Worth County, Iowa
Physical Soil Properties

Print date: 12/02/2016

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
6:														
Okoboji	0-8	5-11- 16	45-53- 60	30-36- 41	0.90-1.20	0.42-14.11	0.12-0.23	2.6-6.9	5.0-12	.32	.32	5	4	86
	8-33	5-12- 19	45-52- 60	30-36- 41	1.25-1.35	0.42-14.11	0.11-0.23	3.1-7.8	2.0-8.0	.32	.32			
	33-38	5-15- 25	45-49- 60	30-36- 41	1.35-1.60	0.42-14.11	0.11-0.20	3.8-7.6	0.5-2.5	.37	.37			
	38-79	5-16- 35	39-53- 66	20-31- 37	1.50-1.70	0.42-14.11	0.14-0.22	1.4-5.8	0.0-0.5	.37	.37			
27B:														
Terril	0-9	35-46- 53	26-33- 40	18-21- 28	1.20-1.40	1.41-14.11	0.15-0.22	1.7-4.0	2.0-6.0	.28	.28	5	6	48
	9-34	35-46- 53	26-33- 40	18-21- 28	1.30-1.45	1.41-14.11	0.15-0.22	1.7-4.0	2.0-4.0	.28	.28			
	34-52	40-50- 60	24-30- 36	16-20- 26	1.35-1.60	1.41-42.34	0.12-0.19	1.5-3.5	0.5-2.0	.32	.32			
	52-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.2	0.0-0.5	.32	.32			
30:														
Nicollet	0-10	19-39- 49	24-37- 56	18-24- 27	1.15-1.25	1.00-10.00	0.17-0.22	0.4-3.2	5.0-6.0	.28	.28	5	6	48
	10-17	20-34- 35	35-38- 50	20-28- 30	1.15-1.25	1.00-10.00	0.17-0.22	1.0-4.2	3.0-5.0	.28	.28			
	17-36	20-34- 35	35-38- 52	17-28- 30	1.25-1.35	1.00-10.00	0.15-0.19	0.0-4.2	0.5-2.0	.32	.32			
	36-60	40-43- 47	23-33- 42	18-24- 30	1.50-1.70	1.00-10.00	0.17-0.19	0.4-4.2	0.0-0.5	.32	.32			
Clarion	0-7	20-42- 45	25-37- 56	18-21- 30	1.40-1.45	1.00-10.00	0.20-0.22	0.4-4.2	3.0-4.0	.24	.24	5	6	48
	7-18	20-42- 45	31-37- 53	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.4-2.3	2.0-3.0	.28	.28			
	18-36	15-37- 40	30-37- 52	24-26- 30	1.50-1.70	1.00-10.00	0.17-0.19	2.3-4.2	0.5-2.0	.32	.32			
	36-60	30-43- 63	14-40- 58	12-17- 30	1.50-1.70	1.00-10.00	0.17-0.19	0.0-4.2	0.0-0.5	.37	.37			
41B:														
Sparta	0-11	70-84- 98	0-10- 29	1- 6- 10	1.40-1.65	10.00-100.00	0.09-0.12	0.0-2.9	1.0-2.0	.24	.24	5	2	134
	11-15	70-87- 98	0- 7- 29	1- 6- 10	1.45-1.70	10.00-100.00	0.09-0.12	0.0-2.9	0.5-1.0	.24	.24			
	15-72	80-90- 98	0- 6- 19	1- 4- 8	1.40-1.60	10.00-100.00	0.05-0.11	0.0-2.9	0.0-0.5	.28	.28			
	72-79	80-93- 99	0- 4- 20	0- 3- 8	1.50-1.70	10.00-100.00	0.04-0.07	0.0-2.9	0.0-0.5	.17	.17			
41C:														
Sparta	0-11	70-84- 98	0-10- 29	1- 6- 10	1.40-1.65	10.00-100.00	0.09-0.12	0.0-2.9	1.0-2.0	.24	.24	5	2	134
	11-15	70-87- 98	0- 7- 29	1- 6- 10	1.45-1.70	10.00-100.00	0.09-0.12	0.0-2.9	0.5-1.0	.24	.24			
	15-72	80-90- 98	0- 6- 19	1- 4- 8	1.40-1.60	10.00-100.00	0.05-0.11	0.0-2.9	0.0-0.5	.28	.28			
	72-79	80-93- 99	0- 4- 20	0- 3- 8	1.50-1.70	10.00-100.00	0.04-0.07	0.0-2.9	0.0-0.5	.17	.17			
55:														
Nicollet	0-10	23-31- 39	33-39- 45	25-30- 32	1.00-1.30	1.41-14.11	0.17-0.22	1.8-3.4	4.0-9.0	.28	.28	5	6	48
	10-17	20-31- 41	30-39- 48	25-30- 35	1.20-1.35	1.41-14.11	0.15-0.22	3.0-5.4	2.0-6.0	.28	.28			
	17-36	30-37- 45	30-33- 38	22-30- 34	1.30-1.60	1.41-14.11	0.14-0.19	2.4-5.1	0.3-2.0	.32	.32			
	36-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
83B:														
Kenyon	0-9	14-36- 52	29-43- 65	14-21- 27	1.20-1.60	1.00-10.00	0.17-0.21	1.3-2.9	2.0-3.9	.28	.28	5	6	48
	9-14	19-33- 48	31-46- 60	14-21- 27	1.20-1.60	1.00-10.00	0.17-0.21	1.3-2.9	2.1-3.4	.37	.37			
	14-19	21-32- 40	36-43- 55	20-25- 27	1.40-1.60	1.00-10.00	0.16-0.20	3.0-5.9	1.0-3.0	.37	.37			
	19-41	24-45- 58	22-30- 55	20-25- 30	1.65-1.85	0.01-1.00	0.14-0.18	3.0-5.9	0.0-1.0	.32	.32			
	41-55	24-45- 58	22-30- 55	20-25- 30	1.65-1.85	0.01-1.00	0.14-0.18	3.0-5.9	0.0-1.0	.32	.32			
	55-71	36-44- 50	23-32- 40	18-24- 27	1.75-1.90	0.01-1.00	0.12-0.18	1.2-2.9	0.0-0.5	.37	.37			
	71-79	36-44- 50	23-32- 40	18-24- 27	1.75-1.90	0.01-1.00	0.12-0.18	1.2-2.9	0.0-0.5	.37	.37			
83C2:														
Kenyon, eroded	0-7	14-36- 52	29-43- 65	14-21- 27	1.20-1.60	1.00-10.00	0.17-0.21	1.3-2.9	1.5-3.4	.32	.32	5	6	48
	7-12	21-32- 40	36-43- 55	20-25- 27	1.40-1.60	1.00-10.00	0.16-0.20	3.0-5.9	0.8-2.8	.37	.37			
	12-41	24-45- 58	22-30- 55	20-25- 30	1.65-1.85	0.01-1.00	0.14-0.18	3.0-5.9	0.0-1.0	.32	.32			
	41-55	24-45- 58	22-30- 55	20-25- 30	1.65-1.85	0.01-1.00	0.14-0.18	3.0-5.9	0.0-1.0	.32	.32			
	55-71	36-44- 50	23-32- 40	18-24- 27	1.75-1.90	0.01-1.00	0.12-0.18	1.2-2.9	0.0-0.5	.37	.37			
	71-79	36-44- 50	23-32- 40	18-24- 27	1.75-1.90	0.01-1.00	0.12-0.18	1.2-2.9	0.0-0.5	.37	.37			
84:														
Clyde	0-17	10-18- 45	15-52- 70	20-30- 40	1.20-1.50	1.00-10.00	0.20-0.24	1.3-2.9	6.0-9.0	.24	.24	5	6	48
	17-23	15-18- 45	20-52- 65	20-30- 35	1.20-1.60	1.00-10.00	0.18-0.22	3.0-5.9	1.0-4.0	.37	.37			
	23-28	15-30- 45	20-40- 67	18-30- 35	1.30-1.70	1.00-10.00	0.17-0.21	3.0-5.9	0.5-2.0	.32	.32			
	28-41	15-17- 45	20-53- 67	18-30- 35	1.30-1.70	1.00-10.00	0.17-0.21	3.0-5.9	0.5-2.0	.43	.43			
	41-44	20-65- 80	0-20- 70	10-15- 30	1.30-1.70	1.00-100.00	0.10-0.14	0.6-2.9	0.5-1.0	.28	.28			
	44-62	25-45- 52	28-35- 50	10-20- 27	1.60-1.90	0.01-1.00	0.14-0.18	0.7-2.9	0.0-0.5	.43	.43			
	62-79	25-45- 52	28-35- 50	10-20- 27	1.60-1.90	0.01-1.00	0.14-0.18	0.5-2.9	0.0-0.5	.43	.43			
95:														
Harps	0-8	19-30- 39	33-38- 44	27-32- 38	0.95-1.30	0.42-14.11	0.15-0.23	1.8-2.9	4.0-10	.24	.24	5	4L	86
	8-16	24-32- 39	29-36- 42	27-32- 38	1.30-1.45	0.42-14.11	0.15-0.19	2.4-4.9	2.0-6.0	.24	.24			
	16-63	30-39- 52	29-36- 42	17-25- 31	1.35-1.60	1.41-14.11	0.15-0.19	0.9-3.4	0.5-3.0	.32	.32			
	63-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.0-4.0	0.0-0.5	.32	.32			
107:														
Webster	0-10	16-25- 33	36-42- 50	29-33- 39	0.95-1.30	0.42-14.11	0.15-0.23	2.2-4.3	4.0-10	.28	.28	5	6	48
	10-20	14-25- 36	35-42- 50	29-33- 37	1.30-1.45	0.42-14.11	0.15-0.23	3.7-5.9	2.0-6.0	.28	.28			
	20-42	25-35- 44	30-37- 45	22-28- 34	1.35-1.60	0.42-14.11	0.15-0.19	2.4-5.1	0.5-3.0	.32	.32			
	42-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
138B:														
Clarion	0-8	32-41- 50	29-34- 40	20-25- 28	1.20-1.40	1.41-14.11	0.15-0.22	2.2-4.0	2.0-6.0	.24	.24	5	6	48
	8-16	32-41- 50	29-34- 40	20-25- 28	1.30-1.45	1.41-14.11	0.15-0.22	2.2-4.0	2.0-4.0	.28	.28			
	16-34	34-43- 54	26-34- 40	18-23- 28	1.35-1.60	1.41-14.11	0.15-0.19	1.7-3.9	0.5-2.0	.32	.32			
	34-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
138C2:														
Clarion, moderately eroded	0-8	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	1.41-42.34	0.12-0.22	1.4-3.6	1.0-3.5	.28	.28	5	6	48
	8-24	34-43- 54	26-34- 40	18-23- 28	1.35-1.60	1.41-14.11	0.15-0.19	1.7-3.9	0.5-2.0	.32	.32			
	24-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
153:														
Shandep, occasionally flooded, ponded	0-5	15-34- 45	23-38- 59	20-28- 32	1.00-1.15	1.00-10.00	0.20-0.23	1.0-4.8	7.0-9.0	.20	.20	4	6	48
	5-29	15-34- 45	23-37- 58	20-30- 32	1.00-1.15	1.00-10.00	0.20-0.23	1.0-4.8	7.0-9.0	.20	.20			
	29-37	15-38- 45	23-33- 53	22-29- 32	1.40-1.60	1.00-10.00	0.17-0.20	1.6-4.8	1.0-3.0	.28	.28			
	37-45	15-38- 45	23-36- 56	22-26- 32	1.60-1.70	1.00-10.00	0.12-0.14	1.6-4.8	1.0-2.0	.32	.32			
	45-60	70-83- 95	0-12- 28	2- 5- 12	1.60-1.70	10.00-100.00	0.02-0.04	0.0-0.0	0.0-0.5	.10	.10			
169B:														
Moland	0-14	15-28- 35	35-50- 66	18-23- 30	1.30-1.45	1.00-10.00	0.22-0.24	0.4-4.2	2.5-4.5	.32	.32	5	6	48
	14-20	15-20- 35	41-54- 60	25-26- 32	1.35-1.50	1.00-10.00	0.17-0.22	2.6-4.8	0.3-1.0	.43	.43			
	20-49	30-40- 45	25-36- 50	18-24- 30	1.40-1.70	1.00-10.00	0.17-0.19	0.4-4.2	0.0-0.5	.32	.32			
	49-80	30-40- 45	28-38- 50	18-23- 27	1.50-1.70	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.37	.37			
171B:														
Bassett	0-9	10-35- 50	24-47- 73	15-18- 26	1.36-1.47	1.00-10.00	0.17-0.21	1.0-2.9	1.9-2.9	.32	.32	5	5	56
	9-17	10-35- 50	24-45- 69	15-20- 26	1.34-1.51	1.00-10.00	0.16-0.20	1.0-2.9	0.8-1.2	.43	.43			
	17-25	30-44- 70	8-32- 50	20-24- 28	1.46-1.68	0.01-1.00	0.14-0.18	1.0-2.9	0.0-0.8	.32	.32			
	25-34	30-44- 70	8-32- 50	20-24- 28	1.49-1.68	0.01-1.00	0.14-0.18	1.0-2.9	0.0-0.5	.32	.32			

