	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.037	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.034	0.1523	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.83	0.000	0.037	0.1964	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.31	0.000	0.170	0.2042	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.246	0.1905	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.232	0.1776	0.0000	0.000	0.000	0.0000	0.000	0.000
260	1.00	0.000	0.172	0.2236	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.26	0.000	0.220	0.2258	0.0000	0.000	0.000	0.0000	0.000	0.000
262	1.48	0.000	0.224	0.2956	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.16	0.000	0.200	0.2928	0.0000	0.000	0.000	0.0000	0.000	0.000
264	1.43	0.000	0.237	0.3222	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.251	0.2927	1.0727	0.000	.1366E-02	0.0001	.4660E-03	.1739E-08
266	0.00	0.000	0.242	0.2691	1.9713	0.000	.2226E-02	0.0004	.2063E-02	.6971E-08
267	0.00	0.000	0.238	0.2492	2.6156	0.000	.2796E-02	0.0005	.2698E-02	.7017E-08
268	0.16	0.000	0.239	0.2407	3.0113	0.000	.3136E-02	0.0006	.3077E-02	.7044E-08
269	0.00	0.000	0.232	0.2240	3.2818	0.000	.3365E-02	0.0006	.3326E-02	.7062E-08
270	0.76	0.000	0.243	0.2499	3.5240	0.000	.3568E-02	0.0007	.3535E-02	.7077E-08
271	0.00	0.000	0.241	0.2343	3.6786	0.000	.3697E-02	0.0007	.3675E-02	.7086E-08
272	0.00	0.000	0.253	0.2183	3.8032	0.000	.3800E-02	0.0007	.3783E-02	.7094E-08

273	0.00	0.000	0.225	0.2039	3.9365	0.000	.3911E-02	0.0007	.3893E-02
.7101E-08									
274	0.00	0.000	0.188	0.1918	4.0494	0.000	.4004E-02	0.0008	.3989E-02
.7108E-08									
275	0.00	0.000	0.083	0.1858	4.1452	0.000	.4082E-02	0.0008	.4070E-02
.7114E-08									
276	0.00	0.000	0.064	0.1809	4.2265	0.000	.4149E-02	0.0008	.4138E-02
.7118E-08									
277	0.00	0.000	0.054	0.1769	4.2973	0.000	.4207E-02	0.0008	.4198E-02
.7122E-08									
278	0.00	0.000	0.047	0.1736	4.3440	0.000	.4246E-02	0.0008	.4239E-02
.7125E-08									
279	0.00	0.000	0.043	0.1706	4.3763	0.000	.4272E-02	0.0008	.4267E-02
.7127E-08									
280	0.00	0.000	0.039	0.1679	4.3992	0.000	.4291E-02	0.0008	.4287E-02
.7128E-08									
281	0.00	0.000	0.037	0.1654	4.4156	0.000	.4304E-02	0.0008	.4302E-02
.7129E-08									
282	0.00	0.000	0.034	0.1632	4.4273	0.000	.4314E-02	0.0008	.4312E-02
.7130E-08									
283	0.00	0.000	0.033	0.1612	4.4339	0.000	.4319E-02	0.0008	.4318E-02
.7131E-08									
284	0.00	0.000	0.031	0.1595	4.4212	0.000	.4309E-02	0.0008	.4310E-02
.7130E-08									
285	0.00	0.000	0.030	0.1578	4.4041	0.000	.4295E-02	0.0008	.4297E-02
.7129E-08									
286	0.00	0.000	0.028	0.1562	4.3870	0.000	.4281E-02	0.0008	.4283E-02
.7128E-08									
287	0.00	0.000	0.027	0.1547	4.3700	0.000	.4267E-02	0.0008	.4269E-02
.7127E-08									
288	0.00	0.000	0.026	0.1533	4.3530	0.000	.4253E-02	0.0008	.4255E-02
.7126E-08									
289	0.00	0.000	0.025	0.1518	4.3361	0.000	.4239E-02	0.0008	.4241E-02
.7125E-08									
290	0.00	0.000	0.025	0.1505	4.3192	0.000	.4225E-02	0.0008	.4227E-02
.7124E-08									
291	0.00	0.000	0.024	0.1491	4.3024	0.000	.4211E-02	0.0008	.4214E-02
.7123E-08									
292	0.00	0.000	0.023	0.1478	4.2856	0.000	.4198E-02	0.0008	.4200E-02
.7122E-08									
293	0.00	0.000	0.023	0.1466	4.2689	0.000	.4184E-02	0.0008	.4186E-02
.7122E-08									
294	0.00	0.000	0.022	0.1454	4.2523	0.000	.4170E-02	0.0008	.4173E-02
.7121E-08									
295	0.00	0.000	0.022	0.1442	4.2357	0.000	.4157E-02	0.0008	.4159E-02
.7120E-08									
296	0.00	0.000	0.021	0.1430	4.2191	0.000	.4143E-02	0.0008	.4145E-02
.7119E-08									
297	0.00	0.000	0.021	0.1418	4.2026	0.000	.4130E-02	0.0008	.4132E-02
.7118E-08									
298	0.00	0.000	0.020	0.1407	4.1862	0.000	.4116E-02	0.0008	.4118E-02
.7117E-08									
299	0.00	0.000	0.020	0.1396	4.1698	0.000	.4103E-02	0.0008	.4105E-02
.7116E-08									
300	0.00	0.000	0.019	0.1385	4.1535	0.000	.4089E-02	0.0008	.4091E-02
.7115E-08									
301	0.00	0.000	0.019	0.1375	4.1372	0.000	.4076E-02	0.0008	.4078E-02
.7114E-08									
302	0.00	0.000	0.019	0.1364	4.1210	0.000	.4063E-02	0.0008	.4065E-02
.7113E-08									
303	0.00	0.000	0.018	0.1354	4.1048	0.000	.4049E-02	0.0008	.4051E-02
.7112E-08									
304	0.00	0.000	0.018	0.1344	4.0887	0.000	.4036E-02	0.0008	.4038E-02
.7111E-08									
305	0.00	0.000	0.018	0.1334	4.0727	0.000	.4023E-02	0.0008	.4025E-02
.7110E-08									
306	0.00	0.000	0.018	0.1324	4.0567	0.000	.4010E-02	0.0008	.4012E-02
.7110E-08									
307	0.00	0.000	0.017	0.1314	4.0407	0.000	.3996E-02	0.0008	.3999E-02
.7109E-08									

308	0.00	0.000	0.017	0.1305	4.0248	0.000	.3983E-02	0.0008	.3985E-02
.7108E-08									
309	0.00	0.000	0.017	0.1296	4.0090	0.000	.3970E-02	0.0008	.3972E-02
.7107E-08									
310	0.00	0.000	0.017	0.1286	3.9932	0.000	.3957E-02	0.0007	.3959E-02
.7106E-08									
311	0.00	0.000	0.016	0.1277	3.9774	0.000	.3944E-02	0.0007	.3946E-02
.7105E-08									
312	0.00	0.000	0.016	0.1268	3.9617	0.000	.3931E-02	0.0007	.3933E-02
.7104E-08									
313	0.03	0.000	0.021	0.1273	3.9461	0.000	.3918E-02	0.0007	.3920E-02
.7103E-08									
314	0.00	0.000	0.016	0.1265	3.9305	0.000	.3906E-02	0.0007	.3908E-02
.7102E-08									
315	0.00	0.000	0.016	0.1256	3.9149	0.000	.3893E-02	0.0007	.3895E-02
.7102E-08									
316	0.00	0.000	0.015	0.1247	3.8995	0.000	.3880E-02	0.0007	.3882E-02
.7101E-08									
317	0.00	0.000	0.015	0.1239	3.8840	0.000	.3867E-02	0.0007	.3869E-02
.7100E-08									
318	0.00	0.000	0.012	0.1232	3.8694	0.000	.3855E-02	0.0007	.3857E-02
.7099E-08									
319	0.00	0.000	0.015	0.1224	3.8564	0.000	.3844E-02	0.0007	.3846E-02
.7098E-08									
320	0.00	0.000	0.015	0.1215	3.8411	0.000	.3832E-02	0.0007	.3834E-02
.7097E-08									
321	0.00	0.000	0.015	0.1204	3.8361	0.000	.3828E-02	0.0007	.3828E-02
.7097E-08									
322	0.00	0.000	0.014	0.1196	3.8379	0.000	.3829E-02	0.0007	.3829E-02
.7097E-08									
323	0.96	0.000	0.017	0.1717	3.8295	0.000	.3822E-02	0.0007	.3823E-02
.7097E-08									
324	0.00	0.000	0.014	0.1709	3.8257	0.000	.3819E-02	0.0007	.3819E-02
.7096E-08									
325	0.00	0.000	0.014	0.1701	3.8105	0.000	.3806E-02	0.0007	.3808E-02
.7096E-08									
326	0.00	0.000	0.014	0.1694	3.7954	0.000	.3794E-02	0.0007	.3796E-02
.7095E-08									
327	0.00	0.000	0.014	0.1686	3.7803	0.000	.3781E-02	0.0007	.3783E-02
.7094E-08									
328	0.00	0.000	0.014	0.1679	3.7652	0.000	.3769E-02	0.0007	.3771E-02
.7093E-08									
329	0.00	0.000	0.013	0.1671	3.7502	0.000	.3756E-02	0.0007	.3758E-02
.7092E-08									
330	0.00	0.000	0.013	0.1664	3.7353	0.000	.3744E-02	0.0007	.3746E-02
.7091E-08									
331	0.00	0.000	0.013	0.1656	3.7204	0.000	.3732E-02	0.0007	.3734E-02
.7090E-08									
332	0.00	0.000	0.013	0.1649	3.7055	0.000	.3719E-02	0.0007	.3721E-02
.7090E-08									
333	0.00	0.000	0.013	0.1642	3.6907	0.000	.3707E-02	0.0007	.3709E-02
.7089E-08									
334	0.00	0.000	0.013	0.1635	3.6760	0.000	.3695E-02	0.0007	.3697E-02
.7088E-08									
335	0.00	0.000	0.013	0.1627	3.6613	0.000	.3682E-02	0.0007	.3684E-02
.7087E-08									
336	0.00	0.000	0.013	0.1620	3.6466	0.000	.3670E-02	0.0007	.3672E-02
.7086E-08									
337	0.00	0.000	0.013	0.1613	3.6320	0.000	.3658E-02	0.0007	.3660E-02
.7085E-08									
338	0.00	0.000	0.012	0.1606	3.6175	0.000	.3646E-02	0.0007	.3648E-02
.7084E-08									
339	0.01	0.000	0.014	0.1604	3.6030	0.000	.3634E-02	0.0007	.3636E-02
.7084E-08									
340	0.00	0.000	0.012	0.1597	3.5885	0.000	.3622E-02	0.0007	.3624E-02
.7083E-08									
341	0.00	0.000	0.012	0.1590	3.5741	0.000	.3610E-02	0.0007	.3612E-02
.7082E-08									
342	0.06	0.000	0.014	0.1616	3.5597	0.000	.3598E-02	0.0007	.3600E-02
.7081E-08									

343	0.01	0.000	0.014	0.1614	3.5454	0.000	.3586E-02	0.0007	.3588E-02
.7080E-08									
344	0.04	0.000	0.014	0.1628	3.5311	0.000	.3574E-02	0.0007	.3576E-02
.7079E-08									
345	0.00	0.000	0.012	0.1622	3.5169	0.000	.3562E-02	0.0007	.3564E-02
.7079E-08									
346	0.00	0.000	0.012	0.1615	3.5028	0.000	.3550E-02	0.0007	.3552E-02
.7078E-08									
347 *	0.00	0.000	0.012	0.1608	3.4886	0.000	.3538E-02	0.0007	.3540E-02
.7077E-08									
348 *	0.07	0.000	0.056	0.1616	3.4745	0.000	.3527E-02	0.0007	.3529E-02
.7076E-08									
349	0.00	0.000	0.012	0.1610	3.4605	0.000	.3515E-02	0.0007	.3517E-02
.7075E-08									
350	0.00	0.000	0.012	0.1603	3.4465	0.000	.3503E-02	0.0007	.3505E-02
.7074E-08									
351	0.00	0.000	0.011	0.1597	3.4326	0.000	.3492E-02	0.0007	.3493E-02
.7074E-08									
352	0.00	0.000	0.011	0.1591	3.4187	0.000	.3480E-02	0.0007	.3482E-02
.7073E-08									
353	0.05	0.000	0.013	0.1611	3.4048	0.000	.3468E-02	0.0007	.3470E-02
.7072E-08									
354 *	0.02	0.000	0.031	0.1605	3.3910	0.000	.3457E-02	0.0007	.3459E-02
.7071E-08									
355 *	0.00	0.000	0.011	0.1599	3.3773	0.000	.3445E-02	0.0007	.3447E-02
.7070E-08									
356	0.12	0.000	0.013	0.1658	3.3636	0.000	.3434E-02	0.0006	.3435E-02
.7070E-08									
357	0.07	0.000	0.013	0.1690	3.3499	0.000	.3422E-02	0.0006	.3424E-02
.7069E-08									
358	0.02	0.000	0.013	0.1694	3.3363	0.000	.3411E-02	0.0006	.3413E-02
.7068E-08									
359	0.04	0.000	0.013	0.1709	3.3227	0.000	.3399E-02	0.0006	.3401E-02
.7067E-08									
360	0.04	0.000	0.013	0.1724	3.3092	0.000	.3388E-02	0.0006	.3390E-02
.7066E-08									
361	0.06	0.000	0.013	0.1751	3.2957	0.000	.3377E-02	0.0006	.3378E-02
.7066E-08									
362	0.01	0.000	0.012	0.1749	3.2823	0.000	.3365E-02	0.0006	.3367E-02
.7065E-08									
363	0.00	0.000	0.011	0.1743	3.2689	0.000	.3354E-02	0.0006	.3356E-02
.7064E-08									
364	0.00	0.000	0.011	0.1737	3.2556	0.000	.3343E-02	0.0006	.3345E-02
.7063E-08									
365	0.00	0.000	0.011	0.1732	3.2422	0.000	.3332E-02	0.0006	.3333E-02
.7062E-08									

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MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	0.17	0.02	0.59	0.30	0.02
	1.17	3.85	6.39	0.00	0.99	0.62
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.302	0.242	0.171	0.042	0.141	0.149
	0.437	2.874	5.318	1.105	0.454	0.445
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

LAYER 2	0.0000	0.0000	0.0279	0.1298	0.1156	0.1086
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 3	0.0000	0.0000	0.0265	0.1298	0.1157	0.1087
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 2	0.000	0.000	0.897	4.272	3.868	3.448
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 2	0.000	0.000	1.480	0.114	0.115	0.127
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.001	0.001	0.001
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.12	11978172.640	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	11.682	9909583.928	82.73
PERC./LEAKAGE THROUGH LAYER 2	0.381896	323967.519	2.70
AVG. HEAD ON TOP OF LAYER 2	1.0404		
DRAINAGE COLLECTED FROM LAYER 3	0.3806	322899.947	2.70
PERC./LEAKAGE THROUGH LAYER 5	0.000001	0.603	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0002		
CHANGE IN WATER STORAGE	2.058	1745688.342	14.57
SOIL WATER AT START OF YEAR	4.194	3557556.813	
SOIL WATER AT END OF YEAR	6.252	5303245.154	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.180	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #2: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 5

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DAILY OUTPUT FOR YEAR 2

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.010	0.1726	3.2290	0.000	.3320E-02	0.0006	.3322E-02	.7062E-08
2			0.00	0.000	0.010	0.1720	3.2158	0.000	.3309E-02	0.0006	.3311E-02	.7061E-08
3			0.00	0.000	0.010	0.1714	3.2026	0.000	.3298E-02	0.0006	.3300E-02	.7060E-08
4			0.00	0.000	0.010	0.1708	3.1895	0.000	.3287E-02	0.0006	.3289E-02	.7059E-08
5			0.00	0.000	0.010	0.1703	3.1764	0.000	.3276E-02	0.0006	.3278E-02	.7059E-08
6			0.00	0.000	0.010	0.1697	3.1634	0.000	.3265E-02	0.0006	.3267E-02	.7058E-08
7			0.00	0.000	0.010	0.1691	3.1504	0.000	.3254E-02	0.0006	.3256E-02	.7057E-08
8			0.00	0.000	0.010	0.1686	3.1374	0.000	.3243E-02	0.0006	.3245E-02	.7056E-08
9			0.00	0.000	0.010	0.1680	3.1245	0.000	.3232E-02	0.0006	.3234E-02	.7056E-08
10			0.00	0.000	0.010	0.1675	3.1117	0.000	.3221E-02	0.0006	.3223E-02	.7055E-08
11	*		0.92	0.000	0.056	0.1686	3.0989	0.000	.3210E-02	0.0006	.3212E-02	.7054E-08
12			0.00	0.000	0.046	0.1809	3.0861	0.000	.3200E-02	0.0006	.3201E-02	.7053E-08
13	*		0.00	0.000	0.058	0.1820	3.0733	0.000	.3189E-02	0.0006	.3190E-02	.7052E-08
14	*		0.00	0.000	0.059	0.1831	3.0607	0.000	.3178E-02	0.0006	.3180E-02	.7052E-08
15			0.00	0.000	0.066	0.1842	3.0480	0.000	.3167E-02	0.0006	.3169E-02	.7051E-08
16			0.00	0.000	0.061	0.1981	3.0354	0.000	.3157E-02	0.0006	.3158E-02	.7050E-08
17			0.00	0.000	0.122	0.1925	3.0229	0.000	.3146E-02	0.0006	.3148E-02	.7049E-08
18			0.00	0.000	0.010	0.1919	3.0103	0.000	.3135E-02	0.0006	.3137E-02	.7049E-08
19			0.00	0.000	0.010	0.1914	2.9979	0.000	.3125E-02	0.0006	.3126E-02	.7048E-08
20			0.00	0.000	0.010	0.1909	2.9854	0.000	.3114E-02	0.0006	.3116E-02	.7047E-08
21			0.00	0.000	0.010	0.1903	2.9730	0.000	.3103E-02	0.0006	.3105E-02	.7046E-08
22			0.00	0.000	0.010	0.1898	2.9607	0.000	.3093E-02	0.0006	.3095E-02	.7046E-08
23			0.00	0.000	0.010	0.1892	2.9484	0.000	.3082E-02	0.0006	.3084E-02	.7045E-08
24			0.00	0.000	0.010	0.1887	2.9361	0.000	.3072E-02	0.0006	.3074E-02	.7044E-08

25	0.00	0.000	0.010	0.1882	2.9239	0.000	.3062E-02	0.0006	.3063E-02
.7043E-08									
26	0.00	0.000	0.010	0.1876	2.9117	0.000	.3051E-02	0.0006	.3053E-02
.7043E-08									
27	0.00	0.000	0.010	0.1871	2.8996	0.000	.3041E-02	0.0006	.3042E-02
.7042E-08									
28	0.00	0.000	0.010	0.1866	2.8875	0.000	.3030E-02	0.0006	.3032E-02
.7041E-08									
29	0.00	0.000	0.009	0.1860	2.8754	0.000	.3020E-02	0.0006	.3022E-02
.7041E-08									
30	0.00	0.000	0.009	0.1855	2.8634	0.000	.3010E-02	0.0006	.3011E-02
.7040E-08									
31	0.00	0.000	0.009	0.1850	2.8514	0.000	.3000E-02	0.0006	.3001E-02
.7039E-08									
32	0.00	0.000	0.009	0.1845	2.8395	0.000	.2989E-02	0.0006	.2991E-02
.7038E-08									
33	0.00	0.000	0.009	0.1840	2.8276	0.000	.2979E-02	0.0006	.2981E-02
.7038E-08									
34	0.00	0.000	0.009	0.1834	2.8157	0.000	.2969E-02	0.0006	.2971E-02
.7037E-08									
35	0.00	0.000	0.009	0.1829	2.8039	0.000	.2959E-02	0.0006	.2960E-02
.7036E-08									
36	0.00	0.000	0.009	0.1824	2.7922	0.000	.2949E-02	0.0006	.2950E-02
.7036E-08									
37	0.00	0.000	0.009	0.1819	2.7804	0.000	.2939E-02	0.0006	.2940E-02
.7035E-08									
38	0.00	0.000	0.009	0.1814	2.7687	0.000	.2929E-02	0.0006	.2930E-02
.7034E-08									
39	0.00	0.000	0.009	0.1809	2.7571	0.000	.2919E-02	0.0006	.2920E-02
.7033E-08									
40	0.00	0.000	0.009	0.1804	2.7455	0.000	.2909E-02	0.0006	.2910E-02
.7033E-08									
41	0.00	0.000	0.009	0.1799	2.7339	0.000	.2899E-02	0.0005	.2900E-02
.7032E-08									
42	0.00	0.000	0.009	0.1794	2.7224	0.000	.2889E-02	0.0005	.2890E-02
.7031E-08									
43	0.00	0.000	0.009	0.1789	2.7109	0.000	.2879E-02	0.0005	.2880E-02
.7031E-08									
44	0.00	0.000	0.009	0.1784	2.6994	0.000	.2869E-02	0.0005	.2870E-02
.7030E-08									
45	0.00	0.000	0.009	0.1779	2.6880	0.000	.2859E-02	0.0005	.2861E-02
.7029E-08									
46	0.00	0.000	0.009	0.1774	2.6766	0.000	.2849E-02	0.0005	.2851E-02
.7028E-08									
47	0.00	0.000	0.009	0.1769	2.6653	0.000	.2839E-02	0.0005	.2841E-02
.7028E-08									
48	0.13	0.000	0.010	0.1836	2.6540	0.000	.2830E-02	0.0005	.2831E-02
.7027E-08									
49	0.01	0.000	0.010	0.1836	2.6427	0.000	.2820E-02	0.0005	.2821E-02
.7026E-08									
50	0.00	0.000	0.009	0.1831	2.6315	0.000	.2810E-02	0.0005	.2812E-02
.7026E-08									
51	0.00	0.000	0.009	0.1827	2.6203	0.000	.2801E-02	0.0005	.2802E-02
.7025E-08									
52	0.00	0.000	0.009	0.1822	2.6092	0.000	.2791E-02	0.0005	.2792E-02
.7024E-08									
53	0.00	0.000	0.009	0.1817	2.5981	0.000	.2781E-02	0.0005	.2783E-02
.7024E-08									
54	0.00	0.000	0.009	0.1812	2.5870	0.000	.2772E-02	0.0005	.2773E-02
.7023E-08									
55	0.19	0.000	0.010	0.1913	2.5760	0.000	.2762E-02	0.0005	.2764E-02
.7022E-08									
56	0.12	0.000	0.010	0.1974	2.5650	0.000	.2753E-02	0.0005	.2754E-02
.7022E-08									
57	0.00	0.000	0.162	0.1884	2.5540	0.000	.2743E-02	0.0005	.2745E-02
.7021E-08									
58	0.00	0.000	0.008	0.1879	2.5431	0.000	.2734E-02	0.0005	.2735E-02
.7020E-08									
59	0.00	0.000	0.008	0.1875	2.5322	0.000	.2724E-02	0.0005	.2726E-02
.7020E-08									

60	0.00	0.000	0.008	0.1870	2.5214	0.000	.2715E-02	0.0005	.2716E-02
.7019E-08									
61	0.00	0.000	0.008	0.1865	2.5106	0.000	.2705E-02	0.0005	.2707E-02
.7018E-08									
62	0.00	0.000	0.008	0.1861	2.4998	0.000	.2696E-02	0.0005	.2697E-02
.7017E-08									
63	0.00	0.000	0.008	0.1856	2.4891	0.000	.2686E-02	0.0005	.2688E-02
.7017E-08									
64	0.12	0.000	0.009	0.1918	2.4784	0.000	.2677E-02	0.0005	.2679E-02
.7016E-08									
65	0.09	0.000	0.009	0.1963	2.4678	0.000	.2668E-02	0.0005	.2669E-02
.7015E-08									
66	0.00	0.000	0.230	0.1835	2.4572	0.000	.2659E-02	0.0005	.2660E-02
.7015E-08									
67	0.07	0.000	0.009	0.1868	2.4466	0.000	.2649E-02	0.0005	.2651E-02
.7014E-08									
68	0.00	0.000	0.008	0.1864	2.4360	0.000	.2640E-02	0.0005	.2642E-02
.7013E-08									
69	0.00	0.000	0.008	0.1859	2.4255	0.000	.2631E-02	0.0005	.2632E-02
.7013E-08									
70	0.00	0.000	0.008	0.1855	2.4151	0.000	.2622E-02	0.0005	.2623E-02
.7012E-08									
71	0.00	0.000	0.008	0.1850	2.4046	0.000	.2613E-02	0.0005	.2614E-02
.7012E-08									
72	0.00	0.000	0.008	0.1846	2.3943	0.000	.2603E-02	0.0005	.2605E-02
.7011E-08									
73	0.00	0.000	0.008	0.1841	2.3839	0.000	.2594E-02	0.0005	.2596E-02
.7010E-08									
74	0.00	0.000	0.008	0.1837	2.3736	0.000	.2585E-02	0.0005	.2587E-02
.7010E-08									
75	0.00	0.000	0.008	0.1832	2.3633	0.000	.2576E-02	0.0005	.2578E-02
.7009E-08									
76	0.02	0.000	0.009	0.1839	2.3530	0.000	.2567E-02	0.0005	.2569E-02
.7008E-08									
77	0.00	0.000	0.008	0.1834	2.3428	0.000	.2558E-02	0.0005	.2560E-02
.7008E-08									
78	0.00	0.000	0.008	0.1830	2.3328	0.000	.2550E-02	0.0005	.2551E-02
.7007E-08									
79	0.00	0.000	0.008	0.1825	2.3228	0.000	.2541E-02	0.0005	.2542E-02
.7006E-08									
80	0.00	0.000	0.008	0.1821	2.3126	0.000	.2532E-02	0.0005	.2533E-02
.7006E-08									
81	0.00	0.000	0.008	0.1816	2.3026	0.000	.2523E-02	0.0005	.2524E-02
.7005E-08									
82	0.00	0.000	0.008	0.1812	2.2925	0.000	.2514E-02	0.0005	.2515E-02
.7004E-08									
83	0.00	0.000	0.008	0.1808	2.2825	0.000	.2505E-02	0.0005	.2507E-02
.7004E-08									
84	0.00	0.000	0.008	0.1803	2.2726	0.000	.2496E-02	0.0005	.2498E-02
.7003E-08									
85	0.00	0.000	0.008	0.1799	2.2626	0.000	.2488E-02	0.0005	.2489E-02
.7003E-08									
86	0.00	0.000	0.008	0.1795	2.2527	0.000	.2479E-02	0.0005	.2480E-02
.7002E-08									
87	0.00	0.000	0.008	0.1791	2.2429	0.000	.2470E-02	0.0005	.2471E-02
.7001E-08									
88	0.00	0.000	0.008	0.1786	2.2330	0.000	.2461E-02	0.0005	.2463E-02
.7001E-08									
89	0.00	0.000	0.008	0.1782	2.2232	0.000	.2453E-02	0.0005	.2454E-02
.7000E-08									
90	0.00	0.000	0.008	0.1778	2.2135	0.000	.2444E-02	0.0005	.2445E-02
.6999E-08									
91	0.00	0.000	0.008	0.1773	2.2038	0.000	.2435E-02	0.0005	.2437E-02
.6999E-08									
92	0.00	0.000	0.008	0.1769	2.1941	0.000	.2427E-02	0.0005	.2428E-02
.6998E-08									
93	0.00	0.000	0.008	0.1765	2.1844	0.000	.2418E-02	0.0005	.2420E-02
.6998E-08									
94	0.00	0.000	0.008	0.1761	2.1748	0.000	.2410E-02	0.0005	.2411E-02
.6997E-08									

95	0.00	0.000	0.008	0.1757	2.1652	0.000	.2401E-02	0.0005	.2402E-02
.6996E-08									
96	0.00	0.000	0.008	0.1752	2.1557	0.000	.2393E-02	0.0005	.2394E-02
.6996E-08									
97	0.00	0.000	0.008	0.1748	2.1461	0.000	.2384E-02	0.0005	.2385E-02
.6995E-08									
98	0.00	0.000	0.007	0.1744	2.1367	0.000	.2376E-02	0.0004	.2377E-02
.6994E-08									
99	0.00	0.000	0.007	0.1740	2.1272	0.000	.2367E-02	0.0004	.2369E-02
.6994E-08									
100	0.00	0.000	0.007	0.1736	2.1178	0.000	.2359E-02	0.0004	.2360E-02
.6993E-08									
101	0.00	0.000	0.007	0.1732	2.1084	0.000	.2350E-02	0.0004	.2352E-02
.6993E-08									
102	0.00	0.000	0.007	0.1728	2.0990	0.000	.2342E-02	0.0004	.2343E-02
.6992E-08									
103	0.00	0.000	0.007	0.1723	2.0897	0.000	.2334E-02	0.0004	.2335E-02
.6991E-08									
104	0.00	0.000	0.007	0.1719	2.0804	0.000	.2325E-02	0.0004	.2327E-02
.6991E-08									
105	0.00	0.000	0.007	0.1715	2.0712	0.000	.2317E-02	0.0004	.2318E-02
.6990E-08									
106	0.00	0.000	0.007	0.1711	2.0620	0.000	.2309E-02	0.0004	.2310E-02
.6990E-08									
107	0.00	0.000	0.007	0.1707	2.0528	0.000	.2301E-02	0.0004	.2302E-02
.6989E-08									
108	0.00	0.000	0.007	0.1703	2.0436	0.000	.2292E-02	0.0004	.2294E-02
.6988E-08									
109	0.00	0.000	0.007	0.1699	2.0345	0.000	.2284E-02	0.0004	.2285E-02
.6988E-08									
110	0.00	0.000	0.007	0.1695	2.0254	0.000	.2276E-02	0.0004	.2277E-02
.6987E-08									
111	0.00	0.000	0.007	0.1691	2.0164	0.000	.2268E-02	0.0004	.2269E-02
.6987E-08									
112	0.00	0.000	0.007	0.1687	2.0073	0.000	.2260E-02	0.0004	.2261E-02
.6986E-08									
113	0.00	0.000	0.007	0.1683	1.9984	0.000	.2252E-02	0.0004	.2253E-02
.6985E-08									
114	0.00	0.000	0.007	0.1679	1.9894	0.000	.2244E-02	0.0004	.2245E-02
.6985E-08									
115	0.00	0.000	0.007	0.1675	1.9805	0.000	.2236E-02	0.0004	.2237E-02
.6984E-08									
116	0.00	0.000	0.007	0.1671	1.9716	0.000	.2228E-02	0.0004	.2229E-02
.6984E-08									
117	0.00	0.000	0.007	0.1667	1.9630	0.000	.2220E-02	0.0004	.2221E-02
.6983E-08									
118	0.00	0.000	0.007	0.1663	1.9546	0.000	.2212E-02	0.0004	.2213E-02
.6983E-08									
119	0.00	0.000	0.007	0.1659	1.9463	0.000	.2205E-02	0.0004	.2206E-02
.6982E-08									
120	0.00	0.000	0.007	0.1655	1.9382	0.000	.2197E-02	0.0004	.2198E-02
.6981E-08									
121	0.00	0.000	0.007	0.1651	1.9303	0.000	.2190E-02	0.0004	.2191E-02
.6981E-08									
122	0.00	0.000	0.007	0.1647	1.9219	0.000	.2183E-02	0.0004	.2184E-02
.6980E-08									
123	0.00	0.000	0.007	0.1643	1.9133	0.000	.2175E-02	0.0004	.2176E-02
.6980E-08									
124	0.00	0.000	0.007	0.1639	1.9046	0.000	.2167E-02	0.0004	.2168E-02
.6979E-08									
125	0.00	0.000	0.007	0.1635	1.8960	0.000	.2159E-02	0.0004	.2160E-02
.6979E-08									
126	0.00	0.000	0.007	0.1632	1.8874	0.000	.2151E-02	0.0004	.2152E-02
.6978E-08									
127	0.00	0.000	0.007	0.1628	1.8788	0.000	.2143E-02	0.0004	.2145E-02
.6978E-08									
128	0.00	0.000	0.007	0.1624	1.8703	0.000	.2136E-02	0.0004	.2137E-02
.6977E-08									
129	0.00	0.000	0.007	0.1620	1.8618	0.000	.2128E-02	0.0004	.2129E-02
.6976E-08									

130	0.00	0.000	0.007	0.1616	1.8533	0.000	.2120E-02	0.0004	.2121E-02
.6976E-08									
131	0.00	0.000	0.007	0.1612	1.8449	0.000	.2112E-02	0.0004	.2114E-02
.6975E-08									
132	0.00	0.000	0.007	0.1609	1.8365	0.000	.2105E-02	0.0004	.2106E-02
.6975E-08									
133	0.00	0.000	0.007	0.1605	1.8281	0.000	.2097E-02	0.0004	.2098E-02
.6974E-08									
134	0.00	0.000	0.007	0.1601	1.8198	0.000	.2090E-02	0.0004	.2091E-02
.6974E-08									
135	0.00	0.000	0.007	0.1597	1.8115	0.000	.2082E-02	0.0004	.2083E-02
.6973E-08									
136	0.00	0.000	0.007	0.1593	1.8032	0.000	.2074E-02	0.0004	.2076E-02
.6972E-08									
137	0.00	0.000	0.007	0.1590	1.7949	0.000	.2067E-02	0.0004	.2068E-02
.6972E-08									
138	0.00	0.000	0.007	0.1586	1.7867	0.000	.2059E-02	0.0004	.2060E-02
.6971E-08									
139	0.00	0.000	0.007	0.1582	1.7785	0.000	.2052E-02	0.0004	.2053E-02
.6971E-08									
140	0.00	0.000	0.006	0.1579	1.7704	0.000	.2044E-02	0.0004	.2045E-02
.6970E-08									
141	0.00	0.000	0.007	0.1575	1.7622	0.000	.2037E-02	0.0004	.2038E-02
.6970E-08									
142	0.00	0.000	0.007	0.1571	1.7541	0.000	.2029E-02	0.0004	.2030E-02
.6969E-08									
143	0.13	0.000	0.009	0.1638	1.7461	0.000	.2022E-02	0.0004	.2023E-02
.6969E-08									
144	0.00	0.000	0.007	0.1635	1.7380	0.000	.2014E-02	0.0004	.2016E-02
.6968E-08									
145	0.00	0.000	0.007	0.1631	1.7300	0.000	.2007E-02	0.0004	.2008E-02
.6967E-08									
146	0.00	0.000	0.007	0.1627	1.7220	0.000	.2000E-02	0.0004	.2001E-02
.6967E-08									
147	0.00	0.000	0.007	0.1624	1.7141	0.000	.1992E-02	0.0004	.1993E-02
.6966E-08									
148	0.00	0.000	0.007	0.1620	1.7061	0.000	.1985E-02	0.0004	.1986E-02
.6966E-08									
149	0.00	0.000	0.007	0.1616	1.6982	0.000	.1978E-02	0.0004	.1979E-02
.6965E-08									
150	0.00	0.000	0.007	0.1612	1.6904	0.000	.1970E-02	0.0004	.1972E-02
.6965E-08									
151	0.00	0.000	0.007	0.1609	1.6825	0.000	.1963E-02	0.0004	.1964E-02
.6964E-08									
152	0.00	0.000	0.007	0.1605	1.6747	0.000	.1956E-02	0.0004	.1957E-02
.6964E-08									
153	0.00	0.000	0.007	0.1602	1.6669	0.000	.1949E-02	0.0004	.1950E-02
.6963E-08									
154	0.12	0.000	0.009	0.1663	1.6592	0.000	.1941E-02	0.0004	.1943E-02
.6963E-08									
155	0.15	0.000	0.009	0.1741	1.6515	0.000	.1934E-02	0.0004	.1935E-02
.6962E-08									
156	0.00	0.000	0.007	0.1738	1.6438	0.000	.1927E-02	0.0004	.1928E-02
.6962E-08									
157	0.00	0.000	0.006	0.1734	1.6361	0.000	.1920E-02	0.0004	.1921E-02
.6961E-08									
158	0.00	0.000	0.006	0.1730	1.6284	0.000	.1913E-02	0.0004	.1914E-02
.6961E-08									
159	0.00	0.000	0.006	0.1727	1.6208	0.000	.1906E-02	0.0004	.1907E-02
.6960E-08									
160	0.00	0.000	0.006	0.1723	1.6133	0.000	.1899E-02	0.0004	.1900E-02
.6959E-08									
161	0.00	0.000	0.006	0.1720	1.6057	0.000	.1892E-02	0.0004	.1893E-02
.6959E-08									
162	0.00	0.000	0.006	0.1716	1.5982	0.000	.1885E-02	0.0004	.1886E-02
.6958E-08									
163	0.00	0.000	0.006	0.1713	1.5907	0.000	.1878E-02	0.0004	.1879E-02
.6958E-08									
164	0.00	0.000	0.006	0.1709	1.5832	0.000	.1871E-02	0.0004	.1872E-02
.6957E-08									

165	0.18	0.000	0.009	0.1804	1.5758	0.000	.1864E-02	0.0004	.1865E-02
.6957E-08									
166	0.05	0.000	0.009	0.1826	1.5684	0.000	.1857E-02	0.0004	.1858E-02
.6956E-08									
167	0.00	0.000	0.006	0.1823	1.5610	0.000	.1850E-02	0.0004	.1851E-02
.6956E-08									
168	0.00	0.000	0.006	0.1819	1.5536	0.000	.1843E-02	0.0003	.1844E-02
.6955E-08									
169	0.00	0.000	0.006	0.1816	1.5463	0.000	.1836E-02	0.0003	.1837E-02
.6955E-08									
170	0.00	0.000	0.006	0.1812	1.5390	0.000	.1829E-02	0.0003	.1830E-02
.6954E-08									
171	0.00	0.000	0.006	0.1809	1.5317	0.000	.1822E-02	0.0003	.1823E-02
.6954E-08									
172	0.00	0.000	0.006	0.1805	1.5245	0.000	.1815E-02	0.0003	.1816E-02
.6953E-08									
173	0.00	0.000	0.006	0.1802	1.5173	0.000	.1809E-02	0.0003	.1810E-02
.6953E-08									
174	0.19	0.000	0.009	0.1902	1.5101	0.000	.1802E-02	0.0003	.1803E-02
.6952E-08									
175	0.00	0.000	0.006	0.1899	1.5029	0.000	.1795E-02	0.0003	.1796E-02
.6952E-08									
176	0.00	0.000	0.006	0.1895	1.4958	0.000	.1788E-02	0.0003	.1789E-02
.6951E-08									
177	0.00	0.000	0.006	0.1892	1.4886	0.000	.1782E-02	0.0003	.1783E-02
.6951E-08									
178	0.00	0.000	0.006	0.1888	1.4816	0.000	.1775E-02	0.0003	.1776E-02
.6950E-08									
179	0.00	0.000	0.006	0.1885	1.4745	0.000	.1768E-02	0.0003	.1769E-02
.6950E-08									
180	0.13	0.000	0.009	0.1952	1.4675	0.000	.1761E-02	0.0003	.1763E-02
.6949E-08									
181	0.55	0.000	0.009	0.2252	1.4604	0.000	.1755E-02	0.0003	.1756E-02
.6949E-08									
182	0.03	0.000	0.317	0.2093	1.4535	0.000	.1748E-02	0.0003	.1749E-02
.6948E-08									
183	0.00	0.000	0.371	0.1886	1.4465	0.000	.1742E-02	0.0003	.1743E-02
.6948E-08									
184	0.00	0.000	0.201	0.1775	1.4396	0.000	.1735E-02	0.0003	.1736E-02
.6947E-08									
185	0.00	0.000	0.083	0.1729	1.4327	0.000	.1728E-02	0.0003	.1729E-02
.6947E-08									
186	0.01	0.000	0.067	0.1697	1.4258	0.000	.1722E-02	0.0003	.1723E-02
.6946E-08									
187	0.40	0.000	0.057	0.1887	1.4190	0.000	.1715E-02	0.0003	.1716E-02
.6946E-08									
188	0.00	0.000	0.047	0.1861	1.4121	0.000	.1709E-02	0.0003	.1710E-02
.6945E-08									
189	0.00	0.000	0.043	0.1837	1.4053	0.000	.1702E-02	0.0003	.1703E-02
.6945E-08									
190	0.00	0.000	0.039	0.1815	1.3986	0.000	.1696E-02	0.0003	.1697E-02
.6944E-08									
191	0.00	0.000	0.037	0.1795	1.3918	0.000	.1689E-02	0.0003	.1690E-02
.6944E-08									
192	0.00	0.000	0.034	0.1776	1.3851	0.000	.1683E-02	0.0003	.1684E-02
.6943E-08									
193	1.20	0.000	0.036	0.2423	1.3784	0.000	.1676E-02	0.0003	.1678E-02
.6943E-08									
194	0.00	0.000	0.358	0.2224	1.3717	0.000	.1670E-02	0.0003	.1671E-02
.6942E-08									
195	0.00	0.000	0.322	0.2045	1.3651	0.000	.1664E-02	0.0003	.1665E-02
.6942E-08									
196	0.00	0.000	0.337	0.1858	1.3585	0.000	.1657E-02	0.0003	.1658E-02
.6941E-08									
197	0.00	0.000	0.201	0.1746	1.3519	0.000	.1651E-02	0.0003	.1652E-02
.6941E-08									
198	0.00	0.000	0.083	0.1700	1.3453	0.000	.1645E-02	0.0003	.1646E-02
.6941E-08									
199	0.00	0.000	0.064	0.1665	1.3388	0.000	.1638E-02	0.0003	.1639E-02
.6940E-08									

