Webster 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			
34:														
Estherville	0-7	-67-	-23-	5-10- 15	1.25-1.35	10.00-100.00	0.13-0.18	0.0-2.9	1.5-2.5	.20	.20	2	3	86
	7-18	-67-	-19-	10-14- 18	1.35-1.60	10.00-100.00	0.12-0.19	0.0-2.9	0.5-1.0	.24	.24			
	18-80	-92-	- 4-	0- 4- 8	1.50-1.65	100.00-705.00	0.02-0.04	0.0-2.9	0.0-0.5	.02	.02			
34B:														
Estherville	0-8	48-57- 67	17-26- 35	12-17- 19	1.25-1.35	4.23-42.34	0.12-0.22	1.0-2.2	1.0-4.0	.20	.20	2	3	86
	8-13	42-58- 71	15-25- 35	13-17- 23	1.25-1.35	4.23-42.34	0.12-0.19	1.1-3.0	0.5-2.0	.20	.20			
	13-19	53-68- 82	6-18- 28	8-14- 19	1.35-1.60	14.11-42.34	0.11-0.13	0.6-1.8	0.0-0.5	.20	.20			
	19-79	75-85- 95	2- 9- 17	3- 6- 9	1.55-1.65	42.34-705.00	0.02-0.10	0.0-0.4	0.0-0.5	.02	.02			
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			
62F:														
Belview	0-9	38-46- 50	28-33- 39	15-21- 26	1.20-1.40	4.23-14.11	0.20-0.22	1.2-3.2	2.0-4.0	.24	.24	5	4L	86
	9-55	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- 50	29-35- 50	16-21- 33	1.50-1.70	1.41-14.11	0.14-0.19	1.1-4.1	0.0-0.5	.32	.32			
90:														
Okoboji, mucky, ponded	0-8	-19-	-53-	20-28- 30	1.20-1.25	1.00-10.00	0.22-0.25	0.1-4.2	12-18	.32	.32	5	6	48
	8-20	- 7-	-54-	35-39- 42	1.30-1.40	0.10-1.00	0.18-0.20	6.0-8.9	4.0-10	.24	.24			
	20-40	- 8-	-53-	35-39- 42	1.30-1.40	0.10-1.00	0.18-0.20	6.0-8.9	2.0-4.0	.32	.32			
	40-60	-18-	-52-	25-30- 35	1.40-1.50	1.00-10.00	0.18-0.20	2.6-5.8	1.0-2.0	.43	.43			

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					
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			
108:														
Wadena	0-7	25-40- 50	23-39- 50	16-21- 30	1.25-1.35	1.41-14.11	0.15-0.22	1.4-4.4	1.0-4.0	.28	.28	3	6	48
	7-17	20-45- 50	25-35- 50	16-20- 30	1.25-1.35	1.41-14.11	0.15-0.19	1.4-4.3	0.5-2.0	.28	.28			
	17-30	23-50- 75	10-30- 47	14-20- 30	1.35-1.60	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.28	.28			
	30-79	75-85- 95	2- 9- 17	3- 6- 9	1.55-1.65	42.34-705.00	0.02-0.10	0.0-0.5	0.0-0.5	.02	.02			
108B:														
Wadena	0-7	25-40- 50	23-39- 50	16-21- 30	1.25-1.35	1.41-14.11	0.15-0.22	1.4-4.4	1.0-4.0	.28	.28	3	6	48
	7-17	20-45- 50	25-35- 50	16-20- 30	1.25-1.35	1.41-14.11	0.15-0.19	1.4-4.3	0.5-2.0	.28	.28			
	17-30	23-50- 75	10-30- 47	14-20- 30	1.35-1.60	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.28	.28			
	30-79	75-85- 95	2- 9- 17	3- 6- 9	1.55-1.65	42.34-705.00	0.02-0.10	0.0-0.5	0.0-0.5	.02	.02			
108C:														
Wadena	0-7	25-40- 50	23-39- 50	16-21- 30	1.25-1.35	1.41-14.11	0.15-0.22	1.4-4.4	1.0-4.0	.28	.28	3	6	48
	7-17	20-45- 50	25-35- 50	16-20- 30	1.25-1.35	1.41-14.11	0.15-0.19	1.4-4.3	0.5-2.0	.28	.28			
	17-30	23-50- 75	10-30- 47	14-20- 30	1.35-1.60	1.41-42.34	0.11-0.19	1.1-4.1	0.0-0.5	.28	.28			
	30-79	75-85- 95	2- 9- 17	3- 6- 9	1.55-1.65	42.34-705.00	0.02-0.10	0.0-0.5	0.0-0.5	.02	.02			
135:														
Coland, occasionally flooded	0-8	15-22- 30	35-47- 58	27-31- 35	1.40-1.50	1.00-10.00	0.20-0.22	3.2-5.8	5.0-7.0	.28	.28	5	6	48
	8-32	-19-	-50-	27-31- 35	1.40-1.50	1.00-10.00	0.20-0.22	3.2-5.8	4.0-5.0	.24	.24			
	32-40	-27-	-44-	27-29- 30	1.40-1.50	1.00-10.00	0.15-0.19	3.2-4.2	4.0-6.5	.28	.28			
	40-44	-62-	-22-	12-16- 22	1.45-1.60	10.00-100.00	0.11-0.17	0.0-1.6	0.5-2.0	.24	.24			
	44-52	-39-	-42-	14-20- 27	1.50-1.60	1.00-10.00	0.13-0.19	0.0-3.2	0.5-2.0	.37	.37			
	52-60	-62-	-22-	12-16- 22	1.45-1.60	10.00-100.00	0.11-0.17	0.0-1.6	0.5-2.0	.24	.24			
136:														
Ankeny, rarely flooded	0-7	55-66- 80	5-20- 40	10-14- 18	1.50-1.55	10.00-100.00	0.16-0.18	0.0-0.4	2.5-3.5	.15	.15	4	3	86
	7-30	55-66- 80	5-20- 40	10-14- 18	1.50-1.55	10.00-100.00	0.16-0.18	0.0-0.4	2.0-3.0	.17	.17			
	30-44	55-67- 80	5-20- 40	10-13- 16	1.55-1.65	10.00-100.00	0.15-0.17	0.0-0.0	0.5-1.0	.28	.28			
	44-60	50-87- 90	0- 7- 50	2- 6- 10	1.65-1.75	10.00-100.00	0.12-0.14	0.0-0.0	0.0-0.5	.17	.17			

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					
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			
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			
201B:														
Coland	0-8	15-22- 30	35-47- 58	27-31- 35	1.40-1.50	1.00-10.00	0.20-0.22	3.2-5.8	5.0-7.0	.28	.28	5	6	48
	8-32	-19-	-50-	27-31- 35	1.40-1.50	1.00-10.00	0.20-0.22	3.2-5.8	4.0-5.0	.24	.24			
	32-40	-27-	-44-	27-29- 30	1.40-1.50	1.00-10.00	0.15-0.19	3.2-4.2	4.0-6.5	.28	.28			
	40-44	-62-	-22-	12-16- 22	1.45-1.60	10.00-100.00	0.11-0.17	0.0-1.6	0.5-2.0	.24	.24			
	44-52	-39-	-42-	14-20- 27	1.50-1.60	1.00-10.00	0.13-0.19	0.0-3.2	0.5-2.0	.37	.37			
	52-60	-62-	-22-	12-16- 22	1.45-1.60	10.00-100.00	0.11-0.17	0.0-1.6	0.5-2.0	.24	.24			
Terril	0-9	-41-	-37-	18-22- 30	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.24	.24	5	6	48
	9-36	-41-	-37-	18-22- 32	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	1.0-3.0	.32	.32			
	36-50	-37-	-37-	24-26- 30	1.40-1.45	1.00-10.00	0.17-0.19	2.3-4.2	0.5-1.0	.32	.32			

	50-60	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
