United States
Department of
Agriculture

Soil
Conservation
Service

In cooperation with the
Regents of the University
of California (Agricultural
Experiment Station) and
the California Department
of Conservation

Soil Survey of San Joaquin County, California

D—029479

D-029479

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS

(The symbol < means less than; > means more than. Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Organic matter" apply only to the surface layer. Absence of an entry indicates that data were not available or were not estimated)

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
101---------- Acampo	0-19	7-18	1.50-1.60	2.0-6.0	0.11-0.13	6.1-7.8	<2	Low--------	0.32	3	3	1-3
	19-47	7-15	1.50-1.65	2.0-6.0	0.10-0.14	6.6-8.4	<2	Low--------	0.37			
	47-49	---	---	---	---	---	---	Low--------	----			
	49-60	---	---	---	---	---	---	Low--------	----			
102---------- Alamo	0-12	40-60	1.25-1.40	0.06-0.2	0.13-0.16	6.1-7.8	<2	High-------	0.24	2	8	1-4
	12-33	40-60	1.25-1.40	<0.06	0.12-0.15	6.6-8.4	<2	High-------	0.24			
	33-60	---	---	---	---	---	---	----------	----			
103*, 104*:												
Alo----------	0-16	40-55	1.25-1.45	0.06-0.2	0.14-0.16	6.6-7.8	<2	High-------	0.24	2	8	1-3
	16-34	35-55	1.20-1.35	0.06-0.2	0.14-0.17	6.6-8.4	<2	High-------	0.24			
	34	---	---	---	---	---	---	----------	----			
Vaquero----------	0-21	40-60	1.35-1.50	0.06-0.2	0.13-0.16	6.6-8.4	<2	High-------	0.20	2	8	<2
	21-25	40-60	1.35-1.50	0.06-0.2	0.09-0.17	7.4-9.0	4-16	High-------	0.28			
	25	---	---	---	---	---	---	----------	----			
105*:												
Amador----------	0-4	12-25	1.45-1.55	0.6-2.0	0.14-0.16	5.1-6.5	<2	Low--------	0.37	1	8	<2
	4-15	12-25	1.50-1.60	0.6-2.0	0.12-0.16	5.1-6.5	<2	Low--------	0.37			
	15	---	---	---	---	---	---	----------	----			
Lithic Xerorthents.												
106---------- Archerdale	0-18	5-15	1.45-1.55	0.6-2.0	0.14-0.17	6.1-7.3	<2	Low--------	0.37	5	3	1-2
	18-38	30-40	1.40-1.50	0.2-0.6	0.18-0.20	6.6-7.3	<2	High-------	0.28			
	38-60	35-50	1.25-1.45	0.06-0.2	0.14-0.16	6.6-7.3	<2	High-------	0.32			
107---------- Archerdale	0-8	30-40	1.40-1.50	0.2-0.6	0.18-0.20	6.6-7.3	<2	High-------	0.28	5	8	1-4
	8-35	35-50	1.25-1.45	0.06-0.2	0.14-0.16	6.6-7.3	<2	High-------	0.32			
	35-60	35-50	1.25-1.45	0.06-0.2	0.14-0.16	6.6-7.3	<2	High-------	0.32			
108. Arents												
109---------- Bisgani	0-11	2-10	1.60-1.70	6.0-20	0.06-0.08	7.4-8.4	<2	Low--------	0.17	5	2	1-3
	11-60	2-10	1.60-1.70	6.0-20	0.06-0.08	7.4-8.4	<4	Low--------	0.17			
110---------- Boggiano	0-23	27-35	1.40-1.50	0.2-0.6	0.17-0.20	6.6-7.8	<2	Moderate	0.37	3	8	1-3
	23-48	20-30	1.45-1.55	0.6-2.0	0.14-0.19	7.4-7.8	<2	Moderate	0.37			
	48-60	---	---	---	---	---	---	----------	----			
111---------- Cruella	0-18	12-20	1.50-1.65	2.0-6.0	0.11-0.13	6.1-7.3	<2	Low--------	0.32	5	8	.5-1
	18-31	18-30	1.45-1.60	0.2-0.6	0.13-0.17	6.1-7.3	<2	Moderate	0.28			
	31-67	25-35	1.45-1.60	0.2-0.6	0.15-0.18	6.1-7.3	<2	Moderate	0.24			
112---------- Cruella	0-8	12-20	1.50-1.65	2.0-6.0	0.11-0.13	6.1-7.3	<2	Low--------	0.32	5	8	.5-1
	8-42	18-30	1.45-1.60	0.2-0.6	0.13-0.17	6.1-7.3	<2	Moderate	0.28			
	42-60	30-40	1.50-1.65	0.06-0.2	0.07-0.09	6.1-7.3	<2	Moderate	0.24			
---------- Dilla	0-11	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	8	.5-1
	11-29	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32			
	29-60	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