200	0.00	0.000	0.054	0.1635	1.3322	0.000	.1632E-02	0.0003	.1633E-02
.6940E-08									
201	0.00	0.000	0.047	0.1608	1.3257	0.000	.1626E-02	0.0003	.1627E-02
.6939E-08									
202	0.00	0.000	0.043	0.1585	1.3193	0.000	.1620E-02	0.0003	.1621E-02
.6939E-08									
203	0.00	0.000	0.039	0.1563	1.3128	0.000	.1613E-02	0.0003	.1614E-02
.6938E-08									
204	0.00	0.000	0.037	0.1542	1.3064	0.000	.1607E-02	0.0003	.1608E-02
.6938E-08									
205	0.00	0.000	0.034	0.1523	1.3000	0.000	.1601E-02	0.0003	.1602E-02
.6937E-08									
206	0.00	0.000	0.033	0.1505	1.2937	0.000	.1595E-02	0.0003	.1596E-02
.6937E-08									
207	0.00	0.000	0.031	0.1488	1.2873	0.000	.1589E-02	0.0003	.1590E-02
.6936E-08									
208	0.01	0.000	0.033	0.1475	1.2810	0.000	.1582E-02	0.0003	.1583E-02
.6936E-08									
209	0.00	0.000	0.028	0.1460	1.2747	0.000	.1576E-02	0.0003	.1577E-02
.6935E-08									
210	0.05	0.000	0.031	0.1470	1.2684	0.000	.1570E-02	0.0003	.1571E-02
.6935E-08									
211	0.50	0.000	0.030	0.1731	1.2622	0.000	.1564E-02	0.0003	.1565E-02
.6934E-08									
212	0.00	0.000	0.025	0.1717	1.2560	0.000	.1558E-02	0.0003	.1559E-02
.6934E-08									
213	0.00	0.000	0.025	0.1703	1.2498	0.000	.1552E-02	0.0003	.1553E-02
.6934E-08									
214	0.00	0.000	0.024	0.1690	1.2436	0.000	.1546E-02	0.0003	.1547E-02
.6933E-08									
215	0.00	0.000	0.023	0.1677	1.2374	0.000	.1540E-02	0.0003	.1541E-02
.6933E-08									
216	0.00	0.000	0.023	0.1664	1.2313	0.000	.1534E-02	0.0003	.1535E-02
.6932E-08									
217	0.00	0.000	0.022	0.1652	1.2252	0.000	.1528E-02	0.0003	.1529E-02
.6932E-08									
218	0.00	0.000	0.022	0.1640	1.2191	0.000	.1522E-02	0.0003	.1523E-02
.6931E-08									
219	0.00	0.000	0.021	0.1628	1.2131	0.000	.1516E-02	0.0003	.1517E-02
.6931E-08									
220	0.00	0.000	0.021	0.1617	1.2070	0.000	.1510E-02	0.0003	.1511E-02
.6930E-08									
221	0.00	0.000	0.020	0.1606	1.2010	0.000	.1504E-02	0.0003	.1505E-02
.6930E-08									
222	0.11	0.000	0.024	0.1653	1.1951	0.000	.1498E-02	0.0003	.1499E-02
.6929E-08									
223	1.64	0.000	0.024	0.2551	1.1891	0.000	.1492E-02	0.0003	.1493E-02
.6929E-08									
224	0.00	0.000	0.282	0.2395	1.1832	0.000	.1487E-02	0.0003	.1488E-02
.6929E-08									
225	0.18	0.000	0.199	0.2384	1.1772	0.000	.1481E-02	0.0003	.1482E-02
.6928E-08									
226	0.34	0.000	0.314	0.2399	1.1713	0.000	.1475E-02	0.0003	.1476E-02
.6928E-08									
227	0.34	0.000	0.290	0.2427	1.1655	0.000	.1469E-02	0.0003	.1470E-02
.6927E-08									
228	0.00	0.000	0.316	0.2251	1.1596	0.000	.1463E-02	0.0003	.1464E-02
.6927E-08									
229	0.00	0.000	0.310	0.2079	1.1538	0.000	.1458E-02	0.0003	.1458E-02
.6926E-08									
230	0.00	0.000	0.252	0.1939	1.1480	0.000	.1452E-02	0.0003	.1453E-02
.6926E-08									
231	0.00	0.000	0.201	0.1828	1.1422	0.000	.1446E-02	0.0003	.1447E-02
.6926E-08									
232	0.00	0.000	0.083	0.1781	1.1365	0.000	.1440E-02	0.0003	.1441E-02
.6925E-08									
233	0.00	0.000	0.064	0.1746	1.1308	0.000	.1435E-02	0.0003	.1436E-02
.6925E-08									
234	0.00	0.000	0.054	0.1716	1.1251	0.000	.1429E-02	0.0003	.1430E-02
.6924E-08									

235	0.00	0.000	0.047	0.1690	1.1194	0.000	.1423E-02	0.0003	.1424E-02
.6924E-08									
236	0.00	0.000	0.043	0.1666	1.1137	0.000	.1418E-02	0.0003	.1419E-02
.6923E-08									
237	0.00	0.000	0.039	0.1644	1.1081	0.000	.1412E-02	0.0003	.1413E-02
.6923E-08									
238	0.00	0.000	0.037	0.1624	1.1024	0.000	.1406E-02	0.0003	.1407E-02
.6922E-08									
239	0.00	0.000	0.034	0.1605	1.0969	0.000	.1401E-02	0.0003	.1402E-02
.6922E-08									
240	0.78	0.000	0.037	0.2017	1.0913	0.000	.1395E-02	0.0003	.1396E-02
.6922E-08									
241	0.00	0.000	0.261	0.1872	1.0857	0.000	.1390E-02	0.0003	.1391E-02
.6921E-08									
242	0.00	0.000	0.031	0.1855	1.0802	0.000	.1384E-02	0.0003	.1385E-02
.6921E-08									
243	0.00	0.000	0.030	0.1839	1.0747	0.000	.1379E-02	0.0003	.1379E-02
.6920E-08									
244	0.00	0.000	0.028	0.1823	1.0692	0.000	.1373E-02	0.0003	.1374E-02
.6920E-08									
245	0.00	0.000	0.027	0.1808	1.0637	0.000	.1368E-02	0.0003	.1368E-02
.6920E-08									
246	0.00	0.000	0.026	0.1793	1.0588	0.000	.1363E-02	0.0003	.1363E-02
.6919E-08									
247	0.00	0.000	0.025	0.1779	1.0538	0.000	.1358E-02	0.0003	.1358E-02
.6919E-08									
248	0.00	0.000	0.025	0.1765	1.0484	0.000	.1352E-02	0.0003	.1353E-02
.6918E-08									
249	0.00	0.000	0.024	0.1752	1.0430	0.000	.1347E-02	0.0003	.1348E-02
.6918E-08									
250	0.00	0.000	0.023	0.1739	1.0377	0.000	.1341E-02	0.0003	.1342E-02
.6918E-08									
251	0.12	0.000	0.028	0.1790	1.0323	0.000	.1336E-02	0.0003	.1337E-02
.6917E-08									
252	0.00	0.000	0.022	0.1778	1.0270	0.000	.1330E-02	0.0003	.1331E-02
.6917E-08									
253	0.00	0.000	0.022	0.1766	1.0219	0.000	.1325E-02	0.0003	.1326E-02
.6916E-08									
254	0.02	0.000	0.026	0.1762	1.0174	0.000	.1321E-02	0.0002	.1321E-02
.6916E-08									
255	2.57	0.000	0.026	0.3176	1.0121	0.000	.1315E-02	0.0002	.1316E-02
.6916E-08									
256	0.00	0.000	0.282	0.2793	1.3455	0.000	.1626E-02	0.0003	.1582E-02
.6936E-08									
257	0.00	0.000	0.278	0.2559	2.8674	0.000	.3013E-02	0.0005	.2812E-02
.7025E-08									
258	0.00	0.000	0.219	0.2389	3.3321	0.000	.3407E-02	0.0006	.3329E-02
.7062E-08									
259	0.00	0.000	0.215	0.2242	3.5787	0.000	.3614E-02	0.0007	.3576E-02
.7079E-08									
260	0.00	0.000	0.214	0.2103	3.7437	0.000	.3751E-02	0.0007	.3727E-02
.7090E-08									
261	0.00	0.000	0.241	0.1944	3.8886	0.000	.3871E-02	0.0007	.3851E-02
.7099E-08									
262	0.00	0.000	0.201	0.1813	4.0350	0.000	.3992E-02	0.0008	.3973E-02
.7107E-08									
263	0.00	0.000	0.083	0.1745	4.1717	0.000	.4104E-02	0.0008	.4086E-02
.7115E-08									
264	0.00	0.000	0.064	0.1692	4.2996	0.000	.4209E-02	0.0008	.4192E-02
.7122E-08									
265	0.00	0.000	0.054	0.1649	4.3957	0.000	.4288E-02	0.0008	.4275E-02
.7128E-08									
266	0.00	0.000	0.047	0.1611	4.4690	0.000	.4348E-02	0.0008	.4338E-02
.7132E-08									
267	0.00	0.000	0.043	0.1578	4.5263	0.000	.4394E-02	0.0008	.4387E-02
.7135E-08									
268	0.00	0.000	0.039	0.1546	4.5755	0.000	.4435E-02	0.0008	.4428E-02
.7138E-08									
269	0.00	0.000	0.037	0.1518	4.6282	0.000	.4477E-02	0.0008	.4471E-02
.7141E-08									

270	0.00	0.000	0.034	0.1492	4.6661	0.000	.4508E-02	0.0009	.4503E-02
.7143E-08									
271	0.00	0.000	0.033	0.1468	4.6926	0.000	.4530E-02	0.0009	.4526E-02
.7145E-08									
272	0.00	0.000	0.031	0.1446	4.7115	0.000	.4545E-02	0.0009	.4543E-02
.7146E-08									
273	0.00	0.000	0.030	0.1426	4.7249	0.000	.4556E-02	0.0009	.4554E-02
.7147E-08									
274	0.00	0.000	0.028	0.1407	4.7300	0.000	.4560E-02	0.0009	.4560E-02
.7147E-08									
275	0.00	0.000	0.027	0.1388	4.7377	0.000	.4567E-02	0.0009	.4566E-02
.7147E-08									
276	0.00	0.000	0.026	0.1372	4.7430	0.000	.4571E-02	0.0009	.4570E-02
.7148E-08									
277	0.00	0.000	0.025	0.1358	4.7303	0.000	.4561E-02	0.0009	.4562E-02
.7147E-08									
278	0.00	0.000	0.025	0.1344	4.7122	0.000	.4546E-02	0.0009	.4548E-02
.7146E-08									
279	0.23	0.000	0.029	0.1455	4.6941	0.000	.4531E-02	0.0009	.4533E-02
.7145E-08									
280	0.00	0.000	0.023	0.1442	4.6761	0.000	.4516E-02	0.0009	.4519E-02
.7144E-08									
281	0.00	0.000	0.023	0.1430	4.6581	0.000	.4502E-02	0.0009	.4504E-02
.7143E-08									
282	0.00	0.000	0.022	0.1418	4.6402	0.000	.4487E-02	0.0008	.4490E-02
.7142E-08									
283	0.00	0.000	0.022	0.1405	4.6223	0.000	.4473E-02	0.0008	.4475E-02
.7141E-08									
284	0.00	0.000	0.021	0.1394	4.6045	0.000	.4458E-02	0.0008	.4461E-02
.7140E-08									
285	0.34	0.000	0.025	0.1569	4.5868	0.000	.4444E-02	0.0008	.4446E-02
.7139E-08									
286	0.00	0.000	0.020	0.1558	4.5691	0.000	.4429E-02	0.0008	.4432E-02
.7138E-08									
287	0.00	0.000	0.020	0.1547	4.5515	0.000	.4415E-02	0.0008	.4417E-02
.7137E-08									
288	0.00	0.000	0.019	0.1536	4.5339	0.000	.4401E-02	0.0008	.4403E-02
.7136E-08									
289	0.00	0.000	0.019	0.1525	4.5164	0.000	.4386E-02	0.0008	.4389E-02
.7135E-08									
290	0.00	0.000	0.019	0.1515	4.4990	0.000	.4372E-02	0.0008	.4374E-02
.7134E-08									
291	0.00	0.000	0.018	0.1504	4.4816	0.000	.4358E-02	0.0008	.4360E-02
.7133E-08									
292	0.00	0.000	0.018	0.1494	4.4642	0.000	.4344E-02	0.0008	.4346E-02
.7132E-08									
293	0.00	0.000	0.018	0.1484	4.4469	0.000	.4330E-02	0.0008	.4332E-02
.7132E-08									
294	0.00	0.000	0.018	0.1475	4.4297	0.000	.4316E-02	0.0008	.4318E-02
.7131E-08									
295	0.00	0.000	0.017	0.1465	4.4125	0.000	.4302E-02	0.0008	.4304E-02
.7130E-08									
296	0.00	0.000	0.017	0.1456	4.3954	0.000	.4288E-02	0.0008	.4290E-02
.7129E-08									
297	0.00	0.000	0.017	0.1446	4.3784	0.000	.4274E-02	0.0008	.4276E-02
.7128E-08									
298	0.00	0.000	0.017	0.1437	4.3613	0.000	.4260E-02	0.0008	.4262E-02
.7127E-08									
299	0.00	0.000	0.016	0.1428	4.3444	0.000	.4246E-02	0.0008	.4248E-02
.7126E-08									
300	0.00	0.000	0.016	0.1419	4.3275	0.000	.4232E-02	0.0008	.4234E-02
.7125E-08									
301	0.00	0.000	0.016	0.1410	4.3107	0.000	.4218E-02	0.0008	.4220E-02
.7124E-08									
302	0.00	0.000	0.016	0.1401	4.2939	0.000	.4204E-02	0.0008	.4207E-02
.7123E-08									
303	0.00	0.000	0.016	0.1393	4.2771	0.000	.4191E-02	0.0008	.4193E-02
.7122E-08									
304	0.03	0.000	0.021	0.1398	4.2605	0.000	.4177E-02	0.0008	.4179E-02
.7121E-08									

305	0.00	0.000	0.015	0.1389	4.2439	0.000	.4163E-02	0.0008	.4166E-02
.7120E-08									
306	0.00	0.000	0.015	0.1381	4.2273	0.000	.4150E-02	0.0008	.4152E-02
.7119E-08									
307	0.00	0.000	0.015	0.1372	4.2108	0.000	.4136E-02	0.0008	.4138E-02
.7118E-08									
308	0.00	0.000	0.015	0.1364	4.1943	0.000	.4123E-02	0.0008	.4125E-02
.7117E-08									
309	0.00	0.000	0.015	0.1356	4.1779	0.000	.4109E-02	0.0008	.4111E-02
.7116E-08									
310	0.00	0.000	0.014	0.1348	4.1616	0.000	.4096E-02	0.0008	.4098E-02
.7115E-08									
311	0.00	0.000	0.014	0.1340	4.1453	0.000	.4083E-02	0.0008	.4085E-02
.7115E-08									
312	0.00	0.000	0.014	0.1332	4.1290	0.000	.4069E-02	0.0008	.4071E-02
.7114E-08									
313	0.00	0.000	0.014	0.1325	4.1128	0.000	.4056E-02	0.0008	.4058E-02
.7113E-08									
314	0.00	0.000	0.014	0.1317	4.0967	0.000	.4043E-02	0.0008	.4045E-02
.7112E-08									
315	0.00	0.000	0.014	0.1309	4.0806	0.000	.4029E-02	0.0008	.4031E-02
.7111E-08									
316	0.00	0.000	0.014	0.1302	4.0646	0.000	.4016E-02	0.0008	.4018E-02
.7110E-08									
317	0.00	0.000	0.013	0.1294	4.0486	0.000	.4003E-02	0.0008	.4005E-02
.7109E-08									
318	0.00	0.000	0.013	0.1287	4.0327	0.000	.3990E-02	0.0008	.3992E-02
.7108E-08									
319	0.00	0.000	0.013	0.1280	4.0168	0.000	.3977E-02	0.0008	.3979E-02
.7107E-08									
320	0.00	0.000	0.013	0.1272	4.0010	0.000	.3964E-02	0.0008	.3966E-02
.7106E-08									
321	0.00	0.000	0.013	0.1265	3.9852	0.000	.3951E-02	0.0007	.3953E-02
.7106E-08									
322	0.00	0.000	0.013	0.1258	3.9695	0.000	.3938E-02	0.0007	.3940E-02
.7105E-08									
323	0.00	0.000	0.013	0.1251	3.9538	0.000	.3925E-02	0.0007	.3927E-02
.7104E-08									
324	0.00	0.000	0.013	0.1244	3.9382	0.000	.3912E-02	0.0007	.3914E-02
.7103E-08									
325	0.00	0.000	0.012	0.1237	3.9226	0.000	.3899E-02	0.0007	.3901E-02
.7102E-08									
326	0.00	0.000	0.012	0.1230	3.9071	0.000	.3886E-02	0.0007	.3888E-02
.7101E-08									
327	0.00	0.000	0.012	0.1223	3.8916	0.000	.3873E-02	0.0007	.3875E-02
.7100E-08									
328	0.00	0.000	0.012	0.1216	3.8762	0.000	.3861E-02	0.0007	.3863E-02
.7099E-08									
329	0.00	0.000	0.012	0.1209	3.8609	0.000	.3848E-02	0.0007	.3850E-02
.7098E-08									
330	0.00	0.000	0.012	0.1203	3.8455	0.000	.3835E-02	0.0007	.3837E-02
.7098E-08									
331	0.00	0.000	0.012	0.1196	3.8303	0.000	.3823E-02	0.0007	.3825E-02
.7097E-08									
332	0.00	0.000	0.012	0.1189	3.8151	0.000	.3810E-02	0.0007	.3812E-02
.7096E-08									
333	0.00	0.000	0.012	0.1183	3.7999	0.000	.3798E-02	0.0007	.3800E-02
.7095E-08									
334	0.00	0.000	0.010	0.1177	3.7848	0.000	.3785E-02	0.0007	.3787E-02
.7094E-08									
335	0.00	0.000	0.011	0.1169	3.7808	0.000	.3782E-02	0.0007	.3782E-02
.7094E-08									
336	0.00	0.000	0.012	0.1162	3.7724	0.000	.3775E-02	0.0007	.3776E-02
.7093E-08									
337	0.00	0.000	0.012	0.1156	3.7573	0.000	.3762E-02	0.0007	.3764E-02
.7092E-08									
338	0.00	0.000	0.011	0.1149	3.7424	0.000	.3750E-02	0.0007	.3752E-02
.7092E-08									
339	0.00	0.000	0.011	0.1143	3.7274	0.000	.3737E-02	0.0007	.3739E-02
.7091E-08									

340	0.00	0.000	0.011	0.1137	3.7126	0.000	.3725E-02	0.0007	.3727E-02 .7090E-08
341	0.00	0.000	0.011	0.1131	3.6978	0.000	.3713E-02	0.0007	.3715E-02 .7089E-08
342	0.00	0.000	0.011	0.1124	3.6830	0.000	.3700E-02	0.0007	.3702E-02 .7088E-08
343	0.00	0.000	0.011	0.1118	3.6683	0.000	.3688E-02	0.0007	.3690E-02 .7087E-08
344 *	0.00	0.000	0.011	0.1112	3.6536	0.000	.3676E-02	0.0007	.3678E-02 .7087E-08
345	0.04	0.000	0.013	0.1127	3.6390	0.000	.3664E-02	0.0007	.3666E-02 .7086E-08
346 *	0.08	0.000	0.067	0.1134	3.6244	0.000	.3652E-02	0.0007	.3654E-02 .7085E-08
347	0.00	0.000	0.011	0.1128	3.6098	0.000	.3640E-02	0.0007	.3642E-02 .7084E-08
348	0.00	0.000	0.011	0.1122	3.5954	0.000	.3628E-02	0.0007	.3629E-02 .7083E-08
349	0.00	0.000	0.011	0.1116	3.5809	0.000	.3616E-02	0.0007	.3617E-02 .7082E-08
350	0.00	0.000	0.011	0.1110	3.5665	0.000	.3604E-02	0.0007	.3605E-02 .7081E-08
351	0.00	0.000	0.011	0.1104	3.5522	0.000	.3592E-02	0.0007	.3593E-02 .7081E-08
352	0.00	0.000	0.011	0.1096	3.5442	0.000	.3585E-02	0.0007	.3586E-02 .7080E-08
353 *	0.00	0.000	0.011	0.1090	3.5404	0.000	.3582E-02	0.0007	.3582E-02 .7080E-08
354	0.00	0.000	0.010	0.1082	3.5325	0.000	.3575E-02	0.0007	.3576E-02 .7079E-08
355	0.00	0.000	0.010	0.1076	3.5289	0.000	.3572E-02	0.0007	.3573E-02 .7079E-08
356	0.00	0.000	0.010	0.1068	3.5210	0.000	.3566E-02	0.0007	.3566E-02 .7079E-08
357	0.00	0.000	0.010	0.1062	3.5174	0.000	.3562E-02	0.0007	.3563E-02 .7079E-08
358	0.00	0.000	0.010	0.1054	3.5095	0.000	.3556E-02	0.0007	.3557E-02 .7078E-08
359	0.00	0.000	0.003	0.1053	3.5059	0.000	.3553E-02	0.0007	.3553E-02 .7078E-08
360	0.00	0.000	0.002	0.1052	3.4918	0.000	.3541E-02	0.0007	.3543E-02 .7077E-08
361 *	0.00	0.000	0.002	0.1051	3.4777	0.000	.3529E-02	0.0007	.3531E-02 .7076E-08
362 *	0.00	0.000	0.002	0.1050	3.4637	0.000	.3518E-02	0.0007	.3519E-02 .7075E-08
363	0.00	0.000	0.002	0.1049	3.4497	0.000	.3506E-02	0.0007	.3508E-02 .7075E-08
364	0.00	0.000	0.002	0.1048	3.4357	0.000	.3494E-02	0.0007	.3496E-02 .7074E-08
365	0.00	0.000	0.002	0.1047	3.4218	0.000	.3483E-02	0.0007	.3484E-02 .7073E-08

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MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.92	0.45	0.30	0.00	0.13	1.37
	2.20	3.39	2.71	0.60	0.00	0.12
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000

	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.707	0.405	0.475	0.220	0.213	0.212
	3.163	3.171	2.447	0.636	0.397	0.333
PERCOLATION/LEAKAGE THROUGH	0.0979	0.0799	0.0799	0.0694	0.0643	0.0556
LAYER 2	0.0512	0.0454	0.0878	0.1360	0.1191	0.1123
LATERAL DRAINAGE COLLECTED	0.0979	0.0800	0.0799	0.0695	0.0644	0.0557
FROM LAYER 3	0.0512	0.0454	0.0873	0.1360	0.1192	0.1124
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	3.037	2.684	2.365	2.068	1.804	1.566
TOP OF LAYER 2	1.353	1.161	2.838	4.516	4.011	3.590
STD. DEVIATION OF DAILY	0.114	0.094	0.093	0.081	0.075	0.065
HEAD ON TOP OF LAYER 2	0.060	0.053	1.630	0.154	0.139	0.106
AVERAGE DAILY HEAD ON	0.001	0.001	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.001	0.001	0.001	0.001
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.19	10340929.495	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	12.378	10500562.783	101.54
PERC./LEAKAGE THROUGH LAYER 2	0.998917	847393.824	8.19
AVG. HEAD ON TOP OF LAYER 2	2.5827		
DRAINAGE COLLECTED FROM LAYER 3	0.9989	847371.303	8.19
PERC./LEAKAGE THROUGH LAYER 5	0.000003	2.173	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0005		
CHANGE IN WATER STORAGE	-1.187	-1007006.608	-9.74
SOIL WATER AT START OF YEAR	6.252	5303245.154	
SOIL WATER AT END OF YEAR	5.064	4296238.546	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.155	0.00

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AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.46	0.31	0.16	0.29	0.21	0.70
	1.69	3.62	4.55	0.30	0.49	0.37
STD. DEVIATIONS	0.65	0.20	0.20	0.42	0.12	0.95
	0.73	0.33	2.60	0.42	0.70	0.35
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	0.505	0.324	0.323	0.131	0.177	0.181
	1.800	3.023	3.882	0.870	0.425	0.389
STD. DEVIATIONS	0.286	0.115	0.215	0.126	0.051	0.045
	1.928	0.210	2.031	0.332	0.041	0.080
PERCOLATION/LEAKAGE THROUGH LAYER 2						
TOTALS	0.0489	0.0400	0.0399	0.0347	0.0322	0.0278
	0.0256	0.0227	0.0578	0.1329	0.1174	0.1105
STD. DEVIATIONS	0.0692	0.0565	0.0565	0.0491	0.0455	0.0393
	0.0362	0.0321	0.0424	0.0044	0.0025	0.0026
LATERAL DRAINAGE COLLECTED FROM LAYER 3						
TOTALS	0.0490	0.0400	0.0400	0.0347	0.0322	0.0278
	0.0256	0.0227	0.0569	0.1329	0.1174	0.1105
STD. DEVIATIONS	0.0693	0.0566	0.0565	0.0491	0.0455	0.0394
	0.0362	0.0321	0.0430	0.0044	0.0025	0.0026
PERCOLATION/LEAKAGE THROUGH LAYER 5						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 2						
AVERAGES	1.5186	1.3418	1.1824	1.0340	0.9022	0.7829
	0.6764	0.5803	1.8672	4.3939	3.9393	3.5194

STD. DEVIATIONS	2.1476	1.8976	1.6722	1.4623	1.2759	1.1071
	0.9566	0.8206	1.3728	0.1724	0.1011	0.1004

DAILY AVERAGE HEAD ON TOP OF LAYER 4

AVERAGES	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002
	0.0002	0.0001	0.0004	0.0008	0.0007	0.0007
STD. DEVIATIONS	0.0004	0.0004	0.0003	0.0003	0.0003	0.0002
	0.0002	0.0002	0.0003	0.0000	0.0000	0.0000

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 2

	INCHES		CU. FEET	PERCENT
PRECIPITATION	13.15	(1.365)	11159551.1	100.00
RUNOFF	0.000	(0.0000)	0.00	0.000
EVAPOTRANSPIRATION	12.030	(0.4926)	10205073.36	91.447
PERCOLATION/LEAKAGE THROUGH LAYER 2	0.69041	(0.43630)	585680.672	5.24825
AVERAGE HEAD ON TOP OF LAYER 2	1.812	(1.091)		
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.68976	(0.43717)	585135.625	5.24336
PERCOLATION/LEAKAGE THROUGH LAYER 5	0.00000	(0.00000)	1.388	0.00001
AVERAGE HEAD ON TOP OF LAYER 4	0.000	(0.000)		
CHANGE IN WATER STORAGE	0.435	(2.2945)	369340.87	3.310

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 2 and their dates (DDDYYYY)

	(INCHES)	(CU. FT.)	
PRECIPITATION	2.57	2180163.15040	2550002
RUNOFF	0.000	0.00000	0
PERCOLATION/LEAKAGE THROUGH LAYER 2	0.004571	3877.54886	2760002
AVERAGE HEAD ON TOP OF LAYER 2	4.743		
DRAINAGE COLLECTED FROM LAYER 3	0.00457	3876.93419	2760002
PERCOLATION/LEAKAGE THROUGH LAYER 5	0.000000	0.00606	2760002
AVERAGE HEAD ON TOP OF LAYER 4	0.001		
MAXIMUM HEAD ON TOP OF LAYER 4	0.002		

LOCATION OF MAXIMUM HEAD IN LAYER 3
(DISTANCE FROM DRAIN) 0.0 FEET

SNOW WATER 0.90 763748.4554 110002

MAXIMUM VEG. SOIL WATER (VOL/VOL) 0.3222

MINIMUM VEG. SOIL WATER (VOL/VOL) 0.1040

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

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FINAL WATER STORAGE AT END OF YEAR 2

LAYER	(INCHES)	(VOL/VOL)
1	4.0735	0.1697
2	0.0000	0.0000
3	0.0025	0.0128
4	0.0000	0.0000
5	0.1875	0.7500
SNOW WATER	0.000	

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Attachment A-5
Tier II, Simulation 8-1
Alternate Liner with Soil Type 7
Intermediate Cover with Soil Type 7

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**                                                                  **
**                                                                  **
**            HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE          **
**              HELP MODEL VERSION 3.07 (1 November 1997)           **
**                DEVELOPED BY ENVIRONMENTAL LABORATORY             **
**                  USAE WATERWAYS EXPERIMENT STATION               **
**           FOR USEPA RISK REDUCTION ENGINEERING LABORATORY         **
**                                                                  **
**                                                                  **
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PRECIPITATION DATA FILE:     C:\WHI\VHELP22\data\P5078.VHP\_weather1.dat
TEMPERATURE DATA FILE:       C:\WHI\VHELP22\data\P5078.VHP\_weather2.dat
SOLAR RADIATION DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\_weather3.dat
EVAPOTRANSPIRATION DATA:     C:\WHI\VHELP22\data\P5078.VHP\_weather4.dat
SOIL AND DESIGN DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\I_389929.inp
OUTPUT DATA FILE:            C:\WHI\VHELP22\data\P5078.VHP\O_389929.prt


TIME:  14:10     DATE:  10/17/2013


**********************************************************************

     TITLE:  Alternative Liner S-8

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     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
              WERE SPECIFIED BY THE USER.


                              LAYER  1
                              --------

               TYPE 1 - VERTICAL PERCOLATION LAYER
                   MATERIAL TEXTURE NUMBER   7
          THICKNESS                    =     30.48   CM   (12 in.)
          POROSITY                     =      0.4730 VOL/VOL
          FIELD CAPACITY               =      0.2220 VOL/VOL
          WILTING POINT                =      0.1040 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.1335 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.520000000000E-03 CM/SEC


                              LAYER  2
                              --------

               TYPE 1 - VERTICAL PERCOLATION LAYER
                   MATERIAL TEXTURE NUMBER   7
          THICKNESS                    =    914.40   CM   (30 ft.)
          POROSITY                     =      0.4730 VOL/VOL
          FIELD CAPACITY               =      0.2220 VOL/VOL
          WILTING POINT                =      0.1040 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.1335 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.520000000000E-03 CM/SEC
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LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 7

THICKNESS	=	60.96	CM (24 in.)
POROSITY	=	0.4730	VOL/VOL
FIELD CAPACITY	=	0.2220	VOL/VOL
WILTING POINT	=	0.1040	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1697	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.520000000000E-03	CM/SEC

LAYER 4

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.15	CM (0.06 in.)
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.200000000000E-12	CM/SEC
FML PINHOLE DENSITY	=	2.47	HOLES/HECTARE (1 hole/acre)
FML INSTALLATION DEFECTS	=	9.88	HOLES/HECTARE (4 hole/acre)
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 5

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 20

THICKNESS	=	0.50	CM (0.20 in.)
POROSITY	=	0.8500	VOL/VOL
FIELD CAPACITY	=	0.0100	VOL/VOL
WILTING POINT	=	0.0050	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0128	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	10.0000000000	CM/SEC
SLOPE	=	2.80	PERCENT
DRAINAGE LENGTH	=	91.4	METERS (300 ft.)

LAYER 6

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.15	CM (0.06 in.)
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.200000000000E-12	CM/SEC
FML PINHOLE DENSITY	=	2.47	HOLES/HECTARE (1 hole/acre)
FML INSTALLATION DEFECTS	=	9.88	HOLES/HECTARE (4 hole/acre)
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 7

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 17

THICKNESS	=	0.64	CM (0.25 in.)
POROSITY	=	0.7500	VOL/VOL
FIELD CAPACITY	=	0.7470	VOL/VOL
WILTING POINT	=	0.4000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.7500	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.300000000000E-08	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE # 7 WITH BARE GROUND CONDITIONS, A SURFACE SLOPE OF 2.8% AND A SLOPE LENGTH OF 91. METERS (300 ft.)

SCS RUNOFF CURVE NUMBER	=	88.34	
FRACTION OF AREA ALLOWING RUNOFF	=	0.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	94.5750	HECTARES (233.7 acres)
EVAPORATIVE ZONE DEPTH	=	45.7	CM (18.00 in.)
INITIAL WATER IN EVAPORATIVE ZONE	=	6.104	CM (2.40 in.)
UPPER LIMIT OF EVAPORATIVE STORAGE	=	21.626	CM (8.51 in.)
LOWER LIMIT OF EVAPORATIVE STORAGE	=	4.755	CM (1.87 in.)
INITIAL SNOW WATER	=	0.000	CM (0.00 in.)
INITIAL WATER IN LAYER MATERIALS	=	136.969	CM (53.92 in.)
TOTAL INITIAL WATER	=	136.969	CM (53.92 in.)
TOTAL SUBSURFACE INFLOW	=	0.00	MM/YR (0.00 in./yr)

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM EL PASO TX

STATION LATITUDE	=	31.85	DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00	
START OF GROWING SEASON (JULIAN DATE)	=	66	
END OF GROWING SEASON (JULIAN DATE)	=	315	
EVAPORATIVE ZONE DEPTH	=	18.0	INCHES
AVERAGE ANNUAL WIND SPEED	=	9.20	MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	40.00	%
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	27.00	%
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	46.00	%
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	48.00	%

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.60	0.52	0.18	0.30	0.73	0.44
2.39	3.48	2.38	0.58	0.66	0.23

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
46.40	50.30	58.30	65.60	75.00	83.20
83.00	80.10	74.60	65.80	54.30	45.80

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR DNCS NM
AND STATION LATITUDE = 32.78 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

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DAILY OUTPUT FOR YEAR 1

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.010	0.1329	0.0000	0.000	0.000	0.0002	.5511E-03	.1124E-08
2			0.00	0.000	0.010	0.1323	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.010	0.1318	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.010	0.1312	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.010	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.010	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.010	0.1295	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.010	0.1289	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.010	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.010	0.1278	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.010	0.1273	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.010	0.1267	0.0000	0.000	0.000	0.0000	0.000	0.000
13			0.00	0.000	0.010	0.1262	0.0000	0.000	0.000	0.0000	0.000	0.000
14			0.00	0.000	0.010	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.010	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
16			0.00	0.000	0.010	0.1245	0.0000	0.000	0.000	0.0000	0.000	0.000
17			0.00	0.000	0.010	0.1240	0.0000	0.000	0.000	0.0000	0.000	0.000
18			0.00	0.000	0.010	0.1235	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.00	0.000	0.010	0.1229	0.0000	0.000	0.000	0.0000	0.000	0.000
20			0.00	0.000	0.010	0.1224	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.00	0.000	0.010	0.1219	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.009	0.1213	0.0000	0.000	0.000	0.0000	0.000	0.000
23			0.00	0.000	0.009	0.1208	0.0000	0.000	0.000	0.0000	0.000	0.000
24			0.00	0.000	0.009	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
25			0.00	0.000	0.009	0.1198	0.0000	0.000	0.000	0.0000	0.000	0.000
26			0.00	0.000	0.009	0.1193	0.0000	0.000	0.000	0.0000	0.000	0.000
27			0.00	0.000	0.009	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
28			0.00	0.000	0.009	0.1182	0.0000	0.000	0.000	0.0000	0.000	0.000

29	0.00	0.000	0.009	0.1177	0.0000	0.000	0.000	0.0000	0.000	0.000
30	0.00	0.000	0.009	0.1172	0.0000	0.000	0.000	0.0000	0.000	0.000
31	0.00	0.000	0.009	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
32	0.17	0.000	0.010	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
33	0.00	0.000	0.009	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
34	0.00	0.000	0.009	0.1246	0.0000	0.000	0.000	0.0000	0.000	0.000
35	0.00	0.000	0.009	0.1241	0.0000	0.000	0.000	0.0000	0.000	0.000
36	0.00	0.000	0.009	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
37	0.00	0.000	0.009	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
38	0.00	0.000	0.009	0.1226	0.0000	0.000	0.000	0.0000	0.000	0.000
39	0.00	0.000	0.009	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
40	0.00	0.000	0.009	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
41	0.00	0.000	0.009	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
42	0.00	0.000	0.009	0.1207	0.0000	0.000	0.000	0.0000	0.000	0.000
43	0.00	0.000	0.009	0.1202	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.00	0.000	0.009	0.1197	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.00	0.000	0.009	0.1192	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.00	0.000	0.009	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.009	0.1183	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.00	0.000	0.009	0.1178	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.00	0.000	0.008	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.008	0.1169	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.008	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.008	0.1159	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.008	0.1155	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.008	0.1150	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.00	0.000	0.008	0.1145	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.00	0.000	0.008	0.1141	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.008	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.008	0.1132	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.008	0.1127	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.008	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.008	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.008	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.008	0.1109	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.008	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.008	0.1100	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.008	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.008	0.1091	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.008	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.008	0.1083	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.008	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.008	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.008	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.008	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.02	0.000	0.009	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.008	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.008	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.008	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.008	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.008	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.001	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.001	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.001	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.001	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000

100	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.04	0.000	0.002	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.001	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.002	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.001	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.001	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.001	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.001	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.001	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.001	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.001	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.001	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.29	0.000	0.004	0.1213	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.003	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.26	0.000	0.004	0.1354	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.003	0.1352	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.005	0.1349	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.005	0.1347	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.005	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.005	0.1342	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.005	0.1339	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.005	0.1337	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.005	0.1334	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.005	0.1331	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.005	0.1329	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.005	0.1326	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.005	0.1324	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.005	0.1321	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.005	0.1319	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.005	0.1316	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.005	0.1314	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.005	0.1311	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.004	0.1309	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.004	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.004	0.1304	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.004	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.004	0.1299	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.004	0.1296	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.004	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.004	0.1291	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.004	0.1289	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.004	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.004	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.004	0.1282	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.004	0.1279	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.004	0.1277	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.004	0.1274	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.004	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.004	0.1270	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.30	0.000	0.006	0.1433	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.005	0.1430	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.005	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.01	0.000	0.006	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.004	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.01	0.000	0.006	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.004	0.1426	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.005	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.004	0.1421	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.004	0.1419	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.004	0.1417	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.004	0.1414	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.005	0.1412	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.005	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.005	0.1406	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.005	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.005	0.1400	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.005	0.1398	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.005	0.1395	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.005	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000

