Winnebago County, Iowa
Physical Soil Properties

Print date: 11/18/2015

(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			
28B:														
Dickman----------	0-12	-68-	-20-	6-12- 18	1.30-1.40	10.00-100.00	0.13-0.15	0.0-2.9	1.5-2.5	.17	.17	2	3	86
----------	12-19	-68-	-20-	6-12- 18	1.30-1.40	10.00-100.00	0.13-0.15	0.0-2.9	1.0-3.2	.20	.20			
----------	19-33	-84-	- 4-	6-12- 18	1.35-1.50	10.00-100.00	0.12-0.14	0.0-2.9	0.5-1.0	.02	.02			
----------	33-80	-96-	- 2-	0- 3- 5	1.50-1.70	100.00-705.0 0	0.04-0.07	0.0-2.9	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	1.41-14.11	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
62C2:														
Storden, moderately eroded----------	0-8	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	1.41-14.11	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	1.40-14.10	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	1.41-14.11	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
62D2:														
Storden, moderately eroded----------	0-8	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	4.23-14.11	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	4.23-14.10	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	1.41-14.11	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
62E2:														
Storden, moderately eroded----------	0-8	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	4.23-14.11	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	4.23-14.10	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	1.41-14.11	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
73B:														
Salida----------	0-9	-67-	-23-	5-10- 15	1.35-1.45	10.00-100.00	0.10-0.12	0.0-2.9	1.5-2.5	.15	.20	5	5	56
----------	9-13	-79-	-16-	2- 5- 8	1.50-1.65	10.00-100.00	0.02-0.04	0.0-2.9	0.0-0.5	.10	.24			
----------	13-60	-96-	- 2-	0- 3- 5	1.50-1.65	100.00-705.0 0	0.02-0.04	0.0-2.9	0.0-0.5	.02	.05			

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					
73E:														
Salida----------	0-9	-67-	-23-	5-10- 15	1.35-1.45	10.00-100.00	0.10-0.12	0.0-2.9	1.5-2.5	.15	.20	5	5	56
----------	9-13	-79-	-16-	2- 5- 8	1.50-1.65	10.00-100.00	0.02-0.04	0.0-2.9	0.0-0.5	.10	.24			
----------	13-60	-96-	- 2-	0- 3- 5	1.50-1.65	100.00-705.0 0	0.02-0.04	0.0-2.9	0.0-0.5	.02	.05			

90:															
Okoboji----------	0-17	-24-	-51-	20-25- 30	1.20-1.25	1.00-10.00	0.22-0.25	3.0-5.9	12-18	.32	.32	5	4L	86
----------	17-44	- 7-	-54-	35-39- 42	1.30-1.40	0.10-1.00	0.18-0.20	6.0-8.9	7.0-10	.28	.28			
----------	44-60	- 7-	-53-	35-40- 45	1.35-1.40	0.01-0.10	0.18-0.20	6.0-8.9	3.0-4.0	.32	.32			
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	1.41-14.11	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	1.41-14.11	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
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			
135B:														
Coland----------	0-36	-35-	-34-	27-31- 35	1.40-1.50	1.00-10.00	0.20-0.22	3.0-5.9	5.0-7.0	.20	.20	5	6	48
----------	36-60	-35-	-34-	27-31- 35	1.40-1.50	1.00-10.00	0.20-0.22	3.0-5.9	3.0-5.0	.24	.24			
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	1.41-14.11	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