	34-46	30-44- 70	8-32- 50	20-24- 28	1.49-1.68	0.01-1.00	0.14-0.18	1.0-2.9	0.0-0.5	.32	.32			
	46-60	30-44- 50	23-34- 49	18-22- 27	1.75-1.90	0.01-1.00	0.12-0.18	1.0-2.9	0.0-0.5	.37	.37			
173:														
Hoopeston, rarely flooded	0-10	40-55- 75	9-32- 52	8-13- 18	1.35-1.70	10.00-100.00	0.12-0.15	0.0-0.4	2.0-3.0	.24	.24	3	3	86
	10-14	40-55- 75	9-32- 52	8-13- 18	1.35-1.70	10.00-100.00	0.12-0.15	0.0-0.4	2.0-3.0	.28	.28			
	14-38	40-66- 85	0-19- 45	12-15- 18	1.45-1.70	10.00-100.00	0.12-0.17	0.0-0.4	0.2-1.0	.20	.20			
	38-60	40-90-100	0- 4- 38	2- 6- 10	1.50-1.70	100.00-705.0 0	0.05-0.10	0.0-0.0	0.1-0.5	.02	.02			
174:														
Bolan	0-9	25-40- 75	5-38- 63	12-23- 27	1.40-1.45	1.00-10.00	0.20-0.22	0.0-3.2	3.0-4.0	.20	.20	4	6	48
	9-14	25-40- 75	5-38- 63	12-23- 27	1.45-1.50	1.00-10.00	0.17-0.19	0.0-3.2	2.0-4.0	.20	.20			
	14-19	40-44- 70	19-40- 48	12-16- 25	1.45-1.50	1.00-10.00	0.17-0.19	0.0-2.6	1.0-2.0	.37	.37			
	19-30	40-44- 85	11-40- 53	7-16- 20	1.45-1.50	1.00-10.00	0.17-0.19	0.0-1.0	1.0-2.0	.37	.37			
	30-45	60-67- 90	4-23- 33	7-10- 15	1.50-1.60	10.00-100.00	0.11-0.13	0.0-0.0	0.0-1.0	.32	.32			
	45-80	75-79- 95	2-16- 23	2- 5- 10	1.60-1.70	10.00-100.00	0.08-0.10	0.0-0.0	0.0-0.5	.24	.24			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
174B:														
Bolan	0-9	25-40- 75	5-38- 63	12-23- 27	1.40-1.45	1.00-10.00	0.20-0.22	0.0-3.2	3.0-4.0	.20	.20	4	6	48
	9-14	25-40- 75	5-38- 63	12-23- 27	1.45-1.50	1.00-10.00	0.17-0.19	0.0-3.2	2.0-4.0	.20	.20			
	14-19	40-44- 70	19-40- 48	12-16- 25	1.45-1.50	1.00-10.00	0.17-0.19	0.0-2.6	1.0-2.0	.37	.37			
	19-30	40-44- 85	11-40- 53	7-16- 20	1.45-1.50	1.00-10.00	0.17-0.19	0.0-1.0	1.0-2.0	.37	.37			
	30-45	60-67- 90	4-23- 33	7-10- 15	1.50-1.60	10.00-100.00	0.11-0.13	0.0-0.0	0.0-1.0	.32	.32			
	45-80	75-79- 95	2-16- 23	2- 5- 10	1.60-1.70	10.00-100.00	0.08-0.10	0.0-0.0	0.0-0.5	.24	.24			
175:														
Dickinson	0-9	40-65- 70	12-20- 38	12-15- 18	1.50-1.55	10.00-100.00	0.12-0.15	0.0-0.4	1.5-2.5	.17	.17	3	3	86
	9-18	40-66- 70	12-20- 39	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.5-2.5	.24	.24			
	18-30	60-70- 80	2-16- 30	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.0-0.5	.24	.24			
	30-36	80-84- 95	0- 9- 16	4- 7- 10	1.55-1.65	10.00-100.00	0.08-0.10	0.0-0.0	0.0-0.5	.15	.15			
	36-60	80-91- 95	0- 2- 13	4- 7- 10	1.60-1.70	100.00-705.0 0	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
175B:														
Dickinson	0-9	40-60- 65	17-25- 42	10-15- 18	1.50-1.55	10.00-100.00	0.12-0.15	0.0-0.4	1.5-2.5	.20	.20	3	3	86
	9-18	40-60- 65	17-26- 43	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.5-2.5	.28	.28			
	18-30	60-66- 80	6-20- 30	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.0-0.5	.28	.28			
	30-36	80-84- 95	0- 9- 16	4- 7- 10	1.55-1.65	10.00-100.00	0.08-0.10	0.0-0.0	0.0-0.5	.15	.15			
	36-60	80-91- 95	0- 2- 13	4- 7- 10	1.60-1.70	100.00-705.0 0	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
175C:														
Dickinson	0-9	40-60- 65	17-25- 42	10-15- 18	1.50-1.55	10.00-100.00	0.12-0.15	0.0-0.4	1.5-2.5	.20	.20	3	3	86
	9-18	40-60- 65	17-26- 43	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.5-2.5	.28	.28			
	18-30	60-66- 80	6-20- 30	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.0-0.5	.28	.28			
	30-36	80-84- 95	0- 9- 16	4- 7- 10	1.55-1.65	10.00-100.00	0.08-0.10	0.0-0.0	0.0-0.5	.15	.15			
	36-60	80-91- 95	0- 2- 13	4- 7- 10	1.60-1.70	100.00-705.0 0	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
177:														
Saude, rarely flooded	0-7	30-42- 50	26-37- 50	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.4-2.3	3.0-4.0	.17	.17	3	6	48
	7-13	30-42- 50	26-37- 50	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.4-2.3	2.0-4.0	.20	.20			
	13-16	30-44- 50	32-41- 54	12-15- 18	1.40-1.50	1.00-10.00	0.15-0.19	0.0-0.4	1.0-3.0	.32	.32			
	16-24	30-44- 50	32-41- 54	12-15- 18	1.40-1.50	1.00-10.00	0.15-0.19	0.0-0.4	0.5-1.0	.37	.37			
	24-28	40-66- 75	7-19- 40	12-15- 18	1.40-1.50	10.00-100.00	0.15-0.19	0.0-0.4	0.5-1.0	.20	.20			
	28-36	75-79- 95	3-16- 23	2- 5- 8	1.50-1.75	10.00-100.00	0.02-0.06	0.0-0.0	0.0-0.5	.15	.15			
	36-60	80-91- 95	0- 4- 15	2- 5- 8	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
177B:														
Saude, rarely flooded	0-7	30-42- 50	26-37- 50	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.4-2.3	3.0-4.0	.17	.17	3	6	48
	7-13	30-42- 50	26-37- 50	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.4-2.3	2.0-4.0	.20	.20			
	13-16	30-44- 50	32-41- 54	12-15- 18	1.40-1.50	1.00-10.00	0.15-0.19	0.0-0.4	1.0-3.0	.32	.32			
	16-24	30-44- 50	32-41- 54	12-15- 18	1.40-1.50	1.00-10.00	0.15-0.19	0.0-0.4	0.5-1.0	.37	.37			
	24-28	40-66- 75	7-19- 40	12-15- 18	1.40-1.50	10.00-100.00	0.15-0.19	0.0-0.4	0.5-1.0	.20	.20			
	28-36	75-79- 95	3-16- 23	2- 5- 8	1.50-1.75	10.00-100.00	0.02-0.06	0.0-0.0	0.0-0.5	.15	.15			
	36-60	80-91- 95	0- 4- 15	2- 5- 8	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			
177C:														
Saude, rarely flooded	0-7	30-42- 50	26-37- 50	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.4-2.3	3.0-4.0	.17	.17	3	6	48
	7-13	30-42- 50	26-37- 50	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.4-2.3	2.0-4.0	.20	.20			
	13-16	30-44- 50	32-41- 54	12-15- 18	1.40-1.50	1.00-10.00	0.15-0.19	0.0-0.4	1.0-3.0	.32	.32			
	16-24	30-44- 50	32-41- 54	12-15- 18	1.40-1.50	1.00-10.00	0.15-0.19	0.0-0.4	0.5-1.0	.37	.37			
	24-28	40-66- 75	7-19- 40	12-15- 18	1.40-1.50	10.00-100.00	0.15-0.19	0.0-0.4	0.5-1.0	.20	.20			
	28-36	75-79- 90	6-16- 23	2- 5- 8	1.50-1.75	10.00-100.00	0.02-0.06	0.0-0.0	0.0-0.5	.15	.15			
	36-60	80-91- 95	0- 4- 15	2- 5- 8	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			
178:														
Waukee, rarely flooded	0-8	15-40- 50	28-39- 61	18-21- 24	1.25-1.41	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.28	.28	3	6	48
	8-18	15-40- 50	28-39- 61	18-21- 24	1.36-1.42	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32			
	18-24	30-42- 60	16-36- 52	18-22- 27	1.31-1.48	1.00-10.00	0.15-0.19	0.0-2.9	0.5-2.0	.32	.32			
	24-33	30-42- 60	16-36- 52	18-22- 27	1.31-1.48	1.00-10.00	0.15-0.19	0.0-2.9	0.5-2.0	.32	.32			
	33-48	70-84- 98	0-11- 30	0- 5- 15	1.59-1.70	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
	48-79	70-94- 98	0- 1- 22	0- 5- 15	1.57-1.69	100.00-705.0 0	0.02-0.06	0.0-1.4	0.0-0.5	.02	.02			
178B:														
Waukee, rarely flooded	0-8	15-40- 50	28-39- 61	18-21- 24	1.25-1.41	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.28	.28	3	6	48
	8-18	15-40- 50	28-39- 61	18-21- 24	1.36-1.42	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32			
	18-24	30-42- 60	16-36- 52	18-22- 27	1.31-1.48	1.00-10.00	0.15-0.19	0.0-2.9	0.5-2.0	.32	.32			
	24-33	30-42- 60	16-36- 52	18-22- 27	1.31-1.48	1.00-10.00	0.15-0.19	0.0-2.9	0.5-2.0	.32	.32			
	33-48	70-84- 98	0-11- 30	0- 5- 15	1.59-1.70	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
	48-79	70-94- 98	0- 1- 22	0- 5- 15	1.57-1.69	100.00-705.0 0	0.02-0.06	0.0-1.4	0.0-0.5	.02	.02			
182:														
Maxcreek	0-13	1-12- 15	50-60- 71	27-28- 35	1.00-1.30	1.00-10.00	0.21-0.23	3.2-5.8	5.0-8.0	.28	.28	5	6	48
	13-21	1-12- 15	50-60- 74	20-28- 35	1.30-1.45	1.00-10.00	0.18-0.22	1.0-5.8	3.0-5.0	.32	.32			
	21-30	1-13- 15	55-60- 72	20-27- 30	1.35-1.50	1.00-10.00	0.18-0.22	1.0-4.2	0.5-2.0	.43	.43			
	30-41	30-32- 45	30-44- 52	18-24- 30	1.45-1.60	1.00-10.00	0.17-0.19	0.4-4.2	0.0-1.0	.37	.37			
	41-63	40-45- 70	13-33- 42	18-23- 27	1.50-1.70	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.32	.32			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
184:														
Klinger	0-8	5-10- 15	52-62- 71	24-28- 35	1.27-1.38	1.00-10.00	0.22-0.24	3.0-5.9	4.0-6.0	.28	.28	5	6	48