171	0.00	0.000	0.005	0.1389	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.005	0.1386	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.005	0.1383	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.005	0.1381	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.005	0.1378	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.005	0.1375	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.005	0.1372	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.005	0.1369	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.005	0.1367	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.005	0.1364	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.005	0.1361	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.005	0.1358	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.005	0.1355	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.21	0.000	0.007	0.1468	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.005	0.1465	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.006	0.1462	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.005	0.1459	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.005	0.1456	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.005	0.1453	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.005	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.006	0.1447	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.01	0.000	0.008	0.1448	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.005	0.1445	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.005	0.1442	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.01	0.000	0.008	0.1443	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.005	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.005	0.1438	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.005	0.1435	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.005	0.1432	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.31	0.000	0.008	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.11	0.000	0.008	0.1657	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.005	0.1654	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.005	0.1651	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.18	0.000	0.008	0.1747	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.005	0.1744	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.09	0.000	0.008	0.1790	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.005	0.1787	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.25	0.000	0.008	0.1921	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.259	0.1777	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.005	0.1774	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.006	0.1771	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.005	0.1768	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.005	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.005	0.1763	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.005	0.1760	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.29	0.000	0.008	0.1916	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.272	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.006	0.1762	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.006	0.1759	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.006	0.1756	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.006	0.1753	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.006	0.1749	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.006	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.006	0.1743	0.0000	0.000	0.000	0.0000	0.000	0.000
225	1.03	0.000	0.009	0.2310	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.11	0.000	0.196	0.2262	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.303	0.2094	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.281	0.1938	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.299	0.1772	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.194	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.080	0.1619	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.062	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.052	0.1556	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.07	0.000	0.049	0.1567	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.041	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.37	0.000	0.042	0.1726	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.24	0.000	0.039	0.1838	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.033	0.1820	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.032	0.1802	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.82	0.000	0.034	0.2239	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.16	0.000	0.266	0.2180	0.0000	0.000	0.000	0.0000	0.000	0.000

242	0.05	0.000	0.275	0.2055	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.71	0.000	0.250	0.2310	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.257	0.2168	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.280	0.2013	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.277	0.1859	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.201	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.083	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.064	0.1665	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.054	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.047	0.1608	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.043	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.039	0.1563	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.037	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.034	0.1523	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.83	0.000	0.037	0.1964	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.31	0.000	0.170	0.2042	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.246	0.1905	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.232	0.1776	0.0000	0.000	0.000	0.0000	0.000	0.000
260	1.00	0.000	0.172	0.2236	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.26	0.000	0.220	0.2258	0.0000	0.000	0.000	0.0000	0.000	0.000
262	1.48	0.000	0.224	0.2956	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.16	0.000	0.200	0.2928	0.0000	0.000	0.000	0.0000	0.000	0.000
264	1.43	0.000	0.237	0.3222	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.251	0.2927	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.242	0.2691	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.238	0.2492	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.16	0.000	0.239	0.2407	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.232	0.2240	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.76	0.000	0.243	0.2499	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.241	0.2343	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.253	0.2183	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.225	0.2039	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.188	0.1918	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.083	0.1858	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.064	0.1809	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.054	0.1769	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.047	0.1736	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.043	0.1706	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.039	0.1679	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.037	0.1654	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.034	0.1632	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.033	0.1612	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.031	0.1595	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.00	0.000	0.030	0.1578	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.028	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.027	0.1547	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.026	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.025	0.1518	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.025	0.1505	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.024	0.1491	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.023	0.1478	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.023	0.1466	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.00	0.000	0.022	0.1454	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.022	0.1442	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.021	0.1430	0.0000	0.000	0.000	0.0000	0.000	0.000
297	0.00	0.000	0.021	0.1418	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.020	0.1407	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.020	0.1396	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.019	0.1385	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.019	0.1375	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.019	0.1364	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.00	0.000	0.018	0.1354	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.00	0.000	0.018	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.00	0.000	0.018	0.1334	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.018	0.1324	0.0000	0.000	0.000	0.0000	0.000	0.000
307	0.00	0.000	0.017	0.1314	0.0000	0.000	0.000	0.0000	0.000	0.000
308	0.00	0.000	0.017	0.1305	0.0000	0.000	0.000	0.0000	0.000	0.000
309	0.00	0.000	0.017	0.1296	0.0000	0.000	0.000	0.0000	0.000	0.000
310	0.00	0.000	0.017	0.1286	0.0000	0.000	0.000	0.0000	0.000	0.000
311	0.00	0.000	0.016	0.1277	0.0000	0.000	0.000	0.0000	0.000	0.000
312	0.00	0.000	0.016	0.1268	0.0000	0.000	0.000	0.0000	0.000	0.000

313		0.03	0.000	0.021	0.1273	0.0000	0.000	0.000	0.0000	0.000	0.000
314		0.00	0.000	0.016	0.1265	0.0000	0.000	0.000	0.0000	0.000	0.000
315		0.00	0.000	0.016	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
316		0.00	0.000	0.015	0.1247	0.0000	0.000	0.000	0.0000	0.000	0.000
317		0.00	0.000	0.015	0.1239	0.0000	0.000	0.000	0.0000	0.000	0.000
318		0.00	0.000	0.012	0.1232	0.0000	0.000	0.000	0.0000	0.000	0.000
319		0.00	0.000	0.015	0.1224	0.0000	0.000	0.000	0.0000	0.000	0.000
320		0.00	0.000	0.015	0.1215	0.0000	0.000	0.000	0.0000	0.000	0.000
321		0.00	0.000	0.015	0.1204	0.0000	0.000	0.000	0.0000	0.000	0.000
322		0.00	0.000	0.014	0.1196	0.0000	0.000	0.000	0.0000	0.000	0.000
323		0.96	0.000	0.017	0.1717	0.0000	0.000	0.000	0.0000	0.000	0.000
324		0.00	0.000	0.014	0.1709	0.0000	0.000	0.000	0.0000	0.000	0.000
325		0.00	0.000	0.014	0.1701	0.0000	0.000	0.000	0.0000	0.000	0.000
326		0.00	0.000	0.014	0.1694	0.0000	0.000	0.000	0.0000	0.000	0.000
327		0.00	0.000	0.014	0.1686	0.0000	0.000	0.000	0.0000	0.000	0.000
328		0.00	0.000	0.014	0.1679	0.0000	0.000	0.000	0.0000	0.000	0.000
329		0.00	0.000	0.013	0.1671	0.0000	0.000	0.000	0.0000	0.000	0.000
330		0.00	0.000	0.013	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
331		0.00	0.000	0.013	0.1656	0.0000	0.000	0.000	0.0000	0.000	0.000
332		0.00	0.000	0.013	0.1649	0.0000	0.000	0.000	0.0000	0.000	0.000
333		0.00	0.000	0.013	0.1642	0.0000	0.000	0.000	0.0000	0.000	0.000
334		0.00	0.000	0.013	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
335		0.00	0.000	0.013	0.1627	0.0000	0.000	0.000	0.0000	0.000	0.000
336		0.00	0.000	0.013	0.1620	0.0000	0.000	0.000	0.0000	0.000	0.000
337		0.00	0.000	0.013	0.1613	0.0000	0.000	0.000	0.0000	0.000	0.000
338		0.00	0.000	0.012	0.1606	0.0000	0.000	0.000	0.0000	0.000	0.000
339		0.01	0.000	0.014	0.1604	0.0000	0.000	0.000	0.0000	0.000	0.000
340		0.00	0.000	0.012	0.1597	0.0000	0.000	0.000	0.0000	0.000	0.000
341		0.00	0.000	0.012	0.1590	0.0000	0.000	0.000	0.0000	0.000	0.000
342		0.06	0.000	0.014	0.1616	0.0000	0.000	0.000	0.0000	0.000	0.000
343		0.01	0.000	0.014	0.1614	0.0000	0.000	0.000	0.0000	0.000	0.000
344		0.04	0.000	0.014	0.1628	0.0000	0.000	0.000	0.0000	0.000	0.000
345		0.00	0.000	0.012	0.1622	0.0000	0.000	0.000	0.0000	0.000	0.000
346		0.00	0.000	0.012	0.1615	0.0000	0.000	0.000	0.0000	0.000	0.000
347	*	0.00	0.000	0.012	0.1608	0.0000	0.000	0.000	0.0000	0.000	0.000
348	*	0.07	0.000	0.056	0.1616	0.0000	0.000	0.000	0.0000	0.000	0.000
349		0.00	0.000	0.012	0.1610	0.0000	0.000	0.000	0.0000	0.000	0.000
350		0.00	0.000	0.012	0.1603	0.0000	0.000	0.000	0.0000	0.000	0.000
351		0.00	0.000	0.011	0.1597	0.0000	0.000	0.000	0.0000	0.000	0.000
352		0.00	0.000	0.011	0.1591	0.0000	0.000	0.000	0.0000	0.000	0.000
353		0.05	0.000	0.013	0.1611	0.0000	0.000	0.000	0.0000	0.000	0.000
354	*	0.02	0.000	0.031	0.1605	0.0000	0.000	0.000	0.0000	0.000	0.000
355	*	0.00	0.000	0.011	0.1599	0.0000	0.000	0.000	0.0000	0.000	0.000
356		0.12	0.000	0.013	0.1658	0.0000	0.000	0.000	0.0000	0.000	0.000
357		0.07	0.000	0.013	0.1690	0.0000	0.000	0.000	0.0000	0.000	0.000
358		0.02	0.000	0.013	0.1694	0.0000	0.000	0.000	0.0000	0.000	0.000
359		0.04	0.000	0.013	0.1709	0.0000	0.000	0.000	0.0000	0.000	0.000
360		0.04	0.000	0.013	0.1724	0.0000	0.000	0.000	0.0000	0.000	0.000
361		0.06	0.000	0.013	0.1751	0.0000	0.000	0.000	0.0000	0.000	0.000
362		0.01	0.000	0.012	0.1749	0.0000	0.000	0.000	0.0000	0.000	0.000
363		0.00	0.000	0.011	0.1743	0.0000	0.000	0.000	0.0000	0.000	0.000
364		0.00	0.000	0.011	0.1737	0.0000	0.000	0.000	0.0000	0.000	0.000
365		0.00	0.000	0.011	0.1732	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	0.17	0.02	0.59	0.30	0.02
	1.17	3.85	6.39	0.00	0.99	0.62

RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.302	0.242	0.171	0.042	0.141	0.149
	0.437	2.874	5.318	1.105	0.454	0.445
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.12	11978172.640	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	11.682	9909583.928	82.73
PERC./LEAKAGE THROUGH LAYER 4	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
DRAINAGE COLLECTED FROM LAYER 5	0.0006	467.479	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.001	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	2.438	2068121.411	17.27
SOIL WATER AT START OF YEAR	55.961	47472580.389	
SOIL WATER AT END OF YEAR	58.399	49540701.800	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.180	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

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DAILY OUTPUT FOR YEAR 2

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.010	0.1726	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.010	0.1720	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.010	0.1714	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.010	0.1708	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.010	0.1703	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.010	0.1697	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.010	0.1691	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.010	0.1686	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.010	0.1680	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.010	0.1675	0.0000	0.000	0.000	0.0000	0.000	0.000
11	*		0.92	0.000	0.056	0.1686	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.046	0.1809	0.0000	0.000	0.000	0.0000	0.000	0.000
13	*		0.00	0.000	0.058	0.1820	0.0000	0.000	0.000	0.0000	0.000	0.000
14	*		0.00	0.000	0.059	0.1831	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.066	0.1842	0.0000	0.000	0.000	0.0000	0.000	0.000
16			0.00	0.000	0.061	0.1981	0.0000	0.000	0.000	0.0000	0.000	0.000
17			0.00	0.000	0.122	0.1925	0.0000	0.000	0.000	0.0000	0.000	0.000
18			0.00	0.000	0.010	0.1919	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.00	0.000	0.010	0.1914	0.0000	0.000	0.000	0.0000	0.000	0.000
20			0.00	0.000	0.010	0.1909	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.00	0.000	0.010	0.1903	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.010	0.1898	0.0000	0.000	0.000	0.0000	0.000	0.000
23			0.00	0.000	0.010	0.1892	0.0000	0.000	0.000	0.0000	0.000	0.000
24			0.00	0.000	0.010	0.1887	0.0000	0.000	0.000	0.0000	0.000	0.000
25			0.00	0.000	0.010	0.1882	0.0000	0.000	0.000	0.0000	0.000	0.000
26			0.00	0.000	0.010	0.1876	0.0000	0.000	0.000	0.0000	0.000	0.000
27			0.00	0.000	0.010	0.1871	0.0000	0.000	0.000	0.0000	0.000	0.000
28			0.00	0.000	0.010	0.1866	0.0000	0.000	0.000	0.0000	0.000	0.000
29			0.00	0.000	0.009	0.1860	0.0000	0.000	0.000	0.0000	0.000	0.000
30			0.00	0.000	0.009	0.1855	0.0000	0.000	0.000	0.0000	0.000	0.000
31			0.00	0.000	0.009	0.1850	0.0000	0.000	0.000	0.0000	0.000	0.000
32			0.00	0.000	0.009	0.1845	0.0000	0.000	0.000	0.0000	0.000	0.000
33			0.00	0.000	0.009	0.1840	0.0000	0.000	0.000	0.0000	0.000	0.000
34			0.00	0.000	0.009	0.1834	0.0000	0.000	0.000	0.0000	0.000	0.000
35			0.00	0.000	0.009	0.1829	0.0000	0.000	0.000	0.0000	0.000	0.000
36			0.00	0.000	0.009	0.1824	0.0000	0.000	0.000	0.0000	0.000	0.000
37			0.00	0.000	0.009	0.1819	0.0000	0.000	0.000	0.0000	0.000	0.000
38			0.00	0.000	0.009	0.1814	0.0000	0.000	0.000	0.0000	0.000	0.000
39			0.00	0.000	0.009	0.1809	0.0000	0.000	0.000	0.0000	0.000	0.000
40			0.00	0.000	0.009	0.1804	0.0000	0.000	0.000	0.0000	0.000	0.000
41			0.00	0.000	0.009	0.1799	0.0000	0.000	0.000	0.0000	0.000	0.000
42			0.00	0.000	0.009	0.1794	0.0000	0.000	0.000	0.0000	0.000	0.000

43	0.00	0.000	0.009	0.1789	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.00	0.000	0.009	0.1784	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.00	0.000	0.009	0.1779	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.00	0.000	0.009	0.1774	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.009	0.1769	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.13	0.000	0.010	0.1836	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.01	0.000	0.010	0.1836	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.009	0.1831	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.009	0.1827	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.009	0.1822	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.009	0.1817	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.009	0.1812	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.19	0.000	0.010	0.1913	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.12	0.000	0.010	0.1974	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.162	0.1884	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.008	0.1879	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.008	0.1875	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.008	0.1870	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.008	0.1865	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.008	0.1861	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.008	0.1856	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.12	0.000	0.009	0.1918	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.09	0.000	0.009	0.1963	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.230	0.1835	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.07	0.000	0.009	0.1868	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.008	0.1864	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.008	0.1859	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.008	0.1855	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.008	0.1850	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.008	0.1846	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.008	0.1841	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.008	0.1837	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.008	0.1832	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.02	0.000	0.009	0.1839	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.008	0.1834	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.008	0.1830	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.008	0.1825	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.008	0.1821	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.008	0.1816	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.008	0.1812	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.008	0.1808	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.008	0.1803	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.008	0.1799	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.008	0.1795	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.008	0.1791	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.008	0.1786	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.008	0.1782	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.008	0.1778	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.008	0.1773	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.008	0.1769	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.008	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.008	0.1761	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.008	0.1757	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.008	0.1752	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.008	0.1748	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.007	0.1744	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.007	0.1740	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.007	0.1736	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.007	0.1732	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.007	0.1728	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.007	0.1723	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.007	0.1719	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.007	0.1715	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.007	0.1711	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.007	0.1707	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.007	0.1703	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.007	0.1699	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.007	0.1695	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.007	0.1691	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.007	0.1687	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.007	0.1683	0.0000	0.000	0.000	0.0000	0.000	0.000

114	0.00	0.000	0.007	0.1679	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.007	0.1675	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.007	0.1671	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.007	0.1667	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.007	0.1663	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.007	0.1659	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.007	0.1655	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.007	0.1651	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.007	0.1647	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.007	0.1643	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.007	0.1639	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.007	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.007	0.1632	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.007	0.1628	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.007	0.1624	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.007	0.1620	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.007	0.1616	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.007	0.1612	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.007	0.1609	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.007	0.1605	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.007	0.1601	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.007	0.1597	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.007	0.1593	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.007	0.1590	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.007	0.1586	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.007	0.1582	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.006	0.1579	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.007	0.1575	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.007	0.1571	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.13	0.000	0.009	0.1638	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.007	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.007	0.1631	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.007	0.1627	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.007	0.1624	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.007	0.1620	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.007	0.1616	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.007	0.1612	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.007	0.1609	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.007	0.1605	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.007	0.1602	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.12	0.000	0.009	0.1663	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.15	0.000	0.009	0.1741	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.007	0.1738	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.006	0.1734	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.006	0.1730	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.006	0.1727	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.006	0.1723	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.006	0.1720	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.006	0.1716	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.006	0.1713	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.006	0.1709	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.18	0.000	0.009	0.1804	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.05	0.000	0.009	0.1826	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.006	0.1823	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.006	0.1819	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.006	0.1816	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.006	0.1812	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.006	0.1809	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.006	0.1805	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.006	0.1802	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.19	0.000	0.009	0.1902	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.006	0.1899	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.006	0.1895	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.006	0.1892	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.006	0.1888	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.006	0.1885	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.13	0.000	0.009	0.1952	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.55	0.000	0.009	0.2252	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.03	0.000	0.317	0.2093	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.371	0.1886	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.201	0.1775	0.0000	0.000	0.000	0.0000	0.000	0.000

185	0.00	0.000	0.083	0.1729	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.01	0.000	0.067	0.1697	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.40	0.000	0.057	0.1887	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.047	0.1861	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.043	0.1837	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.039	0.1815	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.037	0.1795	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.034	0.1776	0.0000	0.000	0.000	0.0000	0.000	0.000
193	1.20	0.000	0.036	0.2423	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.358	0.2224	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.00	0.000	0.322	0.2045	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.337	0.1858	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.201	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.083	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.064	0.1665	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.054	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.00	0.000	0.047	0.1608	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.043	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.039	0.1563	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.037	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.034	0.1523	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.00	0.000	0.033	0.1505	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.031	0.1488	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.01	0.000	0.033	0.1475	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.028	0.1460	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.05	0.000	0.031	0.1470	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.50	0.000	0.030	0.1731	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.025	0.1717	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.025	0.1703	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.024	0.1690	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.023	0.1677	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.023	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.022	0.1652	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.022	0.1640	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.021	0.1628	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.021	0.1617	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.020	0.1606	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.11	0.000	0.024	0.1653	0.0000	0.000	0.000	0.0000	0.000	0.000
223	1.64	0.000	0.024	0.2551	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.282	0.2395	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.18	0.000	0.199	0.2384	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.34	0.000	0.314	0.2399	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.34	0.000	0.290	0.2427	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.316	0.2251	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.310	0.2079	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.252	0.1939	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.201	0.1828	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.083	0.1781	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.064	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.00	0.000	0.054	0.1716	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.047	0.1690	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.00	0.000	0.043	0.1666	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.039	0.1644	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.037	0.1624	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.034	0.1605	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.78	0.000	0.037	0.2017	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.261	0.1872	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.031	0.1855	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.00	0.000	0.030	0.1839	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.028	0.1823	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.027	0.1808	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.026	0.1793	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.025	0.1778	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.025	0.1763	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.024	0.1750	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.023	0.1737	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.12	0.000	0.028	0.1789	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.022	0.1776	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.022	0.1764	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.02	0.000	0.026	0.1761	0.0000	0.000	0.000	0.0000	0.000	0.000
255	2.57	0.000	0.026	0.3174	0.0000	0.000	0.000	0.0000	0.000	0.000

256	0.00	0.000	0.282	0.2793	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.00	0.000	0.278	0.2559	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.219	0.2389	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.215	0.2242	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.214	0.2103	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.241	0.1944	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.201	0.1813	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.083	0.1745	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.064	0.1692	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.054	0.1649	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.047	0.1611	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.043	0.1578	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.00	0.000	0.039	0.1546	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.037	0.1518	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.034	0.1492	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.033	0.1468	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.031	0.1446	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.030	0.1426	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.028	0.1407	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.027	0.1388	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.026	0.1372	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.025	0.1358	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.025	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.23	0.000	0.029	0.1455	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.023	0.1442	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.023	0.1430	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.022	0.1418	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.022	0.1405	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.021	0.1394	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.34	0.000	0.025	0.1569	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.020	0.1558	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.020	0.1547	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.019	0.1536	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.019	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.019	0.1515	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.018	0.1504	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.018	0.1494	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.018	0.1484	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.00	0.000	0.018	0.1475	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.017	0.1465	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.017	0.1456	0.0000	0.000	0.000	0.0000	0.000	0.000
297	0.00	0.000	0.017	0.1446	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.017	0.1437	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.016	0.1428	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.016	0.1419	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.016	0.1410	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.016	0.1401	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.00	0.000	0.016	0.1393	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.03	0.000	0.021	0.1398	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.00	0.000	0.015	0.1389	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.015	0.1381	0.0000	0.000	0.000	0.0000	0.000	0.000
307	0.00	0.000	0.015	0.1372	0.0000	0.000	0.000	0.0000	0.000	0.000
308	0.00	0.000	0.015	0.1364	0.0000	0.000	0.000	0.0000	0.000	0.000
309	0.00	0.000	0.015	0.1356	0.0000	0.000	0.000	0.0000	0.000	0.000
310	0.00	0.000	0.014	0.1348	0.0000	0.000	0.000	0.0000	0.000	0.000
311	0.00	0.000	0.014	0.1340	0.0000	0.000	0.000	0.0000	0.000	0.000
312	0.00	0.000	0.014	0.1332	0.0000	0.000	0.000	0.0000	0.000	0.000
313	0.00	0.000	0.014	0.1325	0.0000	0.000	0.000	0.0000	0.000	0.000
314	0.00	0.000	0.014	0.1317	0.0000	0.000	0.000	0.0000	0.000	0.000
315	0.00	0.000	0.014	0.1309	0.0000	0.000	0.000	0.0000	0.000	0.000
316	0.00	0.000	0.014	0.1302	0.0000	0.000	0.000	0.0000	0.000	0.000
317	0.00	0.000	0.013	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
318	0.00	0.000	0.013	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
319	0.00	0.000	0.013	0.1280	0.0000	0.000	0.000	0.0000	0.000	0.000
320	0.00	0.000	0.013	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
321	0.00	0.000	0.013	0.1265	0.0000	0.000	0.000	0.0000	0.000	0.000
322	0.00	0.000	0.013	0.1258	0.0000	0.000	0.000	0.0000	0.000	0.000
323	0.00	0.000	0.013	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
324	0.00	0.000	0.013	0.1244	0.0000	0.000	0.000	0.0000	0.000	0.000
325	0.00	0.000	0.012	0.1237	0.0000	0.000	0.000	0.0000	0.000	0.000
326	0.00	0.000	0.012	0.1230	0.0000	0.000	0.000	0.0000	0.000	0.000

327		0.00	0.000	0.012	0.1223	0.0000	0.000	0.000	0.0000	0.000	0.000
328		0.00	0.000	0.012	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
329		0.00	0.000	0.012	0.1209	0.0000	0.000	0.000	0.0000	0.000	0.000
330		0.00	0.000	0.012	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
331		0.00	0.000	0.012	0.1196	0.0000	0.000	0.000	0.0000	0.000	0.000
332		0.00	0.000	0.012	0.1189	0.0000	0.000	0.000	0.0000	0.000	0.000
333		0.00	0.000	0.012	0.1183	0.0000	0.000	0.000	0.0000	0.000	0.000
334		0.00	0.000	0.010	0.1177	0.0000	0.000	0.000	0.0000	0.000	0.000
335		0.00	0.000	0.011	0.1169	0.0000	0.000	0.000	0.0000	0.000	0.000
336		0.00	0.000	0.012	0.1162	0.0000	0.000	0.000	0.0000	0.000	0.000
337		0.00	0.000	0.012	0.1156	0.0000	0.000	0.000	0.0000	0.000	0.000
338		0.00	0.000	0.011	0.1149	0.0000	0.000	0.000	0.0000	0.000	0.000
339		0.00	0.000	0.011	0.1143	0.0000	0.000	0.000	0.0000	0.000	0.000
340		0.00	0.000	0.011	0.1137	0.0000	0.000	0.000	0.0000	0.000	0.000
341		0.00	0.000	0.011	0.1131	0.0000	0.000	0.000	0.0000	0.000	0.000
342		0.00	0.000	0.011	0.1124	0.0000	0.000	0.000	0.0000	0.000	0.000
343		0.00	0.000	0.011	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
344	*	0.00	0.000	0.011	0.1112	0.0000	0.000	0.000	0.0000	0.000	0.000
345		0.04	0.000	0.013	0.1127	0.0000	0.000	0.000	0.0000	0.000	0.000
346	*	0.08	0.000	0.067	0.1134	0.0000	0.000	0.000	0.0000	0.000	0.000
347		0.00	0.000	0.011	0.1128	0.0000	0.000	0.000	0.0000	0.000	0.000
348		0.00	0.000	0.011	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
349		0.00	0.000	0.011	0.1116	0.0000	0.000	0.000	0.0000	0.000	0.000
350		0.00	0.000	0.011	0.1110	0.0000	0.000	0.000	0.0000	0.000	0.000
351		0.00	0.000	0.011	0.1104	0.0000	0.000	0.000	0.0000	0.000	0.000
352		0.00	0.000	0.011	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
353	*	0.00	0.000	0.011	0.1090	0.0000	0.000	0.000	0.0000	0.000	0.000
354		0.00	0.000	0.010	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
355		0.00	0.000	0.010	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
356		0.00	0.000	0.010	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
357		0.00	0.000	0.010	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
358		0.00	0.000	0.010	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
359		0.00	0.000	0.003	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
360		0.00	0.000	0.002	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
361	*	0.00	0.000	0.002	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
362	*	0.00	0.000	0.002	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
363		0.00	0.000	0.002	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
364		0.00	0.000	0.002	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
365		0.00	0.000	0.002	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.92	0.45	0.30	0.00	0.13	1.37
	2.20	3.39	2.71	0.60	0.00	0.12
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.707	0.405	0.475	0.220	0.213	0.212
	3.163	3.171	2.447	0.636	0.397	0.333
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.19	10340929.495	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	12.378	10500562.783	101.54
PERC./LEAKAGE THROUGH LAYER 4	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	-0.188	-159633.132	-1.54
SOIL WATER AT START OF YEAR	58.399	49540701.800	
SOIL WATER AT END OF YEAR	58.211	49381068.668	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.155	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

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DAILY OUTPUT FOR YEAR 3

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.17	0.000	0.004	0.1139	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.004	0.1137	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.004	0.1135	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.004	0.1132	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.004	0.1130	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.005	0.1127	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.005	0.1124	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.006	0.1121	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.006	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.006	0.1115	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.006	0.1111	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.006	0.1108	0.0000	0.000	0.000	0.0000	0.000	0.000
13			0.00	0.000	0.006	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
14			0.00	0.000	0.006	0.1101	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.006	0.1098	0.0000	0.000	0.000	0.0000	0.000	0.000
16			0.16	0.000	0.008	0.1182	0.0000	0.000	0.000	0.0000	0.000	0.000
17			0.00	0.000	0.004	0.1180	0.0000	0.000	0.000	0.0000	0.000	0.000
18			0.89	0.000	0.006	0.1671	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.49	0.000	0.008	0.1938	0.0000	0.000	0.000	0.0000	0.000	0.000
20			0.09	0.000	0.010	0.1983	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.27	0.000	0.010	0.2128	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.132	0.2054	0.0000	0.000	0.000	0.0000	0.000	0.000
23			0.00	0.000	0.115	0.1990	0.0000	0.000	0.000	0.0000	0.000	0.000
24			0.00	0.000	0.132	0.1917	0.0000	0.000	0.000	0.0000	0.000	0.000
25			0.00	0.000	0.076	0.1875	0.0000	0.000	0.000	0.0000	0.000	0.000
26			0.04	0.000	0.060	0.1864	0.0000	0.000	0.000	0.0000	0.000	0.000
27			0.00	0.000	0.052	0.1835	0.0000	0.000	0.000	0.0000	0.000	0.000
28			0.00	0.000	0.046	0.1809	0.0000	0.000	0.000	0.0000	0.000	0.000
29			0.00	0.000	0.041	0.1786	0.0000	0.000	0.000	0.0000	0.000	0.000
30			0.00	0.000	0.038	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
31			0.00	0.000	0.035	0.1745	0.0000	0.000	0.000	0.0000	0.000	0.000
32			0.00	0.000	0.033	0.1727	0.0000	0.000	0.000	0.0000	0.000	0.000
33			0.00	0.000	0.032	0.1709	0.0000	0.000	0.000	0.0000	0.000	0.000
34			0.00	0.000	0.030	0.1693	0.0000	0.000	0.000	0.0000	0.000	0.000
35			0.00	0.000	0.029	0.1677	0.0000	0.000	0.000	0.0000	0.000	0.000
36			0.00	0.000	0.027	0.1662	0.0000	0.000	0.000	0.0000	0.000	0.000
37			0.00	0.000	0.026	0.1647	0.0000	0.000	0.000	0.0000	0.000	0.000
38			0.00	0.000	0.026	0.1633	0.0000	0.000	0.000	0.0000	0.000	0.000
39			0.00	0.000	0.025	0.1619	0.0000	0.000	0.000	0.0000	0.000	0.000
40			0.00	0.000	0.024	0.1606	0.0000	0.000	0.000	0.0000	0.000	0.000
41			0.00	0.000	0.023	0.1593	0.0000	0.000	0.000	0.0000	0.000	0.000
42			0.00	0.000	0.023	0.1581	0.0000	0.000	0.000	0.0000	0.000	0.000
43			0.00	0.000	0.022	0.1568	0.0000	0.000	0.000	0.0000	0.000	0.000
44			0.00	0.000	0.021	0.1556	0.0000	0.000	0.000	0.0000	0.000	0.000
45			0.00	0.000	0.021	0.1545	0.0000	0.000	0.000	0.0000	0.000	0.000
46			0.00	0.000	0.020	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
47			0.00	0.000	0.020	0.1522	0.0000	0.000	0.000	0.0000	0.000	0.000
48			0.00	0.000	0.020	0.1511	0.0000	0.000	0.000	0.0000	0.000	0.000
49			0.00	0.000	0.019	0.1501	0.0000	0.000	0.000	0.0000	0.000	0.000
50			0.00	0.000	0.019	0.1490	0.0000	0.000	0.000	0.0000	0.000	0.000
51			0.00	0.000	0.019	0.1480	0.0000	0.000	0.000	0.0000	0.000	0.000
52			0.00	0.000	0.018	0.1470	0.0000	0.000	0.000	0.0000	0.000	0.000
53			0.19	0.000	0.020	0.1564	0.0000	0.000	0.000	0.0000	0.000	0.000
54			0.00	0.000	0.018	0.1554	0.0000	0.000	0.000	0.0000	0.000	0.000
55			0.00	0.000	0.017	0.1545	0.0000	0.000	0.000	0.0000	0.000	0.000
56			0.00	0.000	0.017	0.1535	0.0000	0.000	0.000	0.0000	0.000	0.000

57	0.00	0.000	0.017	0.1526	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.017	0.1516	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.08	0.000	0.019	0.1550	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.02	0.000	0.019	0.1551	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.016	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.016	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.015	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.015	0.1516	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.016	0.1507	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.015	0.1499	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.015	0.1490	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.015	0.1482	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.015	0.1474	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.015	0.1466	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.015	0.1458	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.014	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.014	0.1442	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.014	0.1434	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.014	0.1426	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.014	0.1418	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.014	0.1411	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.014	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.013	0.1396	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.013	0.1388	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.013	0.1381	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.013	0.1374	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.013	0.1366	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.012	0.1360	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.013	0.1352	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.013	0.1345	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.013	0.1338	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.012	0.1331	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.012	0.1325	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.012	0.1318	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.012	0.1311	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.012	0.1305	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.012	0.1298	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.012	0.1292	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.011	0.1285	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.011	0.1279	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.011	0.1273	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.011	0.1266	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.011	0.1260	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.011	0.1254	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.011	0.1248	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.011	0.1241	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.011	0.1235	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.011	0.1229	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.011	0.1223	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.011	0.1217	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.011	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.011	0.1205	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.011	0.1198	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.011	0.1192	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.011	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.011	0.1181	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.011	0.1175	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.011	0.1169	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.010	0.1163	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.010	0.1157	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.010	0.1151	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.010	0.1146	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.010	0.1140	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.010	0.1134	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.010	0.1129	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.010	0.1123	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.24	0.000	0.014	0.1249	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.010	0.1243	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.010	0.1238	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.010	0.1232	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.010	0.1227	0.0000	0.000	0.000	0.0000	0.000	0.000

128	0.00	0.000	0.010	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.010	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.010	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.14	0.000	0.013	0.1281	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.09	0.000	0.013	0.1324	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.010	0.1318	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.010	0.1313	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.010	0.1308	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.009	0.1302	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.009	0.1297	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.009	0.1292	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.009	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.009	0.1282	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.009	0.1276	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.009	0.1271	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.009	0.1266	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.009	0.1261	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.009	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.009	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.009	0.1246	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.009	0.1241	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.009	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.009	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.009	0.1226	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.009	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.009	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.00	0.000	0.009	0.1212	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.009	0.1207	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.009	0.1202	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.009	0.1197	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.17	0.000	0.013	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.009	0.1280	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.009	0.1275	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.39	0.000	0.013	0.1484	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.21	0.000	0.012	0.1594	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.008	0.1590	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.008	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.008	0.1580	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.008	0.1575	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.008	0.1571	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.008	0.1566	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.008	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.008	0.1557	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.007	0.1553	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.33	0.000	0.011	0.1730	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.007	0.1726	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.007	0.1722	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.007	0.1718	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.007	0.1715	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.02	0.000	0.011	0.1719	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.007	0.1716	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.007	0.1712	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.007	0.1708	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.007	0.1704	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.007	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.007	0.1696	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.007	0.1692	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.007	0.1688	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.007	0.1684	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.007	0.1680	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.007	0.1676	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.007	0.1672	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.007	0.1668	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.007	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.007	0.1660	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.17	0.000	0.012	0.1748	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.007	0.1744	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.00	0.000	0.007	0.1740	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.007	0.1736	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.007	0.1732	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.007	0.1728	0.0000	0.000	0.000	0.0000	0.000	0.000

199	0.00	0.000	0.007	0.1724	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.007	0.1720	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.00	0.000	0.007	0.1716	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.007	0.1712	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.007	0.1708	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.007	0.1704	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.007	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.00	0.000	0.007	0.1696	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.02	0.000	0.012	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.00	0.000	0.007	0.1697	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.007	0.1693	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.007	0.1689	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.007	0.1685	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.007	0.1682	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.007	0.1678	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.52	0.000	0.012	0.1960	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.007	0.1956	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.007	0.1953	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.007	0.1949	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.007	0.1945	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.007	0.1941	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.007	0.1938	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.03	0.000	0.012	0.1948	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.27	0.000	0.012	0.2091	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.282	0.1934	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.007	0.1931	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.00	0.000	0.007	0.1927	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.00	0.000	0.007	0.1923	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.007	0.1919	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.007	0.1915	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.007	0.1911	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.007	0.1907	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.35	0.000	0.013	0.2094	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.304	0.1926	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.007	0.1922	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.00	0.000	0.007	0.1918	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.007	0.1914	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.68	0.000	0.013	0.2285	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.05	0.000	0.286	0.2154	0.0000	0.000	0.000	0.0000	0.000	0.000
238	1.86	0.000	0.220	0.3065	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.08	0.000	0.165	0.2968	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.49	0.000	0.272	0.2977	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.271	0.2760	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.235	0.2569	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.00	0.000	0.268	0.2395	0.0000	0.000	0.000	0.0000	0.000	0.000
244	2.84	0.000	0.229	0.3804	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.74	0.000	0.180	0.3092	0.0000	0.000	0.000	0.0000	0.000	0.000
246	2.29	0.000	0.166	0.3571	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.250	0.2869	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.247	0.2641	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.270	0.2447	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.284	0.2256	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.272	0.2077	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.195	0.1938	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.083	0.1866	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.064	0.1811	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.054	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.047	0.1724	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.30	0.000	0.049	0.1850	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.039	0.1817	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.037	0.1788	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.034	0.1760	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.033	0.1733	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.031	0.1708	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.030	0.1685	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.028	0.1665	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.027	0.1645	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.026	0.1627	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.025	0.1609	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.00	0.000	0.025	0.1594	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.024	0.1580	0.0000	0.000	0.000	0.0000	0.000	0.000

270		0.00	0.000	0.023	0.1567	0.0000	0.000	0.000	0.0000	0.000	0.000
271		0.00	0.000	0.023	0.1555	0.0000	0.000	0.000	0.0000	0.000	0.000
272		0.00	0.000	0.019	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
273		0.00	0.000	0.020	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
274		0.07	0.000	0.027	0.1556	0.0000	0.000	0.000	0.0000	0.000	0.000
275		0.17	0.000	0.027	0.1636	0.0000	0.000	0.000	0.0000	0.000	0.000
276		0.17	0.000	0.026	0.1716	0.0000	0.000	0.000	0.0000	0.000	0.000
277		0.04	0.000	0.026	0.1724	0.0000	0.000	0.000	0.0000	0.000	0.000
278		0.00	0.000	0.019	0.1713	0.0000	0.000	0.000	0.0000	0.000	0.000
279		0.00	0.000	0.019	0.1702	0.0000	0.000	0.000	0.0000	0.000	0.000
280		0.00	0.000	0.019	0.1692	0.0000	0.000	0.000	0.0000	0.000	0.000
281		0.00	0.000	0.018	0.1681	0.0000	0.000	0.000	0.0000	0.000	0.000
282		0.00	0.000	0.018	0.1671	0.0000	0.000	0.000	0.0000	0.000	0.000
283		0.00	0.000	0.018	0.1661	0.0000	0.000	0.000	0.0000	0.000	0.000
284		0.00	0.000	0.018	0.1652	0.0000	0.000	0.000	0.0000	0.000	0.000
285		0.00	0.000	0.017	0.1642	0.0000	0.000	0.000	0.0000	0.000	0.000
286		0.00	0.000	0.017	0.1632	0.0000	0.000	0.000	0.0000	0.000	0.000
287		0.00	0.000	0.017	0.1623	0.0000	0.000	0.000	0.0000	0.000	0.000
288		0.00	0.000	0.017	0.1614	0.0000	0.000	0.000	0.0000	0.000	0.000
289		0.00	0.000	0.016	0.1605	0.0000	0.000	0.000	0.0000	0.000	0.000
290		0.00	0.000	0.016	0.1596	0.0000	0.000	0.000	0.0000	0.000	0.000
291		0.00	0.000	0.016	0.1587	0.0000	0.000	0.000	0.0000	0.000	0.000
292		0.00	0.000	0.016	0.1578	0.0000	0.000	0.000	0.0000	0.000	0.000
293		0.00	0.000	0.016	0.1570	0.0000	0.000	0.000	0.0000	0.000	0.000
294		0.00	0.000	0.015	0.1561	0.0000	0.000	0.000	0.0000	0.000	0.000
295		0.00	0.000	0.015	0.1553	0.0000	0.000	0.000	0.0000	0.000	0.000
296		0.00	0.000	0.015	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
297		0.00	0.000	0.015	0.1536	0.0000	0.000	0.000	0.0000	0.000	0.000
298		0.00	0.000	0.015	0.1528	0.0000	0.000	0.000	0.0000	0.000	0.000
299		0.00	0.000	0.015	0.1520	0.0000	0.000	0.000	0.0000	0.000	0.000
300		0.00	0.000	0.014	0.1512	0.0000	0.000	0.000	0.0000	0.000	0.000
301		0.00	0.000	0.014	0.1504	0.0000	0.000	0.000	0.0000	0.000	0.000
302		0.00	0.000	0.014	0.1496	0.0000	0.000	0.000	0.0000	0.000	0.000
303		0.00	0.000	0.014	0.1488	0.0000	0.000	0.000	0.0000	0.000	0.000
304		0.00	0.000	0.014	0.1480	0.0000	0.000	0.000	0.0000	0.000	0.000
305		0.00	0.000	0.014	0.1473	0.0000	0.000	0.000	0.0000	0.000	0.000
306		0.00	0.000	0.014	0.1465	0.0000	0.000	0.000	0.0000	0.000	0.000
307		0.00	0.000	0.013	0.1458	0.0000	0.000	0.000	0.0000	0.000	0.000
308		0.00	0.000	0.013	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000
309		0.00	0.000	0.013	0.1443	0.0000	0.000	0.000	0.0000	0.000	0.000
310		0.00	0.000	0.013	0.1436	0.0000	0.000	0.000	0.0000	0.000	0.000
311		0.00	0.000	0.011	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
312		0.00	0.000	0.013	0.1422	0.0000	0.000	0.000	0.0000	0.000	0.000
313		0.00	0.000	0.013	0.1415	0.0000	0.000	0.000	0.0000	0.000	0.000
314		0.00	0.000	0.013	0.1408	0.0000	0.000	0.000	0.0000	0.000	0.000
315		0.00	0.000	0.013	0.1401	0.0000	0.000	0.000	0.0000	0.000	0.000
316		0.00	0.000	0.012	0.1394	0.0000	0.000	0.000	0.0000	0.000	0.000
317		0.00	0.000	0.012	0.1387	0.0000	0.000	0.000	0.0000	0.000	0.000
318		0.00	0.000	0.012	0.1380	0.0000	0.000	0.000	0.0000	0.000	0.000
319		0.33	0.000	0.016	0.1555	0.0000	0.000	0.000	0.0000	0.000	0.000
320		0.00	0.000	0.012	0.1548	0.0000	0.000	0.000	0.0000	0.000	0.000
321		0.00	0.000	0.012	0.1541	0.0000	0.000	0.000	0.0000	0.000	0.000
322		0.20	0.000	0.016	0.1644	0.0000	0.000	0.000	0.0000	0.000	0.000
323		0.00	0.000	0.012	0.1637	0.0000	0.000	0.000	0.0000	0.000	0.000
324		0.00	0.000	0.012	0.1631	0.0000	0.000	0.000	0.0000	0.000	0.000
325		0.11	0.000	0.015	0.1683	0.0000	0.000	0.000	0.0000	0.000	0.000
326		0.00	0.000	0.011	0.1677	0.0000	0.000	0.000	0.0000	0.000	0.000
327		0.00	0.000	0.012	0.1671	0.0000	0.000	0.000	0.0000	0.000	0.000
328		0.00	0.000	0.011	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
329		0.00	0.000	0.011	0.1658	0.0000	0.000	0.000	0.0000	0.000	0.000
330		0.00	0.000	0.011	0.1652	0.0000	0.000	0.000	0.0000	0.000	0.000
331		0.00	0.000	0.011	0.1645	0.0000	0.000	0.000	0.0000	0.000	0.000
332		0.00	0.000	0.011	0.1639	0.0000	0.000	0.000	0.0000	0.000	0.000
333		0.00	0.000	0.011	0.1633	0.0000	0.000	0.000	0.0000	0.000	0.000
334		0.00	0.000	0.011	0.1627	0.0000	0.000	0.000	0.0000	0.000	0.000
335		0.00	0.000	0.011	0.1621	0.0000	0.000	0.000	0.0000	0.000	0.000
336		0.00	0.000	0.011	0.1615	0.0000	0.000	0.000	0.0000	0.000	0.000
337		0.00	0.000	0.011	0.1609	0.0000	0.000	0.000	0.0000	0.000	0.000
338		0.00	0.000	0.011	0.1603	0.0000	0.000	0.000	0.0000	0.000	0.000
339		0.00	0.000	0.011	0.1597	0.0000	0.000	0.000	0.0000	0.000	0.000
340	*	0.00	0.000	0.011	0.1591	0.0000	0.000	0.000	0.0000	0.000	0.000