114*, 115*:												
Calla----------	0-18	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	8	.5-1
	18-30	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32			
	30-60	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32			
Carbona---------	0-6	35-40	1.35-1.50	0.06-0.2	0.15-0.18	7.4-8.4	<4	Moderate	0.28	5	8	2-5
	6-25	35-45	1.30-1.50	0.06-0.2	0.13-0.18	7.4-8.4	<4	High------	0.32			
	25-36	35-45	1.30-1.50	0.06-0.2	0.13-0.18	7.9-8.4	<4	High------	0.32			
	36-62	27-40	1.40-1.50	0.2-0.6	0.15-0.18	7.9-8.4	<4	Moderate	0.32			
116*:												
Calla----------	0-11	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	8	.5-1
	11-29	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32			
	29-60	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32			
Pleito----------	0-16	27-35	1.35-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	8	1-4
	16-60	27-35	1.40-1.55	0.2-0.6	0.16-0.18	7.9-8.4	<2	Moderate	0.32			
117---------- Capay	0-6	35-40	1.35-1.50	0.06-0.2	0.17-0.19	6.6-8.4	<2	High------	0.28	5	8	1-2
	6-20	40-60	1.30-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	0.24			
	20-60	35-40	1.40-1.55	0.06-0.2	0.17-0.19	6.6-8.4	<2	High------	0.28			
118, 119--------- Capay	0-20	40-60	1.30-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	0.24	5	8	1-2
	20-60	40-60	1.30-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	0.24			
120---------- Capay	0-20	40-60	1.35-1.50	0.06-0.2	0.10-0.15	6.6-8.4	4-8	High------	0.32	5	8	1-2
	20-44	40-60	1.35-1.50	0.06-0.2	0.10-0.15	7.9-9.0	4-8	High------	0.37			
	44-60	35-40	1.40-1.55	0.06-0.2	0.13-0.17	7.9-9.0	4-8	High------	0.37			
121---------- Capay	0-20	40-60	1.30-1.50	0.06-0.2	0.13-0.16	6.6-8.4	<4	High------	0.24	5	8	1-2
	20-44	40-60	1.35-1.50	0.06-0.2	0.13-0.16	6.6-8.4	<4	High------	0.24			
	44-60	35-40	1.40-1.55	0.06-0.2	0.16-0.19	6.6-8.4	<4	High------	0.28			
122*:												
Capay----------	0-20	40-60	1.30-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	0.24	5	8	1-2
	20-60	40-60	1.30-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	0.24			
Urban land.												
123---------- Carbona	0-6	35-40	1.35-1.50	0.06-0.2	0.15-0.18	7.4-8.4	<4	Moderate	0.28	5	8	2-5
	6-25	35-45	1.30-1.50	0.06-0.2	0.13-0.18	7.4-8.4	<4	High------	0.32			
	25-36	35-45	1.30-1.50	0.06-0.2	0.13-0.18	7.9-8.4	<4	High------	0.32			
	36-62	27-40	1.40-1.50	0.2-0.6	0.15-0.18	7.9-8.4	<4	Moderate	0.32			
124*, 125*:												
Carbona----------	0-6	35-40	1.35-1.50	0.06-0.2	0.15-0.18	7.4-8.4	<4	Moderate	0.28	5	8	[illegible]
	6-25	35-45	1.30-1.50	0.06-0.2	0.13-0.18	6.6-8.4	<4	High------	0.32			
	25-36	35-45	1.30-1.50	0.06-0.2	0.13-0.18	7.9-8.4	<4	High------	0.32			
	36-62	27-40	1.40-1.50	0.2-0.6	0.15-0.18	7.9-8.4	<4	Moderate	0.32			
Orognen----------	0-11	27-35	1.40-1.55	0.2-0.6	0.12-0.15	6.6-7.8	<2	Moderate	0.24	2	[illegible]	[illegible]
	11-30	38-55	1.35-1.50	<0.06	0.06-0.08	6.6-8.4	<2	High------	0.20			
	30-60	35-60	1.35-1.50	<0.06	0.06-0.08	7.4-8.4	<2	High------	0.24			
126*:												
Carbona----------	0-6	35-40	1.35-1.50	0.06-0.2	0.15-0.18	7.4-8.4	<4	Moderate	0.28	5	[illegible]	
	6-25	35-45	1.30-1.50	0.06-0.2	0.13-0.18	7.4-8.4	<4	High------	0.32			
	25-36	35-45	1.30-1.50	0.06-0.2	0.13-0.18	7.9-8.4	<4	High------	0.32			