203:														
Cylinder	0-8	29-42- 54	24-34- 44	20-24- 27	1.25-1.35	4.23-14.11	0.18-0.22	2.2-3.8	3.0-6.0	.20	.20	3	6	48
	8-19	30-45- 59	21-31- 43	20-24- 27	1.25-1.35	4.23-14.11	0.16-0.22	2.2-3.8	2.0-3.0	.24	.24			
	19-34	41-58- 77	10-23- 35	13-19- 24	1.30-1.40	4.23-42.34	0.12-0.19	1.1-3.1	0.5-2.0	.20	.20			
	34-79	75-85- 95	2- 9- 17	3- 6- 9	1.55-1.65	14.11-705.00	0.02-0.10	0.0-0.5	0.0-0.5	.02	.02			
227:														
Wadena, loamy substratum	0-7	-40-	-38-	18-23- 27	1.30-1.50	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.20	.20	3	6	48
	7-16	-40-	-38-	18-23- 27	1.30-1.50	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.24	.24			
	16-23	-39-	-37-	18-24- 27	1.35-1.50	1.00-10.00	0.14-0.19	0.0-2.9	1.0-2.0	.32	.32			
	23-30	-53-	-29-	16-18- 20	1.35-1.50	10.00-100.00	0.14-0.19	0.0-2.9	1.0-2.0	.24	.24			
	30-62	-92-	- 5-	1- 3- 5	1.55-1.65	100.00-705.00	0.02-0.04	0.0-2.9	0.0-0.5	.02	.02			
	62-80	-30-	-42-	18-28- 35	1.30-1.40	1.00-10.00	0.16-0.22	0.0-2.9	0.1-0.8	.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					
227B:														
Wadena, loamy substratum	0-7	-40-	-38-	18-23- 27	1.30-1.50	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.20	.20	3	6	48
	7-16	-40-	-38-	18-23- 27	1.30-1.50	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.24	.24			
	16-23	-39-	-37-	18-24- 27	1.35-1.50	1.00-10.00	0.14-0.19	0.0-2.9	1.0-2.0	.32	.32			
	23-30	-53-	-29-	16-18- 20	1.35-1.50	10.00-100.00	0.14-0.19	0.0-2.9	1.0-2.0	.24	.24			
	30-62	-92-	- 5-	1- 3- 5	1.55-1.65	100.00-705.00	0.02-0.04	0.0-2.9	0.0-0.5	.02	.02			
	62-80	-30-	-42-	18-28- 35	1.30-1.40	1.00-10.00	0.16-0.22	0.0-2.9	0.1-0.8	.37	.37			
228:														
Cylinder, loamy substratum	0-12	-39-	-37-	22-25- 27	1.40-1.45	1.00-10.00	0.20-0.22	1.6-3.2	4.0-5.0	.24	.24	3	6	48
	12-20	-39-	-37-	22-25- 27	1.40-1.45	1.00-10.00	0.20-0.22	1.6-3.2	2.0-3.0	.32	.32			
	20-34	-38-	-35-	22-27- 30	1.45-1.60	1.00-10.00	0.17-0.19	1.6-3.2	0.5-2.0	.32	.32			
	34-63	-84-	- 6-	2-10- 12	1.60-1.70	10.00-100.00	0.02-0.04	0.0-0.0	0.0-0.5	.02	.02			
	63-80	-39-	-37-	22-25- 27	1.30-1.40	1.00-10.00	0.16-0.22	0.0-2.9	0.1-0.8	.37	.37			
236D:														
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	.28	.28	5	6	48
	9-38	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			
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			
259:														
Biscay	0-8	20-36- 50	27-37- 52	23-27- 33	1.20-1.30	1.41-14.11	0.17-0.22	1.5-3.6	4.0-10	.24	.24	3	6	48
	8-20	20-39- 55	20-34- 45	19-27- 35	1.20-1.30	1.41-14.11	0.14-0.22	1.9-5.5	2.0-6.0	.24	.24			
	20-35	30-52- 75	12-26- 40	13-22- 31	1.25-1.35	1.41-42.34	0.10-0.19	1.1-4.5	0.5-3.0	.24	.24			
	35-79	75-85- 95	2- 9- 17	3- 6- 9	1.55-1.65	14.11-705.00	0.02-0.10	0.0-0.5	0.0-0.5	.02	.02			
262G:														
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			
Belview	0-9	38-46- 50	28-33- 39	15-21- 26	1.20-1.40	4.23-14.11	0.20-0.22	1.2-3.2	2.0-4.0	.24	.24	5	4L	86
	9-55	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- 50	29-35- 50	16-21- 33	1.50-1.70	1.41-14.11	0.14-0.19	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					
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			
278:														
Biscay, loamy substratum	0-7	-35-	-35-	25-30- 35	1.20-1.30	1.00-10.00	0.20-0.22	1.3-3.2	5.5-6.5	.24	.24	3	4L	86
	7-22	-34-	-38-	25-28- 32	1.25-1.35	1.00-10.00	0.17-0.19	1.0-4.2	4.0-6.0	.28	.28			
	22-36	-34-	-38-	25-28- 32	1.25-1.35	1.00-10.00	0.17-0.19	1.0-4.2	0.5-1.0	.32	.32			
	36-56	-80-	-17-	1- 4- 6	1.55-1.65	10.00-100.00	0.02-0.04	0.0-2.9	0.0-0.5	.15	.24			
	56-74	-90-	- 6-	1- 4- 6	1.55-1.65	100.00-705.00	0.02-0.04	0.0-2.9	0.0-0.5	.05	.05			
	74-80	-30-	-42-	18-28- 35	1.30-1.40	1.00-10.00	0.16-0.22	0.0-2.9	0.1-0.8	.37	.37			
315B:														
Udifluvents, Frequently flooded	0-8	-51-	-38-	5-12- 18	1.50-1.60	10.00-100.00	---	0.0-2.9	---	.28	.28	5	---	---
	8-60	-57-	-31-	5-12- 18	1.50-1.60	10.00-100.00	---	0.0-2.9	---	.28	.28			
323B:														
Fort Dodge	0-39	-40-	-38-	20-23- 26	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.24	.24	4	6	48
	39-58	-38-	-36-	22-26- 30	1.40-1.65	1.00-10.00	0.16-0.18	0.0-2.9	2.0-3.0	.28	.28			
	58-80	-78-	-18-	2- 4- 8	1.65-1.75	100.00-705.00	0.05-0.07	0.0-2.9	0.0-1.0	.10	.10			
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			
338:														
Garmore	0-6	-39-	-37-	22-25- 27	1.40-1.45	1.00-10.00	0.19-0.21	1.6-3.2	3.5-4.5	.24	.24	5	6	48
	6-17	-39-	-37-	22-25- 27	1.40-1.45	1.00-10.00	0.19-0.21	1.6-3.2	3.0-4.0	.28	.28			
	17-21	-35-	-37-	22-28- 30	1.40-1.45	1.00-10.00	0.19-0.21	1.6-4.2	1.0-2.0	.32	.32			
	21-49	-35-	-37-	24-28- 30	1.45-1.70	1.00-10.00	0.16-0.18	2.3-4.2	0.0-1.0	.37	.37			
	49-80	-39-	-37-	22-25- 27	1.45-1.60	1.00-10.00	0.16-0.18	1.6-3.2	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					
342:														
Estherville, loamy substratum	0-7	-67-	-23-	5-10- 15	1.25-1.35	10.00-100.00	0.13-0.18	0.0-2.9	1.5-2.5	.17	.17	2	3	86