341	*	0.00	0.000	0.011	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
342		0.00	0.000	0.011	0.1579	0.0000	0.000	0.000	0.0000	0.000	0.000
343	*	0.00	0.000	0.010	0.1573	0.0000	0.000	0.000	0.0000	0.000	0.000
344		0.00	0.000	0.010	0.1567	0.0000	0.000	0.000	0.0000	0.000	0.000
345		0.00	0.000	0.010	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
346		0.00	0.000	0.010	0.1556	0.0000	0.000	0.000	0.0000	0.000	0.000
347		0.00	0.000	0.010	0.1550	0.0000	0.000	0.000	0.0000	0.000	0.000
348		0.00	0.000	0.010	0.1545	0.0000	0.000	0.000	0.0000	0.000	0.000
349		0.00	0.000	0.010	0.1539	0.0000	0.000	0.000	0.0000	0.000	0.000
350		0.00	0.000	0.010	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
351		0.00	0.000	0.010	0.1528	0.0000	0.000	0.000	0.0000	0.000	0.000
352		0.00	0.000	0.010	0.1522	0.0000	0.000	0.000	0.0000	0.000	0.000
353		0.00	0.000	0.010	0.1517	0.0000	0.000	0.000	0.0000	0.000	0.000
354		0.00	0.000	0.010	0.1511	0.0000	0.000	0.000	0.0000	0.000	0.000
355		0.01	0.000	0.012	0.1510	0.0000	0.000	0.000	0.0000	0.000	0.000
356		0.00	0.000	0.010	0.1504	0.0000	0.000	0.000	0.0000	0.000	0.000
357		0.00	0.000	0.010	0.1498	0.0000	0.000	0.000	0.0000	0.000	0.000
358		0.00	0.000	0.010	0.1493	0.0000	0.000	0.000	0.0000	0.000	0.000
359		0.00	0.000	0.010	0.1487	0.0000	0.000	0.000	0.0000	0.000	0.000
360		0.00	0.000	0.010	0.1482	0.0000	0.000	0.000	0.0000	0.000	0.000
361		0.05	0.000	0.012	0.1503	0.0000	0.000	0.000	0.0000	0.000	0.000
362		0.00	0.000	0.010	0.1498	0.0000	0.000	0.000	0.0000	0.000	0.000
363		0.17	0.000	0.012	0.1586	0.0000	0.000	0.000	0.0000	0.000	0.000
364		0.04	0.000	0.012	0.1601	0.0000	0.000	0.000	0.0000	0.000	0.000
365		0.17	0.000	0.012	0.1689	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.11	0.27	0.02	0.00	0.47	1.12
	0.19	4.33	6.17	0.45	0.64	0.44
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.853	0.621	0.438	0.330	0.305	0.260
	0.230	2.482	2.835	0.544	0.376	0.326
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000

TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.21	13751145.785	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	9.601	8144532.159	59.23
PERC./LEAKAGE THROUGH LAYER 4	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	6.609	5606613.833	40.77
SOIL WATER AT START OF YEAR	58.211	49381068.668	
SOIL WATER AT END OF YEAR	64.820	54987682.501	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.207	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

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DAILY OUTPUT FOR YEAR 4

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
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1		0.20	0.000	0.012	0.1794	0.0000	0.000	0.000	0.0000	0.000	0.000
2		0.00	0.000	0.009	0.1788	0.0000	0.000	0.000	0.0000	0.000	0.000
3		0.00	0.000	0.009	0.1783	0.0000	0.000	0.000	0.0000	0.000	0.000
4		0.00	0.000	0.009	0.1778	0.0000	0.000	0.000	0.0000	0.000	0.000
5		0.00	0.000	0.009	0.1773	0.0000	0.000	0.000	0.0000	0.000	0.000
6		0.00	0.000	0.009	0.1767	0.0000	0.000	0.000	0.0000	0.000	0.000
7		0.00	0.000	0.009	0.1762	0.0000	0.000	0.000	0.0000	0.000	0.000
8		0.09	0.000	0.011	0.1806	0.0000	0.000	0.000	0.0000	0.000	0.000
9		0.06	0.000	0.011	0.1833	0.0000	0.000	0.000	0.0000	0.000	0.000
10		0.61	0.000	0.011	0.2166	0.0000	0.000	0.000	0.0000	0.000	0.000
11		0.19	0.000	0.112	0.2209	0.0000	0.000	0.000	0.0000	0.000	0.000
12		0.05	0.000	0.105	0.2178	0.0000	0.000	0.000	0.0000	0.000	0.000
13		0.00	0.000	0.105	0.2120	0.0000	0.000	0.000	0.0000	0.000	0.000
14		0.00	0.000	0.115	0.2056	0.0000	0.000	0.000	0.0000	0.000	0.000
15		0.00	0.000	0.108	0.1996	0.0000	0.000	0.000	0.0000	0.000	0.000
16		0.00	0.000	0.099	0.1941	0.0000	0.000	0.000	0.0000	0.000	0.000
17		0.00	0.000	0.096	0.1888	0.0000	0.000	0.000	0.0000	0.000	0.000
18	*	0.00	0.000	0.086	0.1840	0.0000	0.000	0.000	0.0000	0.000	0.000
19		0.10	0.000	0.085	0.1848	0.0000	0.000	0.000	0.0000	0.000	0.000
20		0.43	0.000	0.066	0.2051	0.0000	0.000	0.000	0.0000	0.000	0.000
21		0.00	0.000	0.115	0.1987	0.0000	0.000	0.000	0.0000	0.000	0.000
22		0.00	0.000	0.100	0.1931	0.0000	0.000	0.000	0.0000	0.000	0.000
23		0.00	0.000	0.112	0.1869	0.0000	0.000	0.000	0.0000	0.000	0.000
24		0.00	0.000	0.083	0.1822	0.0000	0.000	0.000	0.0000	0.000	0.000
25		0.00	0.000	0.064	0.1787	0.0000	0.000	0.000	0.0000	0.000	0.000
26		0.00	0.000	0.054	0.1757	0.0000	0.000	0.000	0.0000	0.000	0.000
27		0.00	0.000	0.047	0.1730	0.0000	0.000	0.000	0.0000	0.000	0.000
28		0.00	0.000	0.043	0.1706	0.0000	0.000	0.000	0.0000	0.000	0.000
29		0.00	0.000	0.039	0.1685	0.0000	0.000	0.000	0.0000	0.000	0.000
30		0.00	0.000	0.037	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
31		0.00	0.000	0.034	0.1645	0.0000	0.000	0.000	0.0000	0.000	0.000
32		0.00	0.000	0.033	0.1627	0.0000	0.000	0.000	0.0000	0.000	0.000
33		0.00	0.000	0.031	0.1610	0.0000	0.000	0.000	0.0000	0.000	0.000
34		0.00	0.000	0.030	0.1593	0.0000	0.000	0.000	0.0000	0.000	0.000
35		0.00	0.000	0.028	0.1578	0.0000	0.000	0.000	0.0000	0.000	0.000
36		0.00	0.000	0.027	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
37		0.00	0.000	0.026	0.1548	0.0000	0.000	0.000	0.0000	0.000	0.000
38		0.00	0.000	0.025	0.1534	0.0000	0.000	0.000	0.0000	0.000	0.000
39		0.00	0.000	0.025	0.1520	0.0000	0.000	0.000	0.0000	0.000	0.000
40		0.00	0.000	0.024	0.1507	0.0000	0.000	0.000	0.0000	0.000	0.000
41		0.00	0.000	0.023	0.1494	0.0000	0.000	0.000	0.0000	0.000	0.000
42		0.00	0.000	0.023	0.1481	0.0000	0.000	0.000	0.0000	0.000	0.000
43		0.00	0.000	0.022	0.1469	0.0000	0.000	0.000	0.0000	0.000	0.000
44		0.00	0.000	0.022	0.1457	0.0000	0.000	0.000	0.0000	0.000	0.000
45		0.00	0.000	0.021	0.1445	0.0000	0.000	0.000	0.0000	0.000	0.000
46		0.00	0.000	0.021	0.1433	0.0000	0.000	0.000	0.0000	0.000	0.000
47		0.00	0.000	0.020	0.1422	0.0000	0.000	0.000	0.0000	0.000	0.000
48		0.00	0.000	0.020	0.1411	0.0000	0.000	0.000	0.0000	0.000	0.000
49		0.00	0.000	0.019	0.1400	0.0000	0.000	0.000	0.0000	0.000	0.000
50		0.00	0.000	0.019	0.1390	0.0000	0.000	0.000	0.0000	0.000	0.000
51		0.00	0.000	0.019	0.1379	0.0000	0.000	0.000	0.0000	0.000	0.000
52		0.00	0.000	0.018	0.1369	0.0000	0.000	0.000	0.0000	0.000	0.000
53		0.00	0.000	0.018	0.1359	0.0000	0.000	0.000	0.0000	0.000	0.000
54		0.00	0.000	0.018	0.1349	0.0000	0.000	0.000	0.0000	0.000	0.000
55		0.00	0.000	0.018	0.1339	0.0000	0.000	0.000	0.0000	0.000	0.000
56		0.39	0.000	0.019	0.1545	0.0000	0.000	0.000	0.0000	0.000	0.000
57		0.27	0.000	0.019	0.1685	0.0000	0.000	0.000	0.0000	0.000	0.000
58		0.00	0.000	0.017	0.1676	0.0000	0.000	0.000	0.0000	0.000	0.000
59		0.00	0.000	0.017	0.1666	0.0000	0.000	0.000	0.0000	0.000	0.000
60		0.00	0.000	0.016	0.1657	0.0000	0.000	0.000	0.0000	0.000	0.000
61		0.00	0.000	0.016	0.1648	0.0000	0.000	0.000	0.0000	0.000	0.000
62		0.00	0.000	0.016	0.1640	0.0000	0.000	0.000	0.0000	0.000	0.000
63		0.00	0.000	0.016	0.1631	0.0000	0.000	0.000	0.0000	0.000	0.000
64		0.00	0.000	0.016	0.1622	0.0000	0.000	0.000	0.0000	0.000	0.000
65		0.00	0.000	0.015	0.1614	0.0000	0.000	0.000	0.0000	0.000	0.000
66		0.00	0.000	0.015	0.1605	0.0000	0.000	0.000	0.0000	0.000	0.000
67		0.00	0.000	0.015	0.1597	0.0000	0.000	0.000	0.0000	0.000	0.000
68		0.00	0.000	0.015	0.1588	0.0000	0.000	0.000	0.0000	0.000	0.000
69		0.00	0.000	0.015	0.1580	0.0000	0.000	0.000	0.0000	0.000	0.000
70		0.00	0.000	0.015	0.1572	0.0000	0.000	0.000	0.0000	0.000	0.000

71	0.00	0.000	0.014	0.1564	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.014	0.1556	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.014	0.1548	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.014	0.1541	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.014	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.014	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.014	0.1518	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.013	0.1510	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.013	0.1503	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.013	0.1495	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.013	0.1488	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.013	0.1481	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.013	0.1474	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.013	0.1467	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.013	0.1460	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.013	0.1453	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.012	0.1446	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.012	0.1439	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.012	0.1432	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.012	0.1425	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.012	0.1419	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.012	0.1412	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.012	0.1405	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.012	0.1399	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.012	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.012	0.1386	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.012	0.1379	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.011	0.1373	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.011	0.1367	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.011	0.1360	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.011	0.1354	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.011	0.1348	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.15	0.000	0.013	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.11	0.000	0.013	0.1478	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.01	0.000	0.013	0.1476	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.011	0.1470	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.011	0.1464	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.011	0.1458	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.011	0.1452	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.011	0.1446	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.011	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.011	0.1434	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.011	0.1428	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.010	0.1422	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.010	0.1416	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.010	0.1411	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.010	0.1405	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.010	0.1399	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.010	0.1394	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.010	0.1388	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.010	0.1382	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.010	0.1377	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.010	0.1371	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.010	0.1366	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.010	0.1360	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.010	0.1355	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.010	0.1349	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.010	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.010	0.1338	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.010	0.1333	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.010	0.1328	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.010	0.1322	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.010	0.1317	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.010	0.1312	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.009	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.009	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.009	0.1296	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.009	0.1291	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.009	0.1286	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.009	0.1281	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.009	0.1275	0.0000	0.000	0.000	0.0000	0.000	0.000

142	0.00	0.000	0.009	0.1270	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.008	0.1266	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.009	0.1261	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.009	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.009	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.009	0.1246	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.009	0.1241	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.009	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.009	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.009	0.1226	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.009	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.009	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.00	0.000	0.009	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.009	0.1207	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.009	0.1202	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.009	0.1197	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.009	0.1192	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.009	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.009	0.1183	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.009	0.1178	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.008	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.008	0.1168	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.008	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.008	0.1159	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.008	0.1154	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.008	0.1150	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.008	0.1145	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.008	0.1141	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.008	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.008	0.1131	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.008	0.1127	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.008	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.008	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.008	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.26	0.000	0.011	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.008	0.1247	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.008	0.1242	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.008	0.1238	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.008	0.1233	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.008	0.1229	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.008	0.1225	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.008	0.1220	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.008	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.008	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.008	0.1207	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.008	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.008	0.1198	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.008	0.1194	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.008	0.1190	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.008	0.1185	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.008	0.1181	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.008	0.1177	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.008	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.00	0.000	0.008	0.1168	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.008	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.008	0.1160	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.008	0.1156	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.31	0.000	0.011	0.1322	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.008	0.1318	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.16	0.000	0.011	0.1400	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.007	0.1396	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.31	0.000	0.011	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.007	0.1557	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.007	0.1553	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.08	0.000	0.011	0.1591	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.007	0.1587	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.00	0.000	0.007	0.1583	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.007	0.1579	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.007	0.1575	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.007	0.1571	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.05	0.000	0.011	0.1592	0.0000	0.000	0.000	0.0000	0.000	0.000

213	0.00	0.000	0.007	0.1588	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.007	0.1584	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.02	0.000	0.011	0.1589	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.45	0.000	0.011	0.1833	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.16	0.000	0.011	0.1915	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.007	0.1911	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.04	0.000	0.011	0.1927	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.007	0.1923	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.007	0.1919	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.007	0.1916	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.007	0.1912	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.007	0.1908	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.00	0.000	0.007	0.1904	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.00	0.000	0.007	0.1900	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.007	0.1896	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.007	0.1892	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.48	0.000	0.011	0.2152	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.285	0.1991	0.0000	0.000	0.000	0.0000	0.000	0.000
231	2.59	0.000	0.217	0.3309	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.20	0.000	0.294	0.2817	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.296	0.2565	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.48	0.000	0.244	0.2670	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.271	0.2489	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.00	0.000	0.240	0.2339	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.295	0.2159	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.310	0.1976	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.201	0.1847	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.00	0.000	0.083	0.1787	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.064	0.1739	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.054	0.1698	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.27	0.000	0.052	0.1810	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.09	0.000	0.048	0.1827	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.13	0.000	0.044	0.1870	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.66	0.000	0.041	0.2209	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.237	0.2072	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.248	0.1934	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.241	0.1800	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.201	0.1689	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.75	0.000	0.088	0.2056	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.246	0.1920	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.236	0.1788	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.201	0.1677	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.083	0.1631	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.064	0.1595	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.34	0.000	0.059	0.1751	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.047	0.1725	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.21	0.000	0.048	0.1815	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.039	0.1793	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.037	0.1773	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.034	0.1754	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.033	0.1736	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.031	0.1718	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.030	0.1702	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.028	0.1686	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.03	0.000	0.032	0.1685	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.09	0.000	0.032	0.1717	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.32	0.000	0.031	0.1878	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.025	0.1864	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.024	0.1851	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.023	0.1838	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.023	0.1825	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.022	0.1813	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.38	0.000	0.027	0.2009	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.17	0.000	0.176	0.2006	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.176	0.1908	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.201	0.1796	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.083	0.1750	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.064	0.1714	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.054	0.1685	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.047	0.1658	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.043	0.1634	0.0000	0.000	0.000	0.0000	0.000	0.000

284	0.00	0.000	0.039	0.1613	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.00	0.000	0.037	0.1592	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.034	0.1573	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.033	0.1555	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.031	0.1538	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.08	0.000	0.035	0.1563	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.028	0.1547	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.027	0.1532	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.026	0.1517	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.025	0.1503	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.00	0.000	0.025	0.1489	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.024	0.1476	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.023	0.1463	0.0000	0.000	0.000	0.0000	0.000	0.000
297	0.00	0.000	0.023	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.021	0.1439	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.022	0.1426	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.021	0.1415	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.021	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.020	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.00	0.000	0.020	0.1381	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.00	0.000	0.019	0.1370	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.16	0.000	0.025	0.1445	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.019	0.1435	0.0000	0.000	0.000	0.0000	0.000	0.000
307	0.00	0.000	0.018	0.1425	0.0000	0.000	0.000	0.0000	0.000	0.000
308	0.00	0.000	0.018	0.1414	0.0000	0.000	0.000	0.0000	0.000	0.000
309	0.00	0.000	0.018	0.1404	0.0000	0.000	0.000	0.0000	0.000	0.000
310	0.00	0.000	0.018	0.1395	0.0000	0.000	0.000	0.0000	0.000	0.000
311	0.00	0.000	0.017	0.1385	0.0000	0.000	0.000	0.0000	0.000	0.000
312	0.00	0.000	0.017	0.1376	0.0000	0.000	0.000	0.0000	0.000	0.000
313	0.00	0.000	0.017	0.1366	0.0000	0.000	0.000	0.0000	0.000	0.000
314	0.00	0.000	0.017	0.1357	0.0000	0.000	0.000	0.0000	0.000	0.000
315	0.00	0.000	0.016	0.1348	0.0000	0.000	0.000	0.0000	0.000	0.000
316	0.00	0.000	0.016	0.1339	0.0000	0.000	0.000	0.0000	0.000	0.000
317	0.00	0.000	0.016	0.1330	0.0000	0.000	0.000	0.0000	0.000	0.000
318	0.00	0.000	0.016	0.1321	0.0000	0.000	0.000	0.0000	0.000	0.000
319	0.00	0.000	0.016	0.1313	0.0000	0.000	0.000	0.0000	0.000	0.000
320	0.00	0.000	0.015	0.1304	0.0000	0.000	0.000	0.0000	0.000	0.000
321	0.00	0.000	0.015	0.1296	0.0000	0.000	0.000	0.0000	0.000	0.000
322	0.00	0.000	0.015	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
323	0.00	0.000	0.015	0.1279	0.0000	0.000	0.000	0.0000	0.000	0.000
324	0.00	0.000	0.015	0.1271	0.0000	0.000	0.000	0.0000	0.000	0.000
325	0.00	0.000	0.015	0.1263	0.0000	0.000	0.000	0.0000	0.000	0.000
326	0.00	0.000	0.014	0.1255	0.0000	0.000	0.000	0.0000	0.000	0.000
327	0.00	0.000	0.014	0.1247	0.0000	0.000	0.000	0.0000	0.000	0.000
328	0.00	0.000	0.014	0.1239	0.0000	0.000	0.000	0.0000	0.000	0.000
329	0.00	0.000	0.014	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
330	0.00	0.000	0.014	0.1224	0.0000	0.000	0.000	0.0000	0.000	0.000
331	0.00	0.000	0.014	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
332	0.00	0.000	0.014	0.1209	0.0000	0.000	0.000	0.0000	0.000	0.000
333	0.00	0.000	0.013	0.1201	0.0000	0.000	0.000	0.0000	0.000	0.000
334	0.00	0.000	0.013	0.1194	0.0000	0.000	0.000	0.0000	0.000	0.000
335	0.00	0.000	0.013	0.1186	0.0000	0.000	0.000	0.0000	0.000	0.000
336	0.00	0.000	0.013	0.1179	0.0000	0.000	0.000	0.0000	0.000	0.000
337	0.00	0.000	0.013	0.1172	0.0000	0.000	0.000	0.0000	0.000	0.000
338	0.00	0.000	0.013	0.1165	0.0000	0.000	0.000	0.0000	0.000	0.000
339	0.00	0.000	0.013	0.1158	0.0000	0.000	0.000	0.0000	0.000	0.000
340	0.08	0.000	0.015	0.1194	0.0000	0.000	0.000	0.0000	0.000	0.000
341	0.00	0.000	0.013	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
342	0.00	0.000	0.012	0.1180	0.0000	0.000	0.000	0.0000	0.000	0.000
343	0.00	0.000	0.012	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
344	0.00	0.000	0.012	0.1166	0.0000	0.000	0.000	0.0000	0.000	0.000
345	0.00	0.000	0.012	0.1159	0.0000	0.000	0.000	0.0000	0.000	0.000
346	0.00	0.000	0.012	0.1152	0.0000	0.000	0.000	0.0000	0.000	0.000
347	0.00	0.000	0.011	0.1146	0.0000	0.000	0.000	0.0000	0.000	0.000
348	0.00	0.000	0.012	0.1139	0.0000	0.000	0.000	0.0000	0.000	0.000
349	0.00	0.000	0.012	0.1133	0.0000	0.000	0.000	0.0000	0.000	0.000
350	0.00	0.000	0.012	0.1126	0.0000	0.000	0.000	0.0000	0.000	0.000
351	0.00	0.000	0.012	0.1120	0.0000	0.000	0.000	0.0000	0.000	0.000
352	0.19	0.000	0.014	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
353	0.05	0.000	0.014	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
354	0.00	0.000	0.011	0.1228	0.0000	0.000	0.000	0.0000	0.000	0.000

355	0.02	0.000	0.014	0.1232	0.0000	0.000	0.000	0.0000	0.000	0.000
356	0.06	0.000	0.013	0.1258	0.0000	0.000	0.000	0.0000	0.000	0.000
357	0.00	0.000	0.011	0.1252	0.0000	0.000	0.000	0.0000	0.000	0.000
358	0.00	0.000	0.011	0.1245	0.0000	0.000	0.000	0.0000	0.000	0.000
359	0.00	0.000	0.011	0.1239	0.0000	0.000	0.000	0.0000	0.000	0.000
360	0.00	0.000	0.011	0.1233	0.0000	0.000	0.000	0.0000	0.000	0.000
361	0.00	0.000	0.011	0.1227	0.0000	0.000	0.000	0.0000	0.000	0.000
362	0.00	0.000	0.011	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
363	0.00	0.000	0.011	0.1215	0.0000	0.000	0.000	0.0000	0.000	0.000
364	0.00	0.000	0.011	0.1209	0.0000	0.000	0.000	0.0000	0.000	0.000
365	0.00	0.000	0.011	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
366	0.00	0.000	0.011	0.1197	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.73	0.66	0.00	0.27	0.00	0.26
	0.91	4.78	2.53	0.79	0.00	0.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.807	0.638	0.429	0.335	0.290	0.254
	0.253	3.088	2.528	1.451	0.466	0.375
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.33	10459693.247	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	11.915	10107241.934	96.63
PERC./LEAKAGE THROUGH LAYER 4	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	0.415	352451.470	3.37
SOIL WATER AT START OF YEAR	64.820	54987682.501	
SOIL WATER AT END OF YEAR	65.236	55340133.970	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.157	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

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DAILY OUTPUT FOR YEAR 5

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.011	0.1191	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.011	0.1185	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.010	0.1179	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.010	0.1174	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.010	0.1168	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.010	0.1162	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.010	0.1156	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.010	0.1151	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.009	0.1146	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.007	0.1142	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.007	0.1138	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.007	0.1135	0.0000	0.000	0.000	0.0000	0.000	0.000

13		0.00	0.000	0.007	0.1131	0.0000	0.000	0.000	0.0000	0.000	0.000
14		0.08	0.000	0.009	0.1171	0.0000	0.000	0.000	0.0000	0.000	0.000
15		0.00	0.000	0.007	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
16	*	0.00	0.000	0.008	0.1162	0.0000	0.000	0.000	0.0000	0.000	0.000
17		0.00	0.000	0.008	0.1158	0.0000	0.000	0.000	0.0000	0.000	0.000
18		0.00	0.000	0.008	0.1153	0.0000	0.000	0.000	0.0000	0.000	0.000
19		0.00	0.000	0.008	0.1149	0.0000	0.000	0.000	0.0000	0.000	0.000
20	*	0.00	0.000	0.007	0.1145	0.0000	0.000	0.000	0.0000	0.000	0.000
21		0.00	0.000	0.006	0.1142	0.0000	0.000	0.000	0.0000	0.000	0.000
22		0.00	0.000	0.006	0.1139	0.0000	0.000	0.000	0.0000	0.000	0.000
23		0.00	0.000	0.006	0.1135	0.0000	0.000	0.000	0.0000	0.000	0.000
24		0.00	0.000	0.006	0.1132	0.0000	0.000	0.000	0.0000	0.000	0.000
25		0.00	0.000	0.006	0.1128	0.0000	0.000	0.000	0.0000	0.000	0.000
26		0.00	0.000	0.006	0.1125	0.0000	0.000	0.000	0.0000	0.000	0.000
27		0.00	0.000	0.006	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
28		0.00	0.000	0.006	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
29		0.00	0.000	0.006	0.1115	0.0000	0.000	0.000	0.0000	0.000	0.000
30		0.00	0.000	0.006	0.1111	0.0000	0.000	0.000	0.0000	0.000	0.000
31		0.00	0.000	0.006	0.1108	0.0000	0.000	0.000	0.0000	0.000	0.000
32		0.00	0.000	0.006	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
33		0.00	0.000	0.006	0.1101	0.0000	0.000	0.000	0.0000	0.000	0.000
34		0.08	0.000	0.008	0.1141	0.0000	0.000	0.000	0.0000	0.000	0.000
35		0.04	0.000	0.008	0.1159	0.0000	0.000	0.000	0.0000	0.000	0.000
36		0.00	0.000	0.004	0.1157	0.0000	0.000	0.000	0.0000	0.000	0.000
37		0.00	0.000	0.004	0.1155	0.0000	0.000	0.000	0.0000	0.000	0.000
38		0.00	0.000	0.004	0.1153	0.0000	0.000	0.000	0.0000	0.000	0.000
39		0.00	0.000	0.004	0.1151	0.0000	0.000	0.000	0.0000	0.000	0.000
40		0.10	0.000	0.006	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
41		0.03	0.000	0.007	0.1215	0.0000	0.000	0.000	0.0000	0.000	0.000
42		0.22	0.000	0.006	0.1334	0.0000	0.000	0.000	0.0000	0.000	0.000
43		0.00	0.000	0.004	0.1332	0.0000	0.000	0.000	0.0000	0.000	0.000
44		0.61	0.000	0.008	0.1667	0.0000	0.000	0.000	0.0000	0.000	0.000
45		0.03	0.000	0.008	0.1679	0.0000	0.000	0.000	0.0000	0.000	0.000
46		0.05	0.000	0.009	0.1701	0.0000	0.000	0.000	0.0000	0.000	0.000
47		0.19	0.000	0.009	0.1802	0.0000	0.000	0.000	0.0000	0.000	0.000
48		0.11	0.000	0.010	0.1857	0.0000	0.000	0.000	0.0000	0.000	0.000
49		0.01	0.000	0.009	0.1858	0.0000	0.000	0.000	0.0000	0.000	0.000
50		0.03	0.000	0.009	0.1869	0.0000	0.000	0.000	0.0000	0.000	0.000
51		0.20	0.000	0.010	0.1975	0.0000	0.000	0.000	0.0000	0.000	0.000
52		0.00	0.000	0.008	0.1971	0.0000	0.000	0.000	0.0000	0.000	0.000
53		0.00	0.000	0.008	0.1966	0.0000	0.000	0.000	0.0000	0.000	0.000
54		0.00	0.000	0.008	0.1962	0.0000	0.000	0.000	0.0000	0.000	0.000
55		0.00	0.000	0.008	0.1958	0.0000	0.000	0.000	0.0000	0.000	0.000
56		0.00	0.000	0.008	0.1954	0.0000	0.000	0.000	0.0000	0.000	0.000
57		0.00	0.000	0.008	0.1949	0.0000	0.000	0.000	0.0000	0.000	0.000
58		0.00	0.000	0.008	0.1945	0.0000	0.000	0.000	0.0000	0.000	0.000
59		0.00	0.000	0.008	0.1941	0.0000	0.000	0.000	0.0000	0.000	0.000
60		0.00	0.000	0.008	0.1937	0.0000	0.000	0.000	0.0000	0.000	0.000
61		0.00	0.000	0.007	0.1933	0.0000	0.000	0.000	0.0000	0.000	0.000
62		0.00	0.000	0.008	0.1928	0.0000	0.000	0.000	0.0000	0.000	0.000
63		0.00	0.000	0.008	0.1924	0.0000	0.000	0.000	0.0000	0.000	0.000
64		0.00	0.000	0.008	0.1920	0.0000	0.000	0.000	0.0000	0.000	0.000
65		0.00	0.000	0.008	0.1915	0.0000	0.000	0.000	0.0000	0.000	0.000
66		0.00	0.000	0.008	0.1911	0.0000	0.000	0.000	0.0000	0.000	0.000
67		0.00	0.000	0.008	0.1907	0.0000	0.000	0.000	0.0000	0.000	0.000
68		0.00	0.000	0.008	0.1902	0.0000	0.000	0.000	0.0000	0.000	0.000
69		0.00	0.000	0.008	0.1898	0.0000	0.000	0.000	0.0000	0.000	0.000
70		0.00	0.000	0.008	0.1894	0.0000	0.000	0.000	0.0000	0.000	0.000
71		0.00	0.000	0.008	0.1889	0.0000	0.000	0.000	0.0000	0.000	0.000
72		0.00	0.000	0.008	0.1885	0.0000	0.000	0.000	0.0000	0.000	0.000
73		0.00	0.000	0.008	0.1881	0.0000	0.000	0.000	0.0000	0.000	0.000
74		0.03	0.000	0.010	0.1892	0.0000	0.000	0.000	0.0000	0.000	0.000
75		0.00	0.000	0.008	0.1888	0.0000	0.000	0.000	0.0000	0.000	0.000
76		0.00	0.000	0.008	0.1884	0.0000	0.000	0.000	0.0000	0.000	0.000
77		0.00	0.000	0.008	0.1879	0.0000	0.000	0.000	0.0000	0.000	0.000
78		0.00	0.000	0.008	0.1875	0.0000	0.000	0.000	0.0000	0.000	0.000
79		0.00	0.000	0.008	0.1871	0.0000	0.000	0.000	0.0000	0.000	0.000
80		0.00	0.000	0.007	0.1867	0.0000	0.000	0.000	0.0000	0.000	0.000
81		0.00	0.000	0.007	0.1863	0.0000	0.000	0.000	0.0000	0.000	0.000
82		0.00	0.000	0.007	0.1859	0.0000	0.000	0.000	0.0000	0.000	0.000
83		0.00	0.000	0.007	0.1855	0.0000	0.000	0.000	0.0000	0.000	0.000

84	0.00	0.000	0.007	0.1850	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.007	0.1846	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.007	0.1842	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.007	0.1838	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.007	0.1834	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.007	0.1830	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.007	0.1826	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.007	0.1822	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.007	0.1818	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.10	0.000	0.010	0.1868	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.007	0.1864	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.007	0.1860	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.007	0.1856	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.15	0.000	0.010	0.1934	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.01	0.000	0.010	0.1934	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.007	0.1930	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.007	0.1926	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.007	0.1922	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.007	0.1919	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.007	0.1915	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.007	0.1911	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.007	0.1907	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.007	0.1903	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.007	0.1899	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.007	0.1895	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.007	0.1891	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.007	0.1887	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.007	0.1883	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.007	0.1879	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.007	0.1876	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.007	0.1872	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.007	0.1868	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.007	0.1864	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.007	0.1860	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.007	0.1856	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.007	0.1852	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.007	0.1848	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.007	0.1844	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.007	0.1841	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.007	0.1837	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.007	0.1833	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.007	0.1829	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.007	0.1825	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.007	0.1822	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.007	0.1818	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.007	0.1814	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.007	0.1810	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.73	0.000	0.010	0.2210	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.308	0.2039	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.341	0.1849	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.201	0.1738	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.083	0.1692	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.064	0.1656	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.054	0.1626	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.047	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.043	0.1576	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.039	0.1554	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.037	0.1534	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.034	0.1515	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.033	0.1497	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.031	0.1479	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.030	0.1463	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.028	0.1447	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.027	0.1432	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.026	0.1417	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.025	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.025	0.1389	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.024	0.1376	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.023	0.1363	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.023	0.1350	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.00	0.000	0.022	0.1338	0.0000	0.000	0.000	0.0000	0.000	0.000

155	0.00	0.000	0.022	0.1326	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.021	0.1314	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.021	0.1303	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.05	0.000	0.024	0.1317	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.01	0.000	0.024	0.1309	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.019	0.1299	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.019	0.1288	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.019	0.1278	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.018	0.1267	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.018	0.1257	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.018	0.1247	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.018	0.1237	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.017	0.1228	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.017	0.1218	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.017	0.1209	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.017	0.1200	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.016	0.1191	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.016	0.1182	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.016	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.016	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.016	0.1155	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.015	0.1147	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.015	0.1139	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.015	0.1130	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.015	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.015	0.1114	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.015	0.1106	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.014	0.1098	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.06	0.000	0.019	0.1120	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.014	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.014	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.014	0.1097	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.42	0.000	0.018	0.1320	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.01	0.000	0.018	0.1316	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.013	0.1309	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.013	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.013	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.013	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.013	0.1279	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.013	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.00	0.000	0.013	0.1265	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.24	0.000	0.018	0.1389	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.013	0.1382	0.0000	0.000	0.000	0.0000	0.000	0.000
198	1.20	0.000	0.017	0.2039	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.300	0.1872	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.011	0.1866	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.43	0.000	0.016	0.2096	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.300	0.1929	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.07	0.000	0.017	0.1959	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.012	0.1952	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.012	0.1945	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.44	0.000	0.017	0.2180	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.337	0.1993	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.00	0.000	0.012	0.1986	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.012	0.1980	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.38	0.000	0.017	0.2182	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.327	0.2000	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.012	0.1993	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.012	0.1987	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.011	0.1981	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.011	0.1974	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.011	0.1968	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.011	0.1962	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.011	0.1955	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.011	0.1949	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.011	0.1943	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.011	0.1937	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.19	0.000	0.016	0.2033	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.011	0.2028	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.010	0.2022	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.00	0.000	0.010	0.2016	0.0000	0.000	0.000	0.0000	0.000	0.000

226	0.00	0.000	0.010	0.2010	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.010	0.2005	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.010	0.1999	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.84	0.000	0.016	0.2457	0.0000	0.000	0.000	0.0000	0.000	0.000
230	1.21	0.000	0.283	0.2972	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.15	0.000	0.227	0.2927	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.314	0.2711	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.01	0.000	0.291	0.2502	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.00	0.000	0.262	0.2326	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.269	0.2136	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.00	0.000	0.287	0.1959	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.201	0.1836	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.083	0.1777	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.064	0.1725	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.11	0.000	0.059	0.1738	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.047	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.12	0.000	0.048	0.1729	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.04	0.000	0.045	0.1717	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.037	0.1688	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.034	0.1660	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.033	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.031	0.1612	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.030	0.1591	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.028	0.1571	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.027	0.1552	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.026	0.1536	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.025	0.1521	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.024	0.1508	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.023	0.1495	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.023	0.1482	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.022	0.1470	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.00	0.000	0.022	0.1458	0.0000	0.000	0.000	0.0000	0.000	0.000
258	3.38	0.000	0.027	0.3320	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.220	0.2904	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.248	0.2664	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.80	0.000	0.180	0.2955	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.204	0.2803	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.223	0.2653	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.209	0.2509	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.229	0.2349	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.196	0.2207	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.214	0.2060	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.00	0.000	0.201	0.1922	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.083	0.1854	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.064	0.1802	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.054	0.1756	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.047	0.1715	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.043	0.1680	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.039	0.1648	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.07	0.000	0.042	0.1654	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.034	0.1626	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.033	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.030	0.1576	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.030	0.1555	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.028	0.1534	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.027	0.1515	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.026	0.1497	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.025	0.1482	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.025	0.1468	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.04	0.000	0.029	0.1474	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.023	0.1461	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.023	0.1449	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.022	0.1436	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.022	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.021	0.1412	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.021	0.1399	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.020	0.1387	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.020	0.1373	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.00	0.000	0.019	0.1362	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.019	0.1348	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.019	0.1337	0.0000	0.000	0.000	0.0000	0.000	0.000