138C:														
Clarion----------	0-6	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
----------	6-13	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			
----------	13-31	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			
----------	31-79	25-44- 55	29-35- 50	16-21- 33	1.50-1.70	1.41-14.11	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	1.41-14.11	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	1.41-14.11	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
138D2:														
Clarion, moderately eroded----------	0-7	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	2.2-3.2	.32	.32	5	6	48
----------	7-16	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	1.0-2.0	.32	.32			
----------	16-35	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	0.5-1.0	.37	.37			
----------	35-60	-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			
150:														
Hanska----------	0-12	45-50- 60	20-35- 40	5-15- 20	1.20-1.30	4.23-42.34	0.13-0.22	0.2-2.0	4.0-10	.28	.28	3	5	56
----------	12-19	50-55- 65	20-30- 40	5-15- 20	1.20-1.30	4.23-42.34	0.12-0.22	0.4-2.5	2.0-6.0	.24	.24			
----------	19-27	55-65- 75	10-23- 30	5-12- 18	1.35-1.55	14.23-42.34	0.12-0.14	0.0-1.6	0.5-3.0	.20	.20			
----------	27-79	80-90- 95	1- 5- 15	1- 5- 10	1.50-1.60	14.11-705.00	0.05-0.10	0.0-0.6	0.0-0.5	.02	.02			

168B:														
Hayden----------	0-9	-43-	-40-	10-18- 25	1.40-1.60	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32	5	5	56
----------	9-14	-43-	-40-	10-18- 25	1.40-1.60	10.00-100.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32			
----------	14-43	-38-	-36-	18-27- 35	1.50-1.65	1.00-10.00	0.15-0.19	3.0-5.9	0.5-1.0	.32	.32			
----------	43-60	-42-	-37-	15-21- 27	1.65-1.80	1.00-10.00	0.14-0.19	0.0-2.9	0.0-0.5	.37	.37			
168C:														
Hayden----------	0-9	-43-	-40-	10-18- 25	1.40-1.60	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32	5	5	56
----------	9-14	-43-	-40-	10-18- 25	1.40-1.60	10.00-100.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32			
----------	14-43	-38-	-36-	18-27- 35	1.50-1.65	1.00-10.00	0.15-0.19	3.0-5.9	0.5-1.0	.32	.32			
----------	43-60	-42-	-37-	15-21- 27	1.65-1.80	1.00-10.00	0.14-0.19	0.0-2.9	0.0-0.5	.37	.37			
168D2:														
Hayden, moderately eroded----------	0-9	-43-	-40-	10-18- 25	1.40-1.60	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32	5	5	56
----------	9-14	-43-	-40-	10-18- 25	1.40-1.60	10.00-100.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32			
----------	14-43	-38-	-36-	18-27- 35	1.50-1.65	1.00-10.00	0.15-0.19	3.0-5.9	0.5-1.0	.32	.32			
----------	43-60	-42-	-37-	15-21- 27	1.65-1.80	1.00-10.00	0.14-0.19	0.0-2.9	0.0-0.5	.37	.37			
168E:														
Hayden----------	0-9	-43-	-40-	10-18- 25	1.40-1.60	1.00-10.00	0.20-0.22	0.0-2.9	2.0-3.0	.28	.28	5	5	56
----------	9-14	-43-	-40-	10-18- 25	1.40-1.60	10.00-100.00	0.20-0.22	0.0-2.9	2.0-3.0	.32	.32			
----------	14-43	-38-	-36-	18-27- 35	1.50-1.65	1.00-10.00	0.15-0.19	3.0-5.9	0.5-1.0	.32	.32			
----------	43-60	-42-	-37-	15-21- 27	1.65-1.80	1.00-10.00	0.14-0.19	0.0-2.9	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					
175B:														
Dickinson----------	0-8	40-65- 70	12-20- 48	12-15- 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
----------	8-18	40-66- 70	12-20- 50	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- 50	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- 15	5- 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- 15	5- 7- 10	1.60-1.70	100.00-705.0 0	0.02-0.04	0.0-0.0	0.0-0.5	.10	.10			
221:														
Klossner, drained----	0-9	--	--	--	0.10-0.45	1.41-42.34	0.15-0.47	---	20-85	---	---	1	2	134
----------	9-27	--	--	--	0.10-0.45	1.41-42.34	0.15-0.47	---	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			
224:														
Linder, 24 to 32 inches to sand and gravel----------	0-13	-65-	-19-	14-16- 18	1.40-1.45	1.00-10.00	0.15-0.20	0.0-2.9	3.5-4.5	.20	.20	3	4L	86
----------	13-24	-67-	-19-	10-14- 18	1.45-1.55	10.00-100.00	0.15-0.17	0.0-2.9	0.0-0.5	.24	.24			
----------	24-60	-94-	- 1-	2- 5- 8	1.55-1.75	100.00-705.0 0	0.02-0.04	0.0-2.9	0.0-0.5	.02	.02			
236B:														
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
----------	9-30	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			
----------	30-79	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			
236C2:														
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			
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			

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					
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			
307:														
Dundas----------	0-7	20-25- 45	40-55- 60	15-20- 30	1.30-1.40	1.41-14.11	0.17-0.24	1.0-3.2	4.0-7.0	.37	.37	5	6	48
----------	7-10	20-25- 45	40-55- 60	15-20- 30	1.30-1.40	1.41-14.11	0.17-0.24	1.5-4.4	2.0-5.0	.43	.43			
----------	10-12	30-50- 55	35-40- 60	5-10- 20	1.35-1.40	4.23-14.11	0.20-0.22	0.4-2.4	1.0-2.0	.43	.43			
----------	12-38	25-35- 50	25-35- 45	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			
----------	38-79	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			
321:														
Boots----------	0-5	- 5-	-90-	0- 5- 15	0.16-0.45	1.00-100.00	0.35-0.45	0.0-0.0	60-90	---	---	2	2	134
----------	5-60	- 5-	-90-	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			
349:														
Darfur----------	0-19	-41-	-37-	18-22- 25	1.20-1.35	1.00-10.00	0.20-0.22	0.0-2.9	4.5-5.5	.24	.24	5	6	48
----------	19-31	-65-	-20-	13-16- 18	1.35-1.50	10.00-100.00	0.15-0.17	0.0-2.9	1.0-4.0	.24	.24			
----------	31-60	-80-	-10-	5-10- 15	1.45-1.60	10.00-100.00	0.08-0.10	0.0-2.9	0.0-1.0	.20	.20			
384:														
Collinwood----------	0-19	- 8-	-55-	35-38- 40	1.20-1.30	0.10-1.00	0.14-0.17	3.0-5.9	5.0-6.0	.28	.28	5	4	86
----------	19-40	- 6-	-47-	35-48- 60	1.25-1.35	0.01-0.10	0.13-0.16	6.0-8.9	1.0-5.0	.28	.28			
----------	40-60	- 7-	-53-	35-40- 45	1.25-1.40	0.01-0.10	0.11-0.15	6.0-8.9	0.0-1.0	.37	.37			
384B:														
Collinwood----------	0-19	- 8-	-55-	35-38- 40	1.20-1.30	0.10-1.00	0.14-0.17	3.0-5.9	4.5-5.5	.28	.28	5	4	86
----------	19-40	- 6-	-47-	35-48- 60	1.25-1.35	0.01-0.10	0.13-0.16	6.0-8.9	1.0-4.5	.28	.28			
----------	40-60	- 7-	-53-	35-40- 45	1.25-1.40	0.01-0.10	0.11-0.15	6.0-8.9	0.0-1.0	.37	.37			
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			

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					
390:														
Waldorf----------	0-9	4- 7- 12	43-54- 66	30-39- 45	1.20-1.35	0.42-4.23	0.12-0.23	2.9-8.2	4.0-10	.32	.32	5	4	86
----------	9-20	4- 7- 12	43-54- 66	30-39- 45	1.25-1.35	0.42-4.23	0.12-0.23	4.1-8.9	2.0-6.0	.32	.32			
----------	20-37	4- 6- 11	40-48- 60	35-46- 56	1.25-1.40	0.42-4.23	0.11-0.20	5.9-11.9	0.5-3.0	.32	.32			
----------	37-53	4- 6- 11	40-48- 60	35-46- 56	1.30-1.45	0.42-4.23	0.10-0.20	5.7-11.3	0.5-1.0	.32	.32			
----------	53-79	7-12- 18	40-49- 61	26-39- 45	1.35-1.50	0.42-14.11	0.10-0.20	2.7-8.0	0.0-0.5	.37	.37			
485B:														
Spillville----------	0-42	-41-	-37-	18-22- 26	1.45-1.55	1.00-10.00	0.19-0.21	3.0-5.9	3.5-4.5	.24	.24	5	6	48
----------	42-60	-43-	-38-	14-19- 24	1.55-1.70	1.00-10.00	0.15-0.18	0.0-2.9	2.0-3.0	.32	.32			
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	1.41-14.11	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	1.41-14.11	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			
583:														
Minnetonka----------	0-13	-20-	-49-	27-31- 35	1.20-1.40	1.00-10.00	0.18-0.22	3.0-5.9	6.0-7.0	.32	.32	5	6	48
----------	13-35	- 6-	-47-	35-48- 60	1.20-1.35	0.01-0.10	0.13-0.19	6.0-8.9	1.0-3.0	.32	.32			
----------	35-60	-20-	-48-	25-33- 40	1.25-1.55	1.00-10.00	0.16-0.21	3.0-5.9	0.0-0.5	.43	.43			
585B:														
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			
Spillville----------	0-42	-41-	-37-	18-22- 26	1.45-1.55	1.00-10.00	0.19-0.21	3.0-5.9	4.0-7.0	.24	.24	5	6	48
----------	42-60	-43-	-38-	14-19- 24	1.55-1.70	1.00-10.00	0.15-0.18	0.0-2.9	2.0-3.0	.32	.32			
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	---	---			

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					
638B2:														
Clarion, moderately eroded----------	0-7	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	2.2-3.2	.32	.32	5	6	48
----------	7-16	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	1.0-2.0	.32	.32			
----------	16-35	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	0.5-1.0	.37	.37			
----------	35-60	-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			
Storden, moderately eroded----------	0-8	-40-	-38-	18-23- 27	1.35-1.45	1.00-10.00	0.20-0.22	0.0-2.9	1.8-3.2	.32	.32	5	4L	86
----------	8-60	-39-	-37-	18-24- 30	1.35-1.65	1.00-10.00	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
638C2:														
Clarion, moderately eroded----------	0-8	38-46- 54	28-33- 39	15-21- 26	1.20-1.40	1.41-14.11	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	1.41-14.11	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	1.41-14.11	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	1.40-14.10	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	1.41-14.11	0.11-0.19	1.1-4.1	0.0-0.5	.32	.32			
638D2:															
Clarion, moderately eroded	0-7	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	2.2-3.2	.32	.32	5	6	48
	7-16	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	1.0-2.0	.32	.32			
	16-35	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	0.5-1.0	.37	.37			
	35-60	-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			
Storden, moderately eroded	0-8	-40-	-38-	18-23- 27	1.35-1.45	1.00-10.00	0.20-0.22	0.0-2.9	1.8-3.2	.32	.32	5	4L	86
	8-60	-39-	-37-	18-24- 30	1.35-1.65	1.00-10.00	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
638E2:															
Clarion, moderately eroded	0-7	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	2.2-3.2	.32	.32	5	6	48
	7-16	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	1.0-2.0	.32	.32			
	16-35	-42-	-37-	18-21- 24	1.40-1.45	1.00-10.00	0.20-0.22	0.0-2.3	0.5-1.0	.37	.37			
	35-60	-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			
Storden, moderately eroded	0-8	-40-	-38-	18-23- 27	1.35-1.45	1.00-10.00	0.20-0.22	0.0-2.9	1.8-3.2	.32	.32	5	4L	86
	8-60	-39-	-37-	18-24- 30	1.35-1.65	1.00-10.00	0.17-0.19	0.0-2.9	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					
655:														
Crippin	0-20	-39-	-37-	22-25- 27	1.35-1.40	1.00-10.00	0.20-0.22	0.0-2.9	5.0-6.0	.24	.24	5	4L	86
	20-35	-37-	-36-	24-27- 30	1.40-1.55	1.00-10.00	0.17-0.19	0.0-2.9	3.0-4.0	.24	.24			
	35-60	-39-	-37-	22-25- 28	1.55-1.75	1.00-10.00	0.17-0.19	0.0-2.9	1.0-2.0	.32	.32			
658:														
Mayer	0-9	20-36- 50	27-39- 52	23-25- 33	1.20-1.30	1.41-14.11	0.17-0.22	1.4-2.9	4.0-10	.24	.24	3	4L	86
	9-21	20-39- 55	20-36- 45	19-25- 35	1.20-1.30	1.41-14.11	0.17-0.22	1.5-4.9	2.0-6.0	.24	.24			
	21-33	30-52- 75	12-26- 40	13-22- 31	1.25-1.35	1.41-42.34	0.12-0.19	0.8-3.9	0.5-3.0	.24	.24			
	33-79	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			
777:														
Wapsie	0-8	-44-	-41-	12-15- 18	1.40-1.45	1.00-10.00	0.18-0.20	0.0-2.9	3.0-4.0	.28	.28	3	5	56
	8-30	-66-	-19-	12-15- 18	1.45-1.50	10.00-100.00	0.15-0.17	0.0-2.9	0.0-1.0	.24	.24			
	30-60	-92-	- 2-	2- 6- 10	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-2.9	0.0-0.5	.05	.10			
777B:														
Wapsie	0-8	-44-	-41-	12-15- 18	1.40-1.45	1.00-10.00	0.18-0.20	0.0-2.9	2.5-3.5	.32	.32	3	5	56
	8-30	-66-	-19-	12-15- 18	1.45-1.50	10.00-100.00	0.15-0.17	0.0-2.9	0.0-1.0	.24	.24			
	30-60	-92-	- 2-	2- 6- 10	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-2.9	0.0-0.5	.05	.10			
777C:														
Wapsie	0-8	-44-	-41-	12-15- 18	1.40-1.45	1.00-10.00	0.18-0.20	0.0-2.9	2.5-3.5	.32	.32	3	5	56
	8-30	-66-	-19-	12-15- 18	1.45-1.50	10.00-100.00	0.15-0.17	0.0-2.9	0.0-1.0	.24	.24			
	30-60	-92-	- 2-	2- 6- 10	1.50-1.75	100.00-705.0 0	0.02-0.06	0.0-2.9	0.0-0.5	.05	.10			
787B:														
Vinje	0-17	- 8-	-56-	32-36- 40	1.25-1.30	0.10-1.00	0.21-0.23	3.0-5.9	3.5-4.5	.32	.32	5	4	86

	17-41	- 7-	-53-	35-40- 45	1.30-1.45	0.01-0.10	0.20-0.22	3.0-5.9	1.0-2.0	.37	.37			
	41-60	-39-	-37-	20-25- 30	1.45-1.70	1.00-10.00	0.17-0.19	0.0-2.9	0.0-0.5	.32	.32			
787C2:														
Vinje, moderately eroded	0-17	- 8-	-56-	32-36- 40	1.25-1.30	0.10-1.00	0.21-0.23	3.0-5.9	2.2-3.2	.37	.37	5	4	86
	17-41	- 7-	-53-	35-40- 45	1.30-1.45	0.01-0.10	0.20-0.22	3.0-5.9	0.5-1.0	.37	.37			
	41-60	-39-	-37-	20-25- 30	1.45-1.70	1.00-10.00	0.17-0.19	0.0-2.9	0.0-0.5	.32	.32			
787D2:														
Vinje, moderately eroded	0-17	- 8-	-56-	32-36- 40	1.25-1.30	0.10-1.00	0.21-0.23	3.0-5.9	2.2-3.2	.37	.37	5	4	86
	17-41	- 7-	-53-	35-40- 45	1.30-1.45	0.01-0.10	0.20-0.22	3.0-5.9	0.5-1.0	.37	.37			