	8-14	5-10- 15	52-62- 71	24-28- 35	1.27-1.38	1.00-10.00	0.22-0.24	3.0-5.9	2.0-5.0	.28	.28			
	14-19	5-10- 15	52-62- 71	24-28- 35	1.33-1.41	1.00-10.00	0.22-0.24	3.0-5.9	1.0-4.0	.32	.32			
	19-29	5-10- 15	50-60- 70	24-30- 35	1.33-1.41	1.00-10.00	0.18-0.20	3.0-5.9	0.5-2.0	.43	.43			
	29-45	25-40- 50	20-36- 53	18-24- 30	1.75-1.90	0.01-1.00	0.11-0.17	0.0-2.9	0.0-0.5	.37	.37			
	45-59	25-40- 50	20-36- 53	18-24- 30	1.75-1.90	0.01-1.00	0.11-0.17	0.0-2.9	0.0-0.5	.37	.37			

	59-72	35-40- 50	28-36- 47	18-24- 27	1.75-1.90	0.01-1.00	0.12-0.18	0.0-2.9	0.0-0.5	.37	.37			
	72-79	35-40- 50	28-36- 47	18-24- 27	1.75-1.90	0.01-1.00	0.12-0.18	0.0-2.9	0.0-0.5	.37	.37			
188:														
Kensett, rarely flooded	0-18	15-24- 35	39-51- 61	24-26- 27	1.35-1.40	1.00-10.00	0.21-0.23	2.3-3.2	5.0-6.0	.24	.24	2	6	48
	18-23	15-33- 35	36-39- 51	24-29- 29	1.40-1.60	1.00-10.00	0.17-0.19	2.3-3.9	1.0-2.0	.37	.37			
	23-36	20-45- 55	16-29- 52	18-26- 29	1.60-1.75	1.00-10.00	0.11-0.13	0.4-3.9	0.0-0.5	.37	.37			
	36-80	--	--	--	---	---	---	---	---	---	---			
198B:														
Floyd	0-16	15-30- 50	27-47- 60	18-23- 30	1.20-1.60	1.00-10.00	0.19-0.23	3.0-5.9	3.0-5.0	.20	.20	5	6	48
	16-24	15-30- 50	27-47- 60	18-23- 30	1.25-1.60	1.00-10.00	0.18-0.22	3.0-5.9	2.0-4.0	.28	.28			
	24-33	30-55- 75	20-24- 50	18-21- 30	1.30-1.65	1.00-10.00	0.17-0.21	1.2-2.9	1.0-2.0	.28	.28			
	33-41	40-70- 85	10-15- 40	10-15- 25	1.30-1.65	1.00-100.00	0.11-0.15	0.8-2.9	0.5-1.0	.24	.24			
	41-50	30-45- 70	12-32- 45	18-23- 28	1.60-1.90	0.01-1.00	0.14-0.18	1.0-2.9	0.0-1.0	.32	.32			
	50-79	35-44- 50	23-34- 45	18-22- 27	1.60-1.90	0.01-1.00	0.14-0.18	0.8-2.9	0.0-0.5	.37	.37			
236D2:														
Lester, moderately eroded	0-6	25-39- 50	28-37- 50	20-24- 27	1.25-1.45	4.23-14.11	0.17-0.20	2.2-3.7	1.0-3.5	.32	.32	5	6	48
	6-38	25-33- 50	24-37- 50	24-30- 32	1.45-1.55	1.41-14.11	0.15-0.19	2.8-4.6	0.5-1.0	.32	.32			
	38-79	25-38- 50	28-37- 45	20-25- 30	1.50-1.70	1.41-14.11	0.17-0.18	1.5-3.5	0.0-0.5	.32	.32			
236E2:														
Lester, moderately eroded	0-6	25-39- 50	28-37- 50	20-24- 27	1.25-1.45	4.23-14.11	0.17-0.22	2.2-3.7	1.0-3.5	.32	.32	5	6	48
	6-7	25-39- 50	28-37- 50	20-24- 27	1.40-1.55	4.23-14.11	0.17-0.19	2.2-3.7	0.8-2.0	.32	.32			
	7-38	25-33- 50	21-37- 51	24-30- 32	1.45-1.55	1.41-14.11	0.15-0.19	2.8-4.6	0.5-1.0	.32	.32			
	38-79	25-38- 50	20-37- 53	20-25- 30	1.50-1.70	1.41-14.11	0.17-0.18	1.5-3.5	0.0-0.5	.32	.32			
236F:														
Lester	0-9	25-39- 50	28-37- 50	20-24- 27	1.25-1.45	4.23-14.11	0.17-0.22	2.2-3.8	2.0-4.0	.24	.24	5	6	48
	9-12	25-39- 50	28-37- 50	20-24- 27	1.40-1.55	4.23-14.11	0.17-0.19	2.2-3.7	0.8-2.0	.32	.32			
	12-38	25-33- 50	24-37- 50	24-30- 32	1.45-1.55	1.41-14.11	0.15-0.19	2.8-4.6	0.5-1.0	.32	.32			
	38-79	25-38- 50	28-37- 45	20-25- 30	1.50-1.70	1.41-14.11	0.17-0.18	1.5-3.5	0.0-0.5	.32	.32			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
274:														
Rolfe	0-10	7-18- 20	45-57- 75	18-25- 35	1.35-1.40	1.41-14.11	0.21-0.24	0.9-5.5	5.0-12	.32	.32	5	6	48
	10-21	5-15- 18	57-63- 80	15-22- 25	1.35-1.40	4.23-14.11	0.20-0.22	1.3-3.1	1.0-2.0	.49	.49			
	21-55	3- 9- 35	20-50- 59	38-41- 45	1.35-1.50	0.42-1.41	0.09-0.19	6.3-8.5	0.5-1.0	.32	.32			
	55-71	30-34- 45	20-37- 52	18-29- 35	1.50-1.60	1.41-14.11	0.14-0.19	1.3-5.5	0.0-0.5	.32	.32			
	71-79	25-35- 44	30-37- 45	22-28- 34	1.50-1.70	1.41-14.11	0.14-0.19	1.6-4.3	0.0-0.5	.37	.37			
284B:														
Flagler, rarely flooded	0-8	60-65- 80	8-23- 35	5-12- 15	1.50-1.55	10.00-100.00	0.12-0.14	0.0-0.0	1.5-2.5	.15	.15	3	3	86
	8-15	60-65- 80	8-23- 35	5-12- 15	1.50-1.55	10.00-100.00	0.12-0.14	0.0-0.0	1.0-2.5	.20	.20			
	15-22	60-66- 80	7-22- 35	5-12- 15	1.50-1.55	10.00-100.00	0.12-0.14	0.0-0.0	1.0-2.5	.15	.15			
	22-33	60-68- 70	15-20- 30	5-12- 15	1.55-1.60	10.00-100.00	0.11-0.13	0.0-0.0	0.0-1.0	.17	.17			
	33-65	80-85- 95	0-10- 19	1- 5- 10	1.60-1.75	10.00-100.00	0.02-0.04	0.0-0.0	0.0-0.5	.10	.10			
321:														
Boots	0-10	--	--	0- 5- 15	0.16-0.45	10.00-100.00	0.35-0.45	0.0-0.0	20-85	---	---	2	5	56
	10-60	--	--	0- 5- 15	0.16-0.28	10.00-100.00	0.35-0.45	0.0-0.0	75-100	---	---			
325:														
Le Sueur	0-8	25-39- 50	28-37- 50	20-24- 30	1.30-1.40	1.41-14.11	0.17-0.22	2.3-4.4	3.0-7.0	.28	.28	5	6	48
	8-14	25-39- 50	28-37- 50	20-24- 30	1.25-1.45	1.41-14.11	0.17-0.22	2.2-4.3	2.0-4.0	.28	.28			
	14-52	25-33- 50	24-37- 50	24-30- 35	1.45-1.55	1.41-14.11	0.15-0.19	2.8-5.2	0.5-1.0	.32	.32			
	52-79	25-38- 50	28-37- 45	20-25- 30	1.50-1.70	1.41-14.11	0.14-0.19	1.5-3.5	0.0-0.5	.32	.32			
329:														
Webster	0-10	16-25- 33	36-42- 50	29-33- 39	0.95-1.30	0.42-14.11	0.15-0.23	2.2-4.3	4.0-10	.28	.28	5	6	48
	10-20	14-25- 36	35-42- 50	29-33- 37	1.30-1.45	0.42-14.11	0.15-0.23	3.7-5.9	2.0-6.0	.28	.28			
	20-42	25-35- 44	30-37- 45	22-28- 34	1.35-1.60	0.42-14.11	0.15-0.19	2.4-5.1	0.5-3.0	.32	.32			
	42-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
Nicollet	0-10	23-31- 39	33-39- 45	25-30- 32	1.00-1.30	1.41-14.11	0.17-0.22	1.8-3.4	4.0-9.0	.28	.28	5	6	48
	10-17	20-31- 41	30-39- 48	25-30- 35	1.20-1.35	1.41-14.11	0.15-0.22	3.0-5.4	2.0-6.0	.28	.28			
	17-36	30-37- 45	30-33- 38	22-30- 34	1.30-1.60	1.41-14.11	0.14-0.19	2.4-5.1	0.3-2.0	.32	.32			
	36-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
331:														
Madelia	0-9	2- 7- 12	54-62- 70	26-31- 35	1.20-1.30	1.41-14.11	0.21-0.24	2.1-3.8	4.0-10	.32	.32	5	6	48
	9-19	2- 7- 12	54-62- 70	26-31- 35	1.20-1.30	1.41-14.11	0.18-0.24	3.5-5.5	2.0-6.0	.32	.32			
	19-27	4- 8- 12	56-64- 71	23-28- 35	1.25-1.35	1.41-14.11	0.18-0.22	2.9-5.4	0.5-3.0	.43	.43			
	27-79	9-12- 16	56-64- 71	20-24- 28	1.40-1.45	1.41-14.11	0.18-0.22	2.0-3.6	0.0-0.5	.49	.49			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
335:														
Harcot, rarely flooded	0-8	25-38- 50	20-36- 55	18-26- 30	1.35-1.40	1.00-10.00	0.20-0.22	0.4-4.2	4.5-5.5	.15	.15	3	4L	86
	8-20	25-38- 50	20-36- 55	18-26- 30	1.35-1.40	1.00-10.00	0.20-0.22	0.4-4.2	4.5-5.5	.20	.20			
	20-29	35-39- 60	18-37- 47	18-24- 30	1.40-1.60	1.00-10.00	0.17-0.19	0.4-4.2	1.0-2.0	.32	.32			
	29-80	80-94-100	0- 1- 14	2- 5- 8	1.60-1.75	10.00-100.00	0.05-0.07	0.0-0.0	0.0-1.0	.02	.02			
350:														
Waukegan, rarely flooded	0-12	5-10- 30	45-67- 77	18-23- 27	1.35-1.55	1.00-10.00	0.22-0.24	0.4-3.2	2.0-5.0	.37	.37	3	6	48
	12-33	5-10- 30	40-69- 77	18-21- 24	1.35-1.55	1.00-10.00	0.20-0.22	0.4-2.3	0.5-1.5	.49	.49			
	33-52	80-90- 95	0- 4- 16	1- 6- 10	1.50-1.70	100.00-705.00	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
	52-80	80-93- 95	0- 4- 16	1- 3- 10	1.50-1.70	100.00-705.00	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
354:														
Aquolls, ponded	0-24	-19-	-53-	25-28- 30	0.25-0.45	1.00-100.00	0.35-0.45	0.0-0.0	20-50	.28	.28	5	6	48
	24-60	-20-	-52-	7-28- 35	1.45-1.75	1.00-10.00	0.14-0.22	0.0-5.8	0.0-5.0	.37	.37			
377:														
Dinsdale	0-7	2- 8- 15	53-66- 76	20-26- 32	1.36-1.39	1.00-10.00	0.16-0.20	3.0-5.9	3.0-4.0	.37	.37	5	6	48
	7-12	2- 7- 15	53-65- 76	20-28- 32	1.28-1.36	1.00-10.00	0.16-0.20	3.0-5.9	2.0-3.0	.32	.32			
	12-19	2- 7- 15	53-65- 73	22-28- 32	1.33-1.40	1.00-10.00	0.17-0.20	3.0-5.9	1.0-2.0	.43	.43			
	19-28	2- 9- 15	50-59- 70	22-32- 35	1.34-1.43	1.00-10.00	0.17-0.20	3.0-5.9	0.5-2.0	.43	.43			
	28-34	2- 9- 15	50-60- 73	22-31- 35	1.34-1.44	1.00-10.00	0.17-0.21	3.0-5.9	0.5-2.0	.43	.43			
	34-46	30-45- 65	15-30- 50	20-25- 30	1.75-1.90	0.01-1.00	0.10-0.18	3.0-5.9	0.0-0.5	.32	.32			
	46-58	35-45- 50	20-33- 41	18-22- 30	1.75-1.90	0.01-1.00	0.12-0.20	0.0-2.9	0.0-0.5	.37	.37			
	58-79	35-45- 50	20-33- 41	18-22- 30	1.75-1.90	0.01-1.00	0.12-0.20	0.0-2.9	0.0-0.5	.37	.37			
377B:														
Dinsdale	0-7	2- 8- 15	53-66- 76	20-26- 32	1.36-1.39	1.00-10.00	0.16-0.20	3.0-5.9	3.0-4.0	.37	.37	5	6	48