297	0.00	0.000	0.018	0.1324	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.018	0.1314	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.018	0.1304	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.018	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.017	0.1285	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.017	0.1275	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.00	0.000	0.017	0.1266	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.00	0.000	0.017	0.1257	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.00	0.000	0.016	0.1248	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.016	0.1239	0.0000	0.000	0.000	0.0000	0.000	0.000
307	0.00	0.000	0.016	0.1230	0.0000	0.000	0.000	0.0000	0.000	0.000
308	0.00	0.000	0.016	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
309	0.00	0.000	0.016	0.1212	0.0000	0.000	0.000	0.0000	0.000	0.000
310	0.00	0.000	0.015	0.1204	0.0000	0.000	0.000	0.0000	0.000	0.000
311	0.00	0.000	0.015	0.1195	0.0000	0.000	0.000	0.0000	0.000	0.000
312	0.11	0.000	0.021	0.1245	0.0000	0.000	0.000	0.0000	0.000	0.000
313	0.30	0.000	0.021	0.1400	0.0000	0.000	0.000	0.0000	0.000	0.000
314	0.00	0.000	0.015	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000
315	0.00	0.000	0.015	0.1384	0.0000	0.000	0.000	0.0000	0.000	0.000
316	0.00	0.000	0.014	0.1376	0.0000	0.000	0.000	0.0000	0.000	0.000
317	0.00	0.000	0.014	0.1368	0.0000	0.000	0.000	0.0000	0.000	0.000
318	0.00	0.000	0.014	0.1360	0.0000	0.000	0.000	0.0000	0.000	0.000
319	0.00	0.000	0.014	0.1352	0.0000	0.000	0.000	0.0000	0.000	0.000
320	0.00	0.000	0.014	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
321	0.03	0.000	0.017	0.1352	0.0000	0.000	0.000	0.0000	0.000	0.000
322	0.12	0.000	0.017	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
323	0.14	0.000	0.017	0.1476	0.0000	0.000	0.000	0.0000	0.000	0.000
324	0.17	0.000	0.016	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
325	0.00	0.000	0.013	0.1554	0.0000	0.000	0.000	0.0000	0.000	0.000
326	0.00	0.000	0.013	0.1547	0.0000	0.000	0.000	0.0000	0.000	0.000
327	0.00	0.000	0.013	0.1540	0.0000	0.000	0.000	0.0000	0.000	0.000
328	0.00	0.000	0.013	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
329	0.00	0.000	0.013	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
330	0.00	0.000	0.013	0.1518	0.0000	0.000	0.000	0.0000	0.000	0.000
331	0.00	0.000	0.013	0.1511	0.0000	0.000	0.000	0.0000	0.000	0.000
332	0.00	0.000	0.012	0.1504	0.0000	0.000	0.000	0.0000	0.000	0.000
333	0.00	0.000	0.012	0.1498	0.0000	0.000	0.000	0.0000	0.000	0.000
334	0.00	0.000	0.012	0.1491	0.0000	0.000	0.000	0.0000	0.000	0.000
335	0.00	0.000	0.012	0.1484	0.0000	0.000	0.000	0.0000	0.000	0.000
336	0.00	0.000	0.012	0.1477	0.0000	0.000	0.000	0.0000	0.000	0.000
337	0.00	0.000	0.012	0.1471	0.0000	0.000	0.000	0.0000	0.000	0.000
338	0.00	0.000	0.012	0.1464	0.0000	0.000	0.000	0.0000	0.000	0.000
339	0.00	0.000	0.012	0.1457	0.0000	0.000	0.000	0.0000	0.000	0.000
340	0.00	0.000	0.012	0.1451	0.0000	0.000	0.000	0.0000	0.000	0.000
341	0.07	0.000	0.014	0.1482	0.0000	0.000	0.000	0.0000	0.000	0.000
342	0.12	0.000	0.014	0.1541	0.0000	0.000	0.000	0.0000	0.000	0.000
343	0.02	0.000	0.014	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
344	0.03	0.000	0.014	0.1553	0.0000	0.000	0.000	0.0000	0.000	0.000
345	0.00	0.000	0.011	0.1547	0.0000	0.000	0.000	0.0000	0.000	0.000
346	0.00	0.000	0.011	0.1540	0.0000	0.000	0.000	0.0000	0.000	0.000
347	0.03	0.000	0.014	0.1549	0.0000	0.000	0.000	0.0000	0.000	0.000
348	0.00	0.000	0.011	0.1543	0.0000	0.000	0.000	0.0000	0.000	0.000
349	0.00	0.000	0.011	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
350	0.00	0.000	0.011	0.1531	0.0000	0.000	0.000	0.0000	0.000	0.000
351	0.00	0.000	0.011	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
352	0.00	0.000	0.011	0.1519	0.0000	0.000	0.000	0.0000	0.000	0.000
353	0.00	0.000	0.011	0.1513	0.0000	0.000	0.000	0.0000	0.000	0.000
354	0.00	0.000	0.011	0.1507	0.0000	0.000	0.000	0.0000	0.000	0.000
355	0.00	0.000	0.011	0.1501	0.0000	0.000	0.000	0.0000	0.000	0.000
356	0.00	0.000	0.011	0.1495	0.0000	0.000	0.000	0.0000	0.000	0.000
357	0.00	0.000	0.011	0.1489	0.0000	0.000	0.000	0.0000	0.000	0.000
358	0.00	0.000	0.011	0.1483	0.0000	0.000	0.000	0.0000	0.000	0.000
359	0.00	0.000	0.010	0.1477	0.0000	0.000	0.000	0.0000	0.000	0.000
360	0.00	0.000	0.010	0.1472	0.0000	0.000	0.000	0.0000	0.000	0.000
361	0.15	0.000	0.012	0.1548	0.0000	0.000	0.000	0.0000	0.000	0.000
362	0.03	0.000	0.012	0.1558	0.0000	0.000	0.000	0.0000	0.000	0.000
363	0.00	0.000	0.010	0.1552	0.0000	0.000	0.000	0.0000	0.000	0.000
364	0.01	0.000	0.012	0.1551	0.0000	0.000	0.000	0.0000	0.000	0.000
365	0.00	0.000	0.010	0.1545	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.08	1.70	0.03	0.26	0.73	0.06
	3.25	2.67	4.18	0.11	0.87	0.46
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.240	0.201	0.237	0.220	1.580	0.547
	1.652	2.676	2.827	0.738	0.448	0.362
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.40	12215700.142	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	11.726	9947351.947	81.43
PERC./LEAKAGE THROUGH LAYER 4	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 4	0.0000		
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00

PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	2.674	2268348.379	18.57
SOIL WATER AT START OF YEAR	65.236	55340133.970	
SOIL WATER AT END OF YEAR	67.910	57608482.349	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.183	0.00

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AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.97	0.65	0.07	0.22	0.33	0.57
	1.54	3.80	4.40	0.39	0.50	0.41
STD. DEVIATIONS	0.95	0.62	0.13	0.24	0.29	0.63
	1.20	0.82	1.84	0.33	0.47	0.18
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	0.782	0.421	0.350	0.230	0.506	0.284
	1.147	2.858	3.191	0.895	0.428	0.368
STD. DEVIATIONS	0.629	0.205	0.136	0.119	0.604	0.153
	1.271	0.286	1.202	0.377	0.039	0.048
PERCOLATION/LEAKAGE THROUGH LAYER 4						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5						
TOTALS	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

PERCOLATION/LEAKAGE THROUGH LAYER 7

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 4

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

DAILY AVERAGE HEAD ON TOP OF LAYER 6

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	13.85 (1.659)	11749128.3	100.00
RUNOFF	0.000 (0.0000)	0.00	0.000
EVAPOTRANSPIRATION	11.460 (1.0754)	9721854.55	82.745
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.00000 (0.00000)	0.000	0.00000
AVERAGE HEAD ON TOP OF LAYER 4	0.000 (0.000)		
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.00011 (0.00025)	93.496	0.00080
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.00000 (0.00000)	0.000	0.00000
AVERAGE HEAD ON TOP OF LAYER 6	0.000 (0.000)		
CHANGE IN WATER STORAGE	2.390 (2.6660)	2027180.39	17.254

PEAK DAILY VALUES FOR YEARS 1 THROUGH 5 and their dates (DDDYYYY)

	(INCHES)	(CU. FT.)	
PRECIPITATION	3.38	2867296.28340	2580005
RUNOFF	0.000	0.00000	0
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.000000	0.00000	0
AVERAGE HEAD ON TOP OF LAYER 4	0.000		
DRAINAGE COLLECTED FROM LAYER 5	0.00055	467.47936	10001
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.000000	0.00095	10001
AVERAGE HEAD ON TOP OF LAYER 6	0.000		
MAXIMUM HEAD ON TOP OF LAYER 6	0.000		
LOCATION OF MAXIMUM HEAD IN LAYER 5 (DISTANCE FROM DRAIN)	0.0 FEET		
SNOW WATER	0.90	763748.4554	110002

MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.3804
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.1040

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

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FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	2.0343	0.1695
2	59.5765	0.1655
3	4.0728	0.1697
4	0.0000	0.0000
5	0.0020	0.0100
6	0.0000	0.0000
7	0.1875	0.7500
SNOW WATER	0.000	

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Attachment A-6
Tier II, Simulation 9-1
Alternate Liner with Soil Type 7
Alternate Cover with Soil Type 7

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**                                                                  **
**                                                                  **
**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE        **
**                HELP MODEL VERSION 3.07 (1 November 1997)         **
**                   DEVELOPED BY ENVIRONMENTAL LABORATORY          **
**                     USAE WATERWAYS EXPERIMENT STATION            **
**              FOR USEPA RISK REDUCTION ENGINEERING LABORATORY      **
**                                                                  **
**                                                                  **
**********************************************************************
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PRECIPITATION DATA FILE:     C:\WHI\VHELP22\data\P5078.VHP\_weather1.dat
TEMPERATURE DATA FILE:       C:\WHI\VHELP22\data\P5078.VHP\_weather2.dat
SOLAR RADIATION DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\_weather3.dat
EVAPOTRANSPIRATION DATA:     C:\WHI\VHELP22\data\P5078.VHP\_weather4.dat
SOIL AND DESIGN DATA FILE:   C:\WHI\VHELP22\data\P5078.VHP\I_389948.inp
OUTPUT DATA FILE:            C:\WHI\VHELP22\data\P5078.VHP\O_389948.prt


TIME:  14:34     DATE:  10/17/2013


**********************************************************************

     TITLE:  S-9

**********************************************************************


     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
              WERE SPECIFIED BY THE USER.


                                LAYER  1
                                --------

               TYPE 1 - VERTICAL PERCOLATION LAYER
                    MATERIAL TEXTURE NUMBER   7
          THICKNESS                    =     30.48   CM   (12 in.)
          POROSITY                     =      0.4730 VOL/VOL
          FIELD CAPACITY               =      0.2220 VOL/VOL
          WILTING POINT                =      0.1040 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.1335 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.520000000000E-03 CM/SEC



                                LAYER  2
                                --------

               TYPE 1 - VERTICAL PERCOLATION LAYER
                    MATERIAL TEXTURE NUMBER   7
          THICKNESS                    =     60.96   CM   (24 in.)
          POROSITY                     =      0.4730 VOL/VOL
          FIELD CAPACITY               =      0.2220 VOL/VOL
          WILTING POINT                =      0.1040 VOL/VOL
          INITIAL SOIL WATER CONTENT   =      0.1335 VOL/VOL
          EFFECTIVE SAT. HYD. COND.    =  0.520000000000E-03 CM/SEC
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LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 7

THICKNESS	=	30.48	CM (12 in.)
POROSITY	=	0.4730	VOL/VOL
FIELD CAPACITY	=	0.2220	VOL/VOL
WILTING POINT	=	0.1040	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1695	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.520000000000E-03	CM/SEC

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 7

THICKNESS	=	1798.32	CM (59 ft.)
POROSITY	=	0.4730	VOL/VOL
FIELD CAPACITY	=	0.2220	VOL/VOL
WILTING POINT	=	0.1040	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1655	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.520000000000E-03	CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 7

THICKNESS	=	60.96	CM (24 in.)
POROSITY	=	0.4730	VOL/VOL
FIELD CAPACITY	=	0.2220	VOL/VOL
WILTING POINT	=	0.1040	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1697	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.520000000000E-03	CM/SEC

LAYER 6

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.15	CM (0.06 in.)
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.200000000000E-12	CM/SEC
FML PINHOLE DENSITY	=	2.47	HOLES/HECTARE (1 hole/acre)
FML INSTALLATION DEFECTS	=	9.88	HOLES/HECTARE (4 hole/acre)
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 7

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 20

THICKNESS	=	0.50	CM (0.20 in.)
POROSITY	=	0.8500	VOL/VOL
FIELD CAPACITY	=	0.0100	VOL/VOL
WILTING POINT	=	0.0050	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0100	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	10.0000000000	CM/SEC
SLOPE	=	2.80	PERCENT

DRAINAGE LENGTH = 91.4 METERS (300 ft.)

LAYER 8

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.15	CM (0.06 in.)
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.200000000000E-12	CM/SEC
FML PINHOLE DENSITY	=	2.47	HOLES/HECTARE (1 hole/acre)
FML INSTALLATION DEFECTS	=	9.88	HOLES/HECTARE (4 hole/acre)
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 9

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 17

THICKNESS	=	0.64	CM (0.25 in.)
POROSITY	=	0.7500	VOL/VOL
FIELD CAPACITY	=	0.7470	VOL/VOL
WILTING POINT	=	0.4000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.7500	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.300000000000E-08	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE # 7 WITH BARE GROUND CONDITIONS, A SURFACE SLOPE OF 25.% AND A SLOPE LENGTH OF 30. METERS (100 ft.)

SCS RUNOFF CURVE NUMBER	=	89.63	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	35.2845	HECTARES (87.19 acres)
EVAPORATIVE ZONE DEPTH	=	45.7	CM (18.00 in.)
INITIAL WATER IN EVAPORATIVE ZONE	=	6.104	CM (2.40 in.)
UPPER LIMIT OF EVAPORATIVE STORAGE	=	21.626	CM (8.51 in.)
LOWER LIMIT OF EVAPORATIVE STORAGE	=	4.755	CM (1.87 in.)
INITIAL SNOW WATER	=	0.000	CM (0.00 in.)
INITIAL WATER IN LAYER MATERIALS	=	325.822	CM (128.28 in.)
TOTAL INITIAL WATER	=	325.822	CM (128.28 in.)
TOTAL SUBSURFACE INFLOW	=	0.00	MM/YR (0.00 in./yr)

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
EL PASO TX

STATION LATITUDE	=	31.85 DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00
START OF GROWING SEASON (JULIAN DATE)	=	66
END OF GROWING SEASON (JULIAN DATE)	=	315
EVAPORATIVE ZONE DEPTH	=	18.0 INCHES
AVERAGE ANNUAL WIND SPEED	=	9.20 MPH

AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 40.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 27.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 46.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 48.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.60	0.52	0.18	0.30	0.73	0.44
2.39	3.48	2.38	0.58	0.66	0.23

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
46.40	50.30	58.30	65.60	75.00	83.20
83.00	80.10	74.60	65.80	54.30	45.80

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR DNCS NM
AND STATION LATITUDE = 32.78 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 8
DRAIN #2: LATERAL DRAINAGE FROM LAYER 7 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 9

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DAILY OUTPUT FOR YEAR 1

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.010	0.1329	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.010	0.1323	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.010	0.1318	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.010	0.1312	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.010	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.010	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.010	0.1295	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.010	0.1289	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.010	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000

10	0.00	0.000	0.010	0.1278	0.0000	0.000	0.000	0.0000	0.000	0.000
11	0.00	0.000	0.010	0.1273	0.0000	0.000	0.000	0.0000	0.000	0.000
12	0.00	0.000	0.010	0.1267	0.0000	0.000	0.000	0.0000	0.000	0.000
13	0.00	0.000	0.010	0.1262	0.0000	0.000	0.000	0.0000	0.000	0.000
14	0.00	0.000	0.010	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
15	0.00	0.000	0.010	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
16	0.00	0.000	0.010	0.1245	0.0000	0.000	0.000	0.0000	0.000	0.000
17	0.00	0.000	0.010	0.1240	0.0000	0.000	0.000	0.0000	0.000	0.000
18	0.00	0.000	0.010	0.1235	0.0000	0.000	0.000	0.0000	0.000	0.000
19	0.00	0.000	0.010	0.1229	0.0000	0.000	0.000	0.0000	0.000	0.000
20	0.00	0.000	0.010	0.1224	0.0000	0.000	0.000	0.0000	0.000	0.000
21	0.00	0.000	0.010	0.1219	0.0000	0.000	0.000	0.0000	0.000	0.000
22	0.00	0.000	0.009	0.1213	0.0000	0.000	0.000	0.0000	0.000	0.000
23	0.00	0.000	0.009	0.1208	0.0000	0.000	0.000	0.0000	0.000	0.000
24	0.00	0.000	0.009	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
25	0.00	0.000	0.009	0.1198	0.0000	0.000	0.000	0.0000	0.000	0.000
26	0.00	0.000	0.009	0.1193	0.0000	0.000	0.000	0.0000	0.000	0.000
27	0.00	0.000	0.009	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
28	0.00	0.000	0.009	0.1182	0.0000	0.000	0.000	0.0000	0.000	0.000
29	0.00	0.000	0.009	0.1177	0.0000	0.000	0.000	0.0000	0.000	0.000
30	0.00	0.000	0.009	0.1172	0.0000	0.000	0.000	0.0000	0.000	0.000
31	0.00	0.000	0.009	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
32	0.17	0.000	0.010	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
33	0.00	0.000	0.009	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
34	0.00	0.000	0.009	0.1246	0.0000	0.000	0.000	0.0000	0.000	0.000
35	0.00	0.000	0.009	0.1241	0.0000	0.000	0.000	0.0000	0.000	0.000
36	0.00	0.000	0.009	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
37	0.00	0.000	0.009	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
38	0.00	0.000	0.009	0.1226	0.0000	0.000	0.000	0.0000	0.000	0.000
39	0.00	0.000	0.009	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
40	0.00	0.000	0.009	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
41	0.00	0.000	0.009	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
42	0.00	0.000	0.009	0.1207	0.0000	0.000	0.000	0.0000	0.000	0.000
43	0.00	0.000	0.009	0.1202	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.00	0.000	0.009	0.1197	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.00	0.000	0.009	0.1192	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.00	0.000	0.009	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.009	0.1183	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.00	0.000	0.009	0.1178	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.00	0.000	0.008	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.008	0.1169	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.008	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.008	0.1159	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.008	0.1155	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.008	0.1150	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.00	0.000	0.008	0.1145	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.00	0.000	0.008	0.1141	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.008	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.008	0.1131	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.008	0.1127	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.008	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.008	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.008	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.008	0.1109	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.008	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.008	0.1100	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.008	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.008	0.1091	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.008	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.008	0.1083	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.008	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.008	0.1074	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.008	0.1069	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.008	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.02	0.000	0.009	0.1071	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.008	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.008	0.1063	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.008	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.008	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.008	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.003	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000

81	0.00	0.000	0.001	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.001	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.001	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.04	0.000	0.002	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.001	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.002	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.001	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.001	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.001	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.001	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.001	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.001	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.001	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.001	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.29	0.000	0.004	0.1213	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.003	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.26	0.000	0.004	0.1354	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.003	0.1352	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.005	0.1349	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.005	0.1347	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.005	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.005	0.1342	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.005	0.1339	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.005	0.1337	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.005	0.1334	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.005	0.1331	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.005	0.1329	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.005	0.1326	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.005	0.1324	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.005	0.1321	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.005	0.1319	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.005	0.1316	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.005	0.1314	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.005	0.1311	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.004	0.1309	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.004	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.004	0.1304	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.004	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.004	0.1299	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.004	0.1296	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.004	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.004	0.1291	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.004	0.1289	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.004	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.004	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.004	0.1282	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.004	0.1279	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.004	0.1277	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.004	0.1274	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.004	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.004	0.1269	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.30	0.000	0.006	0.1433	0.0000	0.000	0.000	0.0000	0.000	0.000

152	0.00	0.000	0.005	0.1430	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.005	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.01	0.000	0.006	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.004	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.01	0.000	0.006	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.004	0.1426	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.005	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.004	0.1421	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.004	0.1419	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.004	0.1417	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.004	0.1414	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.005	0.1412	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.005	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.005	0.1406	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.005	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.005	0.1400	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.005	0.1397	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.005	0.1395	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.005	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.005	0.1389	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.005	0.1386	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.005	0.1383	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.005	0.1380	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.005	0.1378	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.005	0.1375	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.005	0.1372	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.005	0.1369	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.005	0.1366	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.005	0.1364	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.005	0.1361	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.005	0.1358	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.005	0.1355	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.21	0.000	0.007	0.1468	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.005	0.1465	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.006	0.1462	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.005	0.1459	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.005	0.1456	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.005	0.1453	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.005	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.006	0.1447	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.01	0.000	0.008	0.1448	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.005	0.1445	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.005	0.1442	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.01	0.000	0.008	0.1443	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.005	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.005	0.1438	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.005	0.1435	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.005	0.1432	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.31	0.000	0.008	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.11	0.000	0.008	0.1657	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.005	0.1654	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.005	0.1651	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.18	0.000	0.008	0.1747	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.005	0.1744	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.09	0.000	0.008	0.1790	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.005	0.1787	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.25	0.000	0.008	0.1921	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.259	0.1777	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.005	0.1774	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.006	0.1771	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.005	0.1768	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.005	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.005	0.1763	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.005	0.1760	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.29	0.000	0.008	0.1916	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.272	0.1765	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.006	0.1762	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.006	0.1759	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.006	0.1756	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.006	0.1753	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.006	0.1749	0.0000	0.000	0.000	0.0000	0.000	0.000

223	0.00	0.000	0.006	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.006	0.1743	0.0000	0.000	0.000	0.0000	0.000	0.000
225	1.03	0.091	0.009	0.2260	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.11	0.000	0.196	0.2212	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.294	0.2049	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.283	0.1892	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.198	0.1781	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.080	0.1737	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.062	0.1702	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.052	0.1673	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.046	0.1648	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.07	0.000	0.045	0.1662	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.038	0.1641	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.37	0.000	0.039	0.1825	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.24	0.000	0.037	0.1937	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.295	0.1774	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.032	0.1756	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.82	0.028	0.034	0.2178	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.16	0.000	0.266	0.2119	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.05	0.000	0.271	0.1996	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.71	0.026	0.249	0.2238	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.259	0.2094	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.280	0.1939	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.277	0.1785	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.201	0.1674	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.083	0.1627	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.064	0.1592	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.054	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.047	0.1536	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.043	0.1512	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.039	0.1490	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.037	0.1470	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.034	0.1451	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.83	0.021	0.037	0.1880	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.31	0.000	0.035	0.2033	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.253	0.1892	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.030	0.1876	0.0000	0.000	0.000	0.0000	0.000	0.000
260	1.00	0.090	0.033	0.2363	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.26	0.000	0.219	0.2386	0.0000	0.000	0.000	0.0000	0.000	0.000
262	1.48	0.421	0.220	0.2852	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.16	0.000	0.200	0.2830	0.0000	0.000	0.000	0.0000	0.000	0.000
264	1.43	0.412	0.237	0.3048	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.251	0.2807	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.242	0.2607	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.238	0.2435	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.16	0.000	0.239	0.2372	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.232	0.2218	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.76	0.019	0.243	0.2470	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.241	0.2317	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.253	0.2160	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.225	0.2015	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.188	0.1894	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.083	0.1832	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.064	0.1785	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.054	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.047	0.1713	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.043	0.1684	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.039	0.1657	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.037	0.1633	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.034	0.1611	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.033	0.1589	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.031	0.1569	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.00	0.000	0.030	0.1550	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.028	0.1532	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.027	0.1515	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.026	0.1499	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.025	0.1483	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.025	0.1468	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.024	0.1454	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.023	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.023	0.1426	0.0000	0.000	0.000	0.0000	0.000	0.000

294		0.00	0.000	0.022	0.1412	0.0000	0.000	0.000	0.0000	0.000	0.000
295		0.00	0.000	0.022	0.1399	0.0000	0.000	0.000	0.0000	0.000	0.000
296		0.00	0.000	0.021	0.1386	0.0000	0.000	0.000	0.0000	0.000	0.000
297		0.00	0.000	0.021	0.1374	0.0000	0.000	0.000	0.0000	0.000	0.000
298		0.00	0.000	0.020	0.1361	0.0000	0.000	0.000	0.0000	0.000	0.000
299		0.00	0.000	0.020	0.1349	0.0000	0.000	0.000	0.0000	0.000	0.000
300		0.00	0.000	0.019	0.1337	0.0000	0.000	0.000	0.0000	0.000	0.000
301		0.00	0.000	0.019	0.1325	0.0000	0.000	0.000	0.0000	0.000	0.000
302		0.00	0.000	0.019	0.1313	0.0000	0.000	0.000	0.0000	0.000	0.000
303		0.00	0.000	0.018	0.1302	0.0000	0.000	0.000	0.0000	0.000	0.000
304		0.00	0.000	0.018	0.1291	0.0000	0.000	0.000	0.0000	0.000	0.000
305		0.00	0.000	0.018	0.1282	0.0000	0.000	0.000	0.0000	0.000	0.000
306		0.00	0.000	0.018	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
307		0.00	0.000	0.017	0.1262	0.0000	0.000	0.000	0.0000	0.000	0.000
308		0.00	0.000	0.017	0.1253	0.0000	0.000	0.000	0.0000	0.000	0.000
309		0.00	0.000	0.017	0.1243	0.0000	0.000	0.000	0.0000	0.000	0.000
310		0.00	0.000	0.017	0.1234	0.0000	0.000	0.000	0.0000	0.000	0.000
311		0.00	0.000	0.016	0.1225	0.0000	0.000	0.000	0.0000	0.000	0.000
312		0.00	0.000	0.016	0.1216	0.0000	0.000	0.000	0.0000	0.000	0.000
313		0.03	0.000	0.021	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
314		0.00	0.000	0.016	0.1212	0.0000	0.000	0.000	0.0000	0.000	0.000
315		0.00	0.000	0.016	0.1204	0.0000	0.000	0.000	0.0000	0.000	0.000
316		0.00	0.000	0.015	0.1195	0.0000	0.000	0.000	0.0000	0.000	0.000
317		0.00	0.000	0.015	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
318		0.00	0.000	0.015	0.1178	0.0000	0.000	0.000	0.0000	0.000	0.000
319		0.00	0.000	0.015	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
320		0.00	0.000	0.015	0.1158	0.0000	0.000	0.000	0.0000	0.000	0.000
321		0.00	0.000	0.015	0.1147	0.0000	0.000	0.000	0.0000	0.000	0.000
322		0.00	0.000	0.014	0.1139	0.0000	0.000	0.000	0.0000	0.000	0.000
323		0.96	0.041	0.017	0.1638	0.0000	0.000	0.000	0.0000	0.000	0.000
324		0.00	0.000	0.014	0.1630	0.0000	0.000	0.000	0.0000	0.000	0.000
325		0.00	0.000	0.014	0.1622	0.0000	0.000	0.000	0.0000	0.000	0.000
326		0.00	0.000	0.014	0.1615	0.0000	0.000	0.000	0.0000	0.000	0.000
327		0.00	0.000	0.014	0.1607	0.0000	0.000	0.000	0.0000	0.000	0.000
328		0.00	0.000	0.014	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
329		0.00	0.000	0.013	0.1592	0.0000	0.000	0.000	0.0000	0.000	0.000
330		0.00	0.000	0.013	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
331		0.00	0.000	0.013	0.1577	0.0000	0.000	0.000	0.0000	0.000	0.000
332		0.00	0.000	0.013	0.1570	0.0000	0.000	0.000	0.0000	0.000	0.000
333		0.00	0.000	0.013	0.1563	0.0000	0.000	0.000	0.0000	0.000	0.000
334		0.00	0.000	0.013	0.1556	0.0000	0.000	0.000	0.0000	0.000	0.000
335		0.00	0.000	0.013	0.1549	0.0000	0.000	0.000	0.0000	0.000	0.000
336		0.00	0.000	0.013	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
337		0.00	0.000	0.013	0.1535	0.0000	0.000	0.000	0.0000	0.000	0.000
338		0.00	0.000	0.012	0.1528	0.0000	0.000	0.000	0.0000	0.000	0.000
339		0.01	0.000	0.014	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
340		0.00	0.000	0.012	0.1518	0.0000	0.000	0.000	0.0000	0.000	0.000
341		0.00	0.000	0.012	0.1511	0.0000	0.000	0.000	0.0000	0.000	0.000
342		0.06	0.000	0.014	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
343		0.01	0.000	0.014	0.1535	0.0000	0.000	0.000	0.0000	0.000	0.000
344		0.04	0.000	0.014	0.1549	0.0000	0.000	0.000	0.0000	0.000	0.000
345		0.00	0.000	0.012	0.1543	0.0000	0.000	0.000	0.0000	0.000	0.000
346		0.00	0.000	0.012	0.1536	0.0000	0.000	0.000	0.0000	0.000	0.000
347	*	0.00	0.000	0.012	0.1530	0.0000	0.000	0.000	0.0000	0.000	0.000
348	*	0.07	0.000	0.056	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
349		0.00	0.000	0.012	0.1531	0.0000	0.000	0.000	0.0000	0.000	0.000
350		0.00	0.000	0.012	0.1524	0.0000	0.000	0.000	0.0000	0.000	0.000
351		0.00	0.000	0.011	0.1518	0.0000	0.000	0.000	0.0000	0.000	0.000
352		0.00	0.000	0.011	0.1512	0.0000	0.000	0.000	0.0000	0.000	0.000
353		0.05	0.000	0.013	0.1532	0.0000	0.000	0.000	0.0000	0.000	0.000
354	*	0.02	0.000	0.031	0.1526	0.0000	0.000	0.000	0.0000	0.000	0.000
355	*	0.00	0.000	0.011	0.1520	0.0000	0.000	0.000	0.0000	0.000	0.000
356		0.12	0.000	0.013	0.1579	0.0000	0.000	0.000	0.0000	0.000	0.000
357		0.07	0.000	0.013	0.1611	0.0000	0.000	0.000	0.0000	0.000	0.000
358		0.02	0.000	0.013	0.1615	0.0000	0.000	0.000	0.0000	0.000	0.000
359		0.04	0.000	0.013	0.1630	0.0000	0.000	0.000	0.0000	0.000	0.000
360		0.04	0.000	0.013	0.1645	0.0000	0.000	0.000	0.0000	0.000	0.000
361		0.06	0.000	0.013	0.1672	0.0000	0.000	0.000	0.0000	0.000	0.000
362		0.01	0.000	0.012	0.1670	0.0000	0.000	0.000	0.0000	0.000	0.000
363		0.00	0.000	0.011	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
364		0.00	0.000	0.011	0.1658	0.0000	0.000	0.000	0.0000	0.000	0.000

365	0.00	0.000	0.011	0.1653	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	0.17	0.02	0.59	0.30	0.02
	1.17	3.85	6.39	0.00	0.99	0.62
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.144	0.963	0.000	0.041	0.000
EVAPOTRANSPIRATION	0.302	0.242	0.173	0.042	0.141	0.149
	0.437	2.861	4.845	1.105	0.457	0.445
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.12	4468878.359	100.00
RUNOFF	1.147	362923.308	8.12
EVAPOTRANSPIRATION	11.199	3544555.602	79.32
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		

DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 9	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 8	0.0000		
CHANGE IN WATER STORAGE	1.774	561399.516	12.56
SOIL WATER AT START OF YEAR	130.313	41243013.594	
SOIL WATER AT END OF YEAR	132.086	41804413.110	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.067	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 8
DRAIN #2: LATERAL DRAINAGE FROM LAYER 7 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 9

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DAILY OUTPUT FOR YEAR 2

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.010	0.1647	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.010	0.1641	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.010	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.010	0.1629	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.010	0.1624	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.010	0.1618	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.010	0.1612	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.010	0.1607	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.010	0.1601	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.010	0.1596	0.0000	0.000	0.000	0.0000	0.000	0.000
11	*		0.92	0.000	0.056	0.1607	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.046	0.1730	0.0000	0.000	0.000	0.0000	0.000	0.000
13	*		0.00	0.000	0.058	0.1741	0.0000	0.000	0.000	0.0000	0.000	0.000
14	*		0.00	0.000	0.059	0.1752	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.066	0.1763	0.0000	0.000	0.000	0.0000	0.000	0.000
16			0.00	0.000	0.061	0.1902	0.0000	0.000	0.000	0.0000	0.000	0.000
17			0.00	0.000	0.032	0.1896	0.0000	0.000	0.000	0.0000	0.000	0.000
18			0.00	0.000	0.010	0.1891	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.00	0.000	0.010	0.1885	0.0000	0.000	0.000	0.0000	0.000	0.000
20			0.00	0.000	0.010	0.1880	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.00	0.000	0.010	0.1875	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.010	0.1869	0.0000	0.000	0.000	0.0000	0.000	0.000
23			0.00	0.000	0.010	0.1864	0.0000	0.000	0.000	0.0000	0.000	0.000

24	0.00	0.000	0.010	0.1858	0.0000	0.000	0.000	0.0000	0.000	0.000
25	0.00	0.000	0.010	0.1853	0.0000	0.000	0.000	0.0000	0.000	0.000
26	0.00	0.000	0.010	0.1848	0.0000	0.000	0.000	0.0000	0.000	0.000
27	0.00	0.000	0.010	0.1842	0.0000	0.000	0.000	0.0000	0.000	0.000
28	0.00	0.000	0.009	0.1837	0.0000	0.000	0.000	0.0000	0.000	0.000
29	0.00	0.000	0.009	0.1832	0.0000	0.000	0.000	0.0000	0.000	0.000
30	0.00	0.000	0.009	0.1827	0.0000	0.000	0.000	0.0000	0.000	0.000
31	0.00	0.000	0.009	0.1822	0.0000	0.000	0.000	0.0000	0.000	0.000
32	0.00	0.000	0.009	0.1816	0.0000	0.000	0.000	0.0000	0.000	0.000
33	0.00	0.000	0.009	0.1811	0.0000	0.000	0.000	0.0000	0.000	0.000
34	0.00	0.000	0.009	0.1806	0.0000	0.000	0.000	0.0000	0.000	0.000
35	0.00	0.000	0.009	0.1801	0.0000	0.000	0.000	0.0000	0.000	0.000
36	0.00	0.000	0.009	0.1796	0.0000	0.000	0.000	0.0000	0.000	0.000
37	0.00	0.000	0.009	0.1791	0.0000	0.000	0.000	0.0000	0.000	0.000
38	0.00	0.000	0.009	0.1786	0.0000	0.000	0.000	0.0000	0.000	0.000
39	0.00	0.000	0.009	0.1781	0.0000	0.000	0.000	0.0000	0.000	0.000
40	0.00	0.000	0.009	0.1776	0.0000	0.000	0.000	0.0000	0.000	0.000
41	0.00	0.000	0.009	0.1771	0.0000	0.000	0.000	0.0000	0.000	0.000
42	0.00	0.000	0.009	0.1766	0.0000	0.000	0.000	0.0000	0.000	0.000
43	0.00	0.000	0.009	0.1761	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.00	0.000	0.009	0.1756	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.00	0.000	0.009	0.1751	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.00	0.000	0.009	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.009	0.1741	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.13	0.000	0.010	0.1808	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.01	0.000	0.010	0.1808	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.009	0.1803	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.009	0.1799	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.009	0.1794	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.009	0.1789	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.009	0.1784	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.19	0.000	0.010	0.1885	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.12	0.000	0.010	0.1946	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.161	0.1856	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.008	0.1852	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.008	0.1847	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.008	0.1842	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.008	0.1838	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.008	0.1833	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.008	0.1828	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.12	0.000	0.009	0.1890	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.09	0.000	0.009	0.1935	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.230	0.1807	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.07	0.000	0.009	0.1841	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.008	0.1836	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.008	0.1832	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.008	0.1827	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.008	0.1823	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.008	0.1818	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.008	0.1814	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.008	0.1809	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.008	0.1805	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.02	0.000	0.009	0.1811	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.008	0.1806	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.008	0.1802	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.008	0.1798	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.008	0.1793	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.008	0.1789	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.008	0.1785	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.008	0.1780	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.008	0.1776	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.008	0.1772	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.008	0.1767	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.008	0.1763	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.008	0.1759	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.008	0.1755	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.008	0.1750	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.008	0.1746	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.008	0.1742	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.008	0.1738	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.008	0.1733	0.0000	0.000	0.000	0.0000	0.000	0.000

95	0.00	0.000	0.008	0.1729	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.008	0.1725	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.007	0.1721	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.007	0.1717	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.007	0.1713	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.007	0.1709	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.007	0.1704	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.007	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.007	0.1696	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.007	0.1692	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.007	0.1688	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.007	0.1684	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.007	0.1680	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.007	0.1676	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.007	0.1672	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.007	0.1668	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.007	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.007	0.1660	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.007	0.1656	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.007	0.1652	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.007	0.1648	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.007	0.1644	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.007	0.1640	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.007	0.1636	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.007	0.1632	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.007	0.1628	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.007	0.1624	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.007	0.1620	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.007	0.1616	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.007	0.1612	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.007	0.1609	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.007	0.1605	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.007	0.1601	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.007	0.1597	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.007	0.1593	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.007	0.1589	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.007	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.007	0.1582	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.007	0.1578	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.007	0.1574	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.007	0.1570	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.007	0.1567	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.007	0.1563	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.007	0.1559	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.007	0.1555	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.007	0.1552	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.007	0.1548	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.007	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.13	0.000	0.009	0.1611	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.007	0.1608	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.007	0.1604	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.007	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.007	0.1596	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.007	0.1593	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.007	0.1589	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.007	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.007	0.1582	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.007	0.1578	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.007	0.1575	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.12	0.000	0.009	0.1636	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.15	0.000	0.009	0.1714	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.006	0.1710	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.006	0.1707	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.006	0.1703	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.006	0.1700	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.006	0.1696	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.006	0.1692	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.006	0.1689	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.006	0.1685	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.006	0.1682	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.18	0.000	0.010	0.1776	0.0000	0.000	0.000	0.0000	0.000	0.000

166	0.05	0.000	0.010	0.1799	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.006	0.1795	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.006	0.1792	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.006	0.1788	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.006	0.1785	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.006	0.1781	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.006	0.1778	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.006	0.1774	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.19	0.000	0.010	0.1874	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.006	0.1871	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.006	0.1868	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.006	0.1864	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.006	0.1861	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.006	0.1857	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.13	0.000	0.010	0.1924	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.55	0.004	0.312	0.2054	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.03	0.000	0.315	0.1895	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.201	0.1784	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.083	0.1738	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.063	0.1702	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.01	0.000	0.057	0.1676	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.40	0.000	0.051	0.1870	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.043	0.1846	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.039	0.1824	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.037	0.1804	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.034	0.1785	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.033	0.1767	0.0000	0.000	0.000	0.0000	0.000	0.000
193	1.20	0.151	0.035	0.2330	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.350	0.2135	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.00	0.000	0.320	0.1958	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.324	0.1778	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.194	0.1670	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.080	0.1625	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.062	0.1591	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.052	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.00	0.000	0.046	0.1536	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.041	0.1513	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.038	0.1492	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.035	0.1472	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.033	0.1454	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.00	0.000	0.032	0.1436	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.030	0.1420	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.01	0.000	0.032	0.1407	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.027	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.05	0.000	0.030	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.50	0.000	0.030	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.025	0.1651	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.024	0.1637	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.023	0.1625	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.023	0.1612	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.022	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.021	0.1588	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.021	0.1576	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.021	0.1564	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.021	0.1553	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.020	0.1541	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.11	0.000	0.024	0.1589	0.0000	0.000	0.000	0.0000	0.000	0.000
223	1.64	0.314	0.024	0.2312	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.276	0.2159	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.18	0.000	0.197	0.2149	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.34	0.000	0.312	0.2165	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.34	0.000	0.288	0.2194	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.313	0.2019	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.308	0.1848	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.201	0.1737	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.083	0.1691	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.064	0.1655	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.054	0.1625	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.00	0.000	0.047	0.1599	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.043	0.1575	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.00	0.000	0.039	0.1553	0.0000	0.000	0.000	0.0000	0.000	0.000

