Physical Properties of the Soils

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Carroll County, Iowa

Map symbol and soil name	Component percent	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Erosion factors Kf	Erosion factors T	Wind erodi-bility group	Wind erodi-bility index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
1C3:													
Ida	95	0-6	18-25	1.20-1.30	0.6-2	0.20-0.22	0.0-2.9	0.7-1.7	.43	.43	4	4L	86
		6-60	18-25	1.20-1.30	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			
1D3:													
Ida	95	0-6	18-25	1.20-1.30	0.6-2	0.20-0.22	0.0-2.9	0.7-1.7	.43	.43	4	4L	86
		6-60	18-25	1.20-1.30	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			
5B:													
Ackmore	60	0-30	18-27	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	1.0-7.0	.32	.32	5	6	48
		30-60	18-30	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	1.0-3.0	.32	.32			
Judson	25	0-25	27-32	1.30-1.35	0.6-2	0.21-0.23	3.0-5.9	1.0-7.0	.28	.28	5	7	38
		25-60	30-35	1.35-1.45	0.6-2	0.21-0.23	3.0-5.9	2.0-3.0	.43	.43			
6:													
Okoboji	90	0-27	35-42	1.30-1.40	0.2-0.6	0.21-0.23	6.0-8.9	9.5-12	.32	.32	5	4	86
		27-37	35-42	1.30-1.40	0.2-0.6	0.18-0.20	6.0-8.9	7.0-10	.32	.32			
		37-60	20-30	1.40-1.50	0.6-2	0.18-0.20	3.0-5.9	1.0-3.0	.28	.28			
8B:													
Judson	90	0-25	27-32	1.30-1.35	0.6-2	0.21-0.23	3.0-5.9	3.0-4.0	.28	.28	5	7	38
		25-60	30-35	1.35-1.45	0.6-2	0.21-0.23	3.0-5.9	2.0-3.0	.43	.43			
		60-64	25-32	1.35-1.45	0.6-2	0.21-0.23	3.0-5.9	0.0-1.0	.43	.43			
8C:													
Judson	90	0-25	27-32	1.30-1.35	0.6-2	0.21-0.23	3.0-5.9	3.0-4.0	.28	.28	5	7	38
		25-60	30-35	1.35-1.45	0.6-2	0.21-0.23	3.0-5.9	2.0-3.0	.43	.43			
		60-64	25-32	1.35-1.45	0.6-2	0.21-0.23	3.0-5.9	0.0-1.0	.43	.43			
9:													
Marshall	95	0-18	27-35	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	3.5-4.5	.28	.28	5	7	38
		18-58	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		58-60	22-30	1.30-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			

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Carroll County, Iowa

Map symbol and soil name	Component percent	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Erosion factors Kf	Erosion factors T	Wind erodi-bility group	Wind erodi-bility index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
9B:													
Marshall----------	90	0-18	27-35	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-4.0	.28	.28	5	7	38
		18-58	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		58-60	22-30	1.30-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
9B2:													
Marshall----------	95	0-8	27-35	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	2.2-3.2	.32	.32	5	7	38
		8-18	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	1.0-1.0	.32	.32			
		18-58	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		58-60	22-30	1.30-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
9C:													
Marshall----------	95	0-18	27-35	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-4.0	.28	.28	5	7	38
		18-58	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		58-60	22-30	1.30-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
9C2:													
Marshall----------	90	0-8	27-35	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	2.2-3.2	.32	.32	5	7	38
		8-18	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	1.0-1.0	.32	.32			
		18-58	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		58-60	22-30	1.30-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
9D2:													
Marshall----------	90	0-8	27-35	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	2.2-3.2	.32	.32	5	7	38
		8-18	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	1.0-1.0	.32	.32			
		18-58	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		58-60	22-30	1.30-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
9E2:													
Marshall----------	90	0-8	27-35	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	2.2-3.2	.32	.32	5	7	38
		8-18	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	1.0-1.0	.32	.32			
		18-58	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		58-60	22-30	1.30-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			

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Carroll County, Iowa

Map symbol and soil name	Component percent	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Erosion factors Kf	Erosion factors T	Wind erodi-bility group	Wind erodi-bility index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
11B:													
Colo	60	0-21	27-36	1.28-1.32	0.6-2	0.21-0.23	3.0-5.9	5.0-7.0	.28	.28	5	7	38
		21-60	30-35	1.25-1.35	0.6-2	0.18-0.20	3.0-5.9	3.0-4.0	.28	.28			
		60-64	25-35	1.35-1.45	0.6-2	0.18-0.20	3.0-5.9	1.0-2.0	.32	.32			
Judson	25	0-25	27-32	1.30-1.35	0.6-2	0.21-0.23	3.0-5.9	4.0-5.0	.28	.28	5	7	38
		25-60	30-35	1.35-1.45	0.6-2	0.21-0.23	3.0-5.9	2.0-3.0	.43	.43			
		60-64	25-32	1.35-1.45	0.6-2	0.21-0.23	3.0-5.9	0.0-1.0	.43	.43			
27B:													
Terril	90	0-32	18-26	1.35-1.40	0.6-2	0.20-0.22	0.0-2.9	3.0-4.0	.24	.24	5	6	48
		32-60	24-30	1.40-1.45	0.6-2	0.17-0.19	0.0-2.9	2.0-3.0	.28	.28			
27C:													
Terril	90	0-32	18-26	1.35-1.40	0.6-2	0.20-0.22	0.0-2.9	3.0-4.0	.24	.24	5	6	48
		32-60	24-30	1.40-1.45	0.6-2	0.17-0.19	0.0-2.9	2.0-3.0	.28	.28			
28B:													
Dickman	95	0-6	6-18	1.30-1.40	2-6	0.13-0.15	0.0-2.9	1.5-2.5	.20	.20	3	3	86
		6-31	6-18	1.35-1.50	2-6	0.12-0.14	0.0-2.9	0.5-1.5	.20	.20			
		31-60	0-5	1.50-1.70	6-20	0.04-0.07	0.0-2.9	0.0-0.5	.15	.15			
28B2:													
Dickman	95	0-6	6-18	1.30-1.40	2-6	0.13-0.15	0.0-2.9	1.0-2.0	.20	.20	3	3	86
		6-31	6-18	1.35-1.50	2-6	0.12-0.14	0.0-2.9	0.5-1.0	.20	.20			
		31-60	0-5	1.50-1.70	6-20	0.04-0.07	0.0-2.9	0.0-0.5	.15	.15			
28C2:													
Dickman	90	0-6	6-18	1.30-1.40	2-6	0.13-0.15	0.0-2.9	1.0-2.0	.20	.20	3	3	86
		6-31	6-18	1.35-1.50	2-6	0.12-0.14	0.0-2.9	0.5-1.0	.20	.20			
		31-60	0-5	1.50-1.70	6-20	0.04-0.07	0.0-2.9	0.0-0.5	.15	.15			
28D2:													
Dickman	90	0-6	6-18	1.30-1.40	2-6	0.13-0.15	0.0-2.9	1.0-2.0	.20	.20	3	3	86
		6-31	6-18	1.35-1.50	2-6	0.12-0.14	0.0-2.9	0.5-1.0	.20	.20			
		31-60	0-5	1.50-1.70	6-20	0.04-0.07	0.0-2.9	0.0-0.5	.15	.15			

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		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
34B:													
Estherville----------	85	0-5	5-15	1.25-1.35	2-6	0.13-0.18	0.0-2.9	1.5-2.5	.20	.20	3	3	86
		5-15	10-18	1.35-1.60	2-6	0.12-0.19	0.0-2.9	0.0-0.5	.20	.20			
		15-60	0-8	1.50-1.65	6-20	0.02-0.04	0.0-2.9	0.0-0.5	.10	.10			
34C2:													
Estherville----------	85	0-5	5-15	1.25-1.35	2-6	0.13-0.18	0.0-2.9	1.0-2.0	.20	.20	3	3	86
		5-15	10-18	1.35-1.60	2-6	0.12-0.19	0.0-2.9	0.0-0.5	.20	.20			
		15-60	0-8	1.50-1.65	6-20	0.02-0.04	0.0-2.9	0.0-0.5	.10	.10			
48:													
Knoke----------	90	0-9	20-27	1.10-1.25	0.6-2	0.24-0.25	3.0-5.9	10-16	.32	.32	5	4L	86
		9-19	27-36	1.30-1.40	0.2-0.6	0.21-0.23	6.0-8.9	4.0-6.0	.37	.37			
		19-60	35-45	1.35-1.45	0.2-0.6	0.18-0.20	6.0-8.9	2.0-4.0	.37	.37			
54:													
Zook----------	85	0-18	35-40	1.30-1.35	0.2-0.6	0.21-0.23	6.0-8.9	5.0-7.0	.37	.37	5	7	38
		18-60	36-45	1.30-1.45	0.06-0.2	0.11-0.13	6.0-8.9	2.0-4.0	.28	.28			
55:													
Nicollet----------	85	0-16	24-27	1.15-1.25	0.6-2	0.17-0.22	3.0-5.9	5.0-6.0	.24	.24	5	6	48
		16-37	24-35	1.25-1.35	0.6-2	0.15-0.19	3.0-5.9	3.0-5.0	.32	.32			
		37-60	22-32	1.35-1.55	0.6-2	0.14-0.19	0.0-2.9	0.0-0.5	.32	.32			
59C2:													
Burchard----------	90	0-7	27-35	1.40-1.60	0.2-0.6	0.17-0.19	3.0-5.9	2.2-4.0	.28	.28	5	6	48
		7-20	27-35	1.40-1.60	0.2-0.6	0.15-0.17	3.0-5.9	1.0-2.0	.28	.32			
		20-60	27-35	1.40-1.60	0.2-0.6	0.14-0.16	3.0-5.9	0.5-1.0	.28	.32			
59D2:													
Burchard----------	90	0-7	27-35	1.40-1.60	0.2-0.6	0.17-0.19	3.0-5.9	2.2-3.2	.28	.28	5	6	48
		7-20	27-35	1.40-1.60	0.2-0.6	0.15-0.17	3.0-5.9	1.0-2.0	.28	.32			
		20-60	27-35	1.40-1.60	0.2-0.6	0.14-0.16	3.0-5.9	0.5-1.0	.28	.32			

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		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
59E2:													
Burchard----------	90	0-7	27-35	1.40-1.60	0.2-0.6	0.17-0.19	3.0-5.9	2.2-3.2	.28	.28	5	6	48
		7-20	27-35	1.40-1.60	0.2-0.6	0.15-0.17	3.0-5.9	1.0-2.0	.28	.32			
		20-60	27-35	1.40-1.60	0.2-0.6	0.14-0.16	3.0-5.9	0.5-1.0	.28	.32			
59F2:													
Burchard----------	85	0-7	27-35	1.40-1.60	0.2-0.6	0.17-0.19	3.0-5.9	2.2-3.2	.28	.28	5	6	48
		7-20	27-35	1.40-1.60	0.2-0.6	0.15-0.17	3.0-5.9	1.0-2.0	.28	.32			
		20-60	27-35	1.40-1.60	0.2-0.6	0.14-0.16	3.0-5.9	0.5-1.0	.28	.32			
62C2:													
Storden----------	85	0-8	18-27	1.35-1.45	0.6-2	0.20-0.22	0.0-2.9	1.7-2.7	.28	.28	5	4L	86
		8-60	18-30	1.35-1.65	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
62D2:													
Storden----------	85	0-8	18-27	1.35-1.45	0.6-2	0.20-0.22	0.0-2.9	1.7-2.7	.28	.28	5	4L	86
		8-60	18-30	1.35-1.65	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
62E2:													
Storden----------	85	0-8	18-27	1.35-1.45	0.6-2	0.20-0.22	0.0-2.9	1.7-2.7	.28	.28	5	4L	86
		8-60	18-30	1.35-1.65	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
62F:													
Storden----------	85	0-8	18-27	1.35-1.45	0.6-2	0.20-0.22	0.0-2.9	2.5-3.5	.28	.28	5	4L	86
		8-60	18-30	1.35-1.65	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
62G:													
Storden----------	85	0-8	18-27	1.35-1.45	0.6-2	0.20-0.22	0.0-2.9	2.5-3.5	.28	.28	5	4L	86
		8-60	18-30	1.35-1.65	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
71D2:													
Marshall----------	55	0-8	27-35	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	1.0-3.2	.32	.32	5	7	38
		8-18	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	1.0-1.0	.32	.32			
		18-58	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		58-60	22-30	1.30-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			

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		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
Dickman----------	30	0-6	6-18	1.30-1.40	2-6	0.13-0.15	0.0-2.9	1.0-3.2	.20	.20	3	3	86
		6-31	6-18	1.35-1.50	2-6	0.12-0.14	0.0-2.9	0.5-1.0	.20	.20			
		31-60	0-5	1.50-1.70	6-20	0.04-0.07	0.0-2.9	0.0-0.5	.15	.15			
90:													
Okoboji----------	90	0-13	20-30	1.20-1.25	0.6-2	0.22-0.25	3.0-5.9	12-18	.32	.32	5	6	48
		13-35	35-42	1.30-1.40	0.2-0.6	0.18-0.20	6.0-8.9	7.0-10	.32	.32			
		35-60	35-45	1.35-1.40	0.2-0.6	0.18-0.20	6.0-8.9	3.0-4.0	.32	.32			
		60-64	20-30	1.40-1.50	0.6-2	0.18-0.20	3.0-5.9	1.0-3.0	.28	.28			
95:													
Harps----------	90	0-19	25-27	1.35-1.40	0.6-2	0.19-0.21	3.0-5.9	4.5-5.5	.24	.24	5	4L	86
		19-36	18-32	1.40-1.50	0.6-2	0.17-0.19	3.0-5.9	2.0-3.0	.32	.32			
		36-60	20-30	1.50-1.70	0.6-2	0.17-0.19	3.0-5.9	0.0-1.0	.32	.32			
99C2:													
Exira----------	90	0-8	28-34	1.25-1.35	0.6-2	0.21-0.23	3.0-5.9	2.2-3.2	.32	.32	5	7	38
		8-29	25-35	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		29-60	20-30	1.35-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
99D2:													
Exira----------	90	0-8	28-34	1.25-1.35	0.6-2	0.21-0.23	3.0-5.9	2.2-3.2	.32	.32	5	7	38
		8-29	25-35	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		29-60	20-30	1.35-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
99E2:													
Exira----------	85	0-8	28-34	1.25-1.35	0.6-2	0.21-0.23	3.0-5.9	2.2-3.2	.32	.32	5	7	38
		8-29	25-35	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		29-60	20-30	1.35-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
107:													
Webster----------	85	0-12	27-35	1.35-1.40	0.6-2	0.19-0.21	3.0-5.9	6.0-7.0	.28	.28	5	7	38
		12-45	25-35	1.40-1.50	0.6-2	0.16-0.18	3.0-5.9	2.0-4.0	.32	.32			
		45-60	18-29	1.50-1.70	0.6-2	0.17-0.19	3.0-5.9	1.0-2.0	.32	.32			

Physical Properties of the Soils

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Carroll County, Iowa

Map symbol and soil name	Component percent	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Erosion factors Kf	Erosion factors T	Wind erodi-bility group	Wind erodi-bility index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
108:													
Wadena----------	85	0-17	18-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	3.5-4.5	.24	.24	4	6	48
		17-29	18-30	1.35-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.32	.32			
		29-60	1-5	1.55-1.65	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.10			
108B:													
Wadena----------	85	0-17	18-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	3.0-4.0	.24	.24	4	6	48
		17-29	18-30	1.35-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.32	.32			
		29-60	1-5	1.55-1.65	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.10			
108C2:													
Wadena----------	85	0-17	18-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	2.2-3.2	.24	.24	4	6	48
		17-29	18-30	1.35-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.32	.32			
		29-60	1-5	1.55-1.65	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.10			
133:													
Colo----------	85	0-21	27-36	1.28-1.32	0.6-2	0.21-0.23	3.0-5.9	5.0-7.0	.28	.28	5	7	38
		21-60	30-35	1.25-1.35	0.6-2	0.18-0.20	3.0-5.9	3.0-4.0	.28	.28			
		60-64	25-35	1.35-1.45	0.6-2	0.18-0.20	3.0-5.9	1.0-2.0	.32	.32			
133+:													
Colo----------	85	0-10	27-36	1.28-1.32	0.6-2	0.21-0.23	3.0-5.9	3.0-5.0	.28	.28	5	7	38
		10-43	30-35	1.25-1.35	0.6-2	0.18-0.20	3.0-5.9	3.0-4.0	.28	.28			
		43-60	25-35	1.35-1.45	0.6-2	0.18-0.20	3.0-5.9	1.0-2.0	.32	.32			
135:													
Coland----------	85	0-48	27-35	1.40-1.50	0.6-2	0.20-0.22	3.0-5.9	5.0-7.0	.24	.24	5	6	48
		48-60	27-35	1.40-1.50	0.6-2	0.20-0.22	3.0-5.9	3.0-5.0	.24	.24			
		60-64	12-26	1.50-1.65	0.6-6	0.13-0.17	0.0-2.9	0.0-2.0	.28	.28			
138B:													
Clarion----------	85	0-14	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	3.0-4.0	.24	.24	5	6	48
		14-33	24-30	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
		33-60	12-22	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			

Physical Properties of the Soils

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Carroll County, Iowa

Map symbol and soil name	Component percent	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
138B2:													
Clarion----------	85	0-8	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	2.2-3.2	.28	.28	5	6	48
		8-14	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	1.0-2.0	.32	.32			
		14-33	24-30	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
		33-60	12-22	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
138C:													
Clarion----------	90	0-14	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	3.0-4.0	.24	.24	5	6	48
		14-33	24-30	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
		33-60	12-22	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
138C2:													
Clarion----------	85	0-8	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	2.2-3.2	.28	.28	5	6	48
		8-14	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	1.0-2.0	.32	.32			
		14-33	24-30	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
		33-60	12-22	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
138D2:													
Clarion----------	85	0-8	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	2.2-3.2	.28	.28	5	6	48
		8-14	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	1.0-2.0	.32	.32			
		14-33	24-30	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
		33-60	12-22	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
179E2:													
Gara----------	90	0-11	27-35	1.50-1.55	0.2-0.6	0.16-0.18	3.0-5.9	2.0-3.0	.32	.32	5	6	48
		11-43	25-38	1.55-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.32	.32			
		43-60	24-38	1.65-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.37	.37			
179F:													
Gara----------	90	0-11	18-27	1.50-1.55	0.6-2	0.20-0.22	3.0-5.9	2.5-3.5	.28	.28	5	6	48
		11-43	25-38	1.55-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-1.0	.32	.32			
		43-60	24-38	1.65-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.37	.37			
179F2:													
Gara----------	90	0-11	27-35	1.50-1.55	0.2-0.6	0.16-0.18	3.0-5.9	2.0-3.0	.32	.32	5	6	48
		11-43	25-38	1.55-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.32	.32			
		43-60	24-38	1.65-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.37	.37			

