

Spill Volume Estimation Spreadsheet							
Worksheet must be completed by an individual trained in spill estimation before final estimate is valid							
Appearance	Unit	Approx depth	Length (ft)	Width (ft)	Coverage*	est. bbls	est. gal
barely visible (on water)	.5 microns	0.00000164			100%	0	0.00
Silvery (tiny droplets)	1 micron	0.00000328			100%	0.00	0.00
Rainbow (droplets)	5 microns	0.00001640			100%	0.00	0.00
Dull color (light covering)	10 microns	0.00003281			100%	0.00	0.00
Dark Color (covering)	50 microns	0.00016404			100%	0.00	0.00
Actual depth	<i>inches</i>	0.25000000	102.00	54.00	100%	20.44	858.33
Actual depth	<i>inches</i>	0.50000000	15.00	10.00	100%	1.11	46.75
Actual depth	<i>inches</i>	1.00000000			100%	0.00	0.00
*Click conversions tab for help						21.55	905.08

Spreadsheet converts area measurements to volume (cubic feet), then shows barrels and gallons

The oil in the total volume area may be displaced by other material (soil, scoria, snow, etc). Use the coverage percent to estimate the oil in the volume

** Depth amounts taken from Austrailian Maritime Safety Authority website

http://amsa.gov.au/Marine_Environment_Protection/Educational_resources_and_information/Teachers/Classroom_Projects/Mathematics_and_Oil_Spills.asp

Comments/Description: