Logan County, Colorado
Print date: 09/09/2003

Table J.--Physical and Chemical Properties of the Soils

(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	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
1:														
Albinas----------	0-12	15-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	3.0-6.0	.20	.20	4	5	56	10-25	6.6-7.3
	12-29	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	2.0-3.0	.20	.20				15-25	6.6-7.3
	29-43	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28				10-20	7.4-8.4
	43-52	10-20	1.35-1.50	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.32	.32				4.0-15	7.9-8.4
	52-60	0-5	1.45-1.60	20-20	0.02-0.05	0.0-2.9	0.0-0.5	.05	.10				0.0-5.0	7.4-8.4
2:														
Alda----------	0-14	5-15	1.35-1.50	2-6	0.10-0.13	0.0-2.9	2.0-4.0	.20	.20	4	3	86	5.0-15	6.6-8.4
	14-25	5-15	1.25-1.60	2-20	0.06-0.17	0.0-2.9	0.5-1.0	.20	.20				2.0-10	7.4-8.4
	25-60	0-5	1.45-1.60	20-20	0.02-0.04	0.0-2.9	0.0-0.5	.05	.20				0.0-5.0	6.6-8.4
3:														
Alda----------	0-10	10-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	4	4L	86	10-20	6.6-8.4
	10-34	5-15	1.25-1.60	2-20	0.06-0.17	0.0-2.9	0.5-1.0	.20	.20				2.0-10	7.4-8.4
	34-60	0-5	1.45-1.60	20-20	0.02-0.04	0.0-2.9	0.0-0.5	.05	.20				0.0-5.0	6.6-8.4
4:														
Altvan----------	0-8	15-20	1.30-1.50	2-6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20	4	3	86	10-20	6.1-7.8
	8-23	20-35	1.20-1.50	0.6-2	0.15-0.17	3.0-5.9	0.5-1.0	.37	.37				15-25	6.6-8.4
	23-30	8-15	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.28	.28				5.0-10	7.4-9.0
	30-60	0-5	1.50-1.70	20-20	0.02-0.04	0.0-2.9	0.0-0.5	.10	.15				0.0-5.0	7.4-9.0
Eckley----------	0-3	10-20	1.35-1.50	0.6-6	0.10-0.13	0.0-2.9	2.0-4.0	.20	.20	4	3	86	10-20	6.6-7.3
	3-20	20-30	1.25-1.40	0.2-2	0.10-0.13	0.0-2.9	1.0-2.0	.10	.17				10-20	6.6-7.3
	20-43	2-10	1.45-1.60	6-20	0.04-0.05	0.0-2.9	0.5-1.0	.10	.15				2.0-10	7.4-7.8
	43-60	1-5	1.45-1.60	20-20	0.02-0.05	0.0-2.9	0.0-0.5	.05	.10				0.0-5.0	7.4-7.8
5:														
Altvan----------	0-8	15-20	1.30-1.50	2-6	0.16-0.18	0.0-2.9	1.0-2.0	.20	.20	4	3	86	10-20	6.1-7.8
	8-23	20-35	1.20-1.50	0.6-2	0.15-0.17	3.0-5.9	0.5-1.0	.37	.37				15-25	6.6-8.4
	23-30	8-15	1.30-1.50	0.6-2	0.17-0.19	0.0-2.9	0.5-1.0	.28	.28				5.0-10	7.4-9.0
	30-60	0-5	1.50-1.70	20-20	0.02-0.04	0.0-2.9	0.0-0.5	.10	.15				0.0-5.0	7.4-9.0

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
5:														
Eckley----------	0-3	10-20	1.35-1.50	0.6-6	0.10-0.13	0.0-2.9	2.0-4.0	.20	.20	4	3	86	10-20	6.6-7.3
	3-20	20-30	1.25-1.40	0.2-2	0.10-0.13	0.0-2.9	1.0-2.0	.10	.17				10-20	6.6-7.3
	20-43	2-10	1.45-1.60	6-20	0.04-0.05	0.0-2.9	0.5-1.0	.10	.15				2.0-10	7.4-7.8
	43-60	1-5	1.45-1.60	20-20	0.02-0.05	0.0-2.9	0.0-0.5	.05	.10				0.0-5.0	7.4-7.8
6*:														
Aquolls----------	0-8	---	1.20-1.40	0.2-6	---	---	2.0-5.0	---	---	5	8	0	---	7.4-9.0
	8-60	15-35	1.20-1.50	0.06-6	0.07-0.10	3.0-5.9	1.0-2.0	.28	.28				10-25	7.9-9.0
7*:														
Argiustolls, wet----	0-6	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	5	4L	86	10-20	7.9-8.4
	6-60	18-40	1.30-1.45	0.06-2	0.06-0.10	0.0-2.9	1.0-2.0	.24	.24				10-30	7.9-8.4
8*:														
Argiustolls---------	0-6	20-35	1.20-1.45	0.2-2	0.15-0.18	0.0-2.9	1.0-3.0	.28	.28	3	4L	86	10-25	6.6-8.4
	6-60	---	---	0.06-0.2	---	---	---	---	---				---	---
Rock outcrop--------	0-60	0-0	---	0.2-2	0.00-0.00	---	---	---	---	-	8	0	---	---
9:														
Arvada----------	0-4	15-27	1.15-1.30	0.6-6	0.15-0.20	0.0-2.9	0.5-1.0	.43	.43	2	4L	86	10-25	7.4-7.8
	4-11	35-40	1.15-1.30	0.0015-0.06	0.17-0.20	0.0-2.9	0.0-1.0	.32	.32				20-35	8.5-9.0
	11-60	18-27	1.15-1.30	0.2-0.6	0.15-0.20	0.0-2.9	0.0-0.5	.49	.49				10-20	9.1-9.6
10:														
Ascalon----------	0-7	5-15	1.35-1.50	2-6	0.13-0.15	0.0-2.9	1.0-2.0	.24	.24	4	3	86	4.0-15	6.6-7.8
	7-23	20-30	1.25-1.40	0.2-2	0.14-0.17	0.0-2.9	0.5-2.0	.20	.20				10-20	6.6-7.8
	23-44	10-18	1.35-1.50	2-6	0.10-0.13	0.0-2.9	0.5-1.0	.28	.28				5.0-15	7.9-8.4
	44-60	3-12	1.45-1.60	6-20	0.06-0.09	0.0-2.9	0.0-0.5	.24	.24				1.0-10	7.9-8.4
11:														
Ascalon----------	0-7	5-15	1.35-1.50	2-6	0.13-0.15	0.0-2.9	1.0-2.0	.24	.24	4	3	86	4.0-15	6.6-7.8
	7-23	20-30	1.25-1.40	0.2-2	0.14-0.17	0.0-2.9	0.5-2.0	.20	.20				10-20	6.6-7.8
	23-44	10-18	1.35-1.50	2-6	0.10-0.13	0.0-2.9	0.5-1.0	.28	.28				5.0-15	7.9-8.4
	44-60	3-12	1.45-1.60	6-20	0.06-0.09	0.0-2.9	0.0-0.5	.24	.24				1.0-10	7.9-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
12:														
Ascalon----------	0-7	5-15	1.35-1.50	2-6	0.13-0.15	0.0-2.9	1.0-2.0	.24	.24	4	3	86	4.0-15	6.6-7.8
	7-23	20-30	1.25-1.40	0.2-2	0.14-0.17	0.0-2.9	0.5-2.0	.20	.20				10-20	6.6-7.8
	23-44	10-18	1.35-1.50	2-6	0.10-0.13	0.0-2.9	0.5-1.0	.28	.28				5.0-15	7.9-8.4
	44-60	3-12	1.45-1.60	6-20	0.06-0.09	0.0-2.9	0.0-0.5	.24	.24				1.0-10	7.9-8.4
13*:														
Badland----------	0-60	0-0	---	0.0000-0.2	0.00-0.00	---	---	---	---	-	8	0	---	---
14:														
Bankard----------	0-3	0-5	1.45-1.60	20-20	0.05-0.08	0.0-2.9	0.5-1.0	.17	.17	5	1	220	1.0-5.0	6.6-7.8
	3-60	2-10	1.45-1.60	20-20	0.04-0.06	0.0-2.9	0.0-0.5	.10	.20				1.0-5.0	6.6-8.4
15:														
Bayard----------	0-12	3-12	1.45-1.60	6-20	0.06-0.08	0.0-2.9	1.0-3.0	.17	.17	5	2	134	3.0-15	6.6-7.8
	12-60	10-18	1.35-1.50	2-6	0.10-0.15	0.0-2.9	0.5-1.0	.28	.28				4.0-10	7.9-8.4
Canyon----------	0-5	10-20	1.25-1.40	0.6-6	0.10-0.13	0.0-2.9	0.5-1.0	.20	.37	1	4L	86	5.0-15	7.4-8.4
	5-11	10-25	1.25-1.40	0.6-6	0.10-0.13	0.0-2.9	0.5-1.0	.20	.37				4.0-15	7.4-8.4
	11-15	---	---	0.06-0.2	---	---	---	---	---				---	---
16:														
Bridgeport----------	0-10	14-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-4.0	.28	.28	5	4L	86	5.0-25	7.4-7.8
	10-17	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				10-20	7.9-8.4
	17-30	18-27	1.15-1.35	0.6-2	0.15-0.20	0.0-2.9	0.5-1.0	.43	.43				5.0-20	7.9-8.4
	30-60	5-15	1.35-1.50	2-6	0.14-0.17	0.0-2.9	0.0-0.5	.37	.37				2.0-10	7.9-8.4
17:														
Canyon----------	0-5	10-20	1.25-1.40	0.6-6	0.10-0.13	0.0-2.9	0.5-1.0	.20	.37	1	4L	86	5.0-15	7.4-8.4
	5-11	10-25	1.25-1.40	0.6-6	0.10-0.13	0.0-2.9	0.5-1.0	.20	.37				4.0-15	7.4-8.4
	11-15	---	---	0.06-0.2	---	---	---	---	---				---	---
18:														
Chappell----------	0-6	5-18	1.35-1.50	2-6	0.10-0.13	0.0-2.9	1.0-2.0	.24	.24	4	3	86	4.0-15	6.6-7.3
	6-30	5-18	1.35-1.50	2-6	0.09-0.12	0.0-2.9	0.5-1.0	.24	.24				3.0-15	6.6-7.3
	30-41	2-10	1.45-1.60	6-20	0.05-0.07	0.0-2.9	0.5-1.0	.15	.15				2.0-10	7.4-8.4
	41-60	2-10	1.45-1.60	6-20	0.04-0.05	0.0-2.9	0.0-0.5	.10	.15				1.0-5.0	7.9-8.4
19:														
Colby----------	0-4	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-2.0	.37	.37	5	4L	86	5.0-20	7.4-8.4
	4-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				5.0-20	7.4-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
20:														
Dacono----------	0-4	20-27	1.20-1.30	0.6-2	0.16-0.19	0.0-2.9	2.0-4.0	.24	.24	3	6	48	25-35	6.6-7.8
	4-13	35-60	1.25-1.35	0.2-0.6	0.15-0.21	6.0-8.9	1.0-2.0	.24	.43				60-70	7.4-8.4
	13-28	15-35	1.25-1.35	0.6-2	0.13-0.18	3.0-5.9	1.0-2.0	.28	.28				20-40	7.4-8.4
	28-60	0-5	1.50-1.60	20-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.64				2.0-10	7.4-8.4
21:														
Dailey----------	0-16	2-5	1.45-1.60	6-20	0.06-0.08	0.0-2.9	1.0-3.0	.17	.17	5	2	134	3.0-10	6.6-7.3
	16-60	2-5	1.45-1.60	6-20	0.05-0.08	0.0-2.9	0.5-1.0	.20	.20				2.0-5.0	6.6-8.4
22:														
Dailey----------	0-16	2-5	1.45-1.60	6-20	0.06-0.08	0.0-2.9	1.0-3.0	.17	.17	5	2	134	3.0-10	6.6-7.3
	16-60	2-5	1.45-1.60	6-20	0.05-0.08	0.0-2.9	0.5-1.0	.20	.20				2.0-5.0	6.6-8.4
23:														
Dailey, thick surface----------	0-24	0-5	1.45-1.60	6-20	0.06-0.09	0.0-2.9	1.0-2.0	.17	.17	5	2	134	2.0-5.0	6.6-7.3
	24-37	0-5	1.45-1.60	6-20	0.06-0.09	0.0-2.9	0.5-1.0	.20	.20				1.0-5.0	6.6-7.8
	37-60	2-13	1.35-1.50	2-6	0.10-0.13	0.0-2.9	0.0-0.5	.32	.32				1.0-10	7.4-7.8
24:														
Dix----------	0-4	8-15	1.35-1.50	2-6	0.07-0.10	0.0-2.9	1.0-2.0	.15	.24	3	3	86	5.0-15	6.6-7.3
	4-10	5-13	1.35-1.50	2-6	0.07-0.09	0.0-2.9	0.5-1.0	.15	.24				3.0-10	6.6-7.3
	10-18	2-7	1.45-1.60	6-20	0.04-0.05	0.0-2.9	0.0-0.5	.10	.15				1.0-5.0	6.6-7.8
	18-60	0-5	1.45-1.60	20-20	0.03-0.04	0.0-2.9	0.0-0.5	.05	.20				0.0-5.0	6.6-7.8
Altvan----------	0-5	12-18	1.35-1.50	2-6	0.10-0.13	0.0-2.9	1.0-2.0	.24	.24	4	3	86	5.0-15	6.6-7.3
	5-23	20-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.20	.20				10-25	6.6-7.8
	23-41	20-30	1.25-1.40	0.2-2	0.14-0.18	0.0-2.9	0.5-1.0	.20	.20				10-20	7.4-8.4
	41-60	0-5	1.45-1.60	20-20	0.02-0.06	0.0-2.9	0.0-0.5	.05	.10				0.0-5.0	7.4-8.4
25:														
Dix----------	0-4	8-15	1.35-1.50	2-6	0.07-0.10	0.0-2.9	1.0-2.0	.15	.24	3	3	86	5.0-15	6.6-7.3
	4-10	5-13	1.35-1.50	2-6	0.07-0.09	0.0-2.9	0.5-1.0	.15	.24				3.0-10	6.6-7.3
	10-18	2-7	1.45-1.60	6-20	0.04-0.05	0.0-2.9	0.0-0.5	.10	.15				1.0-5.0	6.6-7.8
	18-60	0-5	1.45-1.60	20-20	0.03-0.04	0.0-2.9	0.0-0.5	.05	.20				0.0-5.0	6.6-7.8
Eckley----------	0-3	10-20	1.35-1.50	0.6-6	0.10-0.13	0.0-2.9	2.0-4.0	.20	.20	4	3	86	10-20	6.6-7.3
	3-20	20-30	1.25-1.40	0.2-2	0.10-0.13	0.0-2.9	1.0-2.0	.10	.17				10-20	6.6-7.3
	20-60	1-5	1.45-1.60	20-20	0.02-0.05	0.0-2.9	0.0-0.5	.05	.10				0.0-5.0	7.4-7.8

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
26:														
Els----------	0-6	3-10	1.45-1.60	6-20	0.06-0.08	0.0-2.9	0.5-3.0	.17	.17	5	2	134	2.0-10	7.4-7.8
	6-60	0-8	1.45-1.50	6-20	0.08-0.11	0.0-2.9	0.0-0.5	.32	.32				0.0-5.0	7.4-7.8
27:														
Epping----------	0-3	10-25	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	2	5	56	5.0-15	6.6-7.3
	3-11	10-25	1.25-1.30	0.6-6	0.14-0.20	0.0-2.9	0.5-1.0	.43	.43				4.0-15	7.4-8.4
	11-15	---	---	0.06-0.2	---	---	---	---	---				---	---
28*:														
Fluvaquentic Haplaquolls--------	0-12	---	---	0.2-6	---	---	1.0-3.0	---	---	3	8	0	---	---
	12-60	5-22	1.35-1.60	0.2-6	0.08-0.18	0.0-2.9	0.5-1.0	.20	.55				3.0-15	7.4-8.4
29*:														
Fluvaquents---------	0-10	4-30	1.20-1.50	0.6-20	0.07-0.16	0.0-2.9	0.5-1.0	.20	.20	3	8	0	5.0-20	7.4-8.4
	10-60	0-5	1.60-1.70	20-20	0.04-0.09	0.0-2.9	0.0-1.0	.05	.17				0.0-5.0	7.4-8.4
30:														
Glenberg----------	0-13	10-20	1.35-1.50	0.6-6	0.13-0.15	0.0-2.9	0.5-1.0	.28	.28	5	3	86	5.0-15	6.6-7.8
	13-60	10-20	1.35-1.50	0.6-6	0.13-0.15	0.0-2.9	0.0-0.5	.32	.32				4.0-15	7.4-8.4
31:														
Gravel pits---------	0-6	0-1	---	6-20	0.01-0.02	0.0-2.9	0.0-0.1	.02	---	-	8	0	---	---
	6-60	0-1	---	6-20	0.01-0.02	0.0-2.9	---	.02	---				---	---
32:														
Haverson----------	0-4	10-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.5-2.0	.37	.37	5	4L	86	5.0-20	7.4-8.4
	4-19	10-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.0-1.0	.37	.37				4.0-20	7.9-8.4
	19-60	8-18	1.35-1.50	2-6	0.10-0.15	0.0-2.9	0.0-0.5	.32	.32				2.0-10	7.9-8.4
33:														
Haverson----------	0-4	10-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.5-2.0	.37	.37	5	4L	86	5.0-20	7.4-8.4
	4-19	10-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.0-1.0	.37	.37				4.0-20	7.9-8.4
	19-60	8-18	1.35-1.50	2-6	0.10-0.15	0.0-2.9	0.0-0.5	.32	.32				2.0-10	7.9-8.4
34:														
Haverson, frequently flooded----------	0-4	10-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.5-2.0	.37	.37	5	4L	86	5.0-20	7.4-8.4
	4-19	10-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.0-1.0	.37	.37				4.0-20	7.4-8.4
	19-60	8-27	1.15-1.50	0.6-6	0.10-0.20	0.0-2.9	0.0-0.5	.37	.37				2.0-15	7.4-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi- bility group	Wind erodi- bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
35:														
Haverson, saline----	0-4	10-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.5-2.0	.37	.37	5	4L	86	5.0-20	7.4-8.4
	4-19	10-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.0-1.0	.37	.37				4.0-20	7.4-8.4
	19-60	8-27	1.15-1.50	0.6-6	0.10-0.20	0.0-2.9	0.0-0.5	.37	.37				2.0-15	7.4-8.4
36:														
Haxtun----------	0-8	3-10	1.45-1.60	6-20	0.06-0.08	0.0-2.9	2.0-4.0	.15	.15	5	2	134	5.0-15	6.6-7.3
	8-21	13-18	1.35-1.50	2-6	0.10-0.13	0.0-2.9	1.0-2.0	.24	.24				5.0-15	6.6-7.3
	21-29	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.8
	29-47	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	6.6-8.4
	47-60	8-18	1.35-1.50	2-6	0.07-0.10	0.0-2.9	0.0-0.5	.17	.32				2.0-10	7.9-8.4
37:														
Haxtun----------	0-8	3-10	1.45-1.60	6-20	0.06-0.08	0.0-2.9	2.0-4.0	.15	.15	5	2	134	5.0-15	6.6-7.3
	8-21	13-18	1.35-1.50	2-6	0.10-0.13	0.0-2.9	1.0-2.0	.24	.24				5.0-15	6.6-7.3
	21-29	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.8
	29-47	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	6.6-8.4
	47-60	8-18	1.35-1.50	2-6	0.07-0.10	0.0-2.9	0.0-0.5	.17	.32				2.0-10	7.9-8.4
38:														
Haxtun----------	0-8	6-18	1.35-1.50	2-6	0.10-0.13	0.0-2.9	2.0-4.0	.20	.20	5	3	86	5.0-20	6.6-7.3
	8-21	13-18	1.35-1.50	2-6	0.10-0.13	0.0-2.9	1.0-2.0	.24	.24				5.0-15	6.6-7.3
	21-29	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.8
	29-47	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	6.6-8.4
	47-60	8-18	1.35-1.50	2-6	0.07-0.10	0.0-2.9	0.0-0.5	.17	.32				2.0-10	7.9-8.4
39:														
Hayford----------	0-7	27-34	1.15-1.30	0.2-0.6	0.17-0.20	0.0-2.9	1.0-3.0	.28	.28	4	4L	86	20-35	7.9-8.4
	7-22	35-50	1.15-1.30	0.06-0.2	0.14-0.21	6.0-8.9	1.0-2.0	.28	.28				20-45	7.9-8.4
	22-26	27-38	1.25-1.40	0.0000-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				15-30	7.9-8.4
	26-32	10-20	1.35-1.50	0.2-6	0.13-0.15	0.0-2.9	0.5-1.0	.28	.28			9-0	5-15	7.9-8.4
	32-60	1-10	1.45-1.60	20-20	0.03-0.04	0.0-2.9	0.0-0.5	.05	.20				0-0	7.9-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
41:														
Heldt----------	0-6	27-40	1.25-1.40	0.0000-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24	5	6	48	15-35	6.6-7.8
	6-60	40-55	1.15-1.30	0.06-0.2	0.14-0.17	6.0-8.9	0.0-0.5	.28	.28				20-45	7.4-9.0
42:														
Heldt, saline-------	0-6	27-40	1.25-1.40	0.0000-0.6	0.15-0.18	3.0-5.9	0.5-1.0	.24	.24	5	6	48	15-35	6.6-7.8
	6-60	40-55	1.15-1.30	0.06-0.2	0.11-0.14	6.0-8.9	0.0-0.5	.28	.28				20-45	7.4-9.0
43:														
Iliff----------	0-8	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	2	6	48	15-30	6.6-7.3
	8-22	35-40	1.15-1.30	0.06-0.2	0.17-0.20	3.0-5.9	0.5-2.0	.32	.32				20-35	7.4-8.4
	22-34	20-27	1.15-1.30	0.6-2	0.15-0.20	0.0-2.9	0.0-0.5	.49	.49				10-25	7.9-8.4
	34-38	---	---	0.06-0.2	---	---	---	---	---				---	---
44:														
Julesburg----------	0-5	3-10	1.50-1.60	6-20	0.08-0.12	0.0-2.9	2.0-4.0	.20	.20	4	2	134	5.0-15	6.6-7.8
	5-31	10-18	1.40-1.50	2-6	0.11-0.15	0.0-2.9	1.0-2.0	.24	.24				5.0-15	6.6-7.8
	31-60	0-5	1.60-1.70	6-20	0.05-0.13	0.0-2.9	0.5-1.0	.17	.17				1.0-5.0	6.6-7.8
45:														
Julesburg----------	0-5	3-10	1.50-1.60	6-20	0.08-0.12	0.0-2.9	2.0-4.0	.20	.20	4	2	134	5.0-15	6.6-7.8
	5-31	10-18	1.40-1.50	2-6	0.11-0.15	0.0-2.9	1.0-2.0	.24	.24				5.0-15	6.6-7.8
	31-60	0-5	1.60-1.70	6-20	0.05-0.13	0.0-2.9	0.5-1.0	.17	.17				1.0-5.0	6.6-7.8
46:														
Julesburg----------	0-5	3-10	1.45-1.55	2-6	0.11-0.15	0.0-2.9	2.0-4.0	.24	.24	4	3	86	5.0-15	6.6-7.8
	5-31	10-18	1.40-1.50	2-6	0.11-0.15	0.0-2.9	1.0-2.0	.24	.24				5.0-15	6.6-7.8
	31-60	0-5	1.60-1.70	6-20	0.05-0.13	0.0-2.9	0.5-1.0	.17	.17				1.0-5.0	6.6-7.8
47:														
Julesburg----------	0-5	3-10	1.45-1.55	2-6	0.11-0.15	0.0-2.9	2.0-4.0	.24	.24	4	3	86	5.0-15	6.6-7.8
	5-31	10-18	1.40-1.50	2-6	0.11-0.15	0.0-2.9	1.0-2.0	.24	.24				5.0-15	6.6-7.8
	31-60	0-5	1.60-1.70	6-20	0.05-0.13	0.0-2.9	0.5-1.0	.17	.17				1.0-5.0	6.6-7.8
48:														
Julesburg----------	0-5	3-10	1.45-1.55	2-6	0.11-0.15	0.0-2.9	2.0-4.0	.24	.24	4	3	86	5.0-15	6.6-7.8
	5-31	10-18	1.40-1.50	2-6	0.11-0.15	0.0-2.9	1.0-2.0	.24	.24				5.0-15	6.6-7.8
	31-60	0-5	1.60-1.70	6-20	0.05-0.13	0.0-2.9	0.5-1.0	.17	.17				1.0-5.0	6.6-7.8

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
49:														
Julesburg----------	0-5	3-10	1.45-1.55	2-6	0.11-0.15	0.0-2.9	2.0-4.0	.24	.24	4	3	86	5.0-15	6.6-7.8
	5-31	10-18	1.40-1.50	2-6	0.11-0.15	0.0-2.9	1.0-2.0	.24	.24				5.0-15	6.6-7.8
	31-60	0-5	1.60-1.70	6-20	0.05-0.13	0.0-2.9	0.5-1.0	.17	.17				1.0-5.0	6.6-7.8
Eckley----------	0-3	15-27	1.25-1.40	0.6-6	0.10-0.13	0.0-2.9	2.0-4.0	.15	.24	4	6	48	10-25	6.6-7.3
	3-20	20-30	1.25-1.40	0.2-2	0.10-0.13	0.0-2.9	1.0-2.0	.10	.17				10-20	6.6-7.3
	20-43	2-10	1.45-1.60	6-20	0.04-0.05	0.0-2.9	0.5-1.0	.10	.15				2.0-10	7.4-7.8
	43-60	1-5	1.45-1.60	20-20	0.02-0.05	0.0-2.9	0.0-0.5	.05	.10				0.0-5.0	7.4-7.8
50:														
Keith----------	0-6	12-25	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-3.0	.28	.28	5	5	56	5.0-20	6.6-7.3
	6-10	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	6.6-7.3
	10-18	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.3
	18-60	12-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				4.0-20	7.4-8.4
51:														
Kim----------	0-4	15-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.5-1.0	.37	.37	5	4L	86	5.0-20	7.4-8.4
	4-16	15-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.5-1.0	.37	.37				5.0-20	7.4-8.4
	16-60	12-18	1.35-1.50	2-6	0.10-0.15	0.0-2.9	0.0-0.5	.32	.32				4.0-10	7.4-8.4
52:														
Kuma----------	0-5	15-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24	5	5	56	10-25	6.6-7.3
	5-28	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	1.0-2.0	.28	.28				10-20	6.6-7.3
	28-39	18-27	1.25-1.40	0.6-2	0.14-0.18	0.0-2.9	0.5-1.0	.37	.37				5.0-20	7.4-8.4
	39-60	10-20	1.35-1.50	0.6-6	0.14-0.17	0.0-2.9	0.0-1.0	.32	.32				4.0-15	7.9-8.4
53:														
Kutch----------	0-3	27-34	1.25-1.40	0.2-0.6	0.17-0.21	3.0-5.9	2.0-4.0	.17	.17	3	6	48	20-35	6.1-7.3
	3-14	40-50	1.15-1.30	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.17	.17				25-40	6.6-7.8
	14-37	30-40	1.25-1.40	0.0000-0.6	0.17-0.21	3.0-5.9	0.0-0.5	.28	.28				15-30	7.4-8.4
	37-41	---	---	0.06-2	---	---	---	---	---				---	---
54:														
Kutch----------	0-3	27-34	1.25-1.40	0.2-0.6	0.17-0.21	3.0-5.9	2.0-4.0	.17	.17	3	6	48	20-35	6.1-7.3
	3-14	40-50	1.15-1.30	0.06-0.2	0.14-0.16	6.0-8.9	0.5-1.0	.17	.17				25-40	6.6-7.8
	14-37	30-40	1.25-1.40	0.0000-0.6	0.17-0.21	3.0-5.9	0.0-0.5	.28	.28				15-30	7.4-8.4
	37-41	---	---	0.06-2	---	---	---	---	---				---	---

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
55:														
Lebsack----------	0-6	35-39	1.15-1.30	0.06-0.2	0.17-0.20	3.0-5.9	1.0-5.0	.24	.24	5	4L	86	20-40	7.4-8.4
	6-34	35-50	1.20-1.30	0.06-0.2	0.17-0.20	6.0-8.9	0.5-2.0	.28	.28				20-45	7.4-8.4
	34-60	35-50	1.20-1.30	0.06-0.2	0.14-0.17	6.0-8.9	0.0-0.5	.28	.28				20-40	7.4-8.4
56:														
Lebsack, saline-----	0-9	35-40	1.25-1.40	0.06-0.2	0.14-0.17	3.0-5.9	2.0-4.0	.17	.17	5	4L	86	20-40	7.4-8.4
	9-34	35-50	1.20-1.30	0.06-0.2	0.15-0.18	6.0-8.9	1.0-2.0	.24	.24				20-45	7.9-9.0
	34-60	35-50	1.20-1.30	0.06-0.2	0.15-0.18	6.0-8.9	0.5-1.0	.24	.24				20-40	7.9-9.0
57:														
Lebsack, wet--------	0-9	35-40	1.25-1.40	0.06-0.2	0.14-0.17	3.0-5.9	2.0-4.0	.17	.17	5	4L	86	20-40	7.4-8.4
	9-34	35-50	1.20-1.30	0.06-0.2	0.15-0.18	6.0-8.9	1.0-2.0	.24	.24				20-45	7.9-9.0
	34-60	35-50	1.20-1.30	0.06-0.2	0.15-0.18	6.0-8.9	0.5-1.0	.24	.24				20-40	7.9-9.0
58:														
Loveland----------	0-13	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	1.0-3.0	.20	.20	4	4L	86	10-25	7.4-8.4
	13-25	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				10-25	7.9-8.4
	25-34	20-30	1.25-1.40	0.2-2	0.14-0.17	0.0-2.9	0.5-1.0	.20	.20				10-20	7.4-8.4
	34-60	0-5	1.45-1.60	20-20	0.02-0.05	0.0-2.9	0.0-0.5	.05	.10				0.0-5.0	7.9-8.4
59:														
Manter----------	0-10	5-10	1.40-1.50	6-20	0.08-0.12	0.0-2.9	2.0-3.0	.17	.17	5	2	134	10-15	6.6-7.8
	10-24	9-18	1.40-1.50	2-6	0.11-0.14	0.0-2.9	1.0-2.0	.15	.15				10-20	6.6-7.8
	24-60	5-15	1.45-1.60	2-6	0.08-0.14	0.0-2.9	0.0-1.0	.15	.15				5.0-15	7.9-8.4
60:														
Manter----------	0-10	5-10	1.40-1.50	6-20	0.08-0.12	0.0-2.9	2.0-3.0	.17	.17	5	2	134	10-15	6.6-7.8
	10-24	9-18	1.40-1.50	2-6	0.11-0.14	0.0-2.9	1.0-2.0	.15	.15				10-20	6.6-7.8
	24-60	5-15	1.45-1.60	2-6	0.08-0.14	0.0-2.9	0.0-1.0	.15	.15				5.0-15	7.9-8.4
61:														
Manter----------	0-10	10-20	1.35-1.40	2-6	0.12-0.16	0.0-2.9	2.0-4.0	.20	.20	5	3	86	15-20	6.6-7.8
	10-24	9-18	1.40-1.50	2-6	0.11-0.14	0.0-2.9	1.0-2.0	.15	.15				10-20	6.6-7.8
	24-60	5-15	1.45-1.60	2-6	0.08-0.14	0.0-2.9	0.0-1.0	.15	.15				5.0-15	7.9-8.4
62:														
Manter----------	0-10	10-20	1.35-1.40	2-6	0.12-0.16	0.0-2.9	2.0-4.0	.20	.20	5	3	86	15-20	6.6-7.8
	10-24	9-18	1.40-1.50	2-6	0.11-0.14	0.0-2.9	1.0-2.0	.15	.15				10-20	6.6-7.8
	24-60	5-15	1.45-1.60	2-6	0.08-0.14	0.0-2.9	0.0-1.0	.15	.15				5.0-15	7.9-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
63:														
Manter----------	0-10	10-20	1.35-1.40	2-6	0.12-0.16	0.0-2.9	2.0-4.0	.20	.20	5	3	86	15-20	6.6-7.8
	10-24	9-18	1.40-1.50	2-6	0.11-0.14	0.0-2.9	1.0-2.0	.15	.15				10-20	6.6-7.8
	24-60	5-15	1.45-1.60	2-6	0.08-0.14	0.0-2.9	0.0-1.0	.15	.15				5.0-15	7.9-8.4
64:														
Manter, watertable--	0-13	5-15	1.30-1.40	2-6	0.10-0.15	0.0-2.9	1.0-2.0	.24	.24	5	3	86	4.0-15	6.6-7.8
	13-25	9-18	1.35-1.50	2-6	0.10-0.15	0.0-2.9	0.0-1.0	.28	.28				4.0-15	7.4-8.4
	25-60	5-15	1.35-1.60	2-20	0.06-0.13	0.0-2.9	0.0-0.5	.28	.28				1.0-10	7.9-8.4
65:														
Manter, wet---------	0-13	5-15	1.30-1.40	2-6	0.10-0.15	0.0-2.9	1.0-2.0	.24	.24	5	3	86	4.0-15	6.6-7.8
	13-25	9-18	1.35-1.50	2-6	0.10-0.15	0.0-2.9	0.0-1.0	.28	.28				4.0-15	7.4-8.4
	25-60	5-15	1.35-1.60	2-20	0.06-0.13	0.0-2.9	0.0-0.5	.28	.28				1.0-10	7.9-8.4
66:														
Manzanola----------	0-3	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20	5	4L	86	20-30	7.4-7.8
	3-11	35-39	1.25-1.40	0.0000-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				20-35	7.4-8.4
	11-60	27-37	1.15-1.40	0.0000-0.6	0.17-0.20	3.0-5.9	0.0-0.5	.28	.28				15-30	7.9-9.0
67:														
Midway----------	0-2	30-40	1.25-1.40	0.06-0.2	0.17-0.21	3.0-5.9	0.5-2.0	.24	.24	2	4L	86	20-35	6.6-8.4
	2-10	35-45	1.15-1.40	0.06-0.2	0.14-0.21	6.0-8.9	0.0-0.5	.37	.37				20-30	7.9-9.0
	10-14	---	---	0.06-0.2	---	---	---	---	---				---	---
68:														
Mitchell----------	0-5	12-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	5	4L	86	5.0-15	7.4-8.4
	5-60	10-18	1.15-1.30	2-6	0.15-0.20	0.0-2.9	0.5-1.0	.43	.43				4.0-10	7.4-8.4
69:														
Mitchell----------	0-5	12-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	5	4L	86	5.0-15	7.4-8.4
	5-60	10-18	1.15-1.30	2-6	0.15-0.20	0.0-2.9	0.5-1.0	.43	.43				4.0-10	7.4-8.4
Keota----------	0-4	5-20	1.35-1.50	0.6-2	0.16-0.18	0.0-2.9	0.5-1.0	.37	.37	3	4L	86	5.0-10	7.4-8.4
	4-24	5-18	1.40-1.55	0.6-2	0.14-0.16	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4
	24-28	---	---	0.06-0.2	---	---	---	---	---				---	---
70:														
Mitchell----------	0-5	12-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	5	4L	86	5.0-15	7.4-8.4
	5-60	10-18	1.15-1.30	2-6	0.15-0.20	0.0-2.9	0.5-1.0	.43	.43				4.0-10	7.4-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi- bility group	Wind erodi- bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
70:														
Keota----------	0-4	5-20	1.35-1.50	0.6-2	0.16-0.18	0.0-2.9	0.5-1.0	.37	.37	3	4L	86	5.0-10	7.4-8.4
	4-28	5-18	1.40-1.55	0.6-2	0.14-0.16	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4
	28-32	---	---	0.06-0.2	---	---	---	---	---				---	---
71:														
Mitchell----------	0-5	12-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	5	4L	86	5.0-15	7.4-8.4
	5-60	10-18	1.15-1.30	2-6	0.15-0.20	0.0-2.9	0.5-1.0	.43	.43				4.0-10	7.4-8.4
Norka----------	0-4	12-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	5	5	56	5.0-20	6.6-7.8
	4-15	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.8
	15-60	18-27	1.15-1.30	0.6-2	0.15-0.18	0.0-2.9	0.5-1.0	.43	.43				5.0-20	7.9-8.4
72:														
Mosher----------	0-5	18-27	1.25-1.40	0.2-2	0.13-0.16	0.0-2.9	1.0-3.0	.28	.28	2	6	48	15-30	6.6-7.3
	5-17	35-40	1.25-1.40	0.06-0.2	0.13-0.16	3.0-5.9	0.5-1.0	.24	.24				20-35	7.9-9.0
	17-28	20-35	1.25-1.40	0.2-2	0.11-0.14	3.0-5.9	0.5-1.0	.20	.20				10-30	8.5-9.0
	28-55	27-34	1.25-1.40	0.2-0.6	0.15-0.18	3.0-5.9	0.5-1.0	.24	.24				15-30	7.9-9.0
	55-60	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				10-25	7.9-8.4
73:														
Mosher----------	0-5	40-50	1.15-1.30	0.06-0.2	0.12-0.15	6.0-8.9	1.0-3.0	.15	.15	2	4	86	25-45	6.6-7.3
	5-17	35-40	1.25-1.40	0.06-0.2	0.13-0.16	3.0-5.9	0.5-1.0	.24	.24				20-35	7.9-9.0
	17-28	20-35	1.25-1.40	0.2-2	0.11-0.14	3.0-5.9	0.5-1.0	.20	.20				10-30	8.5-9.0
	28-55	27-34	1.25-1.40	0.2-0.6	0.15-0.18	3.0-5.9	0.5-1.0	.24	.24				15-30	7.9-9.0
	55-60	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				10-25	7.9-8.4
74:														
Norka----------	0-4	12-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	5	5	56	5.0-20	6.6-7.8
	4-12	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.8
	12-25	18-27	1.15-1.30	0.6-2	0.15-0.18	0.0-2.9	0.5-1.0	.43	.43				5.0-20	7.9-8.4
	25-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4
75:														
Norka----------	0-4	12-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	5	5	56	5.0-20	6.6-7.8
	4-12	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.8
	12-25	18-27	1.15-1.30	0.6-2	0.15-0.18	0.0-2.9	0.5-1.0	.43	.43				5.0-20	7.9-8.4
	25-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
75:														
Ulysses----------	0-5	10-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-3.0	.28	.28	5	5	56	5.0-20	6.6-7.8
	5-14	18-27	1.25-1.30	0.6-2	0.14-0.20	0.0-2.9	0.5-1.0	.37	.37				10-20	7.4-8.4
	14-60	18-27	1.15-1.50	0.6-2	0.14-0.20	0.0-2.9	0.0-0.5	.37	.37				5.0-15	7.9-8.4
76:														
Nunn----------	0-6	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	6	48	15-30	6.1-7.3
	6-26	35-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.1-7.8
	26-31	27-39	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				15-30	7.4-8.4
	31-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				10-20	7.9-8.4
77:														
Nunn----------	0-6	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	6	48	15-30	6.1-7.3
	6-26	35-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.1-7.8
	26-31	27-39	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				15-30	7.4-8.4
	31-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				10-20	7.9-8.4
78:														
Nunn----------	0-6	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	6	48	15-30	6.1-7.3
	6-26	35-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.1-7.8
	26-31	27-39	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				15-30	7.4-8.4
	31-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				10-20	7.9-8.4
79:														
Nunn----------	0-6	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	6	48	15-30	6.1-7.3
	6-26	35-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.1-7.8
	26-31	27-39	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				15-30	7.4-8.4
	31-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				10-20	7.9-8.4
80:														
Nunn----------	0-6	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	2.0-4.0	.17	.17	5	6	48	20-35	6.1-7.3
	6-26	35-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.1-7.8
	26-31	27-39	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				15-30	7.4-8.4
	31-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				10-20	7.9-8.4
81:														
Nunn----------	0-6	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	2.0-4.0	.17	.17	5	6	48	20-35	6.1-7.3
	6-26	35-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.1-7.8
	26-31	27-39	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				15-30	7.4-8.4
	31-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				10-20	7.9-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
82:														
Nunn, watertable----	0-10	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	2.0-4.0	.17	.17	5	6	48	20-35	6.6-7.8
	10-23	35-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.6-7.8
	23-36	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				15-30	7.4-8.4
	36-60	18-34	1.25-1.40	0.2-2	0.14-0.20	3.0-5.9	0.0-0.5	.28	.28				10-25	7.4-8.4
83:														
Nunn, wet----------	0-10	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	2.0-4.0	.17	.17	5	6	48	20-35	6.6-7.8
	10-23	35-39	1.25-1.40	0.0000-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.6-7.8
	23-36	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				15-30	7.4-8.4
	36-60	18-34	1.25-1.40	0.2-2	0.14-0.20	3.0-5.9	0.0-0.5	.28	.28				10-25	7.4-8.4
84:														
Olney----------	0-3	10-20	1.40-1.50	0.6-6	0.11-0.15	0.0-2.9	1.0-2.0	.20	.20	5	3	86	2.0-15	6.6-7.8
	3-11	18-35	1.40-1.45	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.24				12-20	6.6-7.8
	11-26	15-30	1.40-1.50	0.6-6	0.11-0.15	0.0-2.9	0.5-1.0	.24	.24				12-20	7.9-8.4
	26-60	5-18	1.40-1.55	2-6	0.06-0.13	0.0-2.9	0.5-1.0	.17	.17				1.0-10	7.9-8.4
85:														
Olney----------	0-3	10-20	1.35-1.50	0.6-6	0.10-0.13	0.0-2.9	0.5-1.0	.28	.28	5	3	86	5.0-15	6.6-7.8
	3-11	18-35	1.25-1.40	0.6-2	0.13-0.17	0.0-2.9	0.5-1.0	.24	.24				10-25	6.6-7.8
	11-48	15-30	1.25-1.40	0.6-2	0.11-0.15	0.0-2.9	0.0-0.5	.24	.24				10-20	7.9-8.4
	48-60	5-15	1.40-1.60	2-6	0.06-0.13	0.0-2.9	0.0-0.5	.32	.32				3.0-10	7.9-9.0
86:														
Peetz----------	0-9	5-10	1.35-1.50	2-6	0.07-0.10	0.0-2.9	2.0-4.0	.10	.20	3	3	86	5.0-15	6.6-7.8
	9-28	8-18	1.40-1.55	6-20	0.06-0.09	0.0-2.9	0.0-1.0	.17	.49				3.0-15	7.4-8.4
	28-60	0-8	1.60-1.70	6-20	0.03-0.06	0.0-2.9	0.0-0.5	.10	.28				0.0-5.0	7.4-8.4
87:														
Platner----------	0-7	10-15	1.35-1.50	2-6	0.10-0.15	0.0-2.9	2.0-4.0	.20	.20	5	3	86	10-20	6.6-7.3
	7-18	34-39	1.25-1.40	0.0000-0.6	0.17-0.20	3.0-5.9	0.5-2.0	.24	.24				20-35	6.6-7.8
	18-26	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				10-25	7.9-8.4
	26-34	12-20	1.35-1.50	0.6-6	0.13-0.16	0.0-2.9	0.0-0.5	.32	.32				5.0-15	7.9-8.4
	34-60	20-30	1.25-1.40	0.2-2	0.10-0.13	0.0-2.9	0.0-0.5	.15	.24				10-25	7.9-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
88:														
Platner----------	0-7	15-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56	15-25	6.6-7.3
	7-18	34-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	0.5-2.0	.24	.24				20-35	6.6-7.8
	18-26	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				10-25	7.9-8.4
	26-34	12-20	1.35-1.50	0.6-6	0.13-0.16	0.0-2.9	0.0-0.5	.32	.32				5.0-15	7.9-8.4
	34-60	20-30	1.25-1.40	0.2-2	0.10-0.13	0.0-2.9	0.0-0.5	.15	.24				10-25	7.9-8.4
89:														
Platner----------	0-7	15-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56	15-25	6.6-7.3
	7-18	34-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	0.5-2.0	.24	.24				20-35	6.6-7.8
	18-26	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				10-25	7.9-8.4
	26-34	12-20	1.35-1.50	0.6-6	0.13-0.16	0.0-2.9	0.0-0.5	.32	.32				5.0-15	7.9-8.4
	34-60	20-30	1.25-1.40	0.2-2	0.10-0.13	0.0-2.9	0.0-0.5	.15	.24				10-25	7.9-8.4
90:														
Platner----------	0-7	15-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56	15-25	6.6-7.3
	7-18	34-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	0.5-2.0	.24	.24				20-35	6.6-7.8
	18-26	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				10-25	7.9-8.4
	26-34	12-20	1.35-1.50	0.6-6	0.13-0.16	0.0-2.9	0.0-0.5	.32	.32				5.0-15	7.9-8.4
	34-60	20-30	1.25-1.40	0.2-2	0.10-0.13	0.0-2.9	0.0-0.5	.15	.24				10-25	7.9-8.4
91:														
Platner----------	0-7	15-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	5	56	15-25	6.6-7.3
	7-18	34-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	0.5-2.0	.24	.24				20-35	6.6-7.8
	18-26	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				10-25	7.9-8.4
	26-34	12-20	1.35-1.50	0.6-6	0.13-0.16	0.0-2.9	0.0-0.5	.32	.32				5.0-15	7.9-8.4
	34-60	20-30	1.25-1.40	0.2-2	0.10-0.13	0.0-2.9	0.0-0.5	.15	.24				10-25	7.9-8.4
Rago----------	0-8	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-3.0	.28	.28	5	6	48	15-30	6.6-7.3
	8-26	35-39	1.25-1.40	0.0000-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.6-7.8
	26-49	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				10-25	7.4-8.4
	49-60	10-20	1.35-1.50	0.6-6	0.10-0.13	0.0-2.9	0.0-0.5	.32	.32				5.0-15	7.4-8.4
Dacono----------	0-4	20-27	1.20-1.30	0.6-2	0.16-0.19	0.0-2.9	2.0-4.0	.24	.24	3	6	48	25-35	6.6-7.8
	4-13	35-60	1.25-1.35	0.2-0.6	0.15-0.21	6.0-8.9	1.0-2.0	.24	.43				60-70	7.4-8.4
	13-28	15-35	1.25-1.35	0.6-2	0.13-0.18	3.0-5.9	1.0-2.0	.28	.28				20-40	7.4-8.4
	28-60	0-5	1.50-1.60	20-20	0.03-0.05	0.0-2.9	0.5-1.0	.10	.64				2.0-10	7.4-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
92:														
Rago----------	0-8	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-3.0	.28	.28	5	6	48	15-30	6.6-7.3
	8-26	35-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.6-7.8
	26-49	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				10-25	7.4-8.4
	49-60	10-20	1.35-1.50	0.6-6	0.10-0.13	0.0-2.9	0.0-0.5	.32	.32				5.0-15	7.4-8.4
93:														
Rago----------	0-8	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	1.0-3.0	.20	.20	5	6	48	20-35	6.6-7.3
	8-26	35-39	1.25-1.40	0.06-0.6	0.17-0.20	3.0-5.9	1.0-2.0	.20	.20				20-35	6.6-7.8
	26-49	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				10-25	7.4-8.4
	49-60	10-20	1.35-1.50	0.6-6	0.10-0.13	0.0-2.9	0.0-0.5	.32	.32				5.0-15	7.4-8.4
94:														
Renohill----------	0-5	20-26	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	3	6	48	15-25	6.6-7.8
	5-20	35-55	1.15-1.40	0.06-0.2	0.14-0.20	6.0-8.9	0.5-1.0	.24	.24				20-45	6.6-7.8
	20-27	20-34	1.25-1.40	0.2-2	0.16-0.19	0.0-2.9	0.0-1.0	.28	.28				10-30	7.4-8.4
	27-31	---	---	0.06-0.2	---	---	---	---	---				---	---
Shingle----------	0-2	13-23	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	2	4L	86	5.0-15	7.4-8.4
	2-10	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.0-0.5	.28	.28				10-20	7.4-8.4
	10-14	---	---	0.06-0.2	---	---	---	---	---				---	---
95*:														
Rock outcrop--------	0-60	0-0	---	0.2-0.6	0.00-0.00	---	---	---	---	-	8	0	---	---
Argiustolls---------	0-15	20-35	1.20-1.45	0.2-2	0.15-0.18	0.0-2.9	1.0-3.0	.28	.28	2	4	86	10-25	6.6-8.4
	15-60	---	---	0.06-0.2	---	---	---	---	---				---	---
96:														
Rosebud----------	0-5	8-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	3	5	56	5.0-20	6.6-7.3
	5-18	12-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28				5.0-20	6.6-8.4
	18-33	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				5.0-20	7.9-8.4
	33-37	---	---	0.06-0.2	---	---	---	---	---				---	---
Escabosa----------	0-10	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	2	4L	86	10-20	6.6-8.4
	10-22	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				5.0-15	7.9-8.4
	22-26	---	---	0.06-0.2	---	---	---	---	---				---	---

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
97:														
Rosebud----------	0-5	8-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	3	5	56	5.0-20	6.6-7.3
	5-18	12-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28				5.0-20	6.6-8.4
	18-33	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				5.0-20	7.9-8.4
	33-37	---	---	0.06-0.2	---	---	---	---	---				---	---
Escabosa----------	0-10	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	2	4L	86	10-20	6.6-8.4
	10-32	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				5.0-15	7.9-8.4
	32-36	---	---	0.06-0.2	---	---	---	---	---				---	---
98:														
Rosebud----------	0-5	8-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	3	5	56	5.0-20	6.6-7.3
	5-18	12-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28				5.0-20	6.6-8.4
	18-33	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				5.0-20	7.9-8.4
	33-37	---	---	0.06-0.2	---	---	---	---	---				---	---
Escabosa----------	0-10	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	2	4L	86	10-20	6.6-8.4
	10-32	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				5.0-15	7.9-8.4
	32-36	---	---	0.06-0.2	---	---	---	---	---				---	---
Iliff----------	0-8	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	2	6	48	15-30	6.6-7.3
	8-22	35-40	1.15-1.30	0.06-0.2	0.17-0.20	3.0-5.9	0.5-2.0	.32	.32				20-35	7.4-8.4
	22-34	20-27	1.15-1.30	0.6-2	0.15-0.20	0.0-2.9	0.0-0.5	.49	.49				10-25	7.9-8.4
	34-38	---	---	0.06-0.2	---	---	---	---	---				---	---
99:														
Satanta----------	0-7	10-25	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	5	5	56	5.0-20	6.6-7.3
	7-17	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.8
	17-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4
100:														
Satanta----------	0-7	10-25	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	5	5	56	5.0-20	6.6-7.3
	7-17	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.8
	17-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4
101:														