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Carroll County, Iowa

Map symbol and soil name	Component percent	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Erosion factors Kf	Erosion factors T	Wind erodi-bility group	Wind erodi-bility index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
179G:													
Gara	90	0-11	18-27	1.50-1.55	0.6-2	0.20-0.22	3.0-5.9	2.5-3.5	.28	.28	5	6	48
		11-43	25-38	1.55-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-1.0	.32	.32			
		43-60	24-38	1.65-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.37	.37			
192D2:													
Adair	85	0-9	35-42	1.45-1.50	0.2-0.6	0.17-0.19	3.0-5.9	2.2-3.2	.32	.32	3	6	86
		9-30	38-60	1.55-1.60	0.06-0.2	0.13-0.16	6.0-8.9	0.5-1.0	.32	.32			
		30-60	30-38	1.60-1.70	0.2-0.6	0.14-0.16	3.0-5.9	0.0-0.5	.32	.32			
201B:													
Coland	60	0-48	27-35	1.40-1.50	0.6-2	0.20-0.22	3.0-5.9	3.4-7.0	.24	.24	5	6	48
		48-60	27-35	1.40-1.50	0.6-2	0.20-0.22	3.0-5.9	3.0-5.0	.24	.24			
Spillville	25	0-46	18-26	1.45-1.55	0.6-2	0.19-0.21	3.0-5.9	3.4-7.0	.24	.24	5	6	48
		46-60	14-24	1.55-1.70	0.6-6	0.15-0.18	0.0-2.9	2.0-3.0	.28	.28			
203:													
Cylinder	90	0-13	22-27	1.40-1.45	0.6-2	0.20-0.22	3.0-5.9	4.0-5.0	.24	.24	4	6	48
		13-33	22-30	1.45-1.60	0.6-2	0.17-0.19	3.0-5.9	2.0-3.0	.32	.32			
		33-60	2-12	1.60-1.70	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.15			
236C:													
Lester	90	0-10	15-27	1.30-1.40	0.6-2	0.20-0.22	0.0-2.9	2.5-3.5	.28	.28	5	6	48
		10-43	24-35	1.45-1.55	0.6-2	0.15-0.19	3.0-5.9	0.5-1.0	.28	.28			
		43-60	20-30	1.55-1.75	0.6-2	0.14-0.19	0.0-2.9	0.0-0.5	.37	.37			
259:													
Biscay	85	0-10	18-30	1.20-1.30	0.6-2	0.20-0.22	3.0-5.9	5.5-6.5	.28	.28	4	6	48
		10-39	18-30	1.25-1.35	0.6-2	0.17-0.19	3.0-5.9	0.5-1.0	.28	.28			
		39-60	1-6	1.55-1.65	6-20	0.02-0.04	0.0-2.9	0.0-0.5	.05	.10			
268C:													
Knox	90	0-14	18-27	1.20-1.30	0.6-2	0.22-0.24	0.0-2.9	2.5-3.5	.32	.32	5	6	48
		14-44	25-35	1.30-1.40	0.6-2	0.18-0.20	3.0-5.9	0.5-1.0	.43	.43			
		44-60	18-27	1.20-1.40	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			

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Carroll County, Iowa

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		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
268D2:													
Knox	85	0-14	18-27	1.20-1.30	0.6-2	0.22-0.24	0.0-2.9	2.0-3.0	.32	.32	5	6	48
		14-44	25-35	1.30-1.40	0.6-2	0.18-0.20	3.0-5.9	0.5-1.0	.43	.43			
		44-60	18-27	1.20-1.40	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			
268E2:													
Knox	85	0-14	18-27	1.20-1.30	0.6-2	0.22-0.24	0.0-2.9	2.0-3.0	.32	.32	5	6	48
		14-44	25-35	1.30-1.40	0.6-2	0.18-0.20	3.0-5.9	0.5-1.0	.43	.43			
		44-60	18-27	1.20-1.40	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			
308:													
Wadena	90	0-17	18-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	3.5-4.5	.24	.24	4	6	48
		17-38	18-30	1.35-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.32	.32			
		38-60	1-5	1.55-1.65	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.10			
308B:													
Wadena	90	0-17	18-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	3.0-4.0	.24	.24	4	6	48
		17-38	18-30	1.35-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.32	.32			
		38-60	1-5	1.55-1.65	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.10			
430:													
Ackmore	85	0-30	18-27	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	1.0-3.0	.32	.32	5	6	48
		30-60	18-30	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	1.0-3.0	.32	.32			
485:													
Spillville	85	0-46	18-26	1.45-1.55	0.6-2	0.19-0.21	3.0-5.9	4.0-5.0	.24	.24	5	6	48
		46-60	14-24	1.55-1.70	0.6-6	0.15-0.18	0.0-2.9	2.0-3.0	.28	.28			
485B:													
Spillville	95	0-46	18-26	1.45-1.55	0.6-2	0.19-0.21	3.0-5.9	3.5-4.5	.24	.24	5	6	48
		46-60	14-24	1.55-1.70	0.6-6	0.15-0.18	0.0-2.9	2.0-3.0	.28	.28			