	7-15	-67-	-19-	10-14- 18	1.35-1.60	10.00-100.00	0.12-0.19	0.0-2.9	0.5-1.0	.24	.24			
	15-75	-92-	- 4-	0- 4- 8	1.50-1.65	100.00-705.00	0.02-0.04	0.0-2.9	0.0-0.5	.02	.02			
	75-80	-39-	-37-	22-25- 27	1.30-1.40	1.00-10.00	0.16-0.22	0.0-2.9	0.1-0.8	.37	.37			
342B:														
Estherville, loamy substratum	0-7	-67-	-23-	5-10- 15	1.25-1.35	10.00-100.00	0.13-0.18	0.0-2.9	1.5-2.5	.17	.17	2	3	86

	7-15	-67-	-19-	10-14- 18	1.35-1.60	10.00-100.00	0.12-0.19	0.0-2.9	0.5-1.0	.24	.24			
	15-75	-92-	- 4-	0- 4- 8	1.50-1.65	100.00-705.0	0.02-0.04	0.0-2.9	0.0-0.5	.02	.02			
						0								
	75-80	-39-	-37-	22-25- 27	1.30-1.40	1.00-10.00	0.16-0.22	0.0-2.9	0.1-0.8	.37	.37			
344B:														
Copaston	0-7	-50-	-28-	14-22- 30	1.30-1.45	1.00-10.00	0.18-0.20	0.0-2.9	2.0-5.0	.20	.20	1	6	48
	7-11	-64-	-20-	14-17- 20	1.40-1.60	10.00-100.00	0.15-0.17	0.0-2.9	0.5-1.0	.24	.24			
	11-18	-64-	-18-	14-18- 30	1.45-1.65	10.00-100.00	0.12-0.14	0.0-2.9	0.0-0.5	.20	.20			
	18-80	--	--	--	---	14.11-141.14	---	---	---	---	---			
345:														
Copaston	0-7	-50-	-28-	14-22- 30	1.30-1.45	1.00-10.00	0.18-0.20	0.0-2.9	2.0-5.0	.20	.20	1	6	48
	7-11	-64-	-20-	14-17- 20	1.40-1.60	10.00-100.00	0.15-0.17	0.0-2.9	0.5-1.0	.24	.24			
	11-18	-64-	-18-	14-18- 30	1.45-1.65	10.00-100.00	0.12-0.14	0.0-2.9	0.0-0.5	.20	.20			
	18-80	--	--	--	---	14.11-141.14	---	---	---	---	---			
Jacwin	0-7	15-28- 45	30-45- 55	22-27- 32	1.35-1.45	1.00-10.00	0.20-0.22	1.0-4.8	4.5-5.5	.28	.28	4	6	48
	7-13	15-29- 45	30-45- 55	22-26- 32	1.35-1.45	1.00-10.00	0.20-0.22	2.3-4.8	4.5-5.5	.37	.37			
	13-24	20-34- 70	10-38- 50	20-28- 32	1.50-1.60	1.00-10.00	0.17-0.19	1.0-4.8	1.0-2.0	.37	.37			
	24-37	0- 3- 45	10-45- 50	40-53- 60	1.50-1.60	0.01-0.10	0.12-0.14	8.9-13.7	0.0-1.0	.28	.28			
	37-80	--	--	--	---	0.01-0.10	---	---	---	---	---			
355:														
Luther	0-9	-34-	-48-	10-19- 27	1.30-1.45	1.00-10.00	0.22-0.24	3.0-5.9	2.0-4.0	.37	.37	5	5	56
	9-15	-43-	-39-	15-18- 22	1.35-1.45	1.00-10.00	0.15-0.19	0.0-2.9	0.5-1.0	.43	.43			
	15-40	-35-	-38-	20-28- 35	1.40-1.55	1.00-10.00	0.15-0.19	3.0-5.9	0.3-1.0	.37	.37			
	40-80	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
383:														
Marna	0-7	4- 7- 12	43-54- 66	30-39- 45	1.20-1.35	0.42-14.11	0.12-0.23	2.9-8.2	4.0-10	.32	.32	5	4	86
	7-18	4- 7- 12	43-54- 66	30-39- 45	1.25-1.35	0.42-14.11	0.12-0.23	4.1-8.9	2.0-6.0	.32	.32			
	18-36	4- 6- 11	40-48- 60	35-46- 56	1.25-1.40	0.42-14.11	0.11-0.20	5.9-11.9	0.5-3.0	.32	.32			
	36-45	25-35- 44	30-37- 45	22-28- 34	1.35-1.60	0.42-14.11	0.15-0.19	1.4-4.0	0.5-3.0	.32	.32			
	45-79	25-35- 44	30-37- 45	22-28- 34	1.50-1.70	0.42-14.11	0.11-0.19	1.3-3.8	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					
385:														
Guckeen	0-15	- 8-	-55-	35-38- 40	1.20-1.30	0.10-1.00	0.16-0.19	6.0-8.9	4.0-6.0	.28	.28	5	4	86
	15-24	- 7-	-51-	35-42- 50	1.25-1.35	0.01-0.10	0.13-0.16	6.0-8.9	0.5-1.5	.37	.37			
	24-30	-35-	-33-	25-32- 50	1.35-1.80	1.00-10.00	0.15-0.17	3.0-5.9	0.3-0.8	.32	.32			
	30-80	-39-	-37-	20-25- 30	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.1-0.5	.32	.32			
386:														
Cordova	0-10	15-34- 45	28-38- 50	24-28- 35	1.30-1.40	1.41-14.11	0.17-0.23	1.9-3.8	4.0-7.0	.28	.28	5	6	48
	10-18	15-34- 45	28-38- 50	24-28- 35	1.25-1.45	1.41-14.11	0.17-0.23	2.9-5.4	2.0-4.0	.28	.28			
	18-38	15-33- 45	23-35- 50	27-32- 35	1.45-1.55	1.41-14.11	0.15-0.20	3.3-5.2	0.5-1.0	.28	.28			
	38-79	25-38- 50	28-37- 45	20-25- 30	1.50-1.70	1.41-14.11	0.17-0.22	1.5-3.5	0.0-0.5	.32	.32			
387B:														
Kamrar	0-15	- 8-	-55-	35-38- 40	1.20-1.30	0.10-1.00	0.17-0.19	3.0-5.9	3.0-4.0	.28	.28	5	4	86
	15-32	-18-	-43-	35-39- 50	1.25-1.35	0.10-1.00	0.15-0.19	3.0-5.9	1.0-3.0	.32	.32			
	32-54	-35-	-33-	24-32- 40	1.25-1.35	1.00-10.00	0.15-0.19	3.0-5.9	1.0-3.0	.28	.28			
	54-80	-39-	-37-	20-25- 30	1.35-1.55	1.00-10.00	0.14-0.16	3.0-5.9	0.0-0.5	.32	.32			
413G:														
Emeline	0-9	20-43- 45	28-38- 68	12-19- 27	1.15-1.20	1.00-10.00	0.17-0.22	0.0-3.2	2.5-3.5	.28	.28	1	4L	86
	9-80	--	--	--	---	10.00-100.00	---	---	---	---	---			
Gosport	0-4	5-15- 30	40-61- 65	10-24- 25	1.30-1.40	1.41-4.23	0.14-0.16	3.0-5.9	2.0-3.0	.37	.37	3	6	48
	4-8	5-20- 30	45-55- 65	20-25- 30	1.30-1.40	1.41-4.23	0.14-0.16	3.0-5.9	1.0-2.0	.49	.49			
	8-17	5-15- 20	25-46- 60	30-39- 50	1.50-1.60	0.01-0.42	0.12-0.14	6.0-8.9	0.0-0.5	.37	.37			
	17-47	5-10- 20	25-40- 60	35-50- 65	1.50-1.60	0.01-0.42	0.12-0.14	6.0-8.9	0.0-0.5	.32	.32			
	47-75	0-10- 20	25-40- 60	30-50- 65	1.50-1.60	0.01-0.42	0.12-0.14	6.0-8.9	0.0-0.5	.32	.32			
	75-79	--	--	--	---	0.01-0.42	---	---	---	---	---			
Ridgeton	0-29	-41-	-37-	18-22- 26	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.28	.28	5	6	48
	29-38	-41-	-37-	18-22- 26	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.28	.28			
	38-50	-38-	-36-	22-26- 30	1.45-1.70	1.00-10.00	0.16-0.18	0.0-2.9	0.0-1.0	.32	.32			
