

# Bulk Density of Soil (Metric)

AVERAGE BULK DENSITY PER SOIL TYPE				
Material	Density			
	(lb/ft <sup>3</sup> )	(g/cm <sup>3</sup> )	(kg/m <sup>3</sup> )	(kN/m <sup>3</sup> )
Dirt, loose dry	76	1.21	1220	11.9
Dirt, loose moist	78	1.25	1250	12.3
Clay, dry	100	1.6	1600	15.7
Clay, wet	110	1.76	1760	17.3
Gravel, dry	105	1.68	1680	16.5
Gravel, Wet	125	2	2000	19.6
Limestone	160	2.56	2560	25.1
Loam	80	1.28	1280	12.5
Mud, flowing	108	1.73	1730	16.9
Mud, steady	115	1.84	1840	18
Rock, well blasted	155	2.48	2480	24.3
Sand, dry	97	1.55	1555	15.2
Sand, wet	119	1.91	1905	18.7
COS coarse sand	100	1.60	1602	16.0
S sand	103	1.65	1652	16.5
FS fine sand	103	1.65	1652	16.5
VFS very fine sand	100	1.60	1602	16.0
LCOS loamy coarse sand	103	1.65	1652	16.5
LS loamy sand	100	1.60	1602	16.0
LFS loamy fine sand	100	1.60	1602	16.0
LVFS loamy very fine sand	99	1.58	1582	15.8
COSL coarse sandy loam	99	1.58	1582	15.8
SL sandy loam	97	1.55	1552	15.5
FSL fine sandy loam	97	1.55	1552	15.5
VFSL very fine sandy loam	94	1.50	1502	15.0
SIL silt loam	94	1.50	1502	15.0
SI silt	91	1.45	1452	14.5
SCL sandy clay loam	94	1.50	1502	15.0
CL clay loam	91	1.45	1452	14.5
SICL silty clay loam	94	1.50	1502	15.0
SC sandy clay	88	1.40	1402	14.0
C clay	84	1.35	1352	13.5
SIC silty clay	91	1.45	1452	14.5

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