Table 1: Input Soil Parameters

Symbol	Parameter Description	Value	Unit
LL	Liquid Limit	42	%
PL	Plastic Limit	32	%
IP	Plastic Index	10	%
w	Moisture Content	26.7	%
e	Void Ratio	.75	
Gs	Specific Gravity	2.72	
gsat	Saturated Unit Weight	22.5	kN/m3
gdry	Dry Unit Weight	17	kN/m3
F	Percent fine-grained (clay & silt)	65.3	%

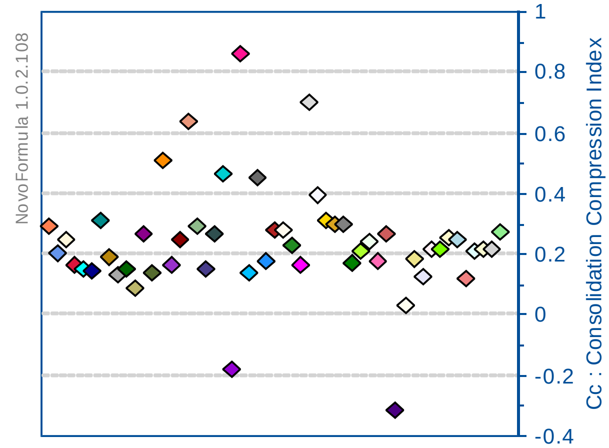

Table 2: Estimated Values For Cc : Consolidation Compression Index

Formula Source (Comments)	Value	Equation
Terzaghi & Peck, 1967 (Clays of moderate sensitivity (-30% to +30% error))	0.288	$C_c = 0.009*(LL-10)$
Azzouz et al., 1976 (678 data points)	0.2022716	$C_c = 0.37(e+0.003LL+0.0004w-0.34)$
Azzouz et al., 1976 (Remoulded clays)	0.245	$C_c = 0.007(LL-7)$
Azzouz et al., 1976 (Chicago clays)	0.1643	$C_c = 0.208e+0.0083$
Azzouz et al., 1976 (Chicago clays)	0.1492274	$C_c = 17.66X10^{-5}w^2+5.93X10^{-3}w-0.135$
Hough, 1957 (Inorganic cohesive soil (silt, some clay, silty clay, clay))	0.144	$C_c = 0.3(e-0.27)$
Azzouz et al., 1976 (Organic soils-meadow mats, peats, and organic silt and clay)	0.30705	$C_c = 0.0115w$
Azzouz et al., 1976 (Soils of very low plasticity)	0.1875	$C_c = 0.75(e-0.5)$
Azzouz et al., 1976 (All clays)	0.1277	$C_c = 0.156e+0.0107$
Azzouz et al., 1976 (Brazilian clays)	0.1518	$C_c = 0.0046(LL-9)$
Azzouz et al., 1976 (Motley clays from Sao Paulo)	0.0844	$C_c = 1.21+1.005(e-1.87)$
Mayne, 1980 (56 data points)	0.266055	$C_c = \frac{LL-13}{109}$
Wroth & Wood, 1978 (Remoulded clays)	0.136	$C_c = 0.5\frac{PI}{100}G_s$
Rendon & Herrero, 1983 (All clays)	0.5076	$C_c = 0.141G_s\frac{\gamma_{sat}}{\gamma_{dry}}$
Rendon & Herrero, 1983 (94 consolidation tests)	0.1640055	$C_c = 0.141G_s^{1.2}(\frac{1+e}{G_s})^{2.38}$
Koppula, 1981 (109 data points (Chicago clays))	0.24831	$Cc = 0.0093w$
Koppula, 1981 (109 data points)	0.63837	$C_c = -0.0997+0.009LL+0.0014IP+0.0036w+0.1156e+0.0025F$
Carrier, 1985 (All inorganic clays)	0.2925685	$Cc = 0.329(0.01w.G_s-0.027PL+0.0133IP(1.192+\frac{F}{IP})$
Nakase et al., 1988 (Best for PI<50%)	0.15	$C_c = 0.046+0.0104IP$
Nagaraj & Murty, 1985 (All inorganic clays)	0.2673216	$C_c = 0.00234LL.G_s$
Nishida, 1956 (All clays, uniformly packed)	0.46	$C_c = 1.15(e-0.35)$