	50-80	-39-	-37-	20-25- 30	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.1-0.5	.32	.32			
457:														
Du Page, occasionally flooded	0-30	5-25- 30	50-53- 77	18-23- 27	1.35-1.55	1.00-10.00	0.22-0.24	0.0-2.9	4.0-6.0	.28	.28	5	4L	86
	30-35	15-38- 60	20-40- 65	18-23- 27	1.45-1.65	1.00-10.00	0.10-0.20	0.0-2.9	0.5-3.0	.32	.32			
	35-80	15-30- 65	11-55- 75	6-15- 24	1.50-1.70	1.00-10.00	0.08-0.20	0.0-2.9	0.2-1.0	.32	.49			
485:														
Spillville, occasionally flooded	0-9	20-40- 50	30-36- 50	17-24- 30	1.20-1.40	1.41-14.11	0.15-0.22	1.8-4.4	2.0-6.0	.28	.28	5	6	48
	9-44	20-40- 50	30-36- 50	17-24- 30	1.30-1.45	1.41-14.11	0.15-0.22	1.8-4.4	2.0-4.0	.28	.28			
	44-79	25-50- 70	15-30- 50	15-20- 25	1.50-1.70	4.23-42.34	0.11-0.19	1.1-2.8	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					
485B:														
Spillville	0-9	20-40- 50	30-36- 50	17-24- 30	1.20-1.40	1.41-14.11	0.15-0.22	1.8-4.4	2.0-6.0	.28	.28	5	6	48
	9-44	20-40- 50	30-36- 50	17-24- 30	1.30-1.45	1.41-14.11	0.15-0.22	1.8-4.4	2.0-4.0	.28	.28			
	44-79	25-50- 70	15-30- 50	15-20- 25	1.50-1.70	4.23-42.34	0.11-0.19	1.1-2.8	0.0-0.5	.37	.37			
506:														
Wacousta, depressional, ponded	0-9	- 7-	-62-	27-31- 35	1.20-1.25	1.00-10.00	0.21-0.23	3.2-5.8	8.0-10	.32	.32	5	4L	86
	9-14	- 7-	-62-	27-31- 35	1.20-1.25	1.00-10.00	0.21-0.23	3.2-5.8	7.0-9.0	.32	.32			
	14-16	- 7-	-64-	24-30- 35	1.25-1.30	1.00-10.00	0.18-0.20	2.3-5.8	2.0-4.0	.37	.37			
	16-80	- 9-	-63-	7-28- 35	1.30-1.40	1.00-10.00	0.20-0.22	0.4-4.2	0.0-1.0	.49	.49			
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			
511:														
Blue Earth	0-10	5- 7- 15	50-68- 75	20-25- 35	0.20-0.80	1.41-14.11	0.21-0.24	0.6-3.1	10-25	.37	.37	5	4L	86
	10-68	5- 7- 15	50-68- 75	20-25- 35	0.20-0.80	1.41-14.11	0.21-0.24	0.6-3.1	10-25	.37	.37			
	68-79	5- 9- 45	25-63- 75	20-28- 35	1.30-1.60	1.41-14.11	0.14-0.22	1.6-4.6	0.0-0.5	.49	.49			
526:														
Wacousta, mucky, depressional	0-7	- 7-	-67-	20-26- 35	1.20-1.25	1.00-10.00	0.21-0.23	3.2-5.8	12-18	.37	.37	5	4L	86
	7-14	- 7-	-62-	27-31- 35	1.20-1.25	1.00-10.00	0.21-0.23	3.2-5.8	7.0-9.0	.32	.32			
	14-27	- 7-	-64-	24-30- 35	1.25-1.30	1.00-10.00	0.18-0.20	2.3-5.8	2.0-4.0	.37	.37			
	27-80	- 9-	-67-	18-24- 30	1.30-1.40	1.00-10.00	0.20-0.22	1.3-3.2	0.0-1.0	.49	.49			
536:														
Hanlon, occasionally flooded	0-7	-65-	-20-	12-15- 18	1.45-1.55	10.00-100.00	0.16-0.18	0.0-2.9	2.0-3.0	.17	.17	5	3	86
	7-50	-65-	-20-	12-15- 18	1.45-1.55	10.00-100.00	0.16-0.18	0.0-2.9	1.0-2.0	.24	.24			
	50-69	-69-	-24-	5- 8- 10	1.55-1.70	10.00-100.00	0.11-0.13	0.0-2.9	1.0-2.0	.28	.28			
	69-80	-67-	-23-	2-10- 18	1.55-1.70	10.00-100.00	0.12-0.19	0.0-2.9	0.0-1.0	.28	.28			
541C:														
Estherville	0-7	-67-	-23-	5-10- 15	1.25-1.35	10.00-100.00	0.13-0.18	0.0-2.9	1.5-2.5	.20	.20	2	3	86
	7-18	-67-	-19-	10-14- 18	1.35-1.60	10.00-100.00	0.12-0.19	0.0-2.9	0.5-1.0	.24	.24			
	18-80	-92-	- 4-	0- 4- 8	1.50-1.65	100.00-705.0	0.02-0.04	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					
Hawick----------	0-7	-70-	-23-	5- 7- 15	1.35-1.55	10.00-100.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.24	5	3	86
----------	7-11	-88-	- 5-	1- 7- 10	1.50-1.65	100.00-705.00	0.03-0.10	0.0-2.9	0.0-0.5	.05	.10			
----------	11-80	-91-	- 6-	1- 3- 5	1.55-1.65	100.00-705.00	0.02-0.06	0.0-2.9	0.0-0.5	.02	.02			
551B:														
Calamine----------	0-8	10-18- 45	30-53- 55	26-29- 35	1.20-1.35	1.00-10.00	0.17-0.24	0.4-3.2	5.0-6.0	.32	.32	4	6	48
----------	8-20	10-18- 45	30-53- 55	26-29- 35	1.20-1.35	1.00-10.00	0.17-0.24	0.4-3.2	5.0-6.0	.37	.37			
----------	20-27	10-18- 45	30-53- 55	27-29- 35	1.50-1.60	1.00-10.00	0.18-0.22	3.2-5.8	0.5-1.5	.49	.49			
----------	27-34	5- 8- 20	40-51- 57	35-41- 50	1.55-1.65	0.01-0.10	0.08-0.12	7.3-10.5	0.0-0.5	.37	.37			
----------	34-46	0- 8- 20	40-50- 55	40-43- 50	1.60-1.70	0.01-0.10	0.08-0.12	7.3-10.5	0.0-0.5	.37	.37			
----------	46-60	--	--	--	---	0.01-0.10	---	---	0.0-0.5	---	---			
551D:														
Calamine----------	0-8	10-18- 45	30-53- 55	26-29- 35	1.20-1.35	1.00-10.00	0.17-0.24	0.4-3.2	5.0-6.0	.32	.32	4	6	48
----------	8-20	10-18- 45	30-53- 55	26-29- 35	1.20-1.35	1.00-10.00	0.17-0.24	0.4-3.2	5.0-6.0	.37	.37			
----------	20-27	10-18- 45	30-53- 55	27-29- 35	1.50-1.60	1.00-10.00	0.18-0.22	3.2-5.8	0.5-1.5	.49	.49			
----------	27-34	5- 8- 20	40-51- 57	35-41- 50	1.55-1.65	0.01-0.10	0.08-0.12	7.3-10.5	0.0-0.5	.37	.37			
----------	34-46	0- 8- 20	40-50- 55	40-43- 50	1.60-1.70	0.01-0.10	0.08-0.12	7.3-10.5	0.0-0.5	.37	.37			
----------	46-60	--	--	--	---	0.01-0.10	---	---	0.0-0.5	---	---			
559:														
Talcot----------	0-10	-35-	-33-	30-33- 35	1.20-1.30	1.00-10.00	0.18-0.22	3.0-5.9	5.0-7.0	.20	.20	3	4L	86
----------	10-26	-20-	-48-	30-33- 35	1.20-1.30	1.00-10.00	0.18-0.22	3.0-5.9	2.0-4.0	.32	.32			
----------	26-30	-35-	-33-	25-33- 35	1.25-1.35	1.00-10.00	0.17-0.20	3.0-5.9	1.0-2.0	.28	.28			