	7-12	2- 7- 15	53-65- 76	20-28- 32	1.28-1.36	1.00-10.00	0.16-0.20	3.0-5.9	2.0-3.0	.32	.32			
	12-19	2- 7- 15	53-65- 73	22-28- 32	1.33-1.40	1.00-10.00	0.17-0.20	3.0-5.9	1.0-2.0	.43	.43			
	19-28	2- 9- 15	50-59- 70	22-32- 35	1.34-1.43	1.00-10.00	0.17-0.20	3.0-5.9	0.5-2.0	.43	.43			
	28-34	2- 9- 15	50-60- 73	22-31- 35	1.34-1.44	1.00-10.00	0.17-0.21	3.0-5.9	0.5-2.0	.43	.43			
	34-46	30-45- 65	15-30- 50	20-25- 30	1.75-1.90	0.01-1.00	0.10-0.18	3.0-5.9	0.0-0.5	.32	.32			
	46-58	35-45- 50	20-33- 41	18-22- 30	1.75-1.90	0.01-1.00	0.12-0.20	0.0-2.9	0.0-0.5	.37	.37			
	58-79	35-45- 50	20-33- 41	18-22- 30	1.75-1.90	0.01-1.00	0.12-0.20	0.0-2.9	0.0-0.5	.37	.37			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk	Saturated hydraulic	Available water	Linear extensi-	Organic matter	Erosion factors			Wind erodi-bility	Wind erodi-bility

					density	conductivity	capacity	bility		Kw	Kf	T	group	index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
382:														
Maxfield----------	0-12	2- 7- 15	55-65- 76	20-28- 30	1.15-1.25	1.00-10.00	0.21-0.23	0.0-2.9	6.0-8.0	.37	.37	5	6	48
----------	12-19	2- 7- 15	55-65- 76	20-28- 30	1.15-1.35	1.00-10.00	0.21-0.23	3.0-5.9	3.0-6.0	.37	.37			
----------	19-29	2- 7- 15	53-64- 73	25-29- 34	1.30-1.40	1.00-10.00	0.18-0.20	3.0-5.9	0.5-2.0	.49	.49			
----------	29-47	25-33- 50	24-41- 53	18-26- 27	1.75-1.90	0.01-1.00	0.09-0.17	3.0-5.9	0.0-0.5	.37	.37			
----------	47-55	25-33- 50	26-43- 53	18-24- 27	1.75-1.90	0.01-1.00	0.11-0.17	0.0-2.9	0.0-0.5	.43	.43			
----------	55-70	35-44- 50	28-34- 46	18-22- 27	1.75-1.90	0.01-1.00	0.12-0.18	0.0-2.9	0.0-0.5	.37	.37			
----------	70-79	35-44- 50	28-34- 46	18-22- 27	1.75-1.90	0.01-1.00	0.12-0.18	0.0-2.9	0.0-0.5	.37	.37			
395:														
Marquis----------	0-9	14-36- 52	28-43- 72	14-21- 27	1.20-1.60	1.00-10.00	0.17-0.21	0.0-2.9	2.0-3.9	.24	.24	5	6	48
----------	9-19	19-33- 48	28-46- 67	14-21- 27	1.20-1.60	1.00-10.00	0.17-0.21	0.0-2.9	2.1-3.4	.37	.37			
----------	19-24	21-32- 40	33-43- 59	20-25- 27	1.40-1.60	1.00-10.00	0.16-0.20	3.0-5.9	1.0-3.0	.37	.37			
----------	24-32	24-45- 58	12-30- 53	20-25- 30	1.65-1.85	0.01-1.00	0.14-0.18	3.0-5.9	0.0-1.0	.32	.32			
----------	32-42	24-45- 58	12-30- 53	20-25- 30	1.65-1.85	0.01-1.00	0.14-0.18	3.0-5.9	0.0-1.0	.32	.32			
----------	42-54	24-45- 58	12-30- 53	20-25- 30	1.65-1.85	0.01-1.00	0.14-0.18	3.0-5.9	0.0-1.0	.32	.32			
----------	54-79	36-44- 50	28-32- 46	18-24- 27	1.75-1.90	0.01-1.00	0.12-0.18	0.0-2.9	0.0-0.5	.37	.37			
399:														
Readlyn----------	0-9	20-35- 40	30-42- 60	20-23- 30	1.25-1.45	1.00-10.00	0.19-0.23	3.0-5.9	4.5-5.5	.20	.20	5	6	48
----------	9-15	20-35- 40	30-42- 60	20-23- 30	1.25-1.45	1.00-10.00	0.18-0.22	3.0-5.9	3.0-4.0	.24	.24			
----------	15-19	20-35- 40	30-42- 60	20-23- 30	1.30-1.50	1.00-10.00	0.17-0.21	3.0-5.9	2.3-3.3	.32	.32			
----------	19-24	20-32- 40	30-43- 60	20-25- 30	1.45-1.70	1.00-10.00	0.16-0.20	3.0-5.9	1.5-2.5	.37	.37			
----------	24-35	30-42- 50	18-31- 48	22-27- 32	1.75-1.90	0.01-1.00	0.15-0.19	3.0-5.9	0.5-1.5	.32	.32			
----------	35-46	30-42- 50	18-31- 48	22-27- 32	1.75-1.90	0.01-1.00	0.14-0.18	3.0-5.9	0.3-0.8	.32	.32			
----------	46-60	35-44- 50	23-34- 47	18-22- 27	1.75-1.90	0.01-1.00	0.13-0.17	0.0-2.9	0.0-0.5	.37	.37			
----------	60-79	35-44- 50	23-34- 47	18-22- 27	1.75-1.90	0.01-1.00	0.13-0.17	0.0-2.9	0.0-0.5	.37	.37			
407:														
Schley----------	0-7	20-29- 35	43-51- 61	18-20- 22	1.40-1.45	1.00-10.00	0.19-0.21	0.4-1.6	2.5-3.5	.32	.32	5	6	48
----------	7-13	20-30- 35	43-50- 60	18-20- 22	1.40-1.45	1.00-10.00	0.19-0.21	0.4-1.6	0.5-1.5	.43	.43			
----------	13-17	20-30- 35	43-50- 60	18-20- 22	1.40-1.45	1.00-10.00	0.19-0.21	0.4-1.6	0.5-1.5	.43	.43			
----------	17-22	20-42- 60	12-38- 64	15-20- 28	1.40-1.45	1.00-10.00	0.19-0.21	0.0-3.5	1.0-2.0	.37	.37			
----------	22-37	20-55- 60	12-26- 53	15-19- 28	1.45-1.65	10.00-100.00	0.12-0.16	0.0-3.5	0.5-1.0	.28	.28			
----------	37-46	20-40- 60	12-36- 61	18-24- 28	1.45-1.65	1.00-10.00	0.12-0.16	0.4-3.5	0.5-1.0	.32	.32			
----------	46-54	20-39- 60	13-37- 60	20-24- 28	1.65-1.80	1.00-10.00	0.16-0.18	1.0-3.5	0.0-0.5	.37	.37			
----------	54-60	20-39- 60	13-37- 60	20-24- 28	1.65-1.80	1.00-10.00	0.16-0.18	1.0-3.5	0.0-0.5	.37	.37			
471:														
Oran----------	0-8	10-35- 40	33-45- 69	10-20- 27	1.40-1.45	1.00-10.00	0.18-0.20	0.0-3.2	3.0-4.0	.32	.32	5	6	48
----------	8-13	10-35- 40	33-45- 69	10-20- 27	1.40-1.45	1.00-10.00	0.18-0.20	0.0-3.2	0.5-1.0	.43	.43			
----------	13-18	10-35- 40	35-45- 65	15-20- 25	1.40-1.45	1.00-10.00	0.18-0.20	0.0-2.6	0.5-1.0	.43	.43			
----------	18-45	35-40- 50	20-32- 45	20-28- 30	1.75-1.90	1.00-10.00	0.17-0.19	1.0-4.2	0.0-0.5	.32	.32			
----------	45-80	30-44- 55	18-34- 51	18-22- 27	1.75-1.90	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.37	.37			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
507:														
Canisteo----------	0-9	18-30- 36	33-38- 49	28-32- 35	0.95-1.30	1.41-14.11	0.17-0.23	1.9-3.2	4.0-10	.28	.28	5	4L	86
----------	9-16	16-32- 42	33-36- 52	25-32- 35	1.30-1.45	1.41-14.11	0.17-0.24	2.5-4.8	2.0-6.0	.24	.24			
----------	16-20	16-32- 42	33-36- 52	25-32- 35	1.30-1.45	1.41-14.11	0.17-0.24	2.4-4.8	1.0-5.0	.28	.28			
----------	20-36	16-39- 55	27-34- 55	17-27- 35	1.35-1.60	1.41-42.34	0.12-0.24	0.8-4.0	0.5-3.0	.32	.32			
----------	36-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
521:														
Klossner, drained----	0-9	--	--	--	0.10-0.45	1.41-42.34	0.15-0.45	---	20-85	---	---	1	2	134
----------	9-27	--	--	--	0.10-0.45	1.41-42.34	0.15-0.45	---	20-85	---	---			
----------	27-46	7-14- 23	48-53- 66	26-33- 41	1.00-1.30	0.42-14.11	0.01-0.30	2.1-4.0	3.0-10	.32	.32			
----------	46-79	5-19- 34	30-54- 70	17-27- 38	1.35-1.50	0.42-14.11	0.07-0.34	0.5-3.6	0.0-1.5	.43	.43			
521B:														
Klossner----------	0-10	--	--	25-28- 30	0.25-0.40	1.00-100.00	0.35-0.45	0.0-0.0	20-85	---	---	1	2	134
----------	10-26	--	--	25-28- 30	0.25-0.45	1.00-100.00	0.35-0.45	0.0-0.0	20-85	---	---			
----------	26-36	10-15- 55	25-57- 75	15-28- 35	0.70-1.30	1.00-10.00	0.18-0.20	0.0-5.8	5.0-20	.37	.37			
----------	36-48	10-15- 55	15-55- 75	15-30- 35	0.70-1.30	1.00-10.00	0.18-0.20	0.0-5.8	5.0-20	.32	.32			
----------	48-65	15-29- 55	10-41- 75	7-30- 35	1.15-1.70	1.00-10.00	0.14-0.22	0.0-5.8	0.0-5.0	.32	.32			
----------	65-80	15-42- 50	15-37- 69	7-21- 35	1.15-1.70	1.00-10.00	0.14-0.22	0.0-5.8	0.0-5.0	.37	.37			
560:														
Talcot, rarely flooded----------	0-10	15-21- 40	33-49- 57	28-30- 35	1.20-1.30	1.00-10.00	0.18-0.22	3.5-5.8	5.0-7.0	.28	.28	3	4L	86
----------	10-26	10-20- 55	23-48- 60	30-33- 35	1.20-1.30	1.00-10.00	0.18-0.22	4.2-5.8	2.0-4.0	.32	.32			
----------	26-30	15-35- 55	10-33- 58	25-33- 35	1.25-1.35	1.00-10.00	0.17-0.20	2.6-5.8	1.0-2.0	.28	.28			
----------	30-60	75-90- 95	0- 7- 19	1- 4- 6	1.55-1.65	100.00-705.00	0.02-0.04	0.0-0.0	0.5-1.0	.02	.02			
583:														
Minnetonka----------	0-13	0-17- 20	30-45- 62	35-38- 50	1.20-1.40	0.10-1.00	0.18-0.22	5.8-10.5	4.0-8.0	.32	.32	5	4	86
----------	13-35	0- 7- 15	28-48- 65	35-45- 60	1.20-1.35	0.01-0.10	0.13-0.19	5.8-13.7	0.3-1.0	.37	.37			
----------	35-60	0-19- 40	20-48- 75	25-33- 40	1.25-1.55	1.00-10.00	0.16-0.21	2.6-7.3	0.0-0.3	.43	.43			
585:														
Coland, occasionally flooded----------	0-8	15-19- 40	31-50- 63	22-31- 35	1.05-1.30	1.00-10.00	0.20-0.22	1.6-5.8	5.0-7.0	.24	.24	5	6	48
----------	8-32	15-18- 40	32-51- 63	22-31- 35	1.40-1.50	1.00-10.00	0.20-0.22	1.6-5.8	3.0-6.0	.32	.32			
----------	32-40	15-28- 30	35-42- 55	25-30- 35	1.40-1.50	1.00-10.00	0.20-0.22	2.6-5.8	2.0-4.0	.28	.28			
----------	40-44	15-28- 55	18-46- 67	18-26- 35	1.50-1.65	1.00-10.00	0.13-0.17	0.4-5.8	0.0-2.0	.37	.37			
----------	44-52	15-28- 55	18-46- 67	18-26- 35	1.50-1.65	1.00-10.00	0.13-0.17	0.4-5.8	0.0-2.0	.37	.37			