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Nishida, 1956 (All clays, loosely packed e>0.91)	-0.184	$C_c = 1.15(e - 0.91)$
Nishida, 1956 (Assuming deformable but incompressible soil)	0.8625	$C_c = 1.15e$
Worth & Wood, 1978 ()	0.136	$C_c = 0.005G_s.IP$
Koppula, 1986 (All clays)	0.4503	$C_c = 0.009w + 0.005LL$
Al-khafaji & Andersland, 1992 (72 data points)	0.17661	$C_c = -0.156 + 0.411e + 0.00058LL$
Moh, Chin, Lin & Woo, 1989 (For Soils in Taipei)	0.2805	$C_c = 0.015(w - 8)$
Moh, Chin, Lin & Woo, 1989 (For Soils in Taipei)	0.2808	$C_c = 0.54(e - 0.23)$
Skempton, 1944 (Remoulded clays)	0.224	$C_c = 0.007(LL - 10)$
Nacci et al., 1975 (For North Atlantic clay)	0.16	$C_c = 0.02 + 0.014PI$
Yoon et al., 2004 (For south coast of Korea)	0.7008	$C_c = 0.012(LL + 16.4)$
Yoon et al., 2004 (For east coast of Korea)	0.39204	$C_c = 0.011(LL - 6.36)$
Yoon et al., 2004 (For west coast of Korea)	0.311	$C_c = 0.01(LL - 10.9)$
Yoon et al., 2004 (For south coast of Korea)	0.29705	$C_c = 0.013(w - 3.85)$
Yoon et al., 2004 (For east coast of Korea)	0.2953	$C_c = 0.01(w + 2.83)$
Yoon et al., 2004 (For west coast of Korea)	0.17028	$C_c = 0.011(w - 11.22)$
Yoon et al., 2004 (For south coast of Korea)	0.2052	$C_c = 0.54(e - 0.37)$
Yoon et al., 2004 (For east coast of Korea)	0.2418	$C_c = 0.39(e - 0.13)$
Yoon et al., 2004 (For west coast of Korea)	0.1739	$C_c = 0.37(e - 0.28)$
Yoon et al., 2004 (For east coast of Korea)	0.265	$C_c = 0.165 + \frac{PI}{100}$
Yoon et al., 2004 (For south coast of Korea)	-0.32	$C_c = -0.16\gamma_{dry} + 2.4$
Yoon et al., 2004 (For west coast of Korea)	0.028	$C_c = -0.066\gamma_{dry} + 1.15$
Yoon et al., 2004 (For south coast of Korea)	0.17949	$C_c = -0.0003w + 0.538e + 0.002LL - 0.3$
Yoon et al., 2004 (For east coast of Korea)	0.12616	$C_c = 0.0098w + 0.194e - 0.0025PI - 0.256$
Yoon et al., 2004 (For west coast of Korea)	0.21646	$C_c = 0.0038w + 0.12e + 0.0065LL - 0.248$
Nishant Dayal et al., 2006	0.2162	$C_c = 0.46(e - 0.28)$
Nishant Dayal et al., 2006 (For Cincinnati and Northern Kentucky)	0.24975	$C_c = 0.0037(LL + 25.5)$
Nishant Dayal et al., 2006 (For Cincinnati and Northern Kentucky)	0.24355	$C_c = 0.0135w - 0.1169$
Nishant Dayal et al., 2006 (For Cincinnati and Northern Kentucky)	0.11659	$C_c = -0.05793\gamma_{dry} + 1.1014$
Nishant Dayal et al., 2006 (For Cincinnati and Northern Kentucky)	0.207	$C_c = 0.0042PI + 0.165$
Nishant Dayal et al., 2006 (For Cincinnati and Northern Kentucky)	0.21402	$C_c = 0.46e - 0.049G_s + 0.0023$
Nishant Dayal et al., 2006 (For Cincinnati and Northern Kentucky)	0.211995	$C_c = 0.4965e - 0.0014w - 0.123$
Nishant Dayal et al., 2006 (For Cincinnati and Northern Kentucky)	0.27075	$C_c = -0.247e + 0.004LL + 0.01w + 0.021$

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Nishant Dayal et al., 2006 (For Cincinnati and Northern Kentucky)	0.27075	$C_c = -0.247e + 0.004LL + 0.01w + 0.021$

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