Satanta----------	0-7	10-25	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	5	5	56	5.0-20	6.6-7.3
	7-20	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-7.8
	20-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
102:														
Satanta, watertable-	0-7	20-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	5	6	48	10-20	6.6-7.3
	7-17	27-34	1.25-1.40	0.2-0.6	0.17-0.20	0.0-2.9	0.5-1.0	.24	.24				10-20	7.4-7.8
	17-60	20-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4
103:														
Satanta, wet--------	0-13	20-25	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	5	6	48	10-20	6.6-7.3
	13-19	27-34	1.25-1.40	0.2-0.6	0.17-0.20	0.0-2.9	0.5-1.0	.24	.24				10-20	7.4-7.8
	19-60	20-27	1.25-1.40	0.6-2	0.12-0.15	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4
104:														
Shingle----------	0-2	13-23	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	2	4L	86	5.0-15	7.4-8.4
	2-10	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.0-0.5	.28	.28				10-20	7.4-8.4
	10-14	---	---	0.06-0.2	---	---	---	---	---				---	---
105:														
Stoneham----------	0-4	10-20	1.35-1.50	0.6-6	0.10-0.13	0.0-2.9	0.5-2.0	.28	.28	5	3	86	5.0-15	6.6-7.8
	4-13	27-34	1.25-1.40	0.2-0.6	0.17-0.20	0.0-2.9	0.5-1.0	.24	.24				10-20	6.6-8.4
	13-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	7.9-8.4
106:														
Stoneham----------	0-4	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-2.0	.37	.37	5	6	48	5.0-20	6.6-7.8
	4-13	27-34	1.25-1.40	0.2-0.6	0.17-0.20	0.0-2.9	0.5-1.0	.24	.24				10-20	6.6-8.4
	13-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	7.9-8.4
107:														
Stoneham----------	0-4	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-2.0	.37	.37	5	6	48	5.0-20	6.6-7.8
	4-13	27-34	1.25-1.40	0.2-0.6	0.17-0.20	0.0-2.9	0.5-1.0	.24	.24				10-20	6.6-8.4
	13-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	7.9-8.4
108:														
Stoneham----------	0-4	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-2.0	.37	.37	5	6	48	5.0-20	6.6-7.8
	4-13	27-34	1.25-1.40	0.2-0.6	0.17-0.20	0.0-2.9	0.5-1.0	.24	.24				10-20	6.6-8.4
	13-60	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	7.9-8.4
Cushman----------	0-3	15-25	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	3	5	56	10-20	6.6-7.3
	3-15	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.5-1.0	.24	.24				10-20	6.6-8.4
	15-22	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-0.5	.43	.43				5.0-15	7.9-8.4
	22-26	---	---	0.06-0.2	---	---	---	---	---				---	---

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
109:														
Thedalund----------	0-4	15-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	3	4L	86	5.0-15	7.4-8.4
	4-31	18-34	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.0-0.5	.37	.37				5.0-20	7.9-9.0
	31-35	---	---	0.06-2	---	---	---	---	---				---	---
Kim----------	0-4	15-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.5-1.0	.37	.37	5	4L	86	5.0-20	7.4-8.4
	4-16	15-27	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	0.5-1.0	.37	.37				5.0-20	7.4-8.4
	16-60	12-18	1.35-1.50	2-6	0.10-0.15	0.0-2.9	0.0-0.5	.32	.32				4.0-10	7.4-8.4
Shingle----------	0-2	13-23	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	2	4L	86	5.0-15	7.4-8.4
	2-10	27-34	1.25-1.40	0.2-0.6	0.17-0.20	3.0-5.9	0.0-0.5	.28	.28				10-20	7.4-8.4
	10-14	---	---	0.06-0.2	---	---	---	---	---				---	---
110:														
Wagonwheel----------	0-7	15-24	1.25-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.37	.37	5	4L	86	5.0-20	7.3-8.4
	7-13	15-27	1.25-1.50	0.6-2	0.14-0.19	0.0-2.9	0.2-0.8	.37	.37				5.0-20	7.9-8.4
	13-18	15-27	1.25-1.40	0.6-2	0.14-0.19	0.0-2.9	0.2-0.8	.37	.37				5.0-20	7.9-8.4
	18-25	24-35	1.25-1.30	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.32	.32				15-30	7.9-8.4
	25-41	20-35	1.25-1.30	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.32	.32				15-25	7.9-8.4
	41-62	15-20	1.35-1.50	2-6	0.12-0.15	0.0-2.9	0.0-0.5	.28	.28				10-15	7.9-8.4
Stoneham----------	0-4	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	0.5-2.0	.37	.37	5	4L	86	5.0-20	6.6-7.8
	4-9	27-34	1.25-1.40	0.2-0.6	0.17-0.20	0.0-2.9	0.5-1.0	.24	.24				10-20	6.6-8.4
	9-13	27-34	1.25-1.40	0.2-0.6	0.17-0.20	0.0-2.9	0.5-1.0	.24	.24				10-20	6.6-8.4
	13-18	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	7.9-8.4
	18-34	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37				5.0-20	7.9-8.4
	34-60	10-18	1.40-1.50	2-6	0.11-0.15	0.0-2.9	0.0-0.2	.24	.24				5.0-15	7.9-8.4
111:														
Wagonwheel----------	0-7	15-24	1.25-1.50	0.6-2	0.14-0.19	0.0-2.9	0.5-1.0	.37	.37	5	4L	86	5.0-20	7.3-8.4
	7-13	15-27	1.25-1.50	0.6-2	0.14-0.19	0.0-2.9	0.2-0.8	.37	.37				5.0-20	7.9-8.4
	13-18	15-27	1.25-1.40	0.6-2	0.14-0.19	0.0-2.9	0.2-0.8	.37	.37				5.0-20	7.9-8.4
	18-25	24-35	1.25-1.30	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.32	.32				15-30	7.9-8.4
	25-41	20-35	1.25-1.30	0.6-2	0.20-0.22	3.0-5.9	0.0-0.5	.32	.32				15-25	7.9-8.4
	41-62	15-20	1.35-1.50	2-6	0.12-0.15	0.0-2.9	0.0-0.5	.28	.28				10-15	7.9-8.4
Colby----------	0-4	19-26	1.15-1.30	0.6-2	0.15-0.20	0.0-2.9	0.5-2.0	.43	.43	5	4L	86	10-20	7.9-8.4
	4-60	19-26	1.15-1.30	0.6-2	0.15-0.20	0.0-2.9	0.5-1.0	.43	.43				5.0-15	7.9-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
112*:														
Ustic Torriorthents-	0-4	5-25	1.35-1.50	2-6	0.11-0.17	0.0-2.9	1.0-3.0	.20	.20	3	3	86	3.0-20	6.6-8.4
	4-15	5-22	1.40-1.55	2-6	0.09-0.11	0.0-2.9	0.5-1.0	.17	.32				2.0-15	7.4-8.4
	15-19	---	---	0.06-2	---	---	---	---	---				---	---
113:														
Valent----------	0-12	2-6	1.45-1.60	20-20	0.05-0.08	0.0-2.9	0.5-1.0	.17	.17	5	1	220	2.0-5.0	6.6-7.8
	12-60	2-8	1.55-1.65	6-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.10				1.0-5.0	6.6-7.8
114:														
Valent----------	0-12	2-6	1.45-1.60	20-20	0.05-0.08	0.0-2.9	0.5-1.0	.17	.17	5	1	220	2.0-5.0	6.6-7.8
	12-60	2-8	1.55-1.65	6-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.10				1.0-5.0	6.6-7.8
115:														
Valent----------	0-12	3-10	1.50-1.60	6-20	0.07-0.12	0.0-2.9	0.5-1.0	.24	.24	5	2	134	5.0-10	6.6-7.8