----------	52-79	30-53- 60	10-28- 52	12-19- 30	1.50-1.65	10.00-100.00	0.13-0.17	0.0-4.2	0.0-1.0	.24	.24			
Spillville, occasionally flooded	0-8	25-41- 45	29-37- 51	18-22- 26	1.15-1.30	1.00-10.00	0.19-0.21	0.4-2.9	4.0-5.0	.20	.20	5	6	48
----------	8-54	25-41- 45	29-37- 51	18-22- 26	1.45-1.55	1.00-10.00	0.19-0.21	0.4-2.9	1.0-4.0	.28	.28			
----------	54-79	35-43- 85	4-38- 60	5-19- 24	1.55-1.70	1.00-10.00	0.15-0.18	0.0-2.3	1.0-2.0	.32	.32			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
621:														
Houghton, drained----	0-9	--	--	--	0.15-0.45	1.41-42.34	0.35-0.45	---	20-85	---	---	2	2	134
----------	9-79	--	--	--	0.15-0.45	1.41-42.34	0.35-0.45	---	20-85	---	---			
626:														
Hayfield, rarely flooded----------	0-8	15-30- 45	31-49- 67	18-21- 24	1.20-1.35	1.00-10.00	0.20-0.24	0.4-2.3	3.0-4.0	.32	.32	3	6	48
----------	8-13	15-30- 45	31-49- 67	18-21- 24	1.45-1.65	1.00-10.00	0.20-0.24	0.4-2.3	0.5-1.0	.37	.37			
----------	13-29	15-39- 60	10-37- 66	18-24- 30	1.45-1.65	1.00-10.00	0.17-0.22	0.4-4.2	0.0-1.0	.28	.28			
----------	29-80	65-89- 95	0- 7- 26	0- 4- 8	1.55-1.85	100.00-705.00	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
638B2:														
Clarion----------	0-8	32-41- 50	29-34- 40	20-25- 28	1.20-1.40	1.41-14.11	0.15-0.22	2.2-4.0	2.0-6.0	.24	.24	5	6	48
----------	8-16	32-41- 50	29-34- 40	20-25- 28	1.30-1.45	1.41-14.11	0.15-0.22	2.2-4.0	2.0-4.0	.28	.28			
----------	16-34	34-43- 54	26-34- 40	18-23- 28	1.35-1.60	1.41-14.11	0.15-0.19	1.7-3.9	0.5-2.0	.32	.32			
----------	34-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
Swanlake----------	0-8	25-42- 45	30-34- 48	18-24- 27	1.30-1.45	4.23-14.11	0.20-0.24	1.6-3.5	2.0-4.0	.28	.28	5	4L	86
----------	8-43	25-36- 45	30-41- 50	18-23- 30	1.30-1.50	1.41-14.11	0.17-0.19	1.1-3.2	0.1-1.0	.37	.37			
----------	43-79	25-38- 45	35-37- 45	20-25- 32	1.40-1.50	1.41-14.11	0.11-0.19	1.6-3.9	0.1-0.5	.32	.32			
638C2:														
Clarion, moderately eroded----------	0-8	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	1.41-42.34	0.12-0.22	1.4-3.6	1.0-3.5	.28	.28	5	6	48
----------	8-24	34-43- 54	26-34- 40	18-23- 28	1.35-1.60	1.41-14.11	0.15-0.19	1.7-3.9	0.5-2.0	.32	.32			
----------	24-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			

Storden, moderately eroded	0-8	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	1.41-42.34	0.12-0.22	1.2-3.2	1.0-3.5	.28	.28	5	4L	86
	8-55	35-42- 50	28-37- 48	16-21- 24	1.40-1.65	1.41-14.11	0.15-0.19	1.2-2.7	0.0-1.5	.37	.37			
	55-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
651:														
Faxon, occasionally flooded	0-15	15-19- 65	20-52- 60	25-29- 35	1.30-1.45	1.00-10.00	0.20-0.24	2.6-5.8	2.0-6.0	.32	.32	2	6	48
	15-34	15-39- 65	3-37- 67	18-24- 35	1.40-1.60	1.00-10.00	0.12-0.19	0.4-5.8	0.0-2.0	.43	.43			
	34-80	--	--	--	---	---	---	---	---	---	---			
695:														
Tilfer, occasionally flooded	0-8	10-18- 40	32-52- 68	22-30- 32	1.35-1.40	1.00-10.00	0.20-0.22	1.6-4.8	5.0-6.0	.32	.32	2	4L	86
	8-19	10-18- 40	32-52- 68	22-30- 32	1.35-1.40	1.00-10.00	0.20-0.22	1.6-4.8	5.0-6.0	.32	.32			
	19-35	10-40- 40	30-38- 60	16-23- 30	1.40-1.65	1.00-10.00	0.17-0.19	0.0-4.2	1.0-2.0	.43	.43			
	35-80	--	--	--	---	---	---	---	---	---	---			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
706:														
Cerlin	0-8	20-23- 40	41-54- 60	20-23- 26	1.15-1.30	1.00-10.00	0.20-0.22	1.0-2.9	3.5-4.5	.28	.28	5	6	48
	8-14	20-23- 40	41-54- 60	20-23- 26	1.15-1.30	1.00-10.00	0.20-0.22	1.0-2.9	3.5-4.5	.28	.28			
	14-18	15-17- 40	36-52- 58	27-31- 34	1.40-1.50	1.00-10.00	0.18-0.20	3.2-5.4	1.0-2.0	.43	.43			
	18-24	15-17- 40	36-52- 58	27-31- 34	1.40-1.50	1.00-10.00	0.18-0.20	3.2-5.4	1.0-2.0	.43	.43			
	24-31	15-22- 40	31-47- 58	27-31- 34	1.40-1.50	1.00-10.00	0.18-0.20	3.2-5.4	1.0-2.0	.37	.37			
	31-37	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
	37-54	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
	54-63	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
	63-90	5-15- 50	11-43- 70	25-42- 45	1.50-1.70	0.01-0.10	0.17-0.19	2.6-8.9	0.0-0.5	.37	.37			
706B:														
Cerlin	0-8	20-23- 40	41-54- 60	20-23- 26	1.15-1.30	1.00-10.00	0.20-0.22	1.0-2.9	3.5-4.5	.28	.28	5	6	48
	8-14	20-23- 40	41-54- 60	20-23- 26	1.15-1.30	1.00-10.00	0.20-0.22	1.0-2.9	3.5-4.5	.28	.28			
	14-18	15-17- 40	36-52- 58	27-31- 34	1.40-1.50	1.00-10.00	0.18-0.20	3.2-5.4	1.0-2.0	.43	.43			
	18-24	15-17- 40	36-52- 58	27-31- 34	1.40-1.50	1.00-10.00	0.18-0.20	3.2-5.4	1.0-2.0	.43	.43			
	24-31	15-22- 40	31-47- 58	27-31- 34	1.40-1.50	1.00-10.00	0.18-0.20	3.2-5.4	1.0-2.0	.37	.37			
	31-37	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
	37-54	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
	54-63	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
	63-90	5-15- 50	11-43- 70	25-42- 45	1.50-1.70	0.01-0.10	0.17-0.19	2.6-8.9	0.0-0.5	.37	.37			
740C2:														
Hawick, moderately eroded	0-6	60-67- 90	2-23- 38	2-10- 15	1.50-1.55	10.00-100.00	0.13-0.15	0.0-0.0	1.0-3.0	.24	.24	5	3	86
	6-11	75-78- 95	2-16- 24	1- 6- 10	1.50-1.65	10.00-100.00	0.03-0.10	0.0-0.0	0.0-0.5	.10	.17			
	11-80	75-91- 95	0- 6- 21	1- 3- 10	1.55-1.65	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			
740D2:														
Hawick, moderately eroded	0-6	60-67- 90	2-23- 38	2-10- 15	1.50-1.55	10.00-100.00	0.13-0.15	0.0-0.0	1.0-3.0	.24	.24	5	3	86
	6-11	75-78- 95	2-16- 24	1- 6- 10	1.50-1.65	10.00-100.00	0.03-0.10	0.0-0.0	0.0-0.5	.10	.17			
	11-80	75-91- 95	0- 6- 21	1- 3- 10	1.55-1.65	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			
740F2:														
Hawick, moderately eroded	0-6	60-67- 90	2-23- 38	2-10- 15	1.50-1.55	10.00-100.00	0.13-0.15	0.0-0.0	1.0-3.0	.24	.24	5	3	86
	6-11	75-78- 95	2-16- 24	1- 6- 10	1.50-1.65	10.00-100.00	0.03-0.10	0.0-0.0	0.0-0.5	.10	.17			
	11-80	75-91- 95	0- 6- 21	1- 3- 10	1.55-1.65	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
755:														
Merton	0-16	10-28- 30	38-50- 67	18-23- 32	1.30-1.45	1.00-10.00	0.22-0.24	0.4-4.8	4.0-6.0	.28	.28	5	6	48
	16-23	10-25- 30	40-53- 69	18-23- 30	1.30-1.45	1.00-10.00	0.22-0.24	0.4-4.2	4.0-6.0	.32	.32			
	23-36	30-40- 45	28-36- 48	18-24- 27	1.35-1.50	1.00-10.00	0.20-0.22	0.4-3.2	2.0-4.0	.28	.28			
	36-60	45-47- 70	14-31- 37	18-23- 27	1.50-1.70	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.32	.32			
761:														
Franklin	0-6	2- 7- 10	65-71- 80	15-22- 25	1.30-1.35	1.00-10.00	0.22-0.24	0.0-2.6	3.0-4.0	.43	.43	5	6	48
	6-13	2- 7- 10	60-71- 83	15-22- 30	1.30-1.35	1.00-10.00	0.22-0.24	0.0-4.2	0.5-1.0	.49	.49			
	13-18	10-10- 20	50-58- 62	28-32- 35	1.35-1.40	1.00-10.00	0.18-0.20	3.5-5.8	0.5-1.0	.43	.43			
	18-28	10-10- 20	50-58- 62	28-32- 35	1.35-1.40	1.00-10.00	0.18-0.20	3.5-5.8	0.0-0.5	.43	.43			
	28-37	40-42- 65	14-34- 40	20-24- 35	1.65-1.75	1.00-10.00	0.17-0.19	1.0-5.8	0.0-0.5	.49	.49			
	37-46	40-42- 65	14-34- 40	20-24- 35	1.65-1.75	1.00-10.00	0.17-0.19	1.0-5.8	0.0-0.5	.49	.49			
	46-68	35-44- 50	23-34- 46	18-22- 27	1.65-1.75	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.49	.49			
	68-80	35-44- 50	23-34- 46	18-22- 27	1.65-1.75	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.49	.49			
777:														
Wapsie, rarely flooded	0-8	35-44- 55	27-41- 53	12-15- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	3.0-4.0	.20	.20	3	5	56
	8-13	35-44- 55	27-44- 53	10-12- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	0.5-1.0	.37	.37			
	13-17	35-43- 50	28-42- 50	12-15- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.37	.37			
	17-27	50-63- 70	8-17- 31	15-20- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.24	.24			
	27-29	50-67- 70	8-15- 29	15-18- 22	1.45-1.50	10.00-100.00	0.15-0.17	0.0-1.6	0.0-0.5	.20	.20			
