WATER ANALYSIS REPORT

(Standard Irrigation , Test 3)

S	SOIL AND WATER TESTING LA	BORATORY 4642
Lab No. 188		Date8/4/69
NAME Don C. Wiley &	Fluid Pump Co.	
ADDRESS 1116 Bank of Na	w Mexico Albuquerque, New M	Mexico
Sample Number: 1	Sample	e Received:
pH	7.6	
Total Soluble Salts: EC x 10 ⁶	5500 Parts Per Millio	on <u>3520</u>
Total Dissolved Solids	16584 ppm* (or44776 pounds	s per acre foot of water)
	meq/1** (or pounds igh to measure with out flame pho	
Extremely poor water	for irrigation pump., due to yer	y high salt and sodium content.
	Sodium - Adsorption - Ratio	(SAR)
	Residual Sodium Carbonate	(RSC)
WATER CLASSIFICATION: **		0 4
	U. S. Salinity Laboratory Syst	
	New Mexico State University Sy	ystem:
	(See reverse side for explan	nation)

^{*} ppm = parts per million

^{**} meq/l = milliequivalents per liter

EXPLANATION ***

Sal	linity Hazard				
	Low-Salinity Water (C1) can be used for irrigation with most crops in most soils with little likelihood that soil salinity will develop.				
	Medium-Salinity Water (C2) can be used if a moderate amount of leaching occurs.				
	High-Salinity Water (C3) cannot be used on soils with restricted drainage.				
\(\overline{\ove	Very-High-Salinity Water (C4) is not suitable for irrigation under ordinary conditions, but may be used occasionally under very special circumstances.				
Soc	dium Hazard				
	Low-Sodium Water (S1) can be used for irrigation on almost all soils with little danger of the development of harmful levels of sodium.				
	Medium-Sodium Water (S2) will possibly cause a sodium hazard in fine-textured soils, under low-leaching conditions. This water can be used on course-textured soils with good permeability.				
	High-Sodium Water (S3) may produce a sodium hazard and will require special soil management—good drainage, high leaching, and possibly the use of chemical amendments such as gypsum.				
	Very-High-Sodium Water (S4) is usually unsatisfactory for irrigation purposes.				
NMS	SU Classification System				
	The system used by the University is based upon three classes of water, which take o account salinity and sodium hazard.				
	Class 1 water is suitable for use for most crops under most conditions.				
	Class 2 water can be used satisfactorily for most crops if care is taken to prevent the accumulation of soluble salt and sodium in the soil.				
	Class 3 water is generally unsatisfactory for crop production. Less salty waters in Class 3 may be used as a supplemental source if the regular water is of better quality.				
***	Refer to the enclosed "Plant Science Guides" for additional information:				
	400 A-108 "Irrigation Waters"				
	400 A-110 "Classification of Irrigation Waters"				

Sincerely,

C. D. Leedy Extension Soils Specialist

WATER ANALYSIS REPORT

(Standard Irrigation , Test 3)

SOIL AND WATER TESTING LABORATORY

Lab No.	189		Date	8/4/69
NAME	Don C. Wiley	& Fluid Pump Co.		
ADDRESS _	1116 Bank of 1	New Maxico	Albuquerque, New Mexico	
Sample Nu	umber:		Sample Received:	
pH		7.8		
	luble Salts: x 10 ⁶	5500	Parts Per Million 3520	
Total Dis	ssolved Solids	<u>16692</u> ppm*	(or 45068 pounds per acre fo	ot of water)
Sodium (N Sodiu			(orpounds of Na per a	cre foot of water)
Extre	emely poor water	for irrigation	pump, due to very high salt and	l sodium content.
		Sodium - A	dsorption - Ratio (SAR)	
		Residual S	odium Carbonate (RSC)	
WATER CLA	ASSIFICATION: :	***		
		U. S. Salini	ty Laboratory System:C_	4
		New Mexico S	tate University System:	
		(See rever	se side for explanation)	

^{*} ppm = parts per million

^{**} meq/1 = milliequivalents per liter

EXPLANATION ***

sa.	inity Hazard			
	Low-Salinity Water (Cl) can be used for irrigation with most crops in most soils with little likelihood that soil salinity will develop.			
	Medium-Salinity Water (C2) can be used if a moderate amount of leaching occurs.			
	High-Salinity Water (C3) cannot be used on soils with restricted drainage.			
Ø	Very-High-Salinity Water (C4) is not suitable for irrigation under ordinary conditions, but may be used occasionally under very special circumstances.			
Soc	ium Hazard			
	Low-Sodium Water (S1) can be used for irrigation on almost all soils with little danger of the development of harmful levels of sodium.			
	Medium-Sodium Water (S2) will possibly cause a sodium hazard in fine-textured soils, under low-leaching conditions. This water can be used on course-textured soils with good permeability.			
	High-Sodium Water (S3) may produce a sodium hazard and will require special soil management—good drainage, high leaching, and possibly the use of chemical amendments such as gypsum.			
	Very-High-Sodium Water (S4) is usually unsatisfactory for irrigation purposes.			
NMS	U Classification System			
int	The system used by the University is based upon three classes of water, which take account salinity and sodium hazard.			
	Class l water is suitable for use for most crops under most conditions.			
	Class 2 water can be used satisfactorily for most crops if care is taken to prevent the accumulation of soluble salt and sodium in the soil.			
	Class 3 water is generally unsatisfactory for crop production. Less salty waters in Class 3 may be used as a supplemental source if the regular water is of better quality.			
***	Refer to the enclosed "Plant Science Guides" for additional information:			
	400 A-108 "Irrigation Waters"			
	400 A-110 "Classification of Irrigation Waters"			

Sincerely,

C. D. Leedy
Extension Soils Specialist