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Carroll County, Iowa

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		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
507:													
Canisteo	90	0-8	27-35	1.25-1.35	0.6-2	0.18-0.22	3.0-5.9	6.0-7.0	.24	.24	5	4L	86
		8-20	20-35	1.35-1.50	0.6-2	0.15-0.19	3.0-5.9	2.0-4.0	.32	.32			
		20-27	10-35	1.30-1.50	0.6-2	0.12-0.18	0.0-2.9	0.5-1.0	.32	.32			
		27-60	22-32	1.45-1.60	0.6-2	0.14-0.16	0.0-2.9	0.0-0.5	.32	.32			
509B:													
Marshall	100	0-18	27-35	1.25-1.30	0.6-2	0.21-0.23	3.0-5.9	3.0-4.0	.28	.28	5	7	38
		18-58	27-34	1.30-1.35	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.43	.43			
		58-60	22-30	1.30-1.40	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
559:													
Talcot	90	0-22	30-35	1.20-1.30	0.6-2	0.18-0.22	3.0-5.9	5.5-6.5	.28	.28	4	4L	86
		22-35	30-35	1.25-1.35	0.6-2	0.17-0.20	3.0-5.9	2.0-6.0	.28	.28			
		35-60	1-6	1.55-1.65	6-20	0.02-0.04	0.0-2.9	0.5-1.0	.15	.15			
638C2:													
Clarion	70	0-8	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	1.8-3.2	.28	.28	5	6	48
		8-14	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	1.0-2.0	.32	.32			
		14-33	24-30	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
		33-60	12-22	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
Storden	25	0-8	18-27	1.35-1.45	0.6-2	0.20-0.22	0.0-2.9	1.8-3.2	.28	.28	5	4L	86
		8-60	18-30	1.35-1.65	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
638D2:													
Clarion	60	0-8	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	1.8-3.2	.28	.28	5	6	48
		8-14	18-24	1.40-1.45	0.6-2	0.20-0.22	0.0-2.9	1.0-2.0	.32	.32			
		14-33	24-30	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.37	.37			
		33-60	12-22	1.50-1.70	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
Storden	35	0-8	18-27	1.35-1.45	0.6-2	0.20-0.22	0.0-2.9	1.8-3.2	.28	.28	5	4L	86
		8-60	18-30	1.35-1.65	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			

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Carroll County, Iowa

Map symbol and soil name	Component percent	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Erosion factors Kf	Erosion factors T	Wind erodi-bility group	Wind erodi-bility index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
639C:													
Salida----------	40	0-7	5-15	1.35-1.45	2-6	0.10-0.12	0.0-2.9	1.5-3.5	.10	.20	5	8	0
		7-15	2-8	1.50-1.65	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.17			
		15-60	0-5	1.50-1.65	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.17			
Storden----------	30	0-8	18-27	1.35-1.45	0.6-2	0.20-0.22	0.0-2.9	1.5-3.5	.28	.28	5	4L	86
		8-60	18-30	1.35-1.65	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
639D:													
Salida----------	40	0-7	5-15	1.35-1.45	2-6	0.10-0.12	0.0-2.9	1.5-3.5	.10	.20	5	8	0
		7-15	2-8	1.50-1.65	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.17			
		15-60	0-5	1.50-1.65	20-101	0.02-0.04	0.0-2.9	0.0-0.5	.10	.17			
Storden----------	30	0-8	18-27	1.35-1.45	0.6-2	0.20-0.22	0.0-2.9	1.5-3.5	.28	.28	5	4L	86
		8-60	18-30	1.35-1.65	0.6-2	0.17-0.19	0.0-2.9	0.0-0.5	.37	.37			
733:													
Calco----------	85	0-40	28-33	1.25-1.30	0.6-2	0.21-0.23	6.0-8.9	5.0-7.0	.28	.28	5	4L	86
		40-60	30-35	1.25-1.30	0.6-2	0.21-0.23	6.0-8.9	3.0-5.0	.28	.28			
822D3:													
Lamoni----------	90	0-5	27-40	1.45-1.50	0.2-0.6	0.17-0.21	3.0-5.9	1.7-2.7	.37	.37	2	7	38
		5-43	38-50	1.55-1.65	0.06-0.2	0.13-0.17	6.0-8.9	0.0-0.5	.37	.37			
		43-60	32-40	1.60-1.70	0.06-0.2	0.14-0.18	6.0-8.9	0.0-0.5	.37	.37			
823:													
Ridgeport----------	85	0-14	10-18	1.50-1.55	2-6	0.10-0.12	0.0-2.9	2.0-3.0	.20	.20	4	3	86
		14-35	10-18	1.55-1.60	2-6	0.07-0.09	0.0-2.9	0.0-1.0	.24	.24			
		35-60	2-8	1.60-1.75	20-101	0.01-0.03	0.0-2.9	0.0-0.5	.10	.15			
924D2:													
Burchard----------	60	0-7	27-35	1.40-1.60	0.2-0.6	0.17-0.19	3.0-5.9	2.2-3.2	.28	.28	5	6	48
		7-20	27-35	1.40-1.60	0.2-0.6	0.15-0.17	3.0-5.9	1.0-2.0	.28	.32			
		20-60	27-35	1.40-1.60	0.2-0.6	0.14-0.16	3.0-5.9	0.5-1.0	.28	.32			