	41-60	-39-	-37-	20-25- 30	1.45-1.70	1.00-10.00	0.17-0.19	0.0-2.9	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					
811:														
Muskego, drained	0-10	--	--	--	0.10-0.45	1.41-42.34	0.35-0.45	---	30-85	---	---	1	2	134
	10-28	--	--	--	0.10-0.45	1.41-42.34	0.35-0.45	---	30-85	---	---			
	28-79	0-10- 25	60-75- 80	0-15- 25	0.30-1.00	0.42-1.41	0.18-0.24	0.0-2.3	6.0-20	.49	.49			
Muskego, ponded	0-10	--	--	--	0.10-0.45	1.41-42.34	0.35-0.45	---	30-85	---	---	1	8	0
	10-28	--	--	--	0.10-0.45	1.41-42.34	0.35-0.45	---	30-85	---	---			
	28-79	0-10- 25	60-75- 80	0-15- 25	0.30-1.00	0.42-1.41	0.18-0.24	0.0-2.3	6.0-20	.49	.49			
823:														
Ridgeport	0-13	-67-	-19-	10-14- 18	1.50-1.55	10.00-100.00	0.10-0.12	0.0-2.9	2.0-3.0	.17	.17	3	3	86
	13-38	-67-	-19-	10-14- 18	1.55-1.60	10.00-100.00	0.07-0.09	0.0-2.9	0.0-1.0	.24	.24			
	38-60	-79-	-16-	2- 5- 8	1.60-1.75	10.00-100.00	0.01-0.03	0.0-2.9	0.0-0.5	.17	.24			
823B:														
Ridgeport	0-13	-67-	-19-	10-14- 18	1.50-1.55	10.00-100.00	0.10-0.12	0.0-2.9	2.0-3.0	.17	.17	3	3	86
	13-38	-67-	-19-	10-14- 18	1.55-1.60	10.00-100.00	0.07-0.09	0.0-2.9	0.0-1.0	.24	.24			
	38-60	-79-	-16-	2- 5- 8	1.60-1.75	10.00-100.00	0.01-0.03	0.0-2.9	0.0-0.5	.17	.24			
836B:														
Kilkenny	0-9	-34-	-37-	27-29- 30	1.15-1.25	1.00-10.00	0.17-0.19	3.0-5.9	2.5-3.5	.28	.28	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			
836C2:														
Kilkenny, moderately eroded	0-9	-34-	-37-	27-29- 30	1.15-1.25	1.00-10.00	0.17-0.19	3.0-5.9	2.0-3.0	.32	.32	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			
836D2:														
Kilkenny, moderately eroded	0-9	-34-	-37-	27-29- 30	1.15-1.25	1.00-10.00	0.17-0.19	3.0-5.9	2.0-3.0	.32	.32	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			
836E2:														
Kilkenny, moderately eroded	0-9	-34-	-37-	27-29- 30	1.15-1.25	1.00-10.00	0.17-0.19	3.0-5.9	2.0-3.0	.32	.32	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			
836F:														
Kilkenny	0-9	-34-	-37-	27-29- 30	1.15-1.25	1.00-10.00	0.17-0.19	3.0-5.9	2.5-3.5	.28	.28	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			

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	1.41-4.23	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	1.41-4.23	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	4.23-14.11	0.11-0.19	0.9-4.0	0.0-0.5	.32	.32			
1133:														
Colo, frequently flooded, channeled--	0-12	- 7-	-62-	27-32- 36	1.28-1.32	1.00-10.00	0.21-0.23	3.0-5.9	5.0-7.0	.32	.32	5	6	48
----------	12-47	- 7-	-61-	30-33- 35	1.25-1.35	1.00-10.00	0.18-0.20	3.0-5.9	3.0-4.0	.37	.37			
----------	47-60	- 7-	-63-	25-30- 35	1.35-1.45	1.00-10.00	0.18-0.20	3.0-5.9	1.0-2.0	.43	.43			
5010:														
Pits, sand and gravel	---	--	--	--	---	---	---	---	---	---	---	--	---	---
5040:														
Udorthents, loamy----	---	--	--	--	---	---	---	---	---	---	---	5	---	---
AW:														
Animal waste lagoon--	---	--	--	--	---	---	---	---	---	---	---	--	---	---
INT:														
Intermittent water---	---	--	--	--	---	---	---	---	---	---	---	--	---	---
SL:														
Sewage lagoon--------	---	--	--	--	---	---	---	---	---	---	---	--	---	---
W:														
Water----------	---	--	--	--	---	---	---	---	---	---	---	--	---	---