----------	30-60	-95-	- 2-	1- 4- 6	1.55-1.65	100.00-705.00	0.02-0.04	0.0-2.9	0.5-1.0	.02	.02			
561:														
Talcot, loamy substratum----------	0-21	-35-	-33-	28-33- 35	1.20-1.30	1.00-10.00	0.18-0.22	3.0-5.9	5.0-7.0	.24	.24	3	4L	86
----------	21-37	-54-	-14-	30-33- 35	1.25-1.35	1.00-10.00	0.17-0.20	3.0-5.9	2.0-6.0	.15	.15			
----------	37-75	-90-	- 6-	1- 4- 6	1.55-1.65	100.00-705.00	0.02-0.04	0.0-2.9	0.5-1.0	.02	.02			
----------	75-80	-30-	-42-	18-28- 35	1.30-1.40	1.00-10.00	0.16-0.22	0.0-2.9	0.1-0.8	.37	.37			
566C:														
Moingona----------	0-16	-43-	-38-	18-19- 20	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.9	3.0-4.0	.28	.28	5	5	56
----------	16-40	-37-	-35-	21-28- 30	1.45-1.65	1.00-10.00	0.16-0.18	0.0-2.9	0.5-1.0	.32	.32			
----------	40-60	-37-	-40-	15-23- 30	1.65-1.75	1.00-10.00	0.16-0.18	0.0-2.9	0.0-0.5	.37	.37			
568D:														
Cokato----------	0-16	-39-	-37-	22-25- 27	1.30-1.40	1.00-10.00	0.20-0.22	0.0-2.9	3.0-5.0	.24	.24	5	6	48
----------	16-41	-34-	-37-	22-30- 35	1.40-1.50	1.00-10.00	0.15-0.19	3.0-5.9	1.0-2.0	.32	.32			
----------	41-60	-39-	-45-	12-17- 22	1.50-1.70	1.00-10.00	0.14-0.18	3.0-5.9	0.0-1.0	.43	.43			
----------	60-80	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			

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					
568E:														
Cokato----------	0-16	-39-	-37-	22-25- 27	1.30-1.40	1.00-10.00	0.20-0.22	0.0-2.9	3.0-5.0	.24	.24	5	6	48
----------	16-41	-34-	-37-	22-30- 35	1.40-1.50	1.00-10.00	0.15-0.19	3.0-5.9	1.0-2.0	.32	.32			
----------	41-60	-39-	-45-	12-17- 22	1.50-1.70	1.00-10.00	0.14-0.18	3.0-5.9	0.0-1.0	.43	.43			
----------	60-80	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
583:														
Minnetonka----------	0-13	-17-	-53-	27-30- 35	1.20-1.40	1.00-10.00	0.18-0.22	3.0-5.9	4.0-8.0	.37	.37	5	6	48
----------	13-35	- 7-	-48-	35-45- 60	1.20-1.35	0.01-0.10	0.13-0.19	6.0-8.9	0.3-1.0	.37	.37			
----------	35-60	-19-	-48-	25-33- 40	1.25-1.55	1.00-10.00	0.16-0.21	3.0-5.9	0.0-0.3	.43	.43			
606:														
Lanyon, depressional-	0-13	- 8-	-55-	34-37- 42	1.35-1.40	0.10-1.00	0.14-0.16	6.0-8.9	6.0-7.0	.28	.28	5	4L	86
----------	13-20	- 6-	-47-	35-48- 60	1.40-1.60	0.01-0.10	0.12-0.14	6.0-8.9	2.0-4.0	.28	.28			
----------	20-52	- 6-	-47-	35-48- 60	1.40-1.60	0.01-0.10	0.12-0.14	6.0-8.9	2.0-4.0	.28	.28			
----------	52-60	-34-	-33-	25-33- 38	1.60-1.75	1.00-10.00	0.13-0.15	3.0-5.9	0.5-1.0	.28	.28			
625:														
Lerdal----------	0-7	-23-	-52-	18-25- 27	1.15-1.25	1.00-10.00	0.18-0.22	3.0-5.9	2.0-4.0	.37	.37	5	6	48
----------	7-9	-18-	-52-	25-30- 32	1.15-1.25	1.00-10.00	0.18-0.22	3.0-5.9	0.3-1.5	.43	.43			
----------	9-47	-18-	-43-	35-39- 55	1.25-1.35	0.10-1.00	0.13-0.19	6.0-8.9	0.3-0.8	.32	.32			
----------	47-60	-34-	-38-	20-28- 30	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.1-0.5	.37	.37			
636:														
Buckney, rarely flooded----------	0-14	-67-	-20-	10-13- 16	1.20-1.50	10.00-100.00	0.08-0.12	0.0-2.9	1.5-2.5	.17	.17	3	3	86
----------	14-22	-64-	-27-	4-10- 16	1.20-1.50	10.00-100.00	0.04-0.12	0.0-2.9	0.0-1.0	.32	.32			
----------	22-60	-85-	- 5-	5-10- 15	1.20-1.40	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
636B:														
Buckney, rarely flooded----------	0-14	-67-	-20-	10-13- 16	1.20-1.50	10.00-100.00	0.08-0.12	0.0-2.9	1.5-2.5	.17	.17	3	3	86
----------	14-22	-64-	-27-	4-10- 16	1.20-1.50	10.00-100.00	0.04-0.12	0.0-2.9	0.0-1.0	.32	.32			
----------	22-60	-85-	- 5-	5-10- 15	1.20-1.40	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
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			

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					
650:														
Faxon----------	0-15	-34-	-37-	25-29- 30	1.30-1.45	1.00-10.00	0.20-0.24	3.0-5.9	2.0-6.0	.24	.24	2	6	48
----------	15-34	-39-	-37-	18-24- 30	1.40-1.60	1.00-10.00	0.12-0.19	3.0-5.9	0.0-2.0	.32	.32			
----------	34-80	--	--	--	---	14.11-141.14	---	---	---	---	---			
Joliet----------	0-15	10-20- 30	50-58- 72	18-22- 27	1.15-1.35	1.00-10.00	0.17-0.23	0.0-2.9	4.0-5.0	.32	.32	1	4L	86
----------	15-19	15-18- 50	17-52- 62	23-30- 33	1.35-1.55	1.00-10.00	0.14-0.20	3.0-5.9	0.5-2.0	.43	.43			
----------	19-80	--	--	--	---	0.10-10.00	---	---	---	---	---			
715:														
Fluvaquents, Frequently flooded--	0-9	-85-	- 9-	2- 6- 10	1.50-1.55	10.00-100.00	---	0.0-2.9	---	.10	.10	5	---	---
----------	9-80	-92-	- 2-	2- 6- 10	1.50-1.75	100.00-705.00	---	0.0-2.9	---	.02	.02			
735:														
Havelock, occasionally flooded	0-9	-35-	-34-	27-31- 35	1.40-1.50	1.00-10.00	0.20-0.22	6.0-8.9	5.0-7.0	.20	.20	5	4L	86
----------	9-40	-35-	-34-	27-31- 35	1.40-1.50	1.00-10.00	0.20-0.22	6.0-8.9	1.0-4.0	.28	.28			

	40-60	-66-	-15-	12-19- 28	1.50-1.65	10.00-100.00	0.13-0.17	0.0-2.9	0.0-0.5	.17	.17			
740D:														
Hawick	0-7	60-75- 85	10-15- 25	5-10- 15	1.35-1.45	14.11-705.00	0.09-0.15	0.0-1.3	1.0-4.0	.05	.15	5	5	56