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Carroll County, Iowa

Map symbol and soil name	Component percent	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Erosion factors Kf	Erosion factors T	Wind erodi-bility group	Wind erodi-bility index
		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
Adair----------	25	0-9	35-42	1.45-1.50	0.1-0.6	0.17-0.19	3.0-5.9	2.2-3.2	.32	.32	3	4	86
		9-30	38-60	1.55-1.60	0.0000-0.1	0.13-0.16	6.0-8.9	0.5-1.0	.32	.32			
		30-60	30-38	1.60-1.70	0.1-0.6	0.14-0.16	3.0-5.9	0.0-0.5	.32	.32			
924E2:													
Burchard----------	70	0-7	27-35	1.40-1.60	0.2-0.6	0.17-0.19	3.0-5.9	2.2-3.2	.28	.28	5	6	48
		7-20	27-35	1.40-1.60	0.2-0.6	0.15-0.17	3.0-5.9	1.0-2.0	.28	.32			
		20-60	27-35	1.40-1.60	0.2-0.6	0.14-0.16	3.0-5.9	0.5-1.0	.28	.32			
Adair----------	20	0-9	35-42	1.45-1.50	0.1-0.6	0.17-0.19	3.0-5.9	2.2-3.2	.32	.32	3	4	86
		9-30	38-60	1.55-1.60	0.0000-0.1	0.13-0.16	6.0-8.9	0.5-1.0	.32	.32			
		30-60	30-38	1.60-1.70	0.1-0.6	0.14-0.16	3.0-5.9	0.0-0.5	.32	.32			
993D2:													
Gara----------	70	0-11	27-35	1.50-1.55	0.2-0.6	0.16-0.18	3.0-5.9	2.0-3.0	.32	.32	5	6	48
		11-43	25-38	1.55-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.32	.32			
		43-60	24-38	1.65-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.37	.37			
Armstrong----------	25	0-7	22-27	1.45-1.50	0.6-2	0.20-0.22	3.0-5.9	2.0-3.0	.32	.32	3	6	48
		7-42	36-60	1.55-1.60	0.0000-0.1	0.11-0.16	6.0-8.9	0.0-1.0	.32	.32			
		42-60	30-36	1.55-1.70	0.1-0.6	0.14-0.16	3.0-5.9	0.0-0.5	.32	.32			
993E2:													
Gara----------	70	0-11	27-35	1.50-1.55	0.2-0.6	0.16-0.18	3.0-5.9	2.0-3.0	.32	.32	5	6	48
		11-43	25-38	1.55-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.32	.32			
		43-60	24-38	1.65-1.75	0.2-0.6	0.16-0.18	3.0-5.9	0.0-0.5	.37	.37			
Armstrong----------	25	0-7	22-27	1.45-1.50	0.6-2	0.20-0.22	3.0-5.9	2.0-3.0	.32	.32	3	6	48
		7-42	36-60	1.55-1.60	0.0000-0.1	0.11-0.16	6.0-8.9	0.0-1.0	.32	.32			
		42-60	30-36	1.55-1.70	0.1-0.6	0.14-0.16	3.0-5.9	0.0-0.5	.32	.32			
2315:													
Fluvaquents----------	85	0-9	2-10	1.50-1.55	6-20	0.07-0.09	0.0-2.9	0.5-2.0	.17	.17	5	2	134
		9-60	2-10	1.50-1.75	6-20	0.02-0.04	0.0-2.9	0.0-0.5	.15	.15			
5010:													
Pits----------	100	---	---	---	---	---	---	---	---	---	-	---	---

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		In	Pct	g/cc	In/hr	In/in	Pct	Pct					
5040:													
Orthents----------	100	---	---	---	---	---	---	---	---	---	-	---	---