	36-62	27-40	1.40-1.50	0.2-0.6	0.15-0.18	7.9-8.4	<4	Moderate	0.32			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea- bility	Available water capacity	Soil reaction	Salinity	Shrink- swell potential	Erosion factors K	Erosion factors T	Wind erodi- bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
126*:												
Carbona, bedrock substratum-----	0-19	35-40	1.35-1.50	0.06-0.2	0.15-0.18	7.4-8.4	<4	High------	0.28	3	8	2-5
	19-41	35-45	1.30-1.50	0.06-0.2	0.13-0.18	7.4-8.4	<4	High------	0.32			
	41-57	30-40	1.40-1.50	0.2-0.6	0.15-0.18	7.9-8.4	<4	Moderate	0.32			
	57	---	---	---	---	---	---	----------	----			
127---------- Chuloak	0-19	10-20	1.50-1.60	2.0-6.0	0.09-0.11	5.6-6.5	<2	Low-------	0.20	5	3	1-2
	19-44	18-25	1.50-1.60	0.2-0.6	0.13-0.15	6.1-7.3	<2	Moderate	0.24			
	44-55	5-15	1.50-1.60	2.0-6.0	0.11-0.13	6.6-7.3	<2	Low-------	0.28			
	55-64	5-10	1.60-1.70	6.0-20	0.06-0.08	6.6-7.3	<2	Low-------	0.10			
128---------- Cogna	0-18	8-18	1.50-1.60	2.0-6.0	0.13-0.15	6.1-7.8	<2	Low-------	0.37	5	8	.5-1
	18-38	20-27	1.45-1.55	0.6-2.0	0.15-0.17	6.1-7.3	<2	Low-------	0.37			
	38-60	20-30	1.45-1.55	0.6-2.0	0.14-0.19	7.4-8.4	<2	Moderate	0.43			
129---------- Cogna	0-25	20-27	1.45-1.55	0.6-2.0	0.15-0.17	6.1-7.3	<2	Low-------	0.37	5	8	1-3
	25-64	20-30	1.45-1.55	0.6-2.0	0.14-0.19	7.4-8.4	<2	Moderate	0.43			
130---------- Columbia	0-12	8-18	1.50-1.60	2.0-6.0	0.10-0.12	6.1-7.8	<2	Low-------	0.32	5	7	.5-2
	12-60	10-18	1.50-1.65	2.0-6.0	0.08-0.11	6.1-7.8	<2	Low-------	0.32			
131---------- Columbia	0-12	8-18	1.50-1.60	2.0-6.0	0.10-0.12	6.1-7.8	<2	Low-------	0.32	5	7	.5-2
	12-60	10-18	1.50-1.60	2.0-6.0	0.10-0.12	6.1-7.8	<2	Low-------	0.32			
132---------- Columbia	0-12	8-18	1.50-1.60	2.0-6.0	0.10-0.12	6.1-7.8	<2	Low-------	0.32	5	7	.5-2
	12-60	10-18	1.50-1.65	2.0-6.0	0.08-0.11	6.1-7.8	<2	Low-------	0.32			
133---------- Columbia	0-20	8-18	1.50-1.60	2.0-6.0	0.10-0.12	6.1-7.8	<2	Low-------	0.32	5	7	.5-2
	20-48	10-18	1.50-1.60	2.0-6.0	0.10-0.12	6.1-7.8	<2	Low-------	0.32			
	48-60	35-60	1.45-1.55	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	0.28			
134---------- Cometa	0-22	10-20	1.50-1.70	0.6-2.0	0.10-0.13	5.6-6.5	<2	Low-------	0.32	2	8	.5-1
	22-36	35-50	1.45-1.65	<0.06	0.04-0.06	6.1-7.3	<2	High------	0.24			
	36-60	10-30	1.80-2.00	<0.06	0.08-0.10	6.6-7.3	<2	Low-------	0.28			
35*:												
Corning---------	0-21	10-25	1.45-1.55	0.6-2.0	0.10-0.14	5.1-6.5	<2	Low-------	0.20	2	8	.5-1
	21-36	60-70	1.45-1.65	<0.06	0.04-0.06	4.5-6.5	<2	High------	0.28			
	36-60	18-30	1.50-1.60	0.06-0.2	0.09-0.12	5.1-7.3	<2	Moderate	0.24			
dding---------	0-4	10-25	1.45-1.55	0.6-2.0	0.10-0.14	5.1-6.5	<2	Low-------	0.24	2	8	<2
	4-15	18-30	1.45-1.55	0.2-0.6	0.11-0.14	5.1-6.5	<2	Moderate	0.24			
	15-25	35-60	1.35-1.60	<0.06	0.04-0.06	5.1-6.5	<2	High------	0.28			
	25-60	---	---	---	---	---	---	----------	----			
*:												
rning---------	0-12	10-25	1.45-1.55	0.6-2.0	0.10-0.14	5.1-6.5	<2	Low-------	0.20	2	8	.5-1
	12-25	60-70	1.45-1.65	<0.06	0.04-0.06	4.5-6.5	<2	High------	0.28			
	25-67	18-30	1.50-1.60	0.06-2.0	0.06-0.12	5.1-7.3	<2	Moderate	0.24			
dding---------	0-4	10-25	1.45-1.55	0.6-2.0	0.10-0.14	5.1-6.5	<2	Low-------	0.20	2	8	<2
	4-15	18-30	1.45-1.55	0.2-0.6	0.11-0.14	5.1-6.5	<2	Moderate	0.24			
	15-25	35-60	1.35-1.60	<0.06	0.04-0.06	5.1-6.5	<2	High------	0.28			
	25-60	---	---	---	---	---	---	----------	----			
----------	0-18	10-20	1.45-1.60	2.0-6.0	0.07-0.14	6.6-8.4	<2	Low-------	0.20	5	8	<1
tina	18-60	5-25	1.50-1.70	2.0-6.0	0.06-0.08	6.6-8.4	<2	Low-------	0.10			