	29-38	75-85- 98	0- 9- 23	2- 6- 10	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.15	.20			
	38-60	75-92- 98	0- 2- 18	2- 6- 10	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			
777B:														
Wapsie, rarely flooded	0-8	35-44- 55	27-41- 53	12-15- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	3.0-4.0	.20	.20	3	5	56
	8-13	35-44- 55	27-44- 53	10-12- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	0.5-1.0	.37	.37			
	13-17	35-43- 50	28-42- 50	12-15- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.37	.37			
	17-27	50-63- 70	8-17- 31	15-20- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.24	.24			
	27-29	50-67- 70	8-15- 29	15-18- 22	1.45-1.50	10.00-100.00	0.15-0.17	0.0-1.6	0.0-0.5	.20	.20			
	29-38	75-85- 98	0- 9- 23	2- 6- 10	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.15	.20			
	38-60	75-92- 98	0- 2- 18	2- 6- 10	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
777C2:														
Wapsie, rarely flooded, moderately eroded	0-6	35-44- 55	27-41- 53	12-15- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	2.0-3.0	.24	.24	3	5	56
	6-13	35-44- 55	27-44- 53	10-12- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	0.5-1.0	.37	.37			
	13-17	35-43- 50	28-42- 50	12-15- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.37	.37			
	17-27	50-63- 70	8-17- 31	15-20- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.24	.24			
	27-29	50-67- 70	8-15- 29	15-18- 22	1.45-1.50	10.00-100.00	0.15-0.17	0.0-1.6	0.0-0.5	.20	.20			
	29-38	75-85- 98	0- 9- 23	2- 6- 10	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.15	.20			
	38-60	75-92- 98	0- 2- 18	2- 6- 10	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			

782:														
Donnan----------	0-8	20-25- 35	41-52- 62	18-23- 26	1.20-1.44	1.00-10.00	0.20-0.22	0.4-2.9	2.5-3.5	.32	.32	3	6	48
----------	8-13	25-32- 35	39-45- 53	20-23- 26	1.50-1.55	1.00-10.00	0.20-0.22	1.0-2.9	0.5-1.0	.43	.43			
----------	13-18	25-32- 35	39-45- 53	20-23- 26	1.50-1.55	1.00-10.00	0.20-0.22	1.0-2.9	0.5-1.0	.43	.43			
----------	18-24	15-25- 35	35-47- 62	20-28- 30	1.45-1.70	1.00-10.00	0.17-0.19	1.0-4.2	0.0-0.5	.43	.43			
----------	24-34	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
----------	34-48	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
----------	48-57	35-44- 50	23-34- 46	18-22- 27	1.50-1.70	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.37	.37			
----------	57-60	35-44- 50	23-34- 46	18-22- 27	1.50-1.70	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.37	.37			
782B:														
Donnan----------	0-8	20-25- 35	41-52- 62	18-23- 26	1.20-1.55	1.00-10.00	0.20-0.22	0.4-2.9	2.5-3.5	.32	.32	3	6	48
----------	8-13	25-32- 35	39-45- 53	20-23- 26	1.50-1.55	1.00-10.00	0.20-0.22	1.0-2.9	0.5-1.0	.43	.43			
----------	13-18	25-32- 35	39-45- 53	20-23- 26	1.50-1.55	1.00-10.00	0.20-0.22	1.0-2.9	0.5-1.0	.43	.43			
----------	18-24	15-25- 35	35-47- 62	20-28- 30	1.45-1.70	1.00-10.00	0.17-0.19	1.0-4.2	0.0-0.5	.43	.43			
----------	24-34	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
----------	34-48	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
----------	48-57	35-44- 50	23-34- 46	18-22- 27	1.50-1.70	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.37	.37			
----------	57-60	35-44- 50	23-34- 46	18-22- 27	1.50-1.70	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.37	.37			
782C2:														
Donnan, moderately eroded----------	0-7	20-25- 35	41-52- 62	18-23- 26	1.50-1.55	1.00-10.00	0.20-0.22	0.4-2.9	2.0-3.0	.32	.32	3	6	48
----------	7-13	25-32- 35	39-45- 53	20-23- 26	1.50-1.55	1.00-10.00	0.20-0.22	1.0-2.9	0.5-1.0	.43	.43			
----------	13-24	15-25- 35	35-47- 62	20-28- 30	1.45-1.70	1.00-10.00	0.17-0.19	1.0-4.2	0.0-0.5	.43	.43			
----------	24-34	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
----------	34-48	2- 5- 35	23-46- 56	42-49- 55	1.65-1.80	0.01-0.10	0.11-0.14	8.0-12.1	0.0-0.5	.32	.32			
----------	48-57	35-44- 50	23-34- 46	18-22- 27	1.50-1.70	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.37	.37			
----------	57-60	35-44- 50	23-34- 46	18-22- 27	1.50-1.70	1.00-10.00	0.17-0.19	0.4-3.2	0.0-0.5	.37	.37			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
814:														
Rockton----------	0-8	20-40- 60	13-38- 64	15-23- 27	1.30-1.40	1.00-10.00	0.20-0.22	0.0-3.2	3.0-4.0	.17	.17	2	6	48
----------	8-15	20-40- 60	13-38- 64	15-23- 27	1.30-1.40	1.00-10.00	0.20-0.22	0.0-3.2	3.0-4.0	.32	.32			
----------	15-26	20-38- 60	6-36- 65	15-26- 35	1.40-1.55	1.00-10.00	0.17-0.19	0.0-5.8	0.5-1.0	.37	.37			
----------	26-31	15-30- 35	0-30- 50	35-41- 75	1.35-1.45	0.01-0.10	0.10-0.14	5.8-18.3	0.0-0.5	.28	.28			
----------	31-79	--	--	--	---	---	---	---	---	---	---			
814B:														
Rockton----------	0-8	20-40- 60	13-38- 64	15-23- 27	1.30-1.40	1.00-10.00	0.20-0.22	0.0-3.2	3.0-4.0	.17	.17	2	6	48
----------	8-15	20-40- 60	13-38- 64	15-23- 27	1.30-1.40	1.00-10.00	0.20-0.22	0.0-3.2	3.0-4.0	.32	.32			
----------	15-26	20-38- 60	6-36- 65	15-26- 35	1.40-1.55	1.00-10.00	0.17-0.19	0.0-5.8	0.5-1.0	.37	.37			
----------	26-31	15-30- 35	0-30- 50	35-41- 75	1.35-1.45	0.01-0.10	0.10-0.14	5.8-18.3	0.0-0.5	.28	.28			
----------	31-79	--	--	--	---	---	---	---	---	---	---			
835D2:														
Omsrud, moderately eroded----------	0-9	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	1.41-42.34	0.12-0.22	1.4-3.6	1.0-3.5	.28	.28	5	6	48
----------	9-24	34-43- 54	26-34- 40	18-23- 28	1.35-1.60	1.41-14.11	0.15-0.19	1.7-3.9	0.5-2.0	.32	.32			
----------	24-36	35-42- 54	28-35- 40	16-23- 33	1.40-1.65	1.41-42.34	0.11-0.19	1.2-4.4	0.3-1.5	.32	.32			
----------	36-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
Storden, moderately eroded----------	0-8	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	4.23-42.34	0.12-0.19	1.2-3.2	1.0-3.5	.28	.28	5	4L	86
----------	8-55	35-42- 50	28-37- 48	16-21- 24	1.40-1.65	4.23-14.11	0.17-0.19	1.2-2.7	0.0-1.5	.37	.37			
----------	55-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
835E2:														
Omsrud, moderately eroded----------	0-9	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	1.41-42.34	0.12-0.22	1.4-3.6	1.0-3.5	.28	.28	5	6	48
----------	9-24	34-43- 54	26-34- 40	18-23- 28	1.35-1.60	1.41-14.11	0.15-0.19	1.7-3.9	0.5-2.0	.32	.32			
----------	24-36	35-42- 54	28-35- 40	16-23- 33	1.40-1.65	1.41-42.34	0.11-0.19	1.2-4.4	0.3-1.5	.32	.32			
----------	36-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
Storden, moderately eroded----------	0-8	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	4.23-42.34	0.12-0.19	1.2-3.2	1.0-3.5	.28	.28	5	4L	86
----------	8-55	35-42- 50	28-37- 48	16-21- 24	1.40-1.65	4.23-14.11	0.17-0.19	1.2-2.7	0.0-1.5	.37	.37			
----------	55-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
836B:														
Kilkenny----------	0-8	15-33- 45	30-37- 60	25-30- 40	1.15-1.35	1.41-14.11	0.15-0.24	3.1-7.5	2.0-4.0	.32	.32	5	6	48
----------	8-47	15-30- 45	15-32- 50	35-38- 45	1.25-1.35	0.42-14.11	0.09-0.20	5.9-8.7	0.5-2.0	.28	.28			
----------	47-79	25-38- 50	28-37- 45	20-25- 30	1.50-1.70	1.41-14.11	0.17-0.18	1.4-3.4	0.0-0.5	.32	.32			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
836C2:														
Kilkenny, moderately eroded----------	0-7	15-33- 45	30-37- 60	25-30- 40	1.15-1.35	1.41-14.11	0.15-0.22	3.1-7.5	1.0-3.0	.32	.32	5	6	48
----------	7-47	15-30- 45	15-32- 50	35-38- 45	1.25-1.35	0.42-14.11	0.09-0.20	5.9-8.7	0.5-2.0	.28	.28			
----------	47-79	25-38- 50	28-37- 45	20-25- 30	1.50-1.70	1.41-14.11	0.17-0.18	1.4-3.4	0.0-0.5	.32	.32			
836D2:														
Kilkenny, moderately eroded----------	0-7	15-33- 45	30-37- 60	25-30- 40	1.15-1.35	1.41-14.11	0.15-0.22	3.1-7.5	1.0-3.0	.32	.32	5	6	48
----------	7-47	15-30- 45	15-32- 50	35-38- 45	1.25-1.35	0.42-14.11	0.09-0.20	5.9-8.7	0.5-2.0	.28	.28			