	7-11	75-85- 95	1-10- 15	0- 5- 10	1.45-1.60	14.11-705.00	0.02-0.10	0.0-0.5	0.0-0.5	.05	.10			
	11-79	75-90- 95	2- 5- 17	3- 5- 9	1.55-1.65	42.34-705.00	0.02-0.10	0.0-0.4	0.0-0.5	.02	.02			
775B:														
Billett	0-8	55-67- 75	10-23- 40	5-10- 15	1.40-1.70	10.00-100.00	0.13-0.18	0.0-0.0	1.0-2.0	.24	.24	5	3	86
	8-13	55-67- 75	7-19- 35	10-14- 18	1.40-1.70	10.00-100.00	0.10-0.15	0.0-0.4	0.5-1.0	.24	.24			
	13-28	45-67- 75	7-19- 35	10-14- 18	1.40-1.70	10.00-100.00	0.10-0.15	0.0-0.4	0.0-0.5	.24	.24			
	28-41	55-84- 90	0- 3- 32	8-13- 18	1.50-1.80	10.00-100.00	0.05-0.12	0.0-0.4	0.0-0.5	.10	.10			
	41-47	55-67- 75	7-20- 37	8-13- 18	1.50-1.80	10.00-100.00	0.05-0.12	0.0-0.4	0.0-0.5	.24	.24			
	47-52	75-80- 95	0-16- 23	2- 4- 7	1.60-1.90	10.00-100.00	0.02-0.10	0.0-0.0	0.0-0.5	.24	.24			
	52-60	75-80- 95	0-16- 23	2- 4- 7	1.60-1.90	10.00-100.00	0.02-0.10	0.0-0.0	0.0-0.5	.17	.24			
775C:														
Billett	0-8	55-67- 75	10-23- 40	5-10- 15	1.40-1.70	10.00-100.00	0.13-0.18	0.0-0.0	1.0-2.0	.24	.24	5	3	86
	8-13	55-67- 75	7-19- 35	10-14- 18	1.40-1.70	10.00-100.00	0.10-0.15	0.0-0.4	0.5-1.0	.24	.24			
	13-28	45-67- 75	7-19- 35	10-14- 18	1.40-1.70	10.00-100.00	0.10-0.15	0.0-0.4	0.0-0.5	.24	.24			
	28-41	55-84- 90	0- 3- 32	8-13- 18	1.50-1.80	10.00-100.00	0.05-0.12	0.0-0.4	0.0-0.5	.10	.10			
	41-47	55-67- 75	7-20- 37	8-13- 18	1.50-1.80	10.00-100.00	0.05-0.12	0.0-0.4	0.0-0.5	.24	.24			
	47-52	75-80- 95	0-16- 23	2- 4- 7	1.60-1.90	10.00-100.00	0.02-0.10	0.0-0.0	0.0-0.5	.24	.24			
	52-60	75-80- 95	0-16- 23	2- 4- 7	1.60-1.90	10.00-100.00	0.02-0.10	0.0-0.0	0.0-0.5	.17	.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					
777B:														
Wapsie	0-8	35-44- 55	25-41- 53	12-15- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	2.5-4.0	.32	.32	3	5	56
	8-13	35-44- 55	25-41- 53	12-15- 20	1.40-1.45	1.00-10.00	0.18-0.20	0.0-1.0	0.5-1.0	.43	.43			
	13-17	35-43- 50	28-39- 50	15-18- 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	-61-	-18-	15-21- 25	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	8-15- 40	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	10.00-100.00	0.02-0.06	0.0-0.0	0.0-0.5	.15	.20			
	38-60	75-92- 98	0- 2- 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	.02	.02			
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			
854D:														
Fens	0-35	--	--	0- 1- 5	0.30-0.50	1.00-100.00	0.35-0.45	---	55-75	---	---	1	2	134
	35-80	-27-	-44-	27-29- 30	1.50-1.80	1.00-10.00	0.14-0.22	0.0-2.9	0.5-4.0	.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					
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			
956:														
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			
1007:														
Cosmos, bouldery	0-7	-28-	-34-	35-38- 50	1.40-1.50	0.10-1.00	0.16-0.22	5.8-10.5	4.0-8.0	.28	.28	5	4	86
	7-20	- 8-	-50-	35-43- 50	1.40-1.50	0.01-0.10	0.16-0.22	5.8-10.5	4.0-8.0	.28	.28			
	20-30	- 6-	-47-	35-48- 60	1.40-1.60	0.01-0.10	0.14-0.19	5.8-13.7	0.5-2.0	.32	.32			
	30-36	- 6-	-47-	35-48- 60	1.40-1.60	0.01-0.10	0.14-0.19	5.8-13.7	0.5-2.0	.32	.32			
	36-60	-28-	-33-	30-40- 55	1.90-2.00	0.10-1.00	0.11-0.15	4.2-12.1	0.1-0.5	.28	.28			
1055B:														
Kandiyohi, bouldery	0-10	-26-	-36-	35-38- 50	1.30-1.50	0.10-1.00	0.16-0.22	7.3-10.5	4.0-7.0	.28	.28	5	4	86
	10-23	-23-	-29-	35-48- 60	1.40-1.60	0.01-0.10	0.14-0.19	5.8-13.7	0.5-2.0	.24	.24			
	23-64	-28-	-33-	30-40- 55	1.50-1.70	0.10-1.00	0.13-0.19	4.2-12.1	0.1-1.0	.28	.28			
	64-80	-28-	-33-	30-40- 55	1.80-2.00	0.10-1.00	0.11-0.15	4.2-12.1	0.1-1.0	.28	.28			
1138B:														
Clarion	0-7	-42-	-27-	25-31- 35	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	3.0-4.0	.24	.24	5	6	48
	7-18	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	2.0-3.0	.32	.32			
	18-36	-37-	-37-	24-26- 30	1.50-1.70	1.00-10.00	0.17-0.19	0.0-2.3	0.5-2.0	.32	.32			
	36-60	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
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			
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			

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					

1259:															
Biscay, depressional-	0-7	20-32- 50	27-39- 52	23-29- 33	1.15-1.30	1.41-14.11	0.17-0.22	1.4-3.1	8.0-12	.24	.24	3	6	48
	7-20	20-39- 55	20-34- 45	19-27- 35	1.15-1.30	1.41-14.11	0.15-0.22	1.1-3.6	6.0-10	.24	.24			
	20-28	30-52- 75	12-26- 40	13-22- 31	1.25-1.35	1.41-42.34	0.10-0.19	1.1-4.5	1.0-4.0	.24	.24			
	28-79	75-85- 95	2- 9- 17	3- 6- 9	1.55-1.65	14.11-705.00	0.02-0.10	0.0-0.5	0.0-1.0	.02	.02			
1507:														
Brownton	0-22	- 8-	-55-	35-38- 40	1.20-1.30	0.10-1.00	0.18-0.22	6.0-8.9	4.0-8.0	.28	.28	5	4L	86
	22-38	- 6-	-47-	35-48- 60	1.20-1.30	0.01-0.10	0.13-0.16	6.0-8.9	0.3-1.0	.32	.32			
	38-60	-34-	-37-	25-30- 35	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.0-2.0	.32	.32			
1555:														
Nicollet	0-10	-39-	-29-	28-32- 36	1.15-1.25	1.00-10.00	0.17-0.22	1.3-3.2	5.0-6.0	.20	.20	5	6	48