237	0.00	0.000	0.037	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.034	0.1514	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.033	0.1496	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.78	0.013	0.036	0.1902	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.030	0.1886	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.028	0.1870	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.00	0.000	0.027	0.1855	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.026	0.1840	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.025	0.1826	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.024	0.1813	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.023	0.1800	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.023	0.1787	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.022	0.1775	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.021	0.1763	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.12	0.000	0.026	0.1815	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.021	0.1804	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.021	0.1792	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.02	0.000	0.025	0.1789	0.0000	0.000	0.000	0.0000	0.000	0.000
255	2.57	0.921	0.025	0.2691	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.273	0.2539	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.00	0.000	0.276	0.2386	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.217	0.2266	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.213	0.2147	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.212	0.2030	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.239	0.1897	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.201	0.1786	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.083	0.1735	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.064	0.1690	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.054	0.1651	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.047	0.1615	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.043	0.1583	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.00	0.000	0.039	0.1552	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.037	0.1523	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.034	0.1498	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.033	0.1474	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.031	0.1453	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.030	0.1432	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.028	0.1413	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.027	0.1395	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.026	0.1377	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.025	0.1360	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.025	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.23	0.000	0.030	0.1454	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.023	0.1439	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.023	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.022	0.1410	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.022	0.1397	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.021	0.1383	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.34	0.000	0.025	0.1557	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.020	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.020	0.1532	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.019	0.1520	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.019	0.1508	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.019	0.1496	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.018	0.1485	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.018	0.1474	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.018	0.1463	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.00	0.000	0.018	0.1453	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.017	0.1443	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.017	0.1433	0.0000	0.000	0.000	0.0000	0.000	0.000
297	0.00	0.000	0.017	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.017	0.1415	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.016	0.1406	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.016	0.1397	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.016	0.1388	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.016	0.1379	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.00	0.000	0.016	0.1370	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.03	0.000	0.021	0.1375	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.00	0.000	0.015	0.1367	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.015	0.1359	0.0000	0.000	0.000	0.0000	0.000	0.000
307	0.00	0.000	0.015	0.1350	0.0000	0.000	0.000	0.0000	0.000	0.000

308		0.00	0.000	0.015	0.1342	0.0000	0.000	0.000	0.0000	0.000	0.000
309		0.00	0.000	0.015	0.1334	0.0000	0.000	0.000	0.0000	0.000	0.000
310		0.00	0.000	0.014	0.1326	0.0000	0.000	0.000	0.0000	0.000	0.000
311		0.00	0.000	0.014	0.1318	0.0000	0.000	0.000	0.0000	0.000	0.000
312		0.00	0.000	0.014	0.1310	0.0000	0.000	0.000	0.0000	0.000	0.000
313		0.00	0.000	0.014	0.1302	0.0000	0.000	0.000	0.0000	0.000	0.000
314		0.00	0.000	0.014	0.1295	0.0000	0.000	0.000	0.0000	0.000	0.000
315		0.00	0.000	0.014	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
316		0.00	0.000	0.014	0.1280	0.0000	0.000	0.000	0.0000	0.000	0.000
317		0.00	0.000	0.013	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
318		0.00	0.000	0.013	0.1265	0.0000	0.000	0.000	0.0000	0.000	0.000
319		0.00	0.000	0.013	0.1257	0.0000	0.000	0.000	0.0000	0.000	0.000
320		0.00	0.000	0.013	0.1250	0.0000	0.000	0.000	0.0000	0.000	0.000
321		0.00	0.000	0.013	0.1243	0.0000	0.000	0.000	0.0000	0.000	0.000
322		0.00	0.000	0.013	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
323		0.00	0.000	0.013	0.1229	0.0000	0.000	0.000	0.0000	0.000	0.000
324		0.00	0.000	0.013	0.1222	0.0000	0.000	0.000	0.0000	0.000	0.000
325		0.00	0.000	0.012	0.1215	0.0000	0.000	0.000	0.0000	0.000	0.000
326		0.00	0.000	0.012	0.1208	0.0000	0.000	0.000	0.0000	0.000	0.000
327		0.00	0.000	0.012	0.1201	0.0000	0.000	0.000	0.0000	0.000	0.000
328		0.00	0.000	0.012	0.1194	0.0000	0.000	0.000	0.0000	0.000	0.000
329		0.00	0.000	0.012	0.1187	0.0000	0.000	0.000	0.0000	0.000	0.000
330		0.00	0.000	0.012	0.1180	0.0000	0.000	0.000	0.0000	0.000	0.000
331		0.00	0.000	0.012	0.1174	0.0000	0.000	0.000	0.0000	0.000	0.000
332		0.00	0.000	0.012	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
333		0.00	0.000	0.012	0.1161	0.0000	0.000	0.000	0.0000	0.000	0.000
334		0.00	0.000	0.011	0.1155	0.0000	0.000	0.000	0.0000	0.000	0.000
335		0.00	0.000	0.011	0.1146	0.0000	0.000	0.000	0.0000	0.000	0.000
336		0.00	0.000	0.012	0.1139	0.0000	0.000	0.000	0.0000	0.000	0.000
337		0.00	0.000	0.012	0.1133	0.0000	0.000	0.000	0.0000	0.000	0.000
338		0.00	0.000	0.011	0.1127	0.0000	0.000	0.000	0.0000	0.000	0.000
339		0.00	0.000	0.011	0.1120	0.0000	0.000	0.000	0.0000	0.000	0.000
340		0.00	0.000	0.011	0.1114	0.0000	0.000	0.000	0.0000	0.000	0.000
341		0.00	0.000	0.011	0.1108	0.0000	0.000	0.000	0.0000	0.000	0.000
342		0.00	0.000	0.011	0.1102	0.0000	0.000	0.000	0.0000	0.000	0.000
343		0.00	0.000	0.011	0.1095	0.0000	0.000	0.000	0.0000	0.000	0.000
344	*	0.00	0.000	0.011	0.1089	0.0000	0.000	0.000	0.0000	0.000	0.000
345		0.04	0.000	0.013	0.1104	0.0000	0.000	0.000	0.0000	0.000	0.000
346	*	0.08	0.000	0.067	0.1111	0.0000	0.000	0.000	0.0000	0.000	0.000
347		0.00	0.000	0.011	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
348		0.00	0.000	0.011	0.1099	0.0000	0.000	0.000	0.0000	0.000	0.000
349		0.00	0.000	0.011	0.1093	0.0000	0.000	0.000	0.0000	0.000	0.000
350		0.00	0.000	0.011	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
351		0.00	0.000	0.011	0.1081	0.0000	0.000	0.000	0.0000	0.000	0.000
352		0.00	0.000	0.011	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
353	*	0.00	0.000	0.011	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
354		0.00	0.000	0.010	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
355		0.00	0.000	0.004	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
356		0.00	0.000	0.002	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
357		0.00	0.000	0.002	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
358		0.00	0.000	0.002	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
359		0.00	0.000	0.002	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
360		0.00	0.000	0.002	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
361	*	0.00	0.000	0.002	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
362	*	0.00	0.000	0.002	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
363		0.00	0.000	0.002	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
364		0.00	0.000	0.002	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
365		0.00	0.000	0.002	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 2

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION	0.92	0.45	0.30	0.00	0.13	1.37
	2.20	3.39	2.71	0.60	0.00	0.12
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.004
	0.151	0.328	0.921	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.616	0.404	0.474	0.220	0.213	0.517
	2.774	2.696	2.406	0.636	0.397	0.301
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.19	3858047.252	100.00
RUNOFF	1.405	444530.138	11.52
EVAPOTRANSPIRATION	11.653	3688068.083	95.59
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 9	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 8	0.0000		
CHANGE IN WATER STORAGE	-0.867	-274550.911	-7.12
SOIL WATER AT START OF YEAR	132.086	41804413.110	
SOIL WATER AT END OF YEAR	131.219	41529862.199	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00

SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.058	0.00

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AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.46	0.31	0.16	0.29	0.21	0.70
	1.69	3.62	4.55	0.30	0.49	0.37
STD. DEVIATIONS	0.65	0.20	0.20	0.42	0.12	0.95
	0.73	0.33	2.60	0.42	0.70	0.35
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.000	0.002
	0.076	0.236	0.942	0.000	0.020	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.003
	0.107	0.130	0.029	0.000	0.029	0.000
EVAPOTRANSPIRATION						
TOTALS	0.459	0.323	0.323	0.131	0.177	0.333
	1.605	2.778	3.626	0.871	0.427	0.373
STD. DEVIATIONS	0.222	0.115	0.213	0.125	0.051	0.260
	1.653	0.117	1.724	0.331	0.042	0.102
PERCOLATION/LEAKAGE THROUGH LAYER 6						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 7						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 9						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 6

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

DAILY AVERAGE HEAD ON TOP OF LAYER 8

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 2

	INCHES		CU. FEET	PERCENT
PRECIPITATION	13.15	(1.365)	4163462.8	100.00
RUNOFF	1.276	(0.1823)	403726.72	9.697
EVAPOTRANSPIRATION	11.426	(0.3206)	3616311.84	86.858
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.00000	(0.00000)	0.000	0.00000
AVERAGE HEAD ON TOP OF LAYER 6	0.000	(0.000)		
LATERAL DRAINAGE COLLECTED FROM LAYER 7	0.00000	(0.00000)	0.000	0.00000
PERCOLATION/LEAKAGE THROUGH LAYER 9	0.00000	(0.00000)	0.000	0.00000
AVERAGE HEAD ON TOP OF LAYER 8	0.000	(0.000)		
CHANGE IN WATER STORAGE	0.453	(1.8677)	143424.30	3.445

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 2 and their dates (DDDYYYY)

	(INCHES)	(CU. FT.)	
PRECIPITATION	2.57	813386.50014	2550002
RUNOFF	0.921	291636.90809	2550002
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000000	0.00000	0
AVERAGE HEAD ON TOP OF LAYER 6	0.000		
DRAINAGE COLLECTED FROM LAYER 7	0.00000	0.00000	0

PERCOLATION/LEAKAGE THROUGH LAYER 9	0.000000	0.00000	0
AVERAGE HEAD ON TOP OF LAYER 8	0.000		
MAXIMUM HEAD ON TOP OF LAYER 8	0.000		
LOCATION OF MAXIMUM HEAD IN LAYER 7 (DISTANCE FROM DRAIN)	0.0 FEET		
SNOW WATER	0.90	284943.2085	110002

MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.3048
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.1040

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

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FINAL WATER STORAGE AT END OF YEAR 2

LAYER	(INCHES)	(VOL/VOL)
1	1.2608	0.1051
2	4.1359	0.1723
3	2.2950	0.1912
4	117.2286	0.1656
5	4.0728	0.1697
6	0.0000	0.0000
7	0.0020	0.0100
8	0.0000	0.0000
9	0.1875	0.7500
SNOW WATER	0.000	

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Attachment A-7
Tier II, Simulation 10-1
Alternate Liner with Soil Type 7
Alternate Cover with Soil Type 7

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**              HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE                **
**                HELP MODEL VERSION 3.07 (1 November 1997)                  **
**                  DEVELOPED BY ENVIRONMENTAL LABORATORY                    **
**                    USAE WATERWAYS EXPERIMENT STATION                      **
**              FOR USEPA RISK REDUCTION ENGINEERING LABORATORY               **
**                                                                           **
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PRECIPITATION DATA FILE:    C:\WHI\VHELP22\data\P5078.VHP\_weather1.dat
TEMPERATURE DATA FILE:      C:\WHI\VHELP22\data\P5078.VHP\_weather2.dat
SOLAR RADIATION DATA FILE:  C:\WHI\VHELP22\data\P5078.VHP\_weather3.dat
EVAPOTRANSPIRATION DATA:    C:\WHI\VHELP22\data\P5078.VHP\_weather4.dat
SOIL AND DESIGN DATA FILE:  C:\WHI\VHELP22\data\P5078.VHP\I_391949.inp
OUTPUT DATA FILE:           C:\WHI\VHELP22\data\P5078.VHP\O_391949.prt


TIME:  14:51     DATE:  10/17/2013


*******************************************************************************

     TITLE:  S-10

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     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
              WERE SPECIFIED BY THE USER.


                                LAYER  1
                                --------

                  TYPE 1 - VERTICAL PERCOLATION LAYER
                      MATERIAL TEXTURE NUMBER   7
        THICKNESS                     =     30.48   CM  (12 in.)
        POROSITY                      =      0.4730 VOL/VOL
        FIELD CAPACITY                =      0.2220 VOL/VOL
        WILTING POINT                 =      0.1040 VOL/VOL
        INITIAL SOIL WATER CONTENT    =      0.1051 VOL/VOL
        EFFECTIVE SAT. HYD. COND.     =  0.520000000000E-03 CM/SEC
      NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  1.60
               FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.