	12-60	2-8	1.55-1.65	6-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.10				1.0-5.0	6.6-7.8
116:														
Vona----------	0-3	3-8	1.45-1.60	6-20	0.06-0.09	0.0-2.9	0.5-1.0	.20	.20	5	2	134	2.0-5.0	6.6-7.8
	3-28	8-18	1.40-1.50	2-6	0.12-0.14	0.0-2.9	0.5-1.0	.24	.24				5.0-10	6.6-8.4
	28-60	3-8	1.45-1.60	6-20	0.08-0.11	0.0-2.9	0.0-0.5	.32	.32				1.0-5.0	7.9-9.0
117:														
Vona----------	0-3	5-10	1.35-1.50	2-6	0.13-0.16	0.0-2.9	0.5-1.0	.28	.28	5	3	86	3.0-10	6.6-7.8
	3-28	8-18	1.40-1.50	2-6	0.12-0.14	0.0-2.9	0.5-1.0	.24	.24				5.0-10	6.6-8.4
	28-60	3-8	1.45-1.60	6-20	0.08-0.11	0.0-2.9	0.0-0.5	.32	.32				1.0-5.0	7.9-9.0
118:														
Wages----------	0-4	15-20	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24	5	5	56	10-20	6.6-7.8
	4-14	20-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	1.0-2.0	.20	.20				10-25	7.4-7.8
	14-60	15-35	1.25-1.50	0.2-2	0.12-0.16	0.0-2.9	0.5-1.0	.24	.24				5.0-25	7.9-8.4
119:														
Wages----------	0-4	15-20	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24	5	5	56	10-20	6.6-7.8
	4-14	20-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	1.0-2.0	.20	.20				10-25	7.4-7.8
	14-60	15-35	1.25-1.50	0.2-2	0.12-0.16	0.0-2.9	0.5-1.0	.24	.24				5.0-25	7.9-8.4
120:														
Wages----------	0-4	15-20	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24	5	5	56	10-20	6.6-7.8
	4-14	20-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	1.0-2.0	.20	.20				10-25	7.4-7.8
	14-60	15-35	1.25-1.50	0.2-2	0.12-0.16	0.0-2.9	0.5-1.0	.24	.24				5.0-25	7.9-8.4

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
121:														
Wages----------	0-4	15-20	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24	5	5	56	10-20	6.6-7.8
	4-14	20-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	1.0-2.0	.20	.20				10-25	7.4-7.8
	14-60	15-35	1.25-1.50	0.2-2	0.12-0.16	0.0-2.9	0.5-1.0	.24	.24				5.0-25	7.9-8.4
Altvan----------	0-5	15-25	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28	4	5	56	10-20	6.6-7.8
	5-23	20-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	0.5-1.0	.20	.20				10-25	6.6-7.8
	23-41	20-30	1.25-1.40	0.2-2	0.14-0.18	0.0-2.9	0.5-1.0	.20	.20				10-20	7.4-8.4
	41-60	0-5	1.45-1.60	20-20	0.02-0.06	0.0-2.9	0.0-0.5	.05	.10				0.0-5.0	7.4-8.4
122:														
Wages----------	0-4	15-20	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24	5	5	56	10-20	6.6-7.8
	4-14	20-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	1.0-2.0	.20	.20				10-25	7.4-7.8
	14-60	15-35	1.25-1.50	0.2-2	0.12-0.16	0.0-2.9	0.5-1.0	.24	.24				5.0-25	7.9-8.4
Manter----------	0-10	10-20	1.35-1.40	2-6	0.12-0.16	0.0-2.9	2.0-4.0	.20	.20	5	3	86	15-20	6.6-7.8
	10-24	9-18	1.40-1.50	2-6	0.11-0.14	0.0-2.9	1.0-2.0	.15	.15				10-20	6.6-7.8
	24-60	5-15	1.45-1.60	2-6	0.08-0.14	0.0-2.9	0.0-1.0	.15	.15				5.0-15	7.9-8.4
123:														
Wages----------	0-4	15-20	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24	5	5	56	10-20	6.6-7.8
	4-14	20-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	1.0-2.0	.20	.20				10-25	7.4-7.8
	14-60	15-35	1.25-1.50	0.2-2	0.12-0.16	0.0-2.9	0.5-1.0	.24	.24				5.0-25	7.9-8.4
Rosebud----------	0-5	8-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	3	5	56	5.0-20	6.6-7.3
	5-18	12-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28				5.0-20	6.6-8.4
	18-33	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				5.0-20	7.9-8.4
	33-37	---	---	0.06-0.2	---	---	---	---	---				---	---
124:														
Wages----------	0-4	15-20	1.25-1.40	0.6-6	0.14-0.18	0.0-2.9	2.0-4.0	.24	.24	5	5	56	10-20	6.6-7.8
	4-14	20-35	1.25-1.40	0.2-2	0.14-0.21	0.0-2.9	1.0-2.0	.20	.20				10-25	7.4-7.8
	14-60	15-35	1.25-1.50	0.2-2	0.12-0.16	0.0-2.9	0.5-1.0	.24	.24				5.0-25	7.9-8.4
Rosebud----------	0-5	8-20	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	3	5	56	5.0-20	6.6-7.3
	5-18	12-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	1.0-2.0	.28	.28				5.0-20	6.6-8.4
	18-33	18-27	1.25-1.40	0.6-2	0.14-0.17	0.0-2.9	0.0-1.0	.37	.37				5.0-20	7.9-8.4
	33-37	---	---	0.06-0.2	---	---	---	---	---				---	---

Table J.--Physical and Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea-bility (Ksat)	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index	Cation exchange capacity	Soil reaction
	In	Pct	g/cc	In/hr	In/in	Pct	Pct						meq/100 g	pH
125:														
Weld----------	0-7	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	6	48	15-30	6.6-7.8
	7-18	35-50	1.30-1.40	0.06-0.2	0.18-0.20	6.0-8.9	0.5-2.0	.28	.28				20-30	6.6-7.8
	18-32	20-35	1.25-1.35	0.6-2	0.16-0.18	3.0-5.9	0.5-1.0	.28	.28				20-30	7.4-9.0
	32-60	15-25	1.25-1.40	0.6-2	0.12-0.18	0.0-2.9	0.5-1.0	.28	.28				15-25	7.4-9.0
126:														
Weld----------	0-7	15-27	1.25-1.40	0.6-6	0.14-0.17	0.0-2.9	2.0-4.0	.24	.24	5	6	48	15-30	6.6-7.8
	7-18	35-50	1.30-1.40	0.06-0.2	0.18-0.20	6.0-8.9	0.5-2.0	.28	.28				20-30	6.6-7.8
	18-32	20-35	1.25-1.35	0.6-2	0.16-0.18	3.0-5.9	0.5-1.0	.28	.28				20-30	7.4-9.0
	32-60	15-25	1.25-1.40	0.6-2	0.12-0.18	0.0-2.9	0.5-1.0	.28	.28				15-25	7.4-9.0
127:														
Westplain----------	0-8	35-40	1.15-1.30	0.06-0.2	0.15-0.18	0.0-2.9	4.0-6.0	.20	.20	3	4L	86	25-45	7.9-8.4
	8-14	27-40	1.25-1.40	0.06-0.2	0.15-0.18	3.0-5.9	2.0-4.0	.17	.17				20-40	7.9-8.4
	14-17	27-38	1.25-1.40	0.06-0.2	0.07-0.09	0.0-2.9	0.5-1.0	.10	.24				15-30	7.9-8.4
	17-60	0-5	1.45-1.60	20-20	0.02-0.03	0.0-2.9	0.0-0.5	.05	.20				0.0-5.0	7.4-7.8
128:														
Westplain----------	0-8	35-40	1.15-1.30	0.06-0.2	0.15-0.18	0.0-2.9	4.0-6.0	.20	.20	3	4L	86	25-45	7.9-8.4
	8-14	27-40	1.25-1.40	0.06-0.2	0.15-0.18	3.0-5.9	2.0-4.0	.17	.17				20-40	7.9-8.4
	14-17	27-38	1.25-1.40	0.06-0.2	0.07-0.09	0.0-2.9	0.5-1.0	.10	.24				15-30	7.9-8.4
	17-60	0-5	1.45-1.60	20-20	0.02-0.03	0.0-2.9	0.0-0.5	.05	.20				0.0-5.0	7.4-7.8
Alda----------	0-10	10-20	1.25-1.40	0.6-6	0.13-0.16	0.0-2.9	2.0-4.0	.24	.24	4	4L	86	10-20	6.6-8.4
	10-34	5-15	1.25-1.60	2-20	0.05-0.16	0.0-2.9	0.5-1.0	.20	.20				2.0-10	7.4-8.4
	34-60	0-5	1.45-1.60	20-20	0.01-0.03	0.0-2.9	0.0-0.5	.05	.20				0.0-5.0	6.6-8.4
W:														
Water----------	---	---	---	---	---	---	---	---	---	-	---	---	---	---