	10-17	-34-	-38-	20-28- 30	1.15-1.25	1.00-10.00	0.17-0.22	1.3-3.2	3.0-5.0	.28	.28			
	17-36	-34-	-38-	17-28- 30	1.25-1.35	1.00-10.00	0.15-0.19	0.1-4.2	0.5-2.0	.32	.32			
	36-60	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
Guckeen	0-15	- 8-	-55-	35-38- 40	1.20-1.30	0.10-1.00	0.16-0.19	6.0-8.9	4.0-6.0	.28	.28	5	4	86
	15-24	- 7-	-51-	35-42- 50	1.25-1.35	0.01-0.10	0.13-0.16	6.0-8.9	0.5-1.5	.37	.37			
	24-30	-35-	-33-	25-32- 50	1.35-1.80	1.00-10.00	0.15-0.17	3.0-5.9	0.3-0.8	.32	.32			
	30-80	-39-	-37-	20-25- 30	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.1-0.5	.32	.32			
1836B:														
Kilkenny	0-9	-27-	-51-	20-22- 35	1.15-1.25	1.00-10.00	0.17-0.22	3.0-5.9	2.0-4.0	.37	.37	5	6	48
	9-53	-30-	-31-	35-39- 45	1.25-1.35	0.10-1.00	0.15-0.19	3.0-5.9	0.3-1.0	.28	.28			
	53-80	-39-	-37-	20-25- 30	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.1-0.5	.32	.32			
Shorewood	0-17	-17-	-48-	30-35- 40	1.20-1.40	0.10-1.00	0.18-0.22	3.0-5.9	4.0-8.0	.32	.32	5	6	48
	17-39	- 6-	-49-	36-46- 55	1.20-1.35	0.01-0.10	0.13-0.16	6.0-8.9	1.0-4.0	.32	.32			
	39-60	-39-	-37-	20-25- 30	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.1-0.5	.32	.32			
2700C:														
Ridgeton	0-29	-41-	-37-	18-22- 26	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.28	.28	5	6	48
	29-38	-41-	-37-	18-22- 26	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.28	.28			
	38-50	-38-	-36-	22-26- 30	1.45-1.70	1.00-10.00	0.16-0.18	0.0-2.9	0.0-1.0	.32	.32			
	50-80	-39-	-37-	20-25- 30	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.1-0.5	.32	.32			
2700D:														
Ridgeton	0-29	-41-	-37-	18-22- 26	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.28	.28	5	6	48
	29-38	-41-	-37-	18-22- 26	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.28	.28			
	38-50	-38-	-36-	22-26- 30	1.45-1.70	1.00-10.00	0.16-0.18	0.0-2.9	0.0-1.0	.32	.32			
	50-80	-39-	-37-	20-25- 30	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.1-0.5	.32	.32			
4000:														
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---

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					
4055:														
Nicollet	0-10	-39-	-37-	18-24- 27	1.15-1.25	1.00-10.00	0.17-0.22	1.3-3.2	5.0-6.0	.24	.24	5	6	48
	10-17	-34-	-38-	20-28- 30	1.15-1.25	1.00-10.00	0.17-0.22	1.3-3.2	3.0-5.0	.28	.28			
	17-36	-34-	-38-	17-28- 30	1.25-1.35	1.00-10.00	0.15-0.19	0.1-4.2	0.5-2.0	.32	.32			
	36-60	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4107:														
Webster	0-8	-17-	-53-	27-30- 35	1.35-1.40	1.00-10.00	0.19-0.21	3.2-5.8	6.0-7.0	.28	.28	5	6	48
	8-16	-17-	-53-	27-30- 35	1.35-1.40	1.00-10.00	0.19-0.21	3.2-5.8	4.0-5.0	.32	.32			
	16-32	-34-	-37-	25-30- 35	1.40-1.50	1.00-10.00	0.16-0.18	2.6-5.8	2.0-3.0	.28	.28			
	32-60	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4138B:														
Clarion	0-7	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	3.0-4.0	.24	.24	5	6	48
	7-18	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	2.0-3.0	.32	.32			
	18-36	-37-	-37-	24-26- 30	1.50-1.70	1.00-10.00	0.17-0.19	0.0-2.3	0.5-2.0	.32	.32			
	36-60	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4235B:														
Angus	0-8	-39-	-37-	20-24- 27	1.30-1.40	1.00-10.00	0.20-0.22	0.0-2.9	2.0-4.0	.28	.28	5	6	48
	8-35	-34-	-37-	24-30- 35	1.45-1.55	1.00-10.00	0.15-0.19	3.0-5.9	0.5-1.0	.32	.32			
	35-40	-34-	-37-	24-29- 35	1.55-1.75	1.00-10.00	0.14-0.19	0.0-2.9	0.0-0.5	.37	.37			
	40-80	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4236D:														
Lester	0-7	-39-	-37-	20-24- 27	1.30-1.40	1.00-10.00	0.20-0.22	0.0-2.9	3.0-5.0	.24	.24	5	6	48
	7-38	-34-	-37-	24-29- 32	1.45-1.55	1.00-10.00	0.15-0.19	3.0-5.9	0.5-1.0	.32	.32			
	38-60	-39-	-37-	20-25- 30	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.1-0.5	.32	.32			
	60-80	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.0-0.5	.43	.43			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4325:														
Le Sueur	0-17	-40-	-41-	16-19- 22	1.40-1.45	1.00-10.00	0.21-0.23	3.0-5.9	2.5-3.5	.32	.32	5	5	56
	17-37	-39-	-37-	20-24- 27	1.30-1.40	1.00-10.00	0.20-0.24	0.0-2.9	3.0-4.0	.32	.32			
	37-46	-34-	-37-	24-30- 35	1.30-1.45	1.00-10.00	0.15-0.19	3.0-5.9	0.5-2.0	.28	.28			
	46-80	-39-	-37-	20-25- 30	1.45-1.60	1.00-10.00	0.15-0.19	3.0-5.9	0.0-0.5	.32	.32			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---

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					
4444:														
Jacwin	0-7	15-28- 45	30-45- 55	22-27- 32	1.35-1.45	1.00-10.00	0.20-0.22	1.0-4.8	4.5-5.5	.28	.28	4	6	48
	7-13	15-29- 45	30-45- 55	22-26- 32	1.35-1.45	1.00-10.00	0.20-0.22	2.3-4.8	4.5-5.5	.37	.37			
	13-24	20-34- 70	10-38- 50	20-28- 32	1.50-1.60	1.00-10.00	0.17-0.19	1.0-4.8	1.0-2.0	.37	.37			
	24-37	0- 3- 45	10-45- 50	40-53- 60	1.50-1.60	0.01-0.10	0.12-0.14	8.9-13.7	0.0-1.0	.28	.28			
	37-80	--	--	--	---	0.01-0.10	---	---	---	---	---			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4507:														