----------	47-79	25-38- 50	28-37- 45	20-25- 30	1.50-1.70	1.41-14.11	0.17-0.18	1.4-3.4	0.0-0.5	.32	.32			
855:														
Shorewood----------	0-8	4- 8- 13	48-55- 60	30-37- 46	1.20-1.40	0.42-14.11	0.12-0.23	3.2-8.5	4.0-8.0	.32	.32	5	4	86
----------	8-17	4- 8- 13	48-55- 60	30-37- 46	1.25-1.45	0.42-14.11	0.12-0.23	4.2-9.2	4.0-6.0	.32	.32			
----------	17-41	2- 4- 7	41-47- 55	38-49- 55	1.20-1.35	0.42-4.23	0.11-0.23	6.8-11.7	1.0-4.0	.28	.28			
----------	41-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	4.23-42.34	0.11-0.19	0.9-4.0	0.0-0.5	.32	.32			
957:														
Harps----------	0-8	19-30- 39	33-38- 44	27-32- 38	0.95-1.30	0.42-14.11	0.15-0.23	1.8-2.9	4.0-10	.24	.24	5	4L	86
----------	8-16	24-32- 39	29-36- 42	27-32- 38	1.30-1.45	0.42-14.11	0.15-0.19	2.4-4.9	2.0-6.0	.24	.24			
----------	16-63	30-39- 52	29-36- 42	17-25- 31	1.35-1.60	1.41-14.11	0.15-0.19	0.9-3.4	0.5-3.0	.32	.32			
----------	63-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-42.34	0.11-0.19	1.0-4.0	0.0-0.5	.32	.32			
Okoboji----------	0-8	5-11- 16	45-53- 60	30-36- 41	0.90-1.20	0.42-14.11	0.12-0.23	2.6-6.9	5.0-12	.32	.32	5	4	86
----------	8-33	5-12- 19	45-52- 60	30-36- 41	1.25-1.35	0.42-14.11	0.11-0.23	3.1-7.8	2.0-8.0	.32	.32			
----------	33-38	5-15- 25	45-49- 60	30-36- 41	1.35-1.60	0.42-14.11	0.11-0.20	3.8-7.6	0.5-2.5	.37	.37			
----------	38-79	5-16- 35	39-53- 66	20-31- 37	1.50-1.70	0.42-14.11	0.14-0.22	1.4-5.8	0.0-0.5	.37	.37			
1152:														
Marshan, rarely flooded----------	0-8	15-21- 40	25-51- 67	18-28- 35	1.30-1.40	1.00-10.00	0.20-0.22	0.0-2.9	5.0-6.0	.20	.20	3	6	48
----------	8-14	15-18- 40	25-54- 67	18-28- 35	1.30-1.40	1.00-10.00	0.20-0.22	3.0-5.9	2.0-5.0	.32	.32			
----------	14-18	15-18- 40	25-54- 67	18-28- 35	1.40-1.55	1.00-10.00	0.17-0.22	3.0-5.9	1.0-3.0	.37	.37			
----------	18-23	15-18- 40	25-54- 67	18-28- 35	1.40-1.55	1.00-10.00	0.17-0.22	3.0-5.9	0.5-1.0	.43	.43			
----------	23-30	30-39- 60	10-37- 52	18-24- 30	1.45-1.55	1.00-10.00	0.17-0.22	0.0-2.9	0.5-1.0	.32	.32			
----------	30-40	75-93- 98	0- 2- 15	0- 5- 10	1.55-1.65	100.00-705.00	0.02-0.05	0.0-2.9	0.0-0.5	.02	.02			
----------	40-79	75-93- 98	0- 2- 15	0- 5- 10	1.55-1.65	100.00-705.00	0.02-0.05	0.0-2.9	0.0-0.5	.02	.02			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
1177:														

Saude----------	0-7	35-44- 55	21-37- 50	15-19- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.20	.20	3	5	56
----------	7-13	35-44- 55	21-37- 50	15-19- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.20	.20			
----------	13-16	35-46- 55	21-37- 50	15-17- 24	1.40-1.50	1.00-10.00	0.15-0.19	0.0-2.9	1.0-3.0	.28	.28			
----------	16-24	40-50- 70	12-35- 48	12-15- 18	1.40-1.50	1.00-10.00	0.15-0.19	0.0-2.9	0.5-1.0	.32	.32			
----------	24-28	40-55- 70	12-30- 48	12-15- 18	1.40-1.50	10.00-100.00	0.15-0.19	0.0-2.9	0.5-1.0	.28	.28			
----------	28-36	70-80- 98	0-12- 30	0- 8- 15	1.50-1.75	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.05	.05			
----------	36-79	70-88- 98	0- 7- 30	0- 5- 15	1.50-1.75	100.00-705.0	0.02-0.06	0.0-2.9	0.0-0.5	.02	.02			
						0								
1177B:														
Saude----------	0-7	35-44- 55	21-37- 50	15-19- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.20	.20	3	5	56
----------	7-13	35-44- 55	21-37- 50	15-19- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.20	.20			
----------	13-16	35-46- 55	21-37- 50	15-17- 24	1.40-1.50	1.00-10.00	0.15-0.19	0.0-2.9	1.0-3.0	.28	.28			
----------	16-24	40-50- 70	12-35- 48	12-15- 18	1.40-1.50	1.00-10.00	0.15-0.19	0.0-2.9	0.5-1.0	.32	.32			
----------	24-28	40-55- 70	12-30- 48	12-15- 18	1.40-1.50	10.00-100.00	0.15-0.19	0.0-2.9	0.5-1.0	.28	.28			
----------	28-36	70-80- 98	0-12- 30	0- 8- 15	1.50-1.75	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.05	.05			
----------	36-79	70-88- 98	0- 7- 30	0- 5- 15	1.50-1.75	100.00-705.0	0.02-0.06	0.0-2.9	0.0-0.5	.02	.02			
						0								
1177C:														
Saude----------	0-7	35-44- 55	21-37- 50	15-19- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.20	.20	3	5	56
----------	7-13	35-44- 55	21-37- 50	15-19- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.20	.20			
----------	13-16	35-46- 55	21-37- 50	15-17- 24	1.40-1.50	1.00-10.00	0.15-0.19	0.0-2.9	1.0-3.0	.28	.28			
----------	16-24	40-50- 70	12-35- 48	12-15- 18	1.40-1.50	1.00-10.00	0.15-0.19	0.0-2.9	0.5-1.0	.32	.32			
----------	24-28	40-55- 70	12-30- 48	12-15- 18	1.40-1.50	10.00-100.00	0.15-0.19	0.0-2.9	0.5-1.0	.28	.28			
----------	28-36	70-80- 98	0-12- 30	0- 8- 15	1.50-1.75	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.05	.05			
----------	36-79	70-88- 98	0- 7- 30	0- 5- 15	1.50-1.75	100.00-705.0	0.02-0.06	0.0-2.9	0.0-0.5	.02	.02			
						0								
1178:														
Waukee----------	0-8	15-40- 50	28-39- 61	18-21- 24	1.25-1.41	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.28	.28	3	6	48
----------	8-18	15-40- 50	28-39- 61	18-21- 24	1.36-1.42	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32			
----------	18-24	30-42- 60	16-36- 52	18-22- 27	1.31-1.48	1.00-10.00	0.15-0.19	0.0-2.9	0.5-2.0	.32	.32			
----------	24-33	30-42- 60	16-36- 52	18-22- 27	1.31-1.48	1.00-10.00	0.15-0.19	0.0-2.9	0.5-2.0	.32	.32			
----------	33-48	70-84- 98	0-11- 30	0- 5- 15	1.59-1.70	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
----------	48-79	70-94- 98	0- 1- 22	0- 5- 15	1.57-1.69	100.00-705.0	0.02-0.06	0.0-1.4	0.0-0.5	.02	.02			
						0								
1178B:														
Waukee----------	0-8	15-40- 50	28-39- 61	18-21- 24	1.25-1.41	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.28	.28	3	6	48
----------	8-18	15-40- 50	28-39- 61	18-21- 24	1.36-1.42	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32			
----------	18-24	30-42- 60	16-36- 52	18-22- 27	1.31-1.48	1.00-10.00	0.15-0.19	0.0-2.9	0.5-2.0	.32	.32			
----------	24-33	30-42- 60	16-36- 52	18-22- 27	1.31-1.48	1.00-10.00	0.15-0.19	0.0-2.9	0.5-2.0	.32	.32			
----------	33-48	70-84- 98	0-11- 30	0- 5- 15	1.59-1.70	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
----------	48-79	70-94- 98	0- 1- 22	0- 5- 15	1.57-1.69	100.00-705.0	0.02-0.06	0.0-1.4	0.0-0.5	.02	.02			
						0								

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
1226:														
Lawler, rarely flooded----------	0-9	10-30- 50	20-48- 72	18-22- 30	1.31-1.45	1.00-10.00	0.20-0.22	0.0-2.9	4.0-5.0	.32	.32	3	6	48
----------	9-16	10-30- 50	20-48- 72	18-22- 30	1.21-1.41	1.00-10.00	0.20-0.22	0.0-2.9	2.5-4.0	.32	.32			
----------	16-19	10-35- 50	20-43- 72	18-22- 30	1.36-1.42	1.00-10.00	0.20-0.22	0.0-2.9	1.5-3.0	.32	.32			
----------	19-38	25-40- 60	10-36- 55	20-24- 30	1.38-1.63	1.00-10.00	0.16-0.18	3.0-5.9	0.5-2.0	.32	.32			
----------	38-79	75-90- 99	0- 5- 25	0- 5- 10	1.58-1.63	100.00-705.0	0.02-0.06	0.0-2.9	0.0-0.5	.02	.02			
						0								
1236B:														
Angus----------	0-7	25-39- 50	28-37- 50	20-24- 27	1.25-1.45	4.23-14.11	0.17-0.22	2.2-3.8	2.0-4.0	.28	.28	5	6	48
----------	7-37	25-33- 50	24-37- 50	24-30- 32	1.45-1.55	1.41-14.11	0.15-0.19	2.8-4.6	0.5-1.0	.32	.32			
----------	37-50	25-34- 50	26-38- 50	22-28- 30	1.45-1.55	1.41-14.11	0.14-0.17	1.8-3.5	0.0-0.5	.32	.32			
----------	50-79	25-38- 50	28-37- 45	20-25- 30	1.50-1.70	1.41-14.11	0.17-0.18	1.5-3.5	0.0-0.5	.32	.32			
1236B2:														
Angus, moderately eroded----------	0-6	30-39- 45	21-37- 52	18-24- 35	1.30-1.40	1.00-10.00	0.20-0.22	0.4-5.8	1.5-3.5	.24	.24	5	6	48
----------	6-35	30-34- 50	21-37- 46	24-30- 35	1.45-1.55	1.00-10.00	0.15-0.19	2.3-5.8	0.5-1.0	.32	.32			
----------	35-40	30-34- 45	24-37- 46	24-29- 35	1.55-1.75	1.00-10.00	0.14-0.19	2.3-5.8	0.0-0.5	.32	.32			
----------	40-80	30-43- 45	25-40- 56	12-17- 30	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.37	.37			
