

TABLE 5-3
Comparison of computed versus measured settlement for a number of cases provided by the references cited.

Reference	H, ft	B, ft	L/B	D/B	N or q_c	E_s , ksf	μ	Δp , ksf	I_s	I_f	Settlement, in.	
											Computed	Measured
D'Appolonia et al. (1968)	4B	12.5	1.6	0.5	25*	1,200	0.33	3.4	0.589	0.75	0.33	0.3-0.4
Schmertmann (1970)												
Case 1	5B	8.5	8.8	0.78	40	310	0.4	3.74	0.805	0.87	1.45	1.53
Case 2	5B	9.8	4.2	1	120	620	0.3	3.34	0.774	0.75	0.67	0.8-0.9
Case 5	5B	62	1.0	0	65	350	0.45	1.56	0.50	1.0	2.64	2.48
Case 6	B	87	2.2	0.1	90	230	0.3	4.14	0.349	0.98	11.7	10.6
Case 8	5B	2	1.0	0.55	18	110	0.3	2.28	0.51	0.6	0.35	0.27
Tschebotarioff (1973)	0.8B	90	1.1	0.1	12*	270	0.3	7.2	0.152	0.95	3.9	3.9
Davisson and Salley (1972)	90	124	1	0	12-30*	390	0.3	3.14	0.255	1.0	5.6	5.3
Fischer et al. (1972)	1700	500	1	0.2	—	58,200	0.45	7.0	0.472	0.93	0.50	0.50
Webb and Melvill (1971)	150	177	1	0	—	1,100	0.3	4.5	0.161	1.0	1.27	1.50
Swiger (1974)	4B	32	1	0	—	3,900	0.3	2.75	0.493	1.0	0.24	0.24
Kantey (1965)	3.5B	20	1	0	50	260	0.3	4.0	0.483	1.0	3.25	3.20

Units: Used consistent with references.

*N value, otherwise is q_c . Values not shown use other methods for E_s .

Source: Bowles (1987).