                                LAYER  2
                                --------

                  TYPE 1 - VERTICAL PERCOLATION LAYER
                      MATERIAL TEXTURE NUMBER   7
        THICKNESS                     =     60.96   CM  (24 in.)
        POROSITY                      =      0.4730 VOL/VOL
        FIELD CAPACITY                =      0.2220 VOL/VOL
        WILTING POINT                 =      0.1040 VOL/VOL
        INITIAL SOIL WATER CONTENT    =      0.1723 VOL/VOL
        EFFECTIVE SAT. HYD. COND.     =  0.520000000000E-03 CM/SEC
```

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 7

THICKNESS	=	30.48	CM (12 in.)
POROSITY	=	0.4730	VOL/VOL
FIELD CAPACITY	=	0.2220	VOL/VOL
WILTING POINT	=	0.1040	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1912	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.520000000000E-03	CM/SEC

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 7

THICKNESS	=	1798.32	CM (59 ft.)
POROSITY	=	0.4730	VOL/VOL
FIELD CAPACITY	=	0.2220	VOL/VOL
WILTING POINT	=	0.1040	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1656	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.520000000000E-03	CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 7

THICKNESS	=	60.96	CM (24 in.)
POROSITY	=	0.4730	VOL/VOL
FIELD CAPACITY	=	0.2220	VOL/VOL
WILTING POINT	=	0.1040	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.1697	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.520000000000E-03	CM/SEC

LAYER 6

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.15	CM (0.06 in.)
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.200000000000E-12	CM/SEC
FML PINHOLE DENSITY	=	2.47	HOLES/HECTARE (1 hole/acre)
FML INSTALLATION DEFECTS	=	9.88	HOLES/HECTARE (4 hole/acre)
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 7

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 20

THICKNESS	=	0.50	CM (0.20 in.)
POROSITY	=	0.8500	VOL/VOL
FIELD CAPACITY	=	0.0100	VOL/VOL
WILTING POINT	=	0.0050	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0100	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	10.0000000000	CM/SEC
SLOPE	=	2.80	PERCENT
DRAINAGE LENGTH	=	91.4	METERS (300 ft.)

LAYER 8

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.15	CM (0.06 in.)
POROSITY	=	0.0000	VOL/VOL
FIELD CAPACITY	=	0.0000	VOL/VOL
WILTING POINT	=	0.0000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.200000000000E-12	CM/SEC
FML PINHOLE DENSITY	=	2.47	HOLES/HECTARE (1 hole/acre)
FML INSTALLATION DEFECTS	=	9.88	HOLES/HECTARE (4 hole/acre)
FML PLACEMENT QUALITY	=	3 - GOOD	

LAYER 9

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 17

THICKNESS	=	0.64	CM (0.25 in.)
POROSITY	=	0.7500	VOL/VOL
FIELD CAPACITY	=	0.7470	VOL/VOL
WILTING POINT	=	0.4000	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.7500	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.300000000000E-08	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE # 7 WITH A POOR STAND OF GRASS, A SURFACE SLOPE OF 25.% AND A SLOPE LENGTH OF 30. METERS (100 ft.)

SCS RUNOFF CURVE NUMBER	=	85.07	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	35.2845	HECTARES (87.19 acres)
EVAPORATIVE ZONE DEPTH	=	71.1	CM (28 in.)
INITIAL WATER IN EVAPORATIVE ZONE	=	10.206	CM (4.02 in.)
UPPER LIMIT OF EVAPORATIVE STORAGE	=	33.640	CM (13.24 in.)
LOWER LIMIT OF EVAPORATIVE STORAGE	=	7.396	CM (2.91 in.)
INITIAL SNOW WATER	=	0.000	CM (0.00 in.)
INITIAL WATER IN LAYER MATERIALS	=	328.163	CM (129.20 in.)
TOTAL INITIAL WATER	=	328.163	CM (129.20 in.)
TOTAL SUBSURFACE INFLOW	=	0.00	MM/YR (0.00 in./yr)

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM EL PASO TX

STATION LATITUDE	=	31.85	DEGREES
MAXIMUM LEAF AREA INDEX	=	0.80	
START OF GROWING SEASON (JULIAN DATE)	=	66	
END OF GROWING SEASON (JULIAN DATE)	=	315	
EVAPORATIVE ZONE DEPTH	=	28.0	INCHES
AVERAGE ANNUAL WIND SPEED	=	9.20	MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	40.00	%
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	27.00	%

AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 46.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 48.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.60	0.52	0.18	0.30	0.73	0.44
2.39	3.48	2.38	0.58	0.66	0.23

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR EL PASO TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
46.40	50.30	58.30	65.60	75.00	83.20
83.00	80.10	74.60	65.80	54.30	45.80

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR DNCS NM
AND STATION LATITUDE = 32.78 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 8
DRAIN #2: LATERAL DRAINAGE FROM LAYER 7 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 9

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DAILY OUTPUT FOR YEAR 3

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.019	0.1428	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.018	0.1422	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.018	0.1415	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.018	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.018	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.017	0.1396	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.017	0.1390	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.017	0.1384	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.017	0.1378	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.016	0.1372	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.016	0.1367	0.0000	0.000	0.000	0.0000	0.000	0.000

12	0.00	0.000	0.016	0.1361	0.0000	0.000	0.000	0.0000	0.000	0.000
13	0.00	0.000	0.016	0.1355	0.0000	0.000	0.000	0.0000	0.000	0.000
14	0.00	0.000	0.016	0.1350	0.0000	0.000	0.000	0.0000	0.000	0.000
15	0.00	0.000	0.015	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
16	0.24	0.000	0.016	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
17	0.00	0.000	0.015	0.1419	0.0000	0.000	0.000	0.0000	0.000	0.000
18	0.00	0.000	0.015	0.1413	0.0000	0.000	0.000	0.0000	0.000	0.000
19	0.00	0.000	0.015	0.1408	0.0000	0.000	0.000	0.0000	0.000	0.000
20	0.00	0.000	0.015	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
21	0.00	0.000	0.014	0.1398	0.0000	0.000	0.000	0.0000	0.000	0.000
22	0.51	0.000	0.015	0.1575	0.0000	0.000	0.000	0.0000	0.000	0.000
23	0.00	0.000	0.014	0.1570	0.0000	0.000	0.000	0.0000	0.000	0.000
24	0.00	0.000	0.014	0.1565	0.0000	0.000	0.000	0.0000	0.000	0.000
25	0.00	0.000	0.014	0.1560	0.0000	0.000	0.000	0.0000	0.000	0.000
26	0.00	0.000	0.014	0.1555	0.0000	0.000	0.000	0.0000	0.000	0.000
27	0.00	0.000	0.014	0.1550	0.0000	0.000	0.000	0.0000	0.000	0.000
28	0.00	0.000	0.013	0.1545	0.0000	0.000	0.000	0.0000	0.000	0.000
29	0.00	0.000	0.013	0.1540	0.0000	0.000	0.000	0.0000	0.000	0.000
30	0.00	0.000	0.013	0.1536	0.0000	0.000	0.000	0.0000	0.000	0.000
31	0.00	0.000	0.013	0.1531	0.0000	0.000	0.000	0.0000	0.000	0.000
32	0.26	0.000	0.014	0.1619	0.0000	0.000	0.000	0.0000	0.000	0.000
33	0.00	0.000	0.013	0.1614	0.0000	0.000	0.000	0.0000	0.000	0.000
34	0.00	0.000	0.013	0.1610	0.0000	0.000	0.000	0.0000	0.000	0.000
35	0.00	0.000	0.013	0.1605	0.0000	0.000	0.000	0.0000	0.000	0.000
36	0.00	0.000	0.013	0.1601	0.0000	0.000	0.000	0.0000	0.000	0.000
37	0.00	0.000	0.012	0.1596	0.0000	0.000	0.000	0.0000	0.000	0.000
38	0.00	0.000	0.012	0.1592	0.0000	0.000	0.000	0.0000	0.000	0.000
39	0.00	0.000	0.012	0.1587	0.0000	0.000	0.000	0.0000	0.000	0.000
40	0.00	0.000	0.012	0.1583	0.0000	0.000	0.000	0.0000	0.000	0.000
41	0.00	0.000	0.012	0.1579	0.0000	0.000	0.000	0.0000	0.000	0.000
42	0.00	0.000	0.012	0.1574	0.0000	0.000	0.000	0.0000	0.000	0.000
43	0.00	0.000	0.012	0.1570	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.00	0.000	0.012	0.1566	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.00	0.000	0.012	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.00	0.000	0.012	0.1558	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.012	0.1553	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.00	0.000	0.012	0.1549	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.00	0.000	0.011	0.1545	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.011	0.1541	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.011	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.011	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.011	0.1529	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.011	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.00	0.000	0.011	0.1521	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.00	0.000	0.011	0.1517	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.011	0.1513	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.011	0.1509	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.011	0.1506	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.011	0.1502	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.15	0.000	0.011	0.1551	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.07	0.000	0.011	0.1572	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.011	0.1568	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.010	0.1565	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.010	0.1561	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.010	0.1557	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.010	0.1554	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.010	0.1550	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.010	0.1546	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.010	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.010	0.1539	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.010	0.1535	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.010	0.1531	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.010	0.1528	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.010	0.1524	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.010	0.1520	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.010	0.1517	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.05	0.000	0.011	0.1531	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.11	0.000	0.011	0.1566	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.010	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.010	0.1559	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.010	0.1555	0.0000	0.000	0.000	0.0000	0.000	0.000

83	0.02	0.000	0.011	0.1558	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.01	0.000	0.011	0.1558	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.010	0.1554	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.010	0.1550	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.011	0.1546	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.010	0.1543	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.01	0.000	0.011	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.010	0.1539	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.010	0.1535	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.011	0.1531	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.011	0.1527	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.011	0.1523	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.011	0.1519	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.011	0.1515	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.011	0.1511	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.011	0.1507	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.012	0.1503	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.012	0.1499	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.012	0.1495	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.012	0.1490	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.012	0.1486	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.013	0.1481	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.012	0.1477	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.013	0.1472	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.013	0.1467	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.014	0.1462	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.014	0.1457	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.015	0.1452	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.015	0.1446	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.016	0.1441	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.015	0.1435	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.017	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.017	0.1423	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.017	0.1417	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.018	0.1411	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.019	0.1404	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.11	0.000	0.021	0.1436	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.018	0.1430	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.020	0.1422	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.020	0.1415	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.021	0.1408	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.020	0.1401	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.021	0.1393	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.022	0.1385	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.46	0.000	0.025	0.1541	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.024	0.1532	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.024	0.1523	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.027	0.1514	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.027	0.1504	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.02	0.000	0.026	0.1502	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.025	0.1493	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.026	0.1484	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.029	0.1473	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.032	0.1462	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.032	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.035	0.1438	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.035	0.1425	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.07	0.000	0.039	0.1436	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.037	0.1423	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.042	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.041	0.1394	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.046	0.1377	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.047	0.1361	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.049	0.1343	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.050	0.1325	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.11	0.000	0.049	0.1347	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.057	0.1327	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.055	0.1307	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.060	0.1286	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.064	0.1263	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.068	0.1238	0.0000	0.000	0.000	0.0000	0.000	0.000

154	0.00	0.000	0.069	0.1214	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.070	0.1189	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.073	0.1162	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.064	0.1139	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.069	0.1115	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.061	0.1093	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.056	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.062	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.031	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.10	0.000	0.015	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.007	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.017	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.014	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.013	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.014	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.014	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.01	0.000	0.016	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.06	0.000	0.016	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.006	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.012	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.011	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.011	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.004	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.03	0.000	0.015	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.006	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.006	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.43	0.000	0.041	0.1179	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.03	0.000	0.184	0.1124	0.0000	0.000	0.000	0.0000	0.000	0.000
195	1.28	0.029	0.275	0.1473	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.05	0.000	0.312	0.1379	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.33	0.000	0.272	0.1400	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.346	0.1276	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.299	0.1170	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.226	0.1089	0.0000	0.000	0.000	0.0000	0.000	0.000
201	1.22	0.020	0.287	0.1415	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.48	0.000	0.194	0.1517	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.98	0.016	0.295	0.1756	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.322	0.1641	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.324	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.00	0.000	0.327	0.1408	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.347	0.1285	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.00	0.000	0.282	0.1184	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.10	0.000	0.290	0.1116	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.130	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.062	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.019	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.01	0.000	0.010	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000

225	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.19	0.000	0.021	0.1100	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.34	0.000	0.052	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.70	0.000	0.132	0.1406	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.29	0.000	0.153	0.1455	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.260	0.1362	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.235	0.1278	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.00	0.000	0.279	0.1179	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.277	0.1080	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.00	0.000	0.100	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.008	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.16	0.000	0.024	0.1089	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.027	0.1079	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.074	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.025	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.007	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.74	0.000	0.047	0.1288	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.130	0.1241	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.169	0.1181	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.164	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.00	0.000	0.157	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.060	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.010	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.44	0.000	0.072	0.1171	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.101	0.1135	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.142	0.1085	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.51	0.000	0.122	0.1223	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.097	0.1189	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.127	0.1143	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.19	0.000	0.144	0.1160	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.138	0.1111	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.102	0.1074	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.070	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.019	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.005	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000

296		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
297		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
298		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
299		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
300		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
301		0.02	0.000	0.020	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
302		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
303		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
304		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
305		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
306		0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
307		0.29	0.000	0.031	0.1133	0.0000	0.000	0.000	0.0000	0.000	0.000
308		0.00	0.000	0.047	0.1116	0.0000	0.000	0.000	0.0000	0.000	0.000
309		0.91	0.000	0.070	0.1416	0.0000	0.000	0.000	0.0000	0.000	0.000
310		0.08	0.000	0.062	0.1422	0.0000	0.000	0.000	0.0000	0.000	0.000
311		0.94	0.007	0.087	0.1725	0.0000	0.000	0.000	0.0000	0.000	0.000
312		0.23	0.000	0.080	0.1778	0.0000	0.000	0.000	0.0000	0.000	0.000
313		0.00	0.000	0.075	0.1751	0.0000	0.000	0.000	0.0000	0.000	0.000
314		0.00	0.000	0.072	0.1725	0.0000	0.000	0.000	0.0000	0.000	0.000
315		0.00	0.000	0.078	0.1697	0.0000	0.000	0.000	0.0000	0.000	0.000
316		0.00	0.000	0.084	0.1667	0.0000	0.000	0.000	0.0000	0.000	0.000
317		0.00	0.000	0.108	0.1629	0.0000	0.000	0.000	0.0000	0.000	0.000
318		0.00	0.000	0.090	0.1597	0.0000	0.000	0.000	0.0000	0.000	0.000
319		0.10	0.000	0.093	0.1599	0.0000	0.000	0.000	0.0000	0.000	0.000
320		0.09	0.000	0.110	0.1592	0.0000	0.000	0.000	0.0000	0.000	0.000
321		1.01	0.010	0.115	0.1908	0.0000	0.000	0.000	0.0000	0.000	0.000
322		0.56	0.000	0.110	0.2069	0.0000	0.000	0.000	0.0000	0.000	0.000
323		0.49	0.000	0.099	0.2209	0.0000	0.000	0.000	0.0000	0.000	0.000
324		0.03	0.000	0.094	0.2186	0.0000	0.000	0.000	0.0000	0.000	0.000
325		0.45	0.000	0.095	0.2313	0.0000	0.000	0.000	0.0000	0.000	0.000
326		0.00	0.000	0.072	0.2287	0.0000	0.000	0.000	0.0000	0.000	0.000
327		0.00	0.000	0.087	0.2256	0.0000	0.000	0.000	0.0000	0.000	0.000
328		0.00	0.000	0.078	0.2228	0.0000	0.000	0.000	0.0000	0.000	0.000
329		0.00	0.000	0.088	0.2197	0.0000	0.000	0.000	0.0000	0.000	0.000
330		0.00	0.000	0.101	0.2161	0.0000	0.000	0.000	0.0000	0.000	0.000
331		0.00	0.000	0.094	0.2127	0.0000	0.000	0.000	0.0000	0.000	0.000
332		0.00	0.000	0.073	0.2101	0.0000	0.000	0.000	0.0000	0.000	0.000
333		0.00	0.000	0.058	0.2080	0.0000	0.000	0.000	0.0000	0.000	0.000
334		0.00	0.000	0.070	0.2055	0.0000	0.000	0.000	0.0000	0.000	0.000
335		0.00	0.000	0.067	0.2032	0.0000	0.000	0.000	0.0000	0.000	0.000
336		0.00	0.000	0.078	0.2004	0.0000	0.000	0.000	0.0000	0.000	0.000
337		0.00	0.000	0.075	0.1977	0.0000	0.000	0.000	0.0000	0.000	0.000
338		0.00	0.000	0.070	0.1952	0.0000	0.000	0.000	0.0000	0.000	0.000
339		0.00	0.000	0.064	0.1929	0.0000	0.000	0.000	0.0000	0.000	0.000
340	*	0.00	0.000	0.042	0.1914	0.0000	0.000	0.000	0.0000	0.000	0.000
341	*	0.00	0.000	0.048	0.1897	0.0000	0.000	0.000	0.0000	0.000	0.000
342	*	0.00	0.000	0.052	0.1878	0.0000	0.000	0.000	0.0000	0.000	0.000
343	*	0.00	0.000	0.051	0.1860	0.0000	0.000	0.000	0.0000	0.000	0.000
344		0.00	0.000	0.067	0.1836	0.0000	0.000	0.000	0.0000	0.000	0.000
345		0.00	0.000	0.072	0.1811	0.0000	0.000	0.000	0.0000	0.000	0.000
346		0.00	0.000	0.064	0.1788	0.0000	0.000	0.000	0.0000	0.000	0.000
347		0.00	0.000	0.054	0.1769	0.0000	0.000	0.000	0.0000	0.000	0.000
348		0.00	0.000	0.047	0.1752	0.0000	0.000	0.000	0.0000	0.000	0.000
349		0.00	0.000	0.043	0.1736	0.0000	0.000	0.000	0.0000	0.000	0.000
350		0.00	0.000	0.039	0.1722	0.0000	0.000	0.000	0.0000	0.000	0.000
351		0.00	0.000	0.037	0.1709	0.0000	0.000	0.000	0.0000	0.000	0.000
352		0.00	0.000	0.034	0.1697	0.0000	0.000	0.000	0.0000	0.000	0.000
353		0.00	0.000	0.033	0.1685	0.0000	0.000	0.000	0.0000	0.000	0.000
354		0.00	0.000	0.031	0.1674	0.0000	0.000	0.000	0.0000	0.000	0.000
355		0.00	0.000	0.030	0.1664	0.0000	0.000	0.000	0.0000	0.000	0.000
356		0.00	0.000	0.028	0.1654	0.0000	0.000	0.000	0.0000	0.000	0.000
357		0.00	0.000	0.027	0.1644	0.0000	0.000	0.000	0.0000	0.000	0.000
358		0.00	0.000	0.026	0.1634	0.0000	0.000	0.000	0.0000	0.000	0.000
359		0.00	0.000	0.025	0.1625	0.0000	0.000	0.000	0.0000	0.000	0.000
360		0.00	0.000	0.025	0.1616	0.0000	0.000	0.000	0.0000	0.000	0.000
361		0.00	0.000	0.024	0.1608	0.0000	0.000	0.000	0.0000	0.000	0.000
362		0.00	0.000	0.023	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
363	*	0.06	0.000	0.061	0.1599	0.0000	0.000	0.000	0.0000	0.000	0.000
364		0.07	0.000	0.030	0.1613	0.0000	0.000	0.000	0.0000	0.000	0.000
365		0.00	0.000	0.022	0.1606	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.75	0.26	0.42	0.11	0.66	0.17
	4.93	1.53	2.04	0.02	5.18	0.13
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.065	0.000	0.000	0.000	0.016	0.000
EVAPOTRANSPIRATION	0.481	0.331	0.328	0.415	1.063	0.819
	4.902	1.532	1.945	0.115	2.320	1.389
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.20	5127183.386	100.00
RUNOFF	0.082	25898.481	0.51
EVAPOTRANSPIRATION	15.640	4950063.990	96.55
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.000	0.00

PERC./LEAKAGE THROUGH LAYER 9	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 8	0.0000		
CHANGE IN WATER STORAGE	0.478	151220.992	2.95
SOIL WATER AT START OF YEAR	131.234	41534690.909	
SOIL WATER AT END OF YEAR	131.712	41685911.901	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.077	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 8
DRAIN #2: LATERAL DRAINAGE FROM LAYER 7 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 9

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DAILY OUTPUT FOR YEAR 4

DAY	A I R	S O I L	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.021	0.1598	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.021	0.1591	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.020	0.1583	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.020	0.1576	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.019	0.1569	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.019	0.1563	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.019	0.1556	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.018	0.1549	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.018	0.1543	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.018	0.1536	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.018	0.1530	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.017	0.1524	0.0000	0.000	0.000	0.0000	0.000	0.000
13			0.00	0.000	0.017	0.1518	0.0000	0.000	0.000	0.0000	0.000	0.000
14			0.00	0.000	0.017	0.1512	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.017	0.1506	0.0000	0.000	0.000	0.0000	0.000	0.000
16			0.00	0.000	0.016	0.1500	0.0000	0.000	0.000	0.0000	0.000	0.000
17	*		0.00	0.000	0.016	0.1494	0.0000	0.000	0.000	0.0000	0.000	0.000
18	*		0.00	0.000	0.016	0.1488	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.00	0.000	0.016	0.1483	0.0000	0.000	0.000	0.0000	0.000	0.000
20			0.00	0.000	0.016	0.1477	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.00	0.000	0.015	0.1472	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.015	0.1466	0.0000	0.000	0.000	0.0000	0.000	0.000
23			0.00	0.000	0.015	0.1461	0.0000	0.000	0.000	0.0000	0.000	0.000
24			0.00	0.000	0.015	0.1456	0.0000	0.000	0.000	0.0000	0.000	0.000
25			0.00	0.000	0.015	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000

26	0.00	0.000	0.015	0.1445	0.0000	0.000	0.000	0.0000	0.000	0.000
27	0.00	0.000	0.014	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
28	0.00	0.000	0.014	0.1434	0.0000	0.000	0.000	0.0000	0.000	0.000
29	0.00	0.000	0.014	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
30	0.00	0.000	0.014	0.1423	0.0000	0.000	0.000	0.0000	0.000	0.000
31	0.00	0.000	0.014	0.1418	0.0000	0.000	0.000	0.0000	0.000	0.000
32	0.00	0.000	0.014	0.1413	0.0000	0.000	0.000	0.0000	0.000	0.000
33	0.00	0.000	0.014	0.1408	0.0000	0.000	0.000	0.0000	0.000	0.000
34	0.00	0.000	0.013	0.1402	0.0000	0.000	0.000	0.0000	0.000	0.000
35	0.00	0.000	0.013	0.1397	0.0000	0.000	0.000	0.0000	0.000	0.000
36	0.00	0.000	0.013	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000
37	0.00	0.000	0.013	0.1387	0.0000	0.000	0.000	0.0000	0.000	0.000
38	0.00	0.000	0.013	0.1382	0.0000	0.000	0.000	0.0000	0.000	0.000
39	0.00	0.000	0.013	0.1377	0.0000	0.000	0.000	0.0000	0.000	0.000
40	0.00	0.000	0.013	0.1372	0.0000	0.000	0.000	0.0000	0.000	0.000
41	0.19	0.000	0.017	0.1434	0.0000	0.000	0.000	0.0000	0.000	0.000
42	0.00	0.000	0.013	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
43	0.00	0.000	0.012	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.00	0.000	0.012	0.1419	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.00	0.000	0.012	0.1414	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.00	0.000	0.012	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.012	0.1404	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.02	0.000	0.016	0.1405	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.00	0.000	0.012	0.1401	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.011	0.1396	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.012	0.1392	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.012	0.1387	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.012	0.1382	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.012	0.1378	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.00	0.000	0.011	0.1373	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.00	0.000	0.011	0.1369	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.011	0.1364	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.011	0.1360	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.010	0.1356	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.010	0.1352	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.011	0.1348	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.011	0.1343	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.011	0.1339	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.011	0.1335	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.011	0.1331	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.011	0.1327	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.011	0.1323	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.011	0.1319	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.011	0.1314	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.011	0.1310	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.011	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.011	0.1302	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.011	0.1298	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.011	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.011	0.1290	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.010	0.1286	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.011	0.1282	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.011	0.1277	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.011	0.1273	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.011	0.1269	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.011	0.1265	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.011	0.1261	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.011	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.011	0.1252	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.011	0.1248	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.011	0.1244	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.011	0.1240	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.04	0.000	0.014	0.1249	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.011	0.1244	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.011	0.1240	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.011	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.011	0.1232	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.011	0.1227	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.011	0.1223	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.011	0.1219	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.011	0.1214	0.0000	0.000	0.000	0.0000	0.000	0.000

97	0.00	0.000	0.011	0.1210	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.012	0.1206	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.011	0.1201	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.010	0.1198	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.008	0.1194	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.007	0.1192	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.005	0.1189	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.004	0.1186	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.003	0.1183	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.003	0.1181	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.003	0.1179	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.003	0.1176	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.004	0.1174	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.004	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.005	0.1171	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.005	0.1170	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.004	0.1168	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.25	0.000	0.008	0.1255	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.009	0.1251	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.009	0.1248	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.009	0.1245	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.010	0.1241	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.012	0.1237	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.013	0.1232	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.012	0.1228	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.014	0.1223	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.014	0.1218	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.015	0.1212	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.016	0.1207	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.015	0.1201	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.015	0.1196	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.016	0.1190	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.017	0.1184	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.017	0.1178	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.018	0.1172	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.020	0.1165	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.020	0.1157	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.020	0.1150	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.019	0.1143	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.020	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.017	0.1130	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.017	0.1124	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.016	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.016	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.016	0.1107	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.11	0.000	0.021	0.1139	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.020	0.1132	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.025	0.1123	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.026	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.027	0.1104	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.025	0.1095	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.024	0.1086	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.026	0.1077	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.028	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.030	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.014	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.006	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.00	0.000	0.006	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.007	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.007	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.004	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000

168	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.01	0.000	0.008	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.33	0.000	0.009	0.1155	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.017	0.1149	0.0000	0.000	0.000	0.0000	0.000	0.000
191	1.68	0.116	0.021	0.1699	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.08	0.000	0.286	0.1626	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.340	0.1504	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.28	0.000	0.030	0.1593	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.00	0.000	0.320	0.1479	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.040	0.1465	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.039	0.1451	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.040	0.1436	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.037	0.1423	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.037	0.1410	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.00	0.000	0.035	0.1397	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.044	0.1382	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.19	0.000	0.050	0.1432	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.05	0.000	0.051	0.1431	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.07	0.000	0.046	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.56	0.000	0.046	0.1624	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.345	0.1500	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.00	0.000	0.330	0.1383	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.247	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.134	0.1246	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.32	0.000	0.111	0.1321	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.103	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.100	0.1249	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.096	0.1215	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.090	0.1182	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.01	0.000	0.082	0.1157	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.074	0.1130	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.096	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
219	1.23	0.021	0.095	0.1494	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.79	0.001	0.250	0.1686	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.276	0.1588	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.259	0.1495	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.295	0.1390	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.50	0.000	0.286	0.1466	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.65	0.000	0.282	0.1598	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.00	0.000	0.323	0.1482	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.325	0.1366	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.34	0.000	0.306	0.1378	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.310	0.1268	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.292	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.251	0.1074	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.074	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.017	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.99	0.001	0.087	0.1364	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.53	0.000	0.117	0.1511	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.00	0.000	0.176	0.1449	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.230	0.1366	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.286	0.1264	0.0000	0.000	0.000	0.0000	0.000	0.000

239	0.00	0.000	0.297	0.1158	0.0000	0.000	0.000	0.0000	0.000	0.000
240	1.08	0.006	0.252	0.1452	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.277	0.1353	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.196	0.1283	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.00	0.000	0.162	0.1225	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.02	0.000	0.189	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.229	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.096	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.017	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.004	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.12	0.000	0.042	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.025	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.042	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.009	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.01	0.000	0.010	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.04	0.000	0.029	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.00	0.000	0.006	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.004	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.05	0.000	0.029	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.10	0.000	0.033	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.69	0.000	0.084	0.1288	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.34	0.000	0.058	0.1389	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.00	0.000	0.074	0.1362	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.087	0.1331	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.101	0.1295	0.0000	0.000	0.000	0.0000	0.000	0.000
297	0.00	0.000	0.100	0.1260	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.090	0.1227	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.080	0.1199	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.096	0.1164	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.101	0.1129	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.077	0.1101	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.00	0.000	0.101	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.00	0.000	0.060	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.00	0.000	0.005	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
307	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
308	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
309	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000

310		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
311		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
312		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
313		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
314		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
315		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
316		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
317		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
318		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
319		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
320		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
321		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
322		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
323		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
324		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
325		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
326		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
327		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
328		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
329		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
330		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
331		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
332		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
333		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
334		0.11	0.000	0.019	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
335		0.00	0.000	0.010	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
336		0.00	0.000	0.022	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
337		0.00	0.000	0.018	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
338		0.00	0.000	0.019	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
339		0.00	0.000	0.017	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
340		0.00	0.000	0.005	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
341		0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
342		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
343		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
344		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
345		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
346		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
347		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
348		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
349		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
350		0.02	0.000	0.017	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
351	*	0.01	0.000	0.012	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
352		0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
353		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
354	*	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
355		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
356		0.03	0.000	0.018	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
357		0.01	0.000	0.016	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
358		0.04	0.000	0.025	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
359		0.00	0.000	0.011	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
360		0.27	0.000	0.029	0.1130	0.0000	0.000	0.000	0.0000	0.000	0.000
361		0.01	0.000	0.043	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
362		0.02	0.000	0.052	0.1107	0.0000	0.000	0.000	0.0000	0.000	0.000
363		0.01	0.000	0.059	0.1089	0.0000	0.000	0.000	0.0000	0.000	0.000
364		0.05	0.000	0.066	0.1083	0.0000	0.000	0.000	0.0000	0.000	0.000
365		0.01	0.000	0.024	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
366		0.01	0.000	0.030	0.1071	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 4

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
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PRECIPITATION	0.00	0.21	0.04	0.25	0.11	0.01
	3.56	6.14	0.17	1.18	0.11	0.49
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.116	0.030	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.519	0.363	0.334	0.238	0.604	0.042
	2.859	6.346	0.517	1.175	0.032	0.486
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.27	3883366.676	100.00
RUNOFF	0.146	46221.490	1.19
EVAPOTRANSPIRATION	13.516	4277697.857	110.15
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 9	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 8	0.0000		
CHANGE IN WATER STORAGE	-1.392	-440552.613	-11.34
SOIL WATER AT START OF YEAR	131.712	41685911.901	
SOIL WATER AT END OF YEAR	130.320	41245359.288	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00

SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.058	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 8
DRAIN #2: LATERAL DRAINAGE FROM LAYER 7 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 9

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DAILY OUTPUT FOR YEAR 5

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.22	0.000	0.027	0.1140	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.048	0.1123	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.064	0.1100	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.051	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.049	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.034	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.025	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.005	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
13			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
14			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
16	*		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
17			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
18			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
20	*		0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
23			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
24			0.12	0.000	0.022	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
25			0.00	0.000	0.011	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
26			0.00	0.000	0.029	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
27			0.00	0.000	0.027	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
28			0.00	0.000	0.025	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
29			0.00	0.000	0.006	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
30			0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
31			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
32			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
33			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
34			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
35			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
36			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
37			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
38			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000

39	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
40	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
41	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
42	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
43	0.18	0.000	0.022	0.1097	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.00	0.000	0.024	0.1089	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.00	0.000	0.045	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.03	0.000	0.039	0.1069	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.015	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.01	0.000	0.031	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.18	0.000	0.033	0.1109	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.061	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.074	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.025	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.025	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.004	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.08	0.000	0.032	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.018	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.023	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.005	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.09	0.000	0.030	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.03	0.000	0.036	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.024	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.025	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.004	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.02	0.000	0.020	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.01	0.000	0.010	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.01	0.000	0.010	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000

110	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.27	0.000	0.029	0.1126	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.01	0.000	0.104	0.1093	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.095	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.042	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.007	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.16	0.000	0.044	0.1081	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.032	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.77	0.000	0.132	0.1298	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.146	0.1245	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.194	0.1176	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.176	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.157	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.31	0.000	0.074	0.1141	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.143	0.1090	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.104	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.026	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.007	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.16	0.000	0.040	0.1083	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.27	0.000	0.057	0.1159	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.03	0.000	0.180	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.132	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000

181	0.00	0.000	0.035	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.011	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.003	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.07	0.000	0.035	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.020	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.06	0.000	0.046	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.02	0.000	0.037	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.010	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.11	0.000	0.044	0.1063	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.037	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
208	1.24	0.022	0.153	0.1431	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.29	0.000	0.154	0.1479	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.01	0.000	0.172	0.1422	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.225	0.1341	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.275	0.1243	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.255	0.1152	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.233	0.1069	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.067	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.005	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.003	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.002	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.23	0.000	0.036	0.1110	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.121	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.051	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.018	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.005	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.13	0.000	0.017	0.1080	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.032	0.1069	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.063	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.016	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.06	0.000	0.016	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.41	0.000	0.109	0.1163	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.120	0.1120	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.00	0.000	0.166	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.046	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.010	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.31	0.000	0.018	0.1144	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.67	0.000	0.082	0.1354	0.0000	0.000	0.000	0.0000	0.000	0.000

252	0.00	0.000	0.101	0.1318	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.49	0.000	0.138	0.1444	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.164	0.1385	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.172	0.1324	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.09	0.000	0.165	0.1297	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.07	0.000	0.149	0.1269	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.12	0.000	0.148	0.1259	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.47	0.000	0.135	0.1378	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.186	0.1312	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.161	0.1255	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.30	0.000	0.103	0.1325	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.157	0.1269	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.134	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.150	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.104	0.1130	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.147	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.00	0.000	0.087	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.010	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.002	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.66	0.000	0.039	0.1263	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.68	0.000	0.097	0.1471	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.178	0.1408	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.173	0.1346	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.166	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.170	0.1226	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.180	0.1162	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.153	0.1107	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.128	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.044	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.08	0.000	0.026	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.009	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.00	0.000	0.015	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.013	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.01	0.000	0.018	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.14	0.000	0.020	0.1092	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.012	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.057	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.018	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.012	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.009	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.19	0.000	0.021	0.1114	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.02	0.000	0.053	0.1102	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.071	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
297	0.00	0.000	0.034	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.030	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.023	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.006	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.08	0.000	0.018	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.08	0.000	0.018	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.02	0.000	0.022	0.1086	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.040	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
307	0.00	0.000	0.018	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
308	0.00	0.000	0.011	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
309	0.00	0.000	0.009	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
310	0.00	0.000	0.008	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
311	0.00	0.000	0.007	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
312	0.00	0.000	0.007	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
313	0.00	0.000	0.007	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
314	0.00	0.000	0.006	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
315	0.00	0.000	0.006	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
316	0.00	0.000	0.003	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
317	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
318	0.07	0.000	0.015	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
319	0.45	0.000	0.025	0.1214	0.0000	0.000	0.000	0.0000	0.000	0.000
320	0.06	0.000	0.064	0.1212	0.0000	0.000	0.000	0.0000	0.000	0.000
321	0.00	0.000	0.064	0.1189	0.0000	0.000	0.000	0.0000	0.000	0.000
322	0.00	0.000	0.087	0.1158	0.0000	0.000	0.000	0.0000	0.000	0.000

323	0.00	0.000	0.085	0.1128	0.0000	0.000	0.000	0.0000	0.000	0.000
324	0.00	0.000	0.085	0.1098	0.0000	0.000	0.000	0.0000	0.000	0.000
325	0.00	0.000	0.084	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
326	0.00	0.000	0.054	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
327	0.00	0.000	0.014	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
328	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
329	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
330	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
331	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
332	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
333	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
334	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
335	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
336	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
337	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
338	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
339	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
340	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
341	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
342	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
343	0.33	0.000	0.015	0.1155	0.0000	0.000	0.000	0.0000	0.000	0.000
344	0.07	0.000	0.051	0.1162	0.0000	0.000	0.000	0.0000	0.000	0.000
345	0.00	0.000	0.057	0.1142	0.0000	0.000	0.000	0.0000	0.000	0.000
346	0.00	0.000	0.049	0.1124	0.0000	0.000	0.000	0.0000	0.000	0.000
347	0.00	0.000	0.068	0.1100	0.0000	0.000	0.000	0.0000	0.000	0.000
348	0.00	0.000	0.085	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
349	0.00	0.000	0.061	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
350	0.00	0.000	0.011	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
351	0.00	0.000	0.003	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
352	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
353	0.17	0.000	0.018	0.1097	0.0000	0.000	0.000	0.0000	0.000	0.000
354	0.08	0.000	0.023	0.1117	0.0000	0.000	0.000	0.0000	0.000	0.000
355	0.00	0.000	0.037	0.1104	0.0000	0.000	0.000	0.0000	0.000	0.000
356	0.00	0.000	0.034	0.1092	0.0000	0.000	0.000	0.0000	0.000	0.000
357	0.00	0.000	0.044	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
358	0.00	0.000	0.043	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
359	0.00	0.000	0.015	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
360	0.00	0.000	0.016	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
361	0.00	0.000	0.014	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
362	0.00	0.000	0.004	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
363	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
364	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
365	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.34	0.40	0.24	0.00	1.52	0.46
	1.80	0.83	3.18	1.28	0.60	0.65
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.022	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.425	0.400	0.241	0.002	1.520	0.444
	1.226	1.339	2.614	1.774	0.724	0.650
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

FROM LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	11.30	3576368.658	100.00
RUNOFF	0.022	6995.480	0.20
EVAPOTRANSPIRATION	11.358	3594628.606	100.51
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 9	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 8	0.0000		
CHANGE IN WATER STORAGE	-0.080	-25255.375	-0.71
SOIL WATER AT START OF YEAR	130.320	41245359.288	
SOIL WATER AT END OF YEAR	130.240	41220103.913	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.054	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)

LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 8
DRAIN #2: LATERAL DRAINAGE FROM LAYER 7 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 9

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DAILY OUTPUT FOR YEAR 6

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.14	0.000	0.016	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.004	0.1086	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.016	0.1080	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.019	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.50	0.000	0.032	0.1240	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.032	0.1229	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.050	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.060	0.1190	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.063	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.071	0.1142	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.065	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
13			0.00	0.000	0.069	0.1094	0.0000	0.000	0.000	0.0000	0.000	0.000
14			0.00	0.000	0.061	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.053	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
16			0.00	0.000	0.023	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
17			0.00	0.000	0.004	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
18			0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
20	*		0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
23			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
24			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
25			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
26			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
27			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
28			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
29			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
30			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
31			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
32			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
33			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
34			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
35			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
36			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
37			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
38			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
39			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
40			0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
41			0.06	0.000	0.014	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
42			0.12	0.000	0.014	0.1097	0.0000	0.000	0.000	0.0000	0.000	0.000
43			0.00	0.000	0.010	0.1093	0.0000	0.000	0.000	0.0000	0.000	0.000
44			0.00	0.000	0.010	0.1090	0.0000	0.000	0.000	0.0000	0.000	0.000
45			0.00	0.000	0.010	0.1086	0.0000	0.000	0.000	0.0000	0.000	0.000
46			0.17	0.000	0.024	0.1138	0.0000	0.000	0.000	0.0000	0.000	0.000
47			0.03	0.000	0.069	0.1124	0.0000	0.000	0.000	0.0000	0.000	0.000
48			0.07	0.000	0.073	0.1123	0.0000	0.000	0.000	0.0000	0.000	0.000
49			0.00	0.000	0.080	0.1095	0.0000	0.000	0.000	0.0000	0.000	0.000
50			0.00	0.000	0.073	0.1069	0.0000	0.000	0.000	0.0000	0.000	0.000
51			0.00	0.000	0.027	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
52			0.00	0.000	0.021	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000

53	0.04	0.000	0.024	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.007	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.00	0.000	0.011	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.00	0.000	0.010	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.009	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.70	0.000	0.031	0.1283	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.074	0.1257	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.104	0.1220	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.113	0.1179	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.120	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.099	0.1101	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.107	0.1063	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.045	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.008	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.01	0.000	0.009	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.10	0.000	0.013	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.002	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.008	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.006	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.006	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.005	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.13	0.000	0.016	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.009	0.1102	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.008	0.1099	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.008	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.010	0.1092	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.011	0.1088	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.012	0.1084	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.012	0.1080	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.012	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.012	0.1071	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.012	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.012	0.1063	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.012	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.41	0.000	0.024	0.1196	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.01	0.000	0.141	0.1150	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.209	0.1075	0.0000	0.000	0.000	0.0000	0.000	0.000

124	0.00	0.000	0.012	0.1071	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.014	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.014	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.014	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.015	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.016	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.012	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.13	0.000	0.014	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.002	0.1081	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.008	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.008	0.1075	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.010	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.13	0.000	0.023	0.1110	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.101	0.1074	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.013	0.1069	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.012	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.012	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.014	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.010	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.005	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.004	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.004	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.004	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.004	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.15	0.000	0.016	0.1093	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.02	0.000	0.012	0.1095	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.009	0.1092	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.00	0.000	0.009	0.1089	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.009	0.1086	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.011	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.012	0.1077	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.013	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.014	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.01	0.000	0.021	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.013	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.004	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.005	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.004	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.004	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.004	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.004	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.004	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.004	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.004	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.004	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.004	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.004	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.004	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.13	0.000	0.015	0.1081	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.07	0.000	0.045	0.1090	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.74	0.000	0.148	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.14	0.000	0.114	0.1311	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.213	0.1235	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.242	0.1148	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.01	0.000	0.164	0.1093	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.54	0.000	0.260	0.1193	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.25	0.000	0.211	0.1207	0.0000	0.000	0.000	0.0000	0.000	0.000