1236C:														
Angus----------	0-7	25-39- 50	28-37- 50	20-24- 27	1.25-1.45	4.23-14.11	0.17-0.22	2.2-3.8	2.0-4.0	.28	.28	5	6	48
----------	7-37	25-33- 50	24-37- 50	24-30- 32	1.45-1.55	1.41-14.11	0.15-0.19	2.8-4.6	0.5-1.0	.32	.32			
----------	37-50	25-34- 50	26-38- 50	22-28- 30	1.45-1.55	1.41-14.11	0.14-0.17	1.8-3.5	0.0-0.5	.32	.32			
----------	50-79	25-38- 50	28-37- 45	20-25- 30	1.50-1.70	1.41-14.11	0.17-0.18	1.5-3.5	0.0-0.5	.32	.32			
1236C2:														
Angus, moderately eroded----------	0-6	30-39- 45	21-37- 52	18-24- 35	1.30-1.40	1.00-10.00	0.20-0.22	0.4-5.8	1.5-3.5	.24	.24	5	6	48
----------	6-35	30-34- 55	19-37- 46	24-30- 35	1.45-1.55	1.00-10.00	0.15-0.19	2.3-5.8	0.5-1.0	.32	.32			
----------	35-40	30-34- 45	24-37- 46	24-29- 35	1.55-1.75	1.00-10.00	0.14-0.19	2.3-5.8	0.0-0.5	.32	.32			
----------	40-80	30-43- 45	33-40- 52	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.37	.37			
1284B:														
Flagler----------	0-8	60-65- 80	8-23- 35	5-12- 15	1.50-1.55	10.00-100.00	0.12-0.14	0.0-0.0	1.5-2.5	.15	.15	3	3	86
----------	8-15	60-65- 80	8-23- 35	5-12- 15	1.50-1.55	10.00-100.00	0.12-0.14	0.0-0.0	1.0-2.5	.28	.28			
----------	15-22	60-66- 80	7-22- 35	5-12- 15	1.50-1.55	10.00-100.00	0.12-0.14	0.0-0.0	1.0-2.5	.15	.15			
----------	22-33	60-68- 70	15-20- 30	5-12- 15	1.55-1.60	10.00-100.00	0.11-0.13	0.0-0.0	0.0-1.0	.17	.17			
----------	33-65	80-85- 95	0-10- 19	1- 5- 10	1.60-1.75	10.00-100.00	0.02-0.04	0.0-0.0	0.0-0.5	.10	.10			

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
1777:														
Wapsie----------	0-8	35-44- 55	27-41- 53	12-15- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	3.0-4.0	.20	.20	3	5	56
----------	8-13	35-44- 55	27-44- 53	10-12- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	0.5-1.0	.37	.37			
----------	13-17	35-43- 50	28-42- 50	12-15- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.37	.37			
----------	17-27	55-63- 70	8-16- 27	15-21- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.24	.24			
----------	27-29	45-67- 70	12-18- 34	12-15- 18	1.45-1.50	10.00-100.00	0.15-0.17	0.0-0.4	0.0-0.5	.20	.20			
----------	29-38	75-85- 98	0- 9- 23	2- 6- 10	1.50-1.75	100.00-705.0	0.02-0.06	0.0-0.0	0.0-0.5	.15	.20			
						0								
----------	38-60	75-92- 98	0- 2- 18	2- 6- 10	1.50-1.75	100.00-705.0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			
						0								
1777B:														
Wapsie----------	0-8	35-44- 55	27-41- 53	12-15- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	3.0-4.0	.20	.20	3	5	56
----------	8-13	35-44- 55	27-44- 53	10-12- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	0.5-1.0	.37	.37			
----------	13-17	35-43- 50	28-42- 50	12-15- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.37	.37			
----------	17-27	55-63- 70	8-16- 27	15-21- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.24	.24			
----------	27-29	45-67- 70	12-18- 34	12-15- 18	1.45-1.50	10.00-100.00	0.15-0.17	0.0-0.4	0.0-0.5	.20	.20			
----------	29-38	75-85- 98	0- 9- 23	2- 6- 10	1.50-1.75	100.00-705.0	0.02-0.06	0.0-0.0	0.0-0.5	.15	.20			
						0								
----------	38-60	75-92- 98	0- 2- 18	2- 6- 10	1.50-1.75	100.00-705.0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			
						0								
1777C2:														
Wapsie, moderately eroded----------	0-6	35-44- 55	27-41- 53	12-15- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	2.0-3.0	.24	.24	3	5	56
----------	6-13	35-44- 55	27-44- 53	10-12- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	0.5-1.0	.37	.37			
----------	13-17	35-43- 50	28-42- 50	12-15- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.37	.37			
----------	17-27	55-63- 70	8-16- 27	15-21- 22	1.45-1.50	1.00-10.00	0.15-0.17	0.0-1.6	0.0-0.5	.24	.24			
----------	27-29	45-67- 70	12-18- 34	12-15- 18	1.45-1.50	10.00-100.00	0.15-0.17	0.0-0.4	0.0-0.5	.20	.20			
----------	29-38	75-85- 98	0- 9- 23	2- 6- 10	1.50-1.75	100.00-705.0	0.02-0.06	0.0-0.0	0.0-0.5	.15	.20			
						0								
----------	38-60	75-92- 98	0- 2- 18	2- 6- 10	1.50-1.75	100.00-705.0	0.02-0.06	0.0-0.0	0.0-0.5	.02	.02			
						0								
4946:														

Udorthents----------	---	--	--	--	---	---	---	---	---	---	---	--	---	---
Highway----------	---	--	--	--	---	---	---	---	---	---	---	--	---	---
5010:														
Pits, sand and gravel	---	--	--	--	---	---	---	---	---	---	---	--	---	---
5030:														
Pits, limestone quarry----------	---	--	--	--	---	---	---	---	---	---	---	--	---	---

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
5040:														
Udorthents, loamy----	---	--	--	--	---	---	---	---	---	---	---	5	---	---
8041B:														
Sparta, terrace, rarely flooded------	0-11	70-84- 90	0-10- 29	1- 6- 10	1.40-1.65	10.00-100.00	0.09-0.12	0.0-2.9	1.0-2.0	.24	.24	5	2	134
----------	11-15	70-87- 90	0- 7- 29	1- 6- 10	1.45-1.70	10.00-100.00	0.09-0.12	0.0-2.9	0.5-1.0	.24	.24			
----------	15-72	80-90- 98	0- 6- 19	1- 4- 8	1.40-1.60	10.00-100.00	0.05-0.11	0.0-2.9	0.0-0.5	.28	.28			
----------	72-79	80-93- 99	0- 4- 20	0- 3- 8	1.50-1.70	10.00-100.00	0.04-0.07	0.0-2.9	0.0-0.5	.17	.17			
8041C:														
Sparta, rarely flooded----------	0-11	70-87- 98	0- 7- 26	1- 6- 10	1.40-1.65	10.00-100.00	0.09-0.12	0.0-0.0	1.0-2.0	.24	.24	5	2	134
----------	11-15	70-87- 98	0- 7- 26	1- 6- 10	1.45-1.70	10.00-100.00	0.09-0.12	0.0-0.0	0.5-1.0	.24	.24			
----------	15-72	80-90- 95	0- 6- 17	1- 4- 8	1.40-1.60	10.00-100.00	0.05-0.11	0.0-0.0	0.0-0.5	.15	.15			
----------	72-80	80-97- 99	0- 1- 13	0- 2- 5	1.50-1.70	10.00-100.00	0.04-0.07	0.0-0.0	0.0-0.5	.02	.02			
8175:														
Dickinson, rarely flooded----------	0-9	40-65- 70	12-20- 39	10-15- 18	1.50-1.55	10.00-100.00	0.12-0.15	0.0-0.4	1.5-2.5	.17	.17	3	3	86
----------	9-18	40-66- 70	12-20- 39	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.5-2.5	.24	.24			
----------	18-30	40-66- 70	12-20- 39	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.0-0.5	.28	.28			
----------	30-36	80-84- 95	0- 9- 16	4- 7- 10	1.55-1.65	10.00-100.00	0.08-0.10	0.0-0.0	0.0-0.5	.15	.15			
----------	36-60	80-91- 95	0- 2- 13	4- 7- 10	1.60-1.70	100.00-705.0 0	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
8175B:														
Dickinson, rarely flooded----------	0-9	40-65- 70	12-20- 39	10-15- 18	1.50-1.55	10.00-100.00	0.12-0.15	0.0-0.4	1.5-2.5	.17	.17	3	3	86
----------	9-18	40-66- 70	12-20- 39	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.5-2.5	.24	.24			
----------	18-30	40-66- 70	12-20- 39	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.0-0.5	.28	.28			
----------	30-36	80-84- 95	0- 9- 16	4- 7- 10	1.55-1.65	10.00-100.00	0.08-0.10	0.0-0.0	0.0-0.5	.15	.15			
----------	36-60	80-91- 95	0- 2- 13	4- 7- 10	1.60-1.70	100.00-705.0 0	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
8175C:														
Dickinson, rarely flooded----------	0-9	40-65- 70	12-20- 39	10-15- 18	1.50-1.55	10.00-100.00	0.12-0.15	0.0-0.4	1.5-2.5	.17	.17	3	3	86
----------	9-18	40-66- 70	12-20- 39	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.5-2.5	.24	.24			
----------	18-30	40-66- 70	12-20- 39	10-14- 18	1.45-1.55	10.00-100.00	0.12-0.15	0.0-0.4	0.0-0.5	.28	.28			
----------	30-36	80-84- 95	0- 9- 16	4- 7- 10	1.55-1.65	10.00-100.00	0.08-0.10	0.0-0.0	0.0-0.5	.15	.15			
----------	36-60	80-91- 95	0- 2- 13	4- 7- 10	1.60-1.70	100.00-705.0 0	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
AW:														
Animal waste lagoon--	---	--	--	--	---	---	---	---	---	---	---	--	---	---

Physical Soil Properties

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
SL:														
Sewage lagoon--------	---	--	--	--	---	---	---	---	---	---	---	--	---	---
W:														
Water----------	---	--	--	--	---	---	---	---	---	---	---	--	---	---