Canisteo	0-10	-35-	-34-	27-31- 35	1.25-1.35	1.00-10.00	0.18-0.22	3.2-5.8	5.0-7.0	.20	.20	5	4L	86
	10-18	-35-	-34-	27-31- 35	1.25-1.35	1.00-10.00	0.18-0.22	3.2-5.8	3.0-5.0	.24	.24			
	18-39	-35-	-39-	20-26- 35	1.35-1.50	1.00-10.00	0.15-0.19	3.0-5.8	2.0-4.0	.28	.28			
	39-80	-43-	-40-	12-17- 22	1.50-1.70	1.00-10.00	0.17-0.19	0.0-1.6	0.1-0.5	.43	.43			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4551B:														
Calamine	0-8	10-18- 45	30-53- 55	26-29- 35	1.20-1.35	1.00-10.00	0.17-0.24	0.4-3.2	5.0-6.0	.32	.32	4	6	48
	8-20	10-18- 45	30-53- 55	26-29- 35	1.20-1.35	1.00-10.00	0.17-0.24	0.4-3.2	5.0-6.0	.37	.37			
	20-27	10-18- 45	30-53- 55	27-29- 35	1.50-1.60	1.00-10.00	0.18-0.22	3.2-5.8	0.5-1.5	.49	.49			
	27-34	5- 8- 20	40-51- 57	35-41- 50	1.55-1.65	0.01-0.10	0.08-0.12	7.3-10.5	0.0-0.5	.37	.37			
	34-46	0- 8- 20	40-50- 55	40-43- 50	1.60-1.70	0.01-0.10	0.08-0.12	7.3-10.5	0.0-0.5	.37	.37			
	46-60	--	--	--	---	0.01-0.10	---	---	0.0-0.5	---	---			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4551D:														
Calamine	0-8	10-18- 45	30-53- 55	26-29- 35	1.20-1.35	1.00-10.00	0.17-0.24	0.4-3.2	5.0-6.0	.32	.32	4	6	48

	8-20	10-18- 45	30-53- 55	26-29- 35	1.20-1.35	1.00-10.00	0.17-0.24	0.4-3.2	5.0-6.0	.37	.37			
	20-27	10-18- 45	30-53- 55	27-29- 35	1.50-1.60	1.00-10.00	0.18-0.22	3.2-5.8	0.5-1.5	.49	.49			
	27-34	5- 8- 20	40-51- 57	35-41- 50	1.55-1.65	0.01-0.10	0.08-0.12	7.3-10.5	0.0-0.5	.37	.37			
	34-46	0- 8- 20	40-50- 55	40-43- 50	1.60-1.70	0.01-0.10	0.08-0.12	7.3-10.5	0.0-0.5	.37	.37			
	46-60	--	--	--	---	0.01-0.10	---	---	0.0-0.5	---	---			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4635:														
Buckney	0-14	-67-	-20-	10-13- 16	1.20-1.50	10.00-100.00	0.08-0.12	0.0-2.9	1.5-2.5	.17	.17	3	3	86
	14-22	-64-	-27-	4-10- 16	1.20-1.50	10.00-100.00	0.04-0.12	0.0-2.9	0.0-1.0	.32	.32			
	22-60	-85-	- 5-	5-10- 15	1.20-1.40	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---

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					
4635B:														
Buckney	0-14	-67-	-20-	10-13- 16	1.20-1.50	10.00-100.00	0.08-0.12	0.0-2.9	1.5-2.5	.17	.17	3	3	86
	14-22	-64-	-27-	4-10- 16	1.20-1.50	10.00-100.00	0.04-0.12	0.0-2.9	0.0-1.0	.32	.32			
	22-60	-85-	- 5-	5-10- 15	1.20-1.40	10.00-100.00	0.02-0.06	0.0-2.9	0.0-0.5	.10	.10			
Urban land	---	--	--	--	---	---	---	---	---	---	---	--	---	---
4946B:														
Udorthents	---	--	--	--	---	---	---	---	---	---	---	--	---	---
Highway	---	--	--	--	---	---	---	---	---	---	---	--	---	---
5010:														
Pits, sand and gravel	---	--	--	--	---	---	---	---	---	---	---	--	---	---
5030:														
Pits, limestone quarry	---	--	--	--	---	---	---	---	---	---	---	--	---	---
5035:														
Pits, gypsum quarries	---	--	--	--	---	---	---	---	---	---	---	--	---	---
5040:														
Udorthents, loamy	---	--	--	--	---	---	---	---	---	---	---	5	---	---
5049:														
Aquolls	---	--	--	--	---	---	---	---	---	---	---	5	---	---
Udorthents, loamy	---	--	--	--	---	---	---	---	---	---	---	5	---	---
5060:														
Pits, clay	---	--	--	--	---	---	---	---	---	---	---	--	---	---
5080:														
Udorthents	---	--	--	--	---	---	---	---	---	---	---	5	---	---
5457:														
Du Page, frequently flooded, channeled	0-30	5-25- 30	50-53- 77	18-23- 27	1.35-1.55	1.00-10.00	0.22-0.24	0.0-2.9	4.0-6.0	.28	.28	5	4L	86
	30-35	15-38- 60	20-40- 65	18-23- 27	1.45-1.65	1.00-10.00	0.10-0.20	0.0-2.9	0.5-3.0	.32	.32			
	35-80	15-30- 65	11-55- 75	6-15- 24	1.50-1.70	1.00-10.00	0.08-0.20	0.0-2.9	0.2-1.0	.32	.49			
5507:														
Corvuso	0-20	-20-	-42-	35-39- 55	1.30-1.45	0.10-1.00	0.14-0.22	6.0-8.9	4.0-7.0	.24	.24	5	4L	86
	20-30	-23-	-29-	35-48- 60	1.40-1.60	0.01-0.10	0.13-0.19	6.0-8.9	0.0-1.0	.28	.28			
	30-80	-28-	-33-	30-39- 55	1.60-1.80	0.10-1.00	0.11-0.15	6.0-8.9	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					
Brownton	0-22	- 8-	-55-	35-38- 40	1.20-1.30	0.10-1.00	0.18-0.22	6.0-8.9	4.0-8.0	.28	.28	5	4L	86
	22-38	- 6-	-47-	35-48- 60	1.20-1.30	0.01-0.10	0.13-0.16	6.0-8.9	0.3-1.0	.32	.32			
	38-60	-34-	-37-	25-30- 35	1.35-1.55	1.00-10.00	0.15-0.19	1.0-4.2	0.0-2.0	.32	.32			
AW:														
Animal waste lagoon	---	--	--	--	---	---	---	---	---	---	---	--	---	---
L307:														
Dundas, Bemis moraine	0-7	15-20- 40	45-60- 65	15-20- 25	1.30-1.40	4.23-14.11	0.20-0.24	1.0-2.6	4.0-7.0	.37	.37	5	6	48
	7-10	15-20- 40	45-60- 65	15-20- 25	1.30-1.40	4.23-14.11	0.17-0.24	1.5-3.4	2.0-5.0	.43	.43			
	10-12	25-35- 50	45-55- 65	5-10- 20	1.35-1.40	4.23-141.14	0.20-0.22	0.4-2.4	1.0-2.0	.55	.55			
	12-35	20-30- 45	30-40- 50	20-30- 35	1.45-1.55	1.41-14.11	0.17-0.22	2.2-5.2	0.5-1.0	.32	.32			
	35-79	35-49- 60	30-36- 50	10-15- 22	1.50-1.70	4.23-42.34	0.11-0.19	0.6-2.3	0.0-0.5	.37	.37			
SL:														
Sewage lagoon	---	--	--	--	---	---	---	---	---	---	---	--	---	---
W:														
Water	---	--	--	--	---	---	---	---	---	---	---	--	---	---