195	0.00	0.000	0.222	0.1127	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.185	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.048	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.010	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.09	0.000	0.019	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.005	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.00	0.000	0.011	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.009	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.009	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.009	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.009	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.008	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.008	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.22	0.000	0.017	0.1112	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.46	0.000	0.127	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.00	0.000	0.145	0.1180	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.00	0.000	0.211	0.1104	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.138	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.032	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.23	0.000	0.033	0.1114	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.114	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.045	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.06	0.000	0.037	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.011	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.00	0.000	0.015	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.013	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.38	0.000	0.040	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.141	0.1123	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.170	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.043	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.03	0.000	0.034	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.008	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.005	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.07	0.000	0.020	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.10	0.000	0.019	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.44	0.000	0.034	0.1232	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.123	0.1188	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.149	0.1135	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.143	0.1084	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.071	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.039	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.010	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.15	0.000	0.019	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.004	0.1085	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.017	0.1079	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.020	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000

266	0.00	0.000	0.021	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.008	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.00	0.000	0.008	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.32	0.000	0.022	0.1166	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.073	0.1140	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.117	0.1098	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.124	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.033	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.004	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.01	0.000	0.010	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.09	0.000	0.018	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.09	0.000	0.018	0.1091	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.013	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.012	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.013	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.016	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.00	0.000	0.017	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.013	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.005	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
297	0.00	0.000	0.006	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.005	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.005	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.005	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.004	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.004	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.00	0.000	0.004	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.00	0.000	0.004	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.00	0.000	0.004	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.004	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
307	0.00	0.000	0.004	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
308	0.00	0.000	0.004	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
309	0.10	0.000	0.019	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
310	0.54	0.000	0.025	0.1254	0.0000	0.000	0.000	0.0000	0.000	0.000
311	0.00	0.000	0.064	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
312	0.00	0.000	0.091	0.1199	0.0000	0.000	0.000	0.0000	0.000	0.000
313	0.00	0.000	0.089	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
314	0.21	0.000	0.089	0.1210	0.0000	0.000	0.000	0.0000	0.000	0.000
315	0.16	0.000	0.087	0.1236	0.0000	0.000	0.000	0.0000	0.000	0.000
316	0.00	0.000	0.084	0.1206	0.0000	0.000	0.000	0.0000	0.000	0.000
317	0.00	0.000	0.073	0.1180	0.0000	0.000	0.000	0.0000	0.000	0.000
318	0.00	0.000	0.086	0.1149	0.0000	0.000	0.000	0.0000	0.000	0.000
319	0.00	0.000	0.081	0.1120	0.0000	0.000	0.000	0.0000	0.000	0.000
320	0.00	0.000	0.074	0.1094	0.0000	0.000	0.000	0.0000	0.000	0.000
321	0.00	0.000	0.083	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
322	0.00	0.000	0.053	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
323	0.00	0.000	0.012	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
324	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
325	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
326	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
327	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
328	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
329	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
330	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
331	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
332	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
333	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
334	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
335	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
336	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000

337	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
338	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
339	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
340	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
341	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
342	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
343	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
344	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
345	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
346	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
347	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
348	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
349	0.30	0.000	0.016	0.1142	0.0000	0.000	0.000	0.0000	0.000	0.000
350	0.00	0.000	0.036	0.1129	0.0000	0.000	0.000	0.0000	0.000	0.000
351	0.00	0.000	0.046	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
352	0.00	0.000	0.015	0.1107	0.0000	0.000	0.000	0.0000	0.000	0.000
353	0.00	0.000	0.015	0.1102	0.0000	0.000	0.000	0.0000	0.000	0.000
354	0.00	0.000	0.014	0.1097	0.0000	0.000	0.000	0.0000	0.000	0.000
355	0.00	0.000	0.014	0.1092	0.0000	0.000	0.000	0.0000	0.000	0.000
356	0.00	0.000	0.014	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
357	0.00	0.000	0.014	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
358	0.00	0.000	0.014	0.1077	0.0000	0.000	0.000	0.0000	0.000	0.000
359	0.00	0.000	0.013	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
360	0.00	0.000	0.013	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
361	0.00	0.000	0.013	0.1063	0.0000	0.000	0.000	0.0000	0.000	0.000
362	0.00	0.000	0.013	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
363	0.00	0.000	0.013	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
364	0.00	0.000	0.012	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
365	0.00	0.000	0.011	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 6

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.64	1.19	0.01	0.23	0.83	0.03
	1.97	1.38	1.08	0.19	1.01	0.30
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.640	0.591	0.609	0.185	0.734	0.177
	1.950	1.399	1.075	0.177	1.027	0.285
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	8.86	2804126.222	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	8.850	2801108.762	99.89
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 9	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 8	0.0000		
CHANGE IN WATER STORAGE	0.010	3017.503	0.11
SOIL WATER AT START OF YEAR	130.240	41220103.913	
SOIL WATER AT END OF YEAR	130.250	41223121.416	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.042	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 8
DRAIN #2: LATERAL DRAINAGE FROM LAYER 7 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 9

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DAILY OUTPUT FOR YEAR 7

DAY	A	S O	RAIN	RUNOFF	ET	E. ZONE	HEAD	DRAIN	LEAK	HEAD	DRAIN	LEAK

	I R	I L	IN.	IN.	IN.	WATER IN./IN.	#1 IN.	#1 IN.	#1 IN.	#2 IN.	#2 IN.	#2 IN.
1			0.00	0.000	0.009	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.004	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
13			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
14			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
16	*		0.21	0.000	0.064	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
17			0.00	0.000	0.071	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
18			0.12	0.000	0.016	0.1104	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.01	0.000	0.014	0.1103	0.0000	0.000	0.000	0.0000	0.000	0.000
20			0.00	0.000	0.007	0.1100	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.00	0.000	0.007	0.1098	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.007	0.1095	0.0000	0.000	0.000	0.0000	0.000	0.000
23			0.14	0.000	0.022	0.1138	0.0000	0.000	0.000	0.0000	0.000	0.000
24			0.00	0.000	0.066	0.1114	0.0000	0.000	0.000	0.0000	0.000	0.000
25			0.00	0.000	0.010	0.1110	0.0000	0.000	0.000	0.0000	0.000	0.000
26			0.00	0.000	0.012	0.1106	0.0000	0.000	0.000	0.0000	0.000	0.000
27			0.00	0.000	0.012	0.1102	0.0000	0.000	0.000	0.0000	0.000	0.000
28			0.00	0.000	0.011	0.1098	0.0000	0.000	0.000	0.0000	0.000	0.000
29			0.00	0.000	0.010	0.1095	0.0000	0.000	0.000	0.0000	0.000	0.000
30			0.00	0.000	0.010	0.1091	0.0000	0.000	0.000	0.0000	0.000	0.000
31			0.00	0.000	0.010	0.1088	0.0000	0.000	0.000	0.0000	0.000	0.000
32			0.00	0.000	0.010	0.1084	0.0000	0.000	0.000	0.0000	0.000	0.000
33			0.00	0.000	0.009	0.1081	0.0000	0.000	0.000	0.0000	0.000	0.000
34			0.25	0.000	0.023	0.1162	0.0000	0.000	0.000	0.0000	0.000	0.000
35			0.03	0.000	0.061	0.1151	0.0000	0.000	0.000	0.0000	0.000	0.000
36			0.00	0.000	0.057	0.1130	0.0000	0.000	0.000	0.0000	0.000	0.000
37			0.00	0.000	0.076	0.1103	0.0000	0.000	0.000	0.0000	0.000	0.000
38			0.00	0.000	0.100	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
39			0.00	0.000	0.054	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
40			0.17	0.000	0.037	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
41			0.07	0.000	0.025	0.1112	0.0000	0.000	0.000	0.0000	0.000	0.000
42			0.00	0.000	0.026	0.1102	0.0000	0.000	0.000	0.0000	0.000	0.000
43			0.00	0.000	0.025	0.1094	0.0000	0.000	0.000	0.0000	0.000	0.000
44			0.00	0.000	0.030	0.1083	0.0000	0.000	0.000	0.0000	0.000	0.000
45			0.00	0.000	0.030	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
46			0.00	0.000	0.028	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
47			0.00	0.000	0.014	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
48			0.00	0.000	0.010	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
49			0.00	0.000	0.008	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
50			0.00	0.000	0.007	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
51			0.00	0.000	0.007	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
52			0.00	0.000	0.006	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
53			0.00	0.000	0.006	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
54			0.00	0.000	0.002	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
55			0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
56			0.18	0.000	0.017	0.1099	0.0000	0.000	0.000	0.0000	0.000	0.000
57			0.00	0.000	0.012	0.1094	0.0000	0.000	0.000	0.0000	0.000	0.000
58			0.02	0.000	0.023	0.1093	0.0000	0.000	0.000	0.0000	0.000	0.000
59			0.00	0.000	0.016	0.1088	0.0000	0.000	0.000	0.0000	0.000	0.000
60			0.00	0.000	0.012	0.1083	0.0000	0.000	0.000	0.0000	0.000	0.000
61			0.00	0.000	0.014	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
62			0.00	0.000	0.015	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
63			0.00	0.000	0.016	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
64			0.00	0.000	0.016	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
65			0.00	0.000	0.006	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
66			0.00	0.000	0.006	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000

67	0.08	0.000	0.018	0.1079	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.003	0.1078	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.00	0.000	0.010	0.1075	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.010	0.1071	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.012	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.007	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.00	0.000	0.006	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.005	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.005	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.004	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.004	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.004	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.004	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.004	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
81	0.00	0.000	0.004	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.004	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.004	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.004	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.004	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.003	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.003	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.003	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.003	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.01	0.000	0.010	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.27	0.000	0.016	0.1131	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.006	0.1129	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.006	0.1126	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.006	0.1124	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.006	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.007	0.1119	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.008	0.1116	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.04	0.000	0.022	0.1122	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.010	0.1119	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.008	0.1116	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.007	0.1114	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.008	0.1111	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.009	0.1108	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.009	0.1104	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.010	0.1101	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.010	0.1097	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.010	0.1094	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.010	0.1090	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.010	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.010	0.1083	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.010	0.1079	0.0000	0.000	0.000	0.0000	0.000	0.000

138	0.00	0.000	0.010	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.011	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.011	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.011	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.011	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.011	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.011	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.011	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.05	0.000	0.023	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.67	0.000	0.024	0.1289	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.12	0.000	0.131	0.1284	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.179	0.1220	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.226	0.1140	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.182	0.1075	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.081	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.013	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.40	0.000	0.029	0.1172	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.169	0.1112	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.022	0.1104	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.022	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.023	0.1088	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.023	0.1080	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.022	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.026	0.1063	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.025	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.028	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.010	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.17	0.000	0.018	0.1094	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.006	0.1092	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.013	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.015	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.017	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.019	0.1069	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.021	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.008	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.63	0.000	0.029	0.1273	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.23	0.000	0.146	0.1303	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.39	0.000	0.237	0.1358	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.171	0.1297	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.25	0.000	0.238	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.233	0.1218	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.229	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.00	0.000	0.168	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.087	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.011	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.06	0.000	0.028	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.60	0.000	0.050	0.1249	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.42	0.000	0.134	0.1352	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.132	0.1304	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.00	0.000	0.229	0.1223	0.0000	0.000	0.000	0.0000	0.000	0.000

209	0.00	0.000	0.183	0.1157	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.254	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.069	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.004	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
220	1.24	0.022	0.043	0.1460	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.180	0.1396	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.141	0.1345	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.00	0.000	0.147	0.1293	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.235	0.1209	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.00	0.000	0.182	0.1144	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.00	0.000	0.187	0.1077	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.096	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.51	0.000	0.141	0.1175	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.142	0.1124	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.179	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.046	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.008	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.60	0.000	0.045	0.1238	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.00	0.000	0.131	0.1191	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.207	0.1118	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.170	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.89	0.000	0.152	0.1320	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.135	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.149	0.1219	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.140	0.1169	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.124	0.1125	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.137	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.084	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.013	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.55	0.000	0.032	0.1225	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.085	0.1195	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.114	0.1154	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.103	0.1117	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.128	0.1072	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.57	0.000	0.093	0.1242	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.135	0.1194	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.42	0.000	0.124	0.1299	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.091	0.1267	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.127	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000

280	0.00	0.000	0.124	0.1177	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.114	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.111	0.1097	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.100	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.044	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.37	0.000	0.041	0.1163	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.076	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.04	0.000	0.077	0.1123	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.087	0.1092	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.083	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.035	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.021	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.003	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.42	0.000	0.049	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.066	0.1149	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.067	0.1125	0.0000	0.000	0.000	0.0000	0.000	0.000
297	0.00	0.000	0.086	0.1095	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.092	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.048	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.009	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.07	0.000	0.024	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.004	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
307	0.00	0.000	0.008	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
308	0.00	0.000	0.008	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
309	0.00	0.000	0.008	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
310	0.00	0.000	0.007	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
311	0.00	0.000	0.007	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
312	0.00	0.000	0.003	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
313	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
314	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
315	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
316	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
317	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
318	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
319	0.61	0.000	0.029	0.1247	0.0000	0.000	0.000	0.0000	0.000	0.000
320	0.90	0.001	0.055	0.1549	0.0000	0.000	0.000	0.0000	0.000	0.000
321	0.00	0.000	0.067	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
322	0.00	0.000	0.060	0.1504	0.0000	0.000	0.000	0.0000	0.000	0.000
323	0.00	0.000	0.061	0.1482	0.0000	0.000	0.000	0.0000	0.000	0.000
324	0.00	0.000	0.068	0.1457	0.0000	0.000	0.000	0.0000	0.000	0.000
325	0.00	0.000	0.085	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
326	0.06	0.000	0.088	0.1417	0.0000	0.000	0.000	0.0000	0.000	0.000
327	0.00	0.000	0.077	0.1389	0.0000	0.000	0.000	0.0000	0.000	0.000
328	0.05	0.000	0.098	0.1372	0.0000	0.000	0.000	0.0000	0.000	0.000
329	0.00	0.000	0.076	0.1345	0.0000	0.000	0.000	0.0000	0.000	0.000
330	0.00	0.000	0.081	0.1316	0.0000	0.000	0.000	0.0000	0.000	0.000
331	0.00	0.000	0.083	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
332	0.00	0.000	0.073	0.1261	0.0000	0.000	0.000	0.0000	0.000	0.000
333	0.00	0.000	0.077	0.1233	0.0000	0.000	0.000	0.0000	0.000	0.000
334	0.00	0.000	0.081	0.1204	0.0000	0.000	0.000	0.0000	0.000	0.000
335	0.00	0.000	0.087	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
336	0.00	0.000	0.084	0.1143	0.0000	0.000	0.000	0.0000	0.000	0.000
337	0.00	0.000	0.090	0.1111	0.0000	0.000	0.000	0.0000	0.000	0.000
338	0.00	0.000	0.080	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
339	0.00	0.000	0.067	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
340	0.00	0.000	0.036	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
341	0.00	0.000	0.003	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
342	0.00	0.000	0.001	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
343	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
344	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
345	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
346	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
347	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
348	0.01	0.000	0.010	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
349	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
350	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000

351	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
352	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
353	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
354	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
355	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
356	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
357	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
358	0.01	0.000	0.010	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
359	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
360	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
361	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
362	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
363	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
364	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
365	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 7

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.48	0.72	0.09	0.27	0.88	0.40
	2.75	3.24	0.55	1.82	1.69	0.02
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.022	0.000	0.000	0.001	0.000
EVAPOTRANSPIRATION	0.363	0.720	0.222	0.036	1.018	0.459
	2.787	2.434	1.119	2.036	1.230	0.473
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.91	4085922.069	100.00
RUNOFF	0.023	7211.409	0.18
EVAPOTRANSPIRATION	12.896	4081515.228	99.89
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 9	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 8	0.0000		
CHANGE IN WATER STORAGE	-0.009	-2804.507	-0.07
SOIL WATER AT START OF YEAR	130.250	41223121.416	
SOIL WATER AT END OF YEAR	130.241	41220316.909	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.061	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 8
DRAIN #2: LATERAL DRAINAGE FROM LAYER 7 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 9

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DAILY OUTPUT FOR YEAR 8

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000

10	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
11	0.15	0.000	0.019	0.1089	0.0000	0.000	0.000	0.0000	0.000	0.000
12	0.00	0.000	0.002	0.1088	0.0000	0.000	0.000	0.0000	0.000	0.000
13	0.00	0.000	0.009	0.1085	0.0000	0.000	0.000	0.0000	0.000	0.000
14	0.00	0.000	0.009	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
15	0.00	0.000	0.010	0.1079	0.0000	0.000	0.000	0.0000	0.000	0.000
16	0.00	0.000	0.011	0.1075	0.0000	0.000	0.000	0.0000	0.000	0.000
17	0.00	0.000	0.012	0.1071	0.0000	0.000	0.000	0.0000	0.000	0.000
18	0.00	0.000	0.012	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
19	0.00	0.000	0.011	0.1063	0.0000	0.000	0.000	0.0000	0.000	0.000
20	0.00	0.000	0.004	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
21	0.00	0.000	0.004	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
22	0.00	0.000	0.004	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
23	0.00	0.000	0.004	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
24	0.00	0.000	0.003	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
25	0.00	0.000	0.003	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
26	0.00	0.000	0.003	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
27	0.00	0.000	0.003	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
28	0.00	0.000	0.003	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
29	0.00	0.000	0.003	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
30	0.00	0.000	0.003	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
31	0.00	0.000	0.003	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
32	0.00	0.000	0.003	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
33	0.00	0.000	0.003	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
34	0.09	0.000	0.019	0.1071	0.0000	0.000	0.000	0.0000	0.000	0.000
35	0.00	0.000	0.002	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
36	0.00	0.000	0.006	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
37	0.01	0.000	0.012	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
38	0.00	0.000	0.002	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
39	0.00	0.000	0.004	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
40	0.01	0.000	0.011	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
41	0.00	0.000	0.002	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
42	0.00	0.000	0.004	0.1063	0.0000	0.000	0.000	0.0000	0.000	0.000
43	0.48	0.000	0.024	0.1226	0.0000	0.000	0.000	0.0000	0.000	0.000
44	0.04	0.000	0.058	0.1220	0.0000	0.000	0.000	0.0000	0.000	0.000
45	0.16	0.000	0.081	0.1248	0.0000	0.000	0.000	0.0000	0.000	0.000
46	0.00	0.000	0.093	0.1215	0.0000	0.000	0.000	0.0000	0.000	0.000
47	0.00	0.000	0.083	0.1185	0.0000	0.000	0.000	0.0000	0.000	0.000
48	0.00	0.000	0.094	0.1151	0.0000	0.000	0.000	0.0000	0.000	0.000
49	0.00	0.000	0.102	0.1115	0.0000	0.000	0.000	0.0000	0.000	0.000
50	0.00	0.000	0.094	0.1081	0.0000	0.000	0.000	0.0000	0.000	0.000
51	0.00	0.000	0.079	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
52	0.00	0.000	0.023	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
53	0.00	0.000	0.006	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
54	0.00	0.000	0.001	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
55	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
56	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
57	0.00	0.000	0.000	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
58	0.19	0.000	0.021	0.1103	0.0000	0.000	0.000	0.0000	0.000	0.000
59	0.00	0.000	0.019	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
60	0.00	0.000	0.018	0.1090	0.0000	0.000	0.000	0.0000	0.000	0.000
61	0.00	0.000	0.022	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
62	0.00	0.000	0.023	0.1074	0.0000	0.000	0.000	0.0000	0.000	0.000
63	0.00	0.000	0.023	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
64	0.00	0.000	0.011	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
65	0.00	0.000	0.008	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
66	0.00	0.000	0.007	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
67	0.00	0.000	0.006	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
68	0.00	0.000	0.006	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
69	0.04	0.000	0.020	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
70	0.00	0.000	0.003	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
71	0.00	0.000	0.006	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
72	0.00	0.000	0.005	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
73	0.02	0.000	0.016	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
74	0.00	0.000	0.003	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
75	0.00	0.000	0.005	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
76	0.00	0.000	0.005	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
77	0.00	0.000	0.005	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
78	0.00	0.000	0.005	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
79	0.00	0.000	0.005	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
80	0.00	0.000	0.005	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000

81	0.00	0.000	0.005	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
82	0.00	0.000	0.002	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
83	0.00	0.000	0.001	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
84	0.00	0.000	0.000	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
85	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
86	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
87	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
88	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
89	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
90	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
91	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
92	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
93	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
94	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.000	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.49	0.000	0.024	0.1206	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.73	0.000	0.083	0.1438	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.126	0.1393	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.153	0.1338	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.169	0.1278	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.204	0.1205	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.00	0.000	0.195	0.1135	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.171	0.1074	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.085	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.003	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.002	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.001	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.18	0.000	0.019	0.1097	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.012	0.1093	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.012	0.1089	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.013	0.1084	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.015	0.1079	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.016	0.1073	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.017	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.016	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.008	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.006	0.1056	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.005	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.005	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.005	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.005	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.004	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.004	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.004	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.004	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.004	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.004	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000

152	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
165	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.06	0.000	0.018	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.002	0.1054	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.003	0.1053	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.003	0.1052	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.003	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.003	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.003	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.003	0.1048	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.003	0.1047	0.0000	0.000	0.000	0.0000	0.000	0.000
191	0.00	0.000	0.003	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.003	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.003	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.003	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.00	0.000	0.003	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.47	0.000	0.024	0.1199	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.22	0.000	0.160	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.168	0.1161	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.204	0.1088	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.088	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.035	0.1044	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.00	0.000	0.009	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000

223	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.01	0.000	0.010	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.10	0.000	0.021	0.1068	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.003	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.56	0.000	0.032	0.1256	0.0000	0.000	0.000	0.0000	0.000	0.000
231	1.16	0.023	0.080	0.1633	0.0000	0.000	0.000	0.0000	0.000	0.000
232	1.13	0.052	0.114	0.1977	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.210	0.1902	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.81	0.006	0.209	0.2115	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.33	0.000	0.159	0.2176	0.0000	0.000	0.000	0.0000	0.000	0.000
236	0.00	0.000	0.221	0.2097	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.233	0.2014	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.244	0.1927	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.12	0.000	0.199	0.1899	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.00	0.000	0.206	0.1825	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.00	0.000	0.203	0.1752	0.0000	0.000	0.000	0.0000	0.000	0.000
242	0.00	0.000	0.219	0.1674	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.00	0.000	0.204	0.1601	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.087	0.1570	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.067	0.1546	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.057	0.1526	0.0000	0.000	0.000	0.0000	0.000	0.000
247	0.00	0.000	0.050	0.1508	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.00	0.000	0.046	0.1491	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.23	0.000	0.059	0.1552	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.73	0.000	0.056	0.1793	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.207	0.1719	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.037	0.1706	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.035	0.1693	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.033	0.1681	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.032	0.1670	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.030	0.1659	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.00	0.000	0.029	0.1649	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.00	0.000	0.028	0.1639	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.027	0.1629	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.026	0.1620	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.025	0.1611	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.024	0.1602	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.02	0.000	0.036	0.1596	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.023	0.1588	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.023	0.1580	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.022	0.1572	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.022	0.1564	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.00	0.000	0.021	0.1557	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.021	0.1549	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.020	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.020	0.1535	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.019	0.1528	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.019	0.1521	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.07	0.000	0.037	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.018	0.1526	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.018	0.1520	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.018	0.1514	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.018	0.1507	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.016	0.1502	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.017	0.1496	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.017	0.1490	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.017	0.1484	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.016	0.1478	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.00	0.000	0.016	0.1472	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.00	0.000	0.016	0.1467	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.016	0.1461	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.015	0.1455	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.015	0.1450	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.015	0.1445	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.014	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.015	0.1434	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.014	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.20	0.000	0.033	0.1489	0.0000	0.000	0.000	0.0000	0.000	0.000

294		0.04	0.000	0.031	0.1492	0.0000	0.000	0.000	0.0000	0.000	0.000
295		0.17	0.000	0.033	0.1541	0.0000	0.000	0.000	0.0000	0.000	0.000
296		0.14	0.000	0.033	0.1579	0.0000	0.000	0.000	0.0000	0.000	0.000
297		0.00	0.000	0.014	0.1574	0.0000	0.000	0.000	0.0000	0.000	0.000
298		0.00	0.000	0.014	0.1570	0.0000	0.000	0.000	0.0000	0.000	0.000
299		0.00	0.000	0.013	0.1565	0.0000	0.000	0.000	0.0000	0.000	0.000
300		0.00	0.000	0.013	0.1560	0.0000	0.000	0.000	0.0000	0.000	0.000
301		0.00	0.000	0.013	0.1555	0.0000	0.000	0.000	0.0000	0.000	0.000
302		0.00	0.000	0.013	0.1551	0.0000	0.000	0.000	0.0000	0.000	0.000
303		0.55	0.000	0.032	0.1736	0.0000	0.000	0.000	0.0000	0.000	0.000
304		0.22	0.000	0.097	0.1779	0.0000	0.000	0.000	0.0000	0.000	0.000
305		0.25	0.000	0.092	0.1836	0.0000	0.000	0.000	0.0000	0.000	0.000
306		0.00	0.000	0.098	0.1801	0.0000	0.000	0.000	0.0000	0.000	0.000
307		0.00	0.000	0.087	0.1770	0.0000	0.000	0.000	0.0000	0.000	0.000
308		0.00	0.000	0.073	0.1744	0.0000	0.000	0.000	0.0000	0.000	0.000
309		0.00	0.000	0.095	0.1710	0.0000	0.000	0.000	0.0000	0.000	0.000
310		0.00	0.000	0.088	0.1678	0.0000	0.000	0.000	0.0000	0.000	0.000
311		0.00	0.000	0.094	0.1645	0.0000	0.000	0.000	0.0000	0.000	0.000
312		0.22	0.000	0.090	0.1691	0.0000	0.000	0.000	0.0000	0.000	0.000
313		0.02	0.000	0.076	0.1671	0.0000	0.000	0.000	0.0000	0.000	0.000
314		0.00	0.000	0.054	0.1652	0.0000	0.000	0.000	0.0000	0.000	0.000
315		0.00	0.000	0.047	0.1635	0.0000	0.000	0.000	0.0000	0.000	0.000
316		0.00	0.000	0.043	0.1620	0.0000	0.000	0.000	0.0000	0.000	0.000
317		0.00	0.000	0.039	0.1605	0.0000	0.000	0.000	0.0000	0.000	0.000
318		0.00	0.000	0.037	0.1592	0.0000	0.000	0.000	0.0000	0.000	0.000
319		0.00	0.000	0.034	0.1580	0.0000	0.000	0.000	0.0000	0.000	0.000
320		0.00	0.000	0.033	0.1568	0.0000	0.000	0.000	0.0000	0.000	0.000
321		0.00	0.000	0.031	0.1557	0.0000	0.000	0.000	0.0000	0.000	0.000
322		0.00	0.000	0.030	0.1547	0.0000	0.000	0.000	0.0000	0.000	0.000
323		0.00	0.000	0.028	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
324		0.00	0.000	0.027	0.1527	0.0000	0.000	0.000	0.0000	0.000	0.000
325		0.00	0.000	0.026	0.1517	0.0000	0.000	0.000	0.0000	0.000	0.000
326		0.00	0.000	0.025	0.1508	0.0000	0.000	0.000	0.0000	0.000	0.000
327		0.00	0.000	0.025	0.1500	0.0000	0.000	0.000	0.0000	0.000	0.000
328		0.00	0.000	0.024	0.1491	0.0000	0.000	0.000	0.0000	0.000	0.000
329		0.00	0.000	0.023	0.1483	0.0000	0.000	0.000	0.0000	0.000	0.000
330		0.00	0.000	0.022	0.1475	0.0000	0.000	0.000	0.0000	0.000	0.000
331		0.00	0.000	0.022	0.1467	0.0000	0.000	0.000	0.0000	0.000	0.000
332		0.00	0.000	0.022	0.1459	0.0000	0.000	0.000	0.0000	0.000	0.000
333		0.00	0.000	0.021	0.1451	0.0000	0.000	0.000	0.0000	0.000	0.000
334		0.00	0.000	0.021	0.1444	0.0000	0.000	0.000	0.0000	0.000	0.000
335		0.00	0.000	0.020	0.1437	0.0000	0.000	0.000	0.0000	0.000	0.000
336		0.00	0.000	0.020	0.1430	0.0000	0.000	0.000	0.0000	0.000	0.000
337		0.00	0.000	0.019	0.1423	0.0000	0.000	0.000	0.0000	0.000	0.000
338		0.00	0.000	0.019	0.1416	0.0000	0.000	0.000	0.0000	0.000	0.000
339		0.00	0.000	0.019	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
340		0.00	0.000	0.018	0.1403	0.0000	0.000	0.000	0.0000	0.000	0.000
341		0.00	0.000	0.018	0.1396	0.0000	0.000	0.000	0.0000	0.000	0.000
342		0.00	0.000	0.018	0.1390	0.0000	0.000	0.000	0.0000	0.000	0.000
343		0.00	0.000	0.018	0.1383	0.0000	0.000	0.000	0.0000	0.000	0.000
344		0.00	0.000	0.017	0.1377	0.0000	0.000	0.000	0.0000	0.000	0.000
345		0.00	0.000	0.017	0.1371	0.0000	0.000	0.000	0.0000	0.000	0.000
346		0.00	0.000	0.017	0.1365	0.0000	0.000	0.000	0.0000	0.000	0.000
347		0.00	0.000	0.017	0.1359	0.0000	0.000	0.000	0.0000	0.000	0.000
348		0.00	0.000	0.016	0.1353	0.0000	0.000	0.000	0.0000	0.000	0.000
349		0.00	0.000	0.016	0.1348	0.0000	0.000	0.000	0.0000	0.000	0.000
350		0.00	0.000	0.016	0.1342	0.0000	0.000	0.000	0.0000	0.000	0.000
351		0.00	0.000	0.016	0.1336	0.0000	0.000	0.000	0.0000	0.000	0.000
352	*	0.00	0.000	0.016	0.1331	0.0000	0.000	0.000	0.0000	0.000	0.000
353	*	0.00	0.000	0.015	0.1325	0.0000	0.000	0.000	0.0000	0.000	0.000
354	*	0.00	0.000	0.000	0.1325	0.0000	0.000	0.000	0.0000	0.000	0.000
355	*	0.00	0.000	0.015	0.1320	0.0000	0.000	0.000	0.0000	0.000	0.000
356		0.00	0.000	0.015	0.1314	0.0000	0.000	0.000	0.0000	0.000	0.000
357		0.00	0.000	0.015	0.1309	0.0000	0.000	0.000	0.0000	0.000	0.000
358		0.00	0.000	0.015	0.1304	0.0000	0.000	0.000	0.0000	0.000	0.000
359		0.00	0.000	0.015	0.1299	0.0000	0.000	0.000	0.0000	0.000	0.000
360		0.00	0.000	0.014	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
361		0.00	0.000	0.014	0.1288	0.0000	0.000	0.000	0.0000	0.000	0.000
362		0.00	0.000	0.014	0.1283	0.0000	0.000	0.000	0.0000	0.000	0.000
363		0.07	0.000	0.028	0.1298	0.0000	0.000	0.000	0.0000	0.000	0.000
364		0.03	0.000	0.026	0.1300	0.0000	0.000	0.000	0.0000	0.000	0.000

365	0.00	0.000	0.014	0.1295	0.0000	0.000	0.000	0.0000	0.000	0.000
366	0.01	0.000	0.020	0.1291	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 8

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.15	0.98	0.06	1.22	0.18	0.06
	0.69	4.22	1.05	1.57	0.24	0.11
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.081	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.134	0.863	0.197	1.223	0.180	0.018
	0.394	2.993	1.154	0.722	1.358	0.517
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 8	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

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ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	10.53	3332669.201	100.00
RUNOFF	0.081	25574.797	0.77
EVAPOTRANSPIRATION	9.752	3086286.659	92.61
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00

AVG. HEAD ON TOP OF LAYER 6	0.0000		
DRAINAGE COLLECTED FROM LAYER 7	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 9	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 8	0.0000		
CHANGE IN WATER STORAGE	0.698	220807.795	6.63
SOIL WATER AT START OF YEAR	130.241	41220316.909	
SOIL WATER AT END OF YEAR	130.939	41441124.703	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.050	0.00

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HEAD #1: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #1: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 6
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 8
DRAIN #2: LATERAL DRAINAGE FROM LAYER 7 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 9

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DAILY OUTPUT FOR YEAR 9

DAY	AIR	SOIL	RAIN IN.	RUNOFF IN.	ET IN.	E. ZONE WATER IN./IN.	HEAD #1 IN.	DRAIN #1 IN.	LEAK #1 IN.	HEAD #2 IN.	DRAIN #2 IN.	LEAK #2 IN.
1			0.00	0.000	0.013	0.1287	0.0000	0.000	0.000	0.0000	0.000	0.000
2			0.00	0.000	0.013	0.1282	0.0000	0.000	0.000	0.0000	0.000	0.000
3			0.00	0.000	0.013	0.1277	0.0000	0.000	0.000	0.0000	0.000	0.000
4			0.00	0.000	0.013	0.1272	0.0000	0.000	0.000	0.0000	0.000	0.000
5			0.00	0.000	0.013	0.1268	0.0000	0.000	0.000	0.0000	0.000	0.000
6			0.34	0.000	0.026	0.1380	0.0000	0.000	0.000	0.0000	0.000	0.000
7			0.00	0.000	0.013	0.1375	0.0000	0.000	0.000	0.0000	0.000	0.000
8			0.00	0.000	0.013	0.1371	0.0000	0.000	0.000	0.0000	0.000	0.000
9			0.00	0.000	0.013	0.1366	0.0000	0.000	0.000	0.0000	0.000	0.000
10			0.00	0.000	0.012	0.1362	0.0000	0.000	0.000	0.0000	0.000	0.000
11			0.00	0.000	0.012	0.1357	0.0000	0.000	0.000	0.0000	0.000	0.000
12			0.00	0.000	0.012	0.1353	0.0000	0.000	0.000	0.0000	0.000	0.000
13			0.00	0.000	0.012	0.1349	0.0000	0.000	0.000	0.0000	0.000	0.000
14			0.00	0.000	0.012	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
15			0.00	0.000	0.012	0.1340	0.0000	0.000	0.000	0.0000	0.000	0.000
16			0.00	0.000	0.012	0.1336	0.0000	0.000	0.000	0.0000	0.000	0.000
17			0.00	0.000	0.012	0.1331	0.0000	0.000	0.000	0.0000	0.000	0.000
18			0.00	0.000	0.012	0.1327	0.0000	0.000	0.000	0.0000	0.000	0.000
19			0.00	0.000	0.012	0.1323	0.0000	0.000	0.000	0.0000	0.000	0.000
20			0.00	0.000	0.012	0.1319	0.0000	0.000	0.000	0.0000	0.000	0.000
21			0.00	0.000	0.012	0.1315	0.0000	0.000	0.000	0.0000	0.000	0.000
22			0.00	0.000	0.011	0.1311	0.0000	0.000	0.000	0.0000	0.000	0.000

23		0.00	0.000	0.011	0.1307	0.0000	0.000	0.000	0.0000	0.000	0.000
24		0.00	0.000	0.011	0.1303	0.0000	0.000	0.000	0.0000	0.000	0.000
25		0.12	0.000	0.023	0.1337	0.0000	0.000	0.000	0.0000	0.000	0.000
26		0.03	0.000	0.022	0.1340	0.0000	0.000	0.000	0.0000	0.000	0.000
27		0.00	0.000	0.011	0.1336	0.0000	0.000	0.000	0.0000	0.000	0.000
28		0.00	0.000	0.011	0.1332	0.0000	0.000	0.000	0.0000	0.000	0.000
29		0.00	0.000	0.011	0.1328	0.0000	0.000	0.000	0.0000	0.000	0.000
30		0.00	0.000	0.011	0.1324	0.0000	0.000	0.000	0.0000	0.000	0.000
31		0.00	0.000	0.011	0.1320	0.0000	0.000	0.000	0.0000	0.000	0.000
32		0.00	0.000	0.011	0.1317	0.0000	0.000	0.000	0.0000	0.000	0.000
33		0.00	0.000	0.011	0.1313	0.0000	0.000	0.000	0.0000	0.000	0.000
34		0.00	0.000	0.011	0.1309	0.0000	0.000	0.000	0.0000	0.000	0.000
35		0.00	0.000	0.011	0.1305	0.0000	0.000	0.000	0.0000	0.000	0.000
36		0.00	0.000	0.011	0.1301	0.0000	0.000	0.000	0.0000	0.000	0.000
37		0.00	0.000	0.010	0.1298	0.0000	0.000	0.000	0.0000	0.000	0.000
38		0.00	0.000	0.010	0.1294	0.0000	0.000	0.000	0.0000	0.000	0.000
39		0.00	0.000	0.010	0.1290	0.0000	0.000	0.000	0.0000	0.000	0.000
40		0.08	0.000	0.021	0.1311	0.0000	0.000	0.000	0.0000	0.000	0.000
41		0.02	0.000	0.019	0.1311	0.0000	0.000	0.000	0.0000	0.000	0.000
42		0.21	0.000	0.021	0.1379	0.0000	0.000	0.000	0.0000	0.000	0.000
43		0.17	0.000	0.021	0.1432	0.0000	0.000	0.000	0.0000	0.000	0.000
44		0.00	0.000	0.010	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
45		0.00	0.000	0.010	0.1425	0.0000	0.000	0.000	0.0000	0.000	0.000
46		0.00	0.000	0.010	0.1421	0.0000	0.000	0.000	0.0000	0.000	0.000
47		0.00	0.000	0.010	0.1418	0.0000	0.000	0.000	0.0000	0.000	0.000
48		0.00	0.000	0.010	0.1414	0.0000	0.000	0.000	0.0000	0.000	0.000
49		0.00	0.000	0.010	0.1411	0.0000	0.000	0.000	0.0000	0.000	0.000
50		0.00	0.000	0.010	0.1407	0.0000	0.000	0.000	0.0000	0.000	0.000
51		0.00	0.000	0.010	0.1404	0.0000	0.000	0.000	0.0000	0.000	0.000
52		0.00	0.000	0.010	0.1400	0.0000	0.000	0.000	0.0000	0.000	0.000
53		0.33	0.000	0.020	0.1511	0.0000	0.000	0.000	0.0000	0.000	0.000
54		0.13	0.000	0.020	0.1551	0.0000	0.000	0.000	0.0000	0.000	0.000
55		0.00	0.000	0.010	0.1547	0.0000	0.000	0.000	0.0000	0.000	0.000
56		0.00	0.000	0.010	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
57		0.00	0.000	0.010	0.1540	0.0000	0.000	0.000	0.0000	0.000	0.000
58		0.00	0.000	0.009	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
59		0.00	0.000	0.009	0.1534	0.0000	0.000	0.000	0.0000	0.000	0.000
60	*	0.10	0.000	0.072	0.1541	0.0000	0.000	0.000	0.0000	0.000	0.000
61		0.00	0.000	0.017	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
62		0.00	0.000	0.009	0.1534	0.0000	0.000	0.000	0.0000	0.000	0.000
63		0.00	0.000	0.009	0.1531	0.0000	0.000	0.000	0.0000	0.000	0.000
64		0.00	0.000	0.009	0.1527	0.0000	0.000	0.000	0.0000	0.000	0.000
65		0.00	0.000	0.009	0.1524	0.0000	0.000	0.000	0.0000	0.000	0.000
66		0.07	0.000	0.018	0.1543	0.0000	0.000	0.000	0.0000	0.000	0.000
67		0.02	0.000	0.017	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
68		0.04	0.000	0.018	0.1552	0.0000	0.000	0.000	0.0000	0.000	0.000
69		0.00	0.000	0.009	0.1548	0.0000	0.000	0.000	0.0000	0.000	0.000
70		0.00	0.000	0.009	0.1545	0.0000	0.000	0.000	0.0000	0.000	0.000
71		0.00	0.000	0.009	0.1542	0.0000	0.000	0.000	0.0000	0.000	0.000
72		0.00	0.000	0.009	0.1539	0.0000	0.000	0.000	0.0000	0.000	0.000
73		0.00	0.000	0.009	0.1535	0.0000	0.000	0.000	0.0000	0.000	0.000
74		0.00	0.000	0.009	0.1532	0.0000	0.000	0.000	0.0000	0.000	0.000
75		0.00	0.000	0.009	0.1529	0.0000	0.000	0.000	0.0000	0.000	0.000
76		0.00	0.000	0.009	0.1525	0.0000	0.000	0.000	0.0000	0.000	0.000
77		0.00	0.000	0.009	0.1522	0.0000	0.000	0.000	0.0000	0.000	0.000
78		0.00	0.000	0.009	0.1519	0.0000	0.000	0.000	0.0000	0.000	0.000
79		0.00	0.000	0.009	0.1516	0.0000	0.000	0.000	0.0000	0.000	0.000
80		0.00	0.000	0.010	0.1512	0.0000	0.000	0.000	0.0000	0.000	0.000
81		0.02	0.000	0.017	0.1513	0.0000	0.000	0.000	0.0000	0.000	0.000
82		0.17	0.000	0.018	0.1568	0.0000	0.000	0.000	0.0000	0.000	0.000
83		0.03	0.000	0.018	0.1572	0.0000	0.000	0.000	0.0000	0.000	0.000
84		0.00	0.000	0.010	0.1569	0.0000	0.000	0.000	0.0000	0.000	0.000
85		0.00	0.000	0.010	0.1565	0.0000	0.000	0.000	0.0000	0.000	0.000
86		0.00	0.000	0.010	0.1562	0.0000	0.000	0.000	0.0000	0.000	0.000
87		0.00	0.000	0.010	0.1558	0.0000	0.000	0.000	0.0000	0.000	0.000
88		0.00	0.000	0.010	0.1554	0.0000	0.000	0.000	0.0000	0.000	0.000
89		0.02	0.000	0.017	0.1555	0.0000	0.000	0.000	0.0000	0.000	0.000
90		0.00	0.000	0.010	0.1552	0.0000	0.000	0.000	0.0000	0.000	0.000
91		0.00	0.000	0.010	0.1548	0.0000	0.000	0.000	0.0000	0.000	0.000
92		0.00	0.000	0.010	0.1544	0.0000	0.000	0.000	0.0000	0.000	0.000
93		0.00	0.000	0.010	0.1541	0.0000	0.000	0.000	0.0000	0.000	0.000

94	0.00	0.000	0.011	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
95	0.00	0.000	0.011	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
96	0.00	0.000	0.011	0.1529	0.0000	0.000	0.000	0.0000	0.000	0.000
97	0.04	0.000	0.018	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
98	0.00	0.000	0.011	0.1533	0.0000	0.000	0.000	0.0000	0.000	0.000
99	0.00	0.000	0.012	0.1529	0.0000	0.000	0.000	0.0000	0.000	0.000
100	0.00	0.000	0.012	0.1524	0.0000	0.000	0.000	0.0000	0.000	0.000
101	0.00	0.000	0.013	0.1520	0.0000	0.000	0.000	0.0000	0.000	0.000
102	0.00	0.000	0.013	0.1515	0.0000	0.000	0.000	0.0000	0.000	0.000
103	0.00	0.000	0.013	0.1511	0.0000	0.000	0.000	0.0000	0.000	0.000
104	0.00	0.000	0.013	0.1506	0.0000	0.000	0.000	0.0000	0.000	0.000
105	0.02	0.000	0.020	0.1506	0.0000	0.000	0.000	0.0000	0.000	0.000
106	0.00	0.000	0.014	0.1501	0.0000	0.000	0.000	0.0000	0.000	0.000
107	0.00	0.000	0.013	0.1496	0.0000	0.000	0.000	0.0000	0.000	0.000
108	0.00	0.000	0.014	0.1491	0.0000	0.000	0.000	0.0000	0.000	0.000
109	0.00	0.000	0.015	0.1486	0.0000	0.000	0.000	0.0000	0.000	0.000
110	0.00	0.000	0.015	0.1481	0.0000	0.000	0.000	0.0000	0.000	0.000
111	0.00	0.000	0.016	0.1475	0.0000	0.000	0.000	0.0000	0.000	0.000
112	0.00	0.000	0.015	0.1470	0.0000	0.000	0.000	0.0000	0.000	0.000
113	0.00	0.000	0.014	0.1465	0.0000	0.000	0.000	0.0000	0.000	0.000
114	0.00	0.000	0.015	0.1459	0.0000	0.000	0.000	0.0000	0.000	0.000
115	0.00	0.000	0.016	0.1453	0.0000	0.000	0.000	0.0000	0.000	0.000
116	0.00	0.000	0.016	0.1447	0.0000	0.000	0.000	0.0000	0.000	0.000
117	0.00	0.000	0.017	0.1442	0.0000	0.000	0.000	0.0000	0.000	0.000
118	0.00	0.000	0.018	0.1435	0.0000	0.000	0.000	0.0000	0.000	0.000
119	0.00	0.000	0.017	0.1429	0.0000	0.000	0.000	0.0000	0.000	0.000
120	0.00	0.000	0.017	0.1423	0.0000	0.000	0.000	0.0000	0.000	0.000
121	0.00	0.000	0.019	0.1416	0.0000	0.000	0.000	0.0000	0.000	0.000
122	0.00	0.000	0.020	0.1409	0.0000	0.000	0.000	0.0000	0.000	0.000
123	0.00	0.000	0.020	0.1402	0.0000	0.000	0.000	0.0000	0.000	0.000
124	0.00	0.000	0.022	0.1394	0.0000	0.000	0.000	0.0000	0.000	0.000
125	0.00	0.000	0.023	0.1386	0.0000	0.000	0.000	0.0000	0.000	0.000
126	0.00	0.000	0.023	0.1378	0.0000	0.000	0.000	0.0000	0.000	0.000
127	0.00	0.000	0.021	0.1370	0.0000	0.000	0.000	0.0000	0.000	0.000
128	0.00	0.000	0.025	0.1361	0.0000	0.000	0.000	0.0000	0.000	0.000
129	0.00	0.000	0.024	0.1353	0.0000	0.000	0.000	0.0000	0.000	0.000
130	0.00	0.000	0.027	0.1343	0.0000	0.000	0.000	0.0000	0.000	0.000
131	0.00	0.000	0.028	0.1333	0.0000	0.000	0.000	0.0000	0.000	0.000
132	0.00	0.000	0.028	0.1323	0.0000	0.000	0.000	0.0000	0.000	0.000
133	0.00	0.000	0.027	0.1313	0.0000	0.000	0.000	0.0000	0.000	0.000
134	0.00	0.000	0.030	0.1303	0.0000	0.000	0.000	0.0000	0.000	0.000
135	0.00	0.000	0.032	0.1291	0.0000	0.000	0.000	0.0000	0.000	0.000
136	0.00	0.000	0.035	0.1279	0.0000	0.000	0.000	0.0000	0.000	0.000
137	0.00	0.000	0.035	0.1266	0.0000	0.000	0.000	0.0000	0.000	0.000
138	0.00	0.000	0.038	0.1253	0.0000	0.000	0.000	0.0000	0.000	0.000
139	0.00	0.000	0.039	0.1239	0.0000	0.000	0.000	0.0000	0.000	0.000
140	0.00	0.000	0.039	0.1225	0.0000	0.000	0.000	0.0000	0.000	0.000
141	0.00	0.000	0.039	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
142	0.00	0.000	0.039	0.1197	0.0000	0.000	0.000	0.0000	0.000	0.000
143	0.00	0.000	0.042	0.1182	0.0000	0.000	0.000	0.0000	0.000	0.000
144	0.00	0.000	0.047	0.1165	0.0000	0.000	0.000	0.0000	0.000	0.000
145	0.00	0.000	0.052	0.1147	0.0000	0.000	0.000	0.0000	0.000	0.000
146	0.00	0.000	0.049	0.1129	0.0000	0.000	0.000	0.0000	0.000	0.000
147	0.00	0.000	0.050	0.1111	0.0000	0.000	0.000	0.0000	0.000	0.000
148	0.00	0.000	0.054	0.1092	0.0000	0.000	0.000	0.0000	0.000	0.000
149	0.00	0.000	0.048	0.1075	0.0000	0.000	0.000	0.0000	0.000	0.000
150	0.00	0.000	0.045	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
151	0.00	0.000	0.052	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
152	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
153	0.20	0.000	0.017	0.1105	0.0000	0.000	0.000	0.0000	0.000	0.000
154	0.00	0.000	0.028	0.1095	0.0000	0.000	0.000	0.0000	0.000	0.000
155	0.00	0.000	0.039	0.1081	0.0000	0.000	0.000	0.0000	0.000	0.000
156	0.09	0.000	0.051	0.1095	0.0000	0.000	0.000	0.0000	0.000	0.000
157	0.00	0.000	0.026	0.1086	0.0000	0.000	0.000	0.0000	0.000	0.000
158	0.00	0.000	0.030	0.1075	0.0000	0.000	0.000	0.0000	0.000	0.000
159	0.00	0.000	0.026	0.1066	0.0000	0.000	0.000	0.0000	0.000	0.000
160	0.00	0.000	0.015	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
161	0.10	0.000	0.023	0.1088	0.0000	0.000	0.000	0.0000	0.000	0.000
162	0.01	0.000	0.013	0.1087	0.0000	0.000	0.000	0.0000	0.000	0.000
163	0.13	0.000	0.034	0.1121	0.0000	0.000	0.000	0.0000	0.000	0.000
164	0.00	0.000	0.034	0.1109	0.0000	0.000	0.000	0.0000	0.000	0.000

165	0.00	0.000	0.035	0.1096	0.0000	0.000	0.000	0.0000	0.000	0.000
166	0.00	0.000	0.045	0.1080	0.0000	0.000	0.000	0.0000	0.000	0.000
167	0.00	0.000	0.044	0.1065	0.0000	0.000	0.000	0.0000	0.000	0.000
168	0.00	0.000	0.022	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
169	0.00	0.000	0.015	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
170	0.00	0.000	0.014	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
171	0.00	0.000	0.013	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
172	0.00	0.000	0.004	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
173	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
174	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
175	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
176	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
177	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
178	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
179	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
180	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
181	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
182	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
183	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
184	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
185	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
186	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
187	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
188	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
189	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
190	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
191	1.53	0.074	0.041	0.1545	0.0000	0.000	0.000	0.0000	0.000	0.000
192	0.00	0.000	0.260	0.1453	0.0000	0.000	0.000	0.0000	0.000	0.000
193	0.00	0.000	0.269	0.1357	0.0000	0.000	0.000	0.0000	0.000	0.000
194	0.00	0.000	0.321	0.1242	0.0000	0.000	0.000	0.0000	0.000	0.000
195	0.00	0.000	0.296	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
196	0.00	0.000	0.241	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
197	0.07	0.000	0.067	0.1051	0.0000	0.000	0.000	0.0000	0.000	0.000
198	0.00	0.000	0.018	0.1045	0.0000	0.000	0.000	0.0000	0.000	0.000
199	0.00	0.000	0.009	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
200	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
201	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
202	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
203	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
204	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
205	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
206	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
207	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
208	0.51	0.000	0.055	0.1203	0.0000	0.000	0.000	0.0000	0.000	0.000
209	0.00	0.000	0.155	0.1147	0.0000	0.000	0.000	0.0000	0.000	0.000
210	0.00	0.000	0.213	0.1071	0.0000	0.000	0.000	0.0000	0.000	0.000
211	0.00	0.000	0.071	0.1046	0.0000	0.000	0.000	0.0000	0.000	0.000
212	0.00	0.000	0.015	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
213	0.00	0.000	0.002	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
214	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
215	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
216	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
217	0.01	0.000	0.010	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
218	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
219	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
220	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
221	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
222	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
223	0.17	0.000	0.024	0.1092	0.0000	0.000	0.000	0.0000	0.000	0.000
224	0.00	0.000	0.009	0.1089	0.0000	0.000	0.000	0.0000	0.000	0.000
225	0.00	0.000	0.042	0.1074	0.0000	0.000	0.000	0.0000	0.000	0.000
226	0.00	0.000	0.031	0.1063	0.0000	0.000	0.000	0.0000	0.000	0.000
227	0.00	0.000	0.022	0.1055	0.0000	0.000	0.000	0.0000	0.000	0.000
228	0.00	0.000	0.018	0.1049	0.0000	0.000	0.000	0.0000	0.000	0.000
229	0.00	0.000	0.017	0.1043	0.0000	0.000	0.000	0.0000	0.000	0.000
230	0.00	0.000	0.006	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
231	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
232	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
233	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
234	0.35	0.000	0.024	0.1156	0.0000	0.000	0.000	0.0000	0.000	0.000
235	0.00	0.000	0.129	0.1110	0.0000	0.000	0.000	0.0000	0.000	0.000

236	0.00	0.000	0.170	0.1050	0.0000	0.000	0.000	0.0000	0.000	0.000
237	0.00	0.000	0.021	0.1042	0.0000	0.000	0.000	0.0000	0.000	0.000
238	0.00	0.000	0.005	0.1041	0.0000	0.000	0.000	0.0000	0.000	0.000
239	0.00	0.000	0.001	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
240	0.00	0.000	0.000	0.1040	0.0000	0.000	0.000	0.0000	0.000	0.000
241	0.23	0.000	0.025	0.1113	0.0000	0.000	0.000	0.0000	0.000	0.000
242	1.94	0.203	0.144	0.1682	0.0000	0.000	0.000	0.0000	0.000	0.000
243	0.00	0.000	0.211	0.1607	0.0000	0.000	0.000	0.0000	0.000	0.000
244	0.00	0.000	0.244	0.1519	0.0000	0.000	0.000	0.0000	0.000	0.000
245	0.00	0.000	0.258	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
246	0.00	0.000	0.284	0.1326	0.0000	0.000	0.000	0.0000	0.000	0.000
247	1.55	0.085	0.198	0.1778	0.0000	0.000	0.000	0.0000	0.000	0.000
248	0.84	0.009	0.208	0.2001	0.0000	0.000	0.000	0.0000	0.000	0.000
249	0.00	0.000	0.256	0.1909	0.0000	0.000	0.000	0.0000	0.000	0.000
250	0.00	0.000	0.248	0.1820	0.0000	0.000	0.000	0.0000	0.000	0.000
251	0.00	0.000	0.246	0.1733	0.0000	0.000	0.000	0.0000	0.000	0.000
252	0.00	0.000	0.196	0.1663	0.0000	0.000	0.000	0.0000	0.000	0.000
253	0.00	0.000	0.179	0.1599	0.0000	0.000	0.000	0.0000	0.000	0.000
254	0.00	0.000	0.221	0.1520	0.0000	0.000	0.000	0.0000	0.000	0.000
255	0.00	0.000	0.185	0.1454	0.0000	0.000	0.000	0.0000	0.000	0.000
256	0.00	0.000	0.166	0.1395	0.0000	0.000	0.000	0.0000	0.000	0.000
257	0.34	0.000	0.119	0.1474	0.0000	0.000	0.000	0.0000	0.000	0.000
258	0.28	0.000	0.101	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
259	0.00	0.000	0.203	0.1465	0.0000	0.000	0.000	0.0000	0.000	0.000
260	0.00	0.000	0.072	0.1440	0.0000	0.000	0.000	0.0000	0.000	0.000
261	0.00	0.000	0.062	0.1418	0.0000	0.000	0.000	0.0000	0.000	0.000
262	0.00	0.000	0.054	0.1398	0.0000	0.000	0.000	0.0000	0.000	0.000
263	0.00	0.000	0.051	0.1380	0.0000	0.000	0.000	0.0000	0.000	0.000
264	0.00	0.000	0.048	0.1363	0.0000	0.000	0.000	0.0000	0.000	0.000
265	0.00	0.000	0.048	0.1346	0.0000	0.000	0.000	0.0000	0.000	0.000
266	0.00	0.000	0.045	0.1329	0.0000	0.000	0.000	0.0000	0.000	0.000
267	0.00	0.000	0.038	0.1316	0.0000	0.000	0.000	0.0000	0.000	0.000
268	0.02	0.000	0.052	0.1304	0.0000	0.000	0.000	0.0000	0.000	0.000
269	0.00	0.000	0.036	0.1292	0.0000	0.000	0.000	0.0000	0.000	0.000
270	0.00	0.000	0.036	0.1279	0.0000	0.000	0.000	0.0000	0.000	0.000
271	0.00	0.000	0.035	0.1266	0.0000	0.000	0.000	0.0000	0.000	0.000
272	0.00	0.000	0.034	0.1254	0.0000	0.000	0.000	0.0000	0.000	0.000
273	0.00	0.000	0.032	0.1243	0.0000	0.000	0.000	0.0000	0.000	0.000
274	0.00	0.000	0.031	0.1232	0.0000	0.000	0.000	0.0000	0.000	0.000
275	0.00	0.000	0.029	0.1221	0.0000	0.000	0.000	0.0000	0.000	0.000
276	0.00	0.000	0.028	0.1211	0.0000	0.000	0.000	0.0000	0.000	0.000
277	0.00	0.000	0.028	0.1201	0.0000	0.000	0.000	0.0000	0.000	0.000
278	0.00	0.000	0.026	0.1192	0.0000	0.000	0.000	0.0000	0.000	0.000
279	0.00	0.000	0.025	0.1183	0.0000	0.000	0.000	0.0000	0.000	0.000
280	0.00	0.000	0.024	0.1175	0.0000	0.000	0.000	0.0000	0.000	0.000
281	0.00	0.000	0.023	0.1167	0.0000	0.000	0.000	0.0000	0.000	0.000
282	0.00	0.000	0.023	0.1158	0.0000	0.000	0.000	0.0000	0.000	0.000
283	0.00	0.000	0.023	0.1150	0.0000	0.000	0.000	0.0000	0.000	0.000
284	0.01	0.000	0.030	0.1143	0.0000	0.000	0.000	0.0000	0.000	0.000
285	0.00	0.000	0.021	0.1136	0.0000	0.000	0.000	0.0000	0.000	0.000
286	0.00	0.000	0.020	0.1128	0.0000	0.000	0.000	0.0000	0.000	0.000
287	0.00	0.000	0.020	0.1121	0.0000	0.000	0.000	0.0000	0.000	0.000
288	0.00	0.000	0.020	0.1114	0.0000	0.000	0.000	0.0000	0.000	0.000
289	0.00	0.000	0.019	0.1107	0.0000	0.000	0.000	0.0000	0.000	0.000
290	0.00	0.000	0.018	0.1101	0.0000	0.000	0.000	0.0000	0.000	0.000
291	0.00	0.000	0.018	0.1094	0.0000	0.000	0.000	0.0000	0.000	0.000
292	0.00	0.000	0.017	0.1088	0.0000	0.000	0.000	0.0000	0.000	0.000
293	0.00	0.000	0.017	0.1082	0.0000	0.000	0.000	0.0000	0.000	0.000
294	0.00	0.000	0.017	0.1076	0.0000	0.000	0.000	0.0000	0.000	0.000
295	0.00	0.000	0.016	0.1070	0.0000	0.000	0.000	0.0000	0.000	0.000
296	0.00	0.000	0.010	0.1067	0.0000	0.000	0.000	0.0000	0.000	0.000
297	0.00	0.000	0.007	0.1064	0.0000	0.000	0.000	0.0000	0.000	0.000
298	0.00	0.000	0.005	0.1062	0.0000	0.000	0.000	0.0000	0.000	0.000
299	0.00	0.000	0.004	0.1061	0.0000	0.000	0.000	0.0000	0.000	0.000
300	0.00	0.000	0.003	0.1060	0.0000	0.000	0.000	0.0000	0.000	0.000
301	0.00	0.000	0.002	0.1059	0.0000	0.000	0.000	0.0000	0.000	0.000
302	0.00	0.000	0.002	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
303	0.00	0.000	0.001	0.1058	0.0000	0.000	0.000	0.0000	0.000	0.000
304	0.00	0.000	0.001	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
305	0.00	0.000	0.001	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000
306	0.00	0.000	0.001	0.1057	0.0000	0.000	0.000	0.0000	0.000	0.000

307		1.56	0.081	0.029	0.1575	0.0000	0.000	0.000	0.0000	0.000	0.000
308		0.14	0.000	0.069	0.1600	0.0000	0.000	0.000	0.0000	0.000	0.000
309		0.00	0.000	0.056	0.1580	0.0000	0.000	0.000	0.0000	0.000	0.000
310		0.00	0.000	0.053	0.1561	0.0000	0.000	0.000	0.0000	0.000	0.000
311		0.00	0.000	0.076	0.1534	0.0000	0.000	0.000	0.0000	0.000	0.000
312		0.00	0.000	0.082	0.1505	0.0000	0.000	0.000	0.0000	0.000	0.000
313		0.00	0.000	0.078	0.1477	0.0000	0.000	0.000	0.0000	0.000	0.000
314		0.00	0.000	0.077	0.1449	0.0000	0.000	0.000	0.0000	0.000	0.000
315		0.00	0.000	0.072	0.1424	0.0000	0.000	0.000	0.0000	0.000	0.000
316		0.00	0.000	0.063	0.1401	0.0000	0.000	0.000	0.0000	0.000	0.000
317		0.00	0.000	0.078	0.1373	0.0000	0.000	0.000	0.0000	0.000	0.000
318		0.00	0.000	0.083	0.1344	0.0000	0.000	0.000	0.0000	0.000	0.000
319		0.00	0.000	0.077	0.1316	0.0000	0.000	0.000	0.0000	0.000	0.000
320		0.00	0.000	0.059	0.1295	0.0000	0.000	0.000	0.0000	0.000	0.000
321		0.00	0.000	0.050	0.1277	0.0000	0.000	0.000	0.0000	0.000	0.000
322		0.00	0.000	0.047	0.1260	0.0000	0.000	0.000	0.0000	0.000	0.000
323		0.00	0.000	0.042	0.1245	0.0000	0.000	0.000	0.0000	0.000	0.000
324		0.00	0.000	0.039	0.1231	0.0000	0.000	0.000	0.0000	0.000	0.000
325		0.00	0.000	0.036	0.1218	0.0000	0.000	0.000	0.0000	0.000	0.000
326		0.00	0.000	0.034	0.1206	0.0000	0.000	0.000	0.0000	0.000	0.000
327		0.00	0.000	0.032	0.1195	0.0000	0.000	0.000	0.0000	0.000	0.000
328		0.00	0.000	0.031	0.1184	0.0000	0.000	0.000	0.0000	0.000	0.000
329		0.00	0.000	0.029	0.1173	0.0000	0.000	0.000	0.0000	0.000	0.000
330		0.00	0.000	0.028	0.1163	0.0000	0.000	0.000	0.0000	0.000	0.000
331		0.00	0.000	0.027	0.1153	0.0000	0.000	0.000	0.0000	0.000	0.000
332		0.92	0.000	0.040	0.1468	0.0000	0.000	0.000	0.0000	0.000	0.000
333		0.52	0.000	0.068	0.1629	0.0000	0.000	0.000	0.0000	0.000	0.000
334		0.03	0.000	0.067	0.1615	0.0000	0.000	0.000	0.0000	0.000	0.000
335		0.00	0.000	0.084	0.1585	0.0000	0.000	0.000	0.0000	0.000	0.000
336		0.00	0.000	0.070	0.1560	0.0000	0.000	0.000	0.0000	0.000	0.000
337		0.00	0.000	0.065	0.1537	0.0000	0.000	0.000	0.0000	0.000	0.000
338		0.00	0.000	0.065	0.1514	0.0000	0.000	0.000	0.0000	0.000	0.000
339		0.00	0.000	0.060	0.1493	0.0000	0.000	0.000	0.0000	0.000	0.000
340		0.00	0.000	0.066	0.1469	0.0000	0.000	0.000	0.0000	0.000	0.000
341		0.00	0.000	0.059	0.1448	0.0000	0.000	0.000	0.0000	0.000	0.000
342		0.04	0.000	0.069	0.1438	0.0000	0.000	0.000	0.0000	0.000	0.000
343		0.00	0.000	0.061	0.1416	0.0000	0.000	0.000	0.0000	0.000	0.000
344		0.00	0.000	0.062	0.1393	0.0000	0.000	0.000	0.0000	0.000	0.000
345		0.03	0.000	0.062	0.1382	0.0000	0.000	0.000	0.0000	0.000	0.000
346		0.00	0.000	0.063	0.1359	0.0000	0.000	0.000	0.0000	0.000	0.000
347		0.54	0.000	0.085	0.1522	0.0000	0.000	0.000	0.0000	0.000	0.000
348		0.00	0.000	0.064	0.1499	0.0000	0.000	0.000	0.0000	0.000	0.000
349		0.00	0.000	0.066	0.1475	0.0000	0.000	0.000	0.0000	0.000	0.000
350		0.00	0.000	0.059	0.1454	0.0000	0.000	0.000	0.0000	0.000	0.000
351		0.00	0.000	0.076	0.1427	0.0000	0.000	0.000	0.0000	0.000	0.000
352		0.00	0.000	0.065	0.1404	0.0000	0.000	0.000	0.0000	0.000	0.000
353		0.00	0.000	0.065	0.1380	0.0000	0.000	0.000	0.0000	0.000	0.000
354		0.06	0.000	0.081	0.1373	0.0000	0.000	0.000	0.0000	0.000	0.000
355		0.02	0.000	0.089	0.1348	0.0000	0.000	0.000	0.0000	0.000	0.000
356		0.00	0.000	0.064	0.1326	0.0000	0.000	0.000	0.0000	0.000	0.000
357		0.00	0.000	0.054	0.1306	0.0000	0.000	0.000	0.0000	0.000	0.000
358		0.00	0.000	0.047	0.1290	0.0000	0.000	0.000	0.0000	0.000	0.000
359		0.00	0.000	0.043	0.1274	0.0000	0.000	0.000	0.0000	0.000	0.000
360	*	0.00	0.000	0.039	0.1260	0.0000	0.000	0.000	0.0000	0.000	0.000
361	*	0.00	0.000	0.037	0.1247	0.0000	0.000	0.000	0.0000	0.000	0.000
362	*	0.00	0.000	0.034	0.1235	0.0000	0.000	0.000	0.0000	0.000	0.000
363	*	0.00	0.000	0.032	0.1223	0.0000	0.000	0.000	0.0000	0.000	0.000
364		0.00	0.000	0.031	0.1212	0.0000	0.000	0.000	0.0000	0.000	0.000
365		0.00	0.000	0.030	0.1202	0.0000	0.000	0.000	0.0000	0.000	0.000

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MONTHLY TOTALS (IN INCHES) FOR YEAR 9