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TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
138, 139--------- Cosumnes	0-7	27-35	1.40-1.50	0.2-0.6	0.17-0.19	6.1-7.8	<2	Moderate	0.37	5	8	<2
	7-21	27-55	1.35-1.50	0.06-0.2	0.15-0.19	6.1-7.8	<2	High------	0.32			
	21-47	35-55	1.35-1.50	0.06-0.2	0.14-0.17	6.6-8.4	<2	High------	0.24			
	47-63	30-45	1.35-1.50	0.06-0.2	0.14-0.17	7.4-8.4	<2	High------	0.28			
140---------- Coyotecreek	0-23	18-27	1.45-1.55	0.6-2.0	0.18-0.20	6.1-7.3	<2	Low-------	0.43	5	8	2-3
	23-36	18-27	1.45-1.55	0.2-0.6	0.17-0.20	6.1-7.8	<2	Low-------	0.37			
	36-69	15-30	1.40-1.60	0.2-0.6	0.15-0.19	6.6-7.8	<2	Low-------	0.32			
141---------- Delhi	0-10	0-5	1.60-1.70	6.0-20	0.05-0.08	6.1-7.8	<2	Low-------	0.20	5	1	<1
	10-60	0-5	1.60-1.70	6.0-20	0.05-0.10	6.1-7.8	<2	Low-------	0.20			
142---------- Delhi	0-16	0-5	1.60-1.70	6.0-20	0.06-0.10	6.1-7.8	<2	Low-------	0.24	5	2	<1
	16-26	0-5	1.60-1.70	6.0-20	0.06-0.10	6.1-7.8	<2	Low-------	0.24			
	26-60	0-5	1.60-1.70	6.0-20	0.05-0.10	6.1-7.8	<2	Low-------	0.20			
143*:												
Delhi----------	0-16	0-5	1.60-1.70	6.0-20	0.06-0.10	6.1-7.8	<2	Low-------	0.24	5	2	<1
	16-26	0-5	1.60-1.70	6.0-20	0.06-0.10	6.1-7.8	<2	Low-------	0.24			
	26-60	0-5	1.60-1.70	6.0-20	0.05-0.10	6.1-7.8	<2	Low-------	0.20			
Urban land.												
144---------- Dello	0-20	0-7	1.60-1.70	6.0-20	0.06-0.08	6.6-8.4	<2	Low-------	0.10	5	1	<1
	20-60	0-7	1.60-1.70	6.0-20	0.06-0.08	6.6-8.4	<2	Low-------	0.10			
145---------- Dello	0-7	0-10	1.60-1.70	6.0-20	0.07-0.10	6.6-8.4	<2	Low-------	0.15	5	2	<1
	7-60	0-7	1.60-1.70	6.0-20	0.06-0.08	6.6-8.4	<2	Low-------	0.10			
146---------- Dello	0-10	0-10	1.60-1.70	6.0-20	0.07-0.10	6.6-8.4	<2	Low-------	0.15	5	2	<1
	10-60	0-7	1.60-1.70	6.0-20	0.06-0.08	6.6-8.4	<2	Low-------	0.10			
147---------- Dello	0-16	5-15	1.50-1.60	2.0-6.0	0.10-0.13	6.6-8.4	<2	Low-------	0.24	5	3	<1
	16-43	0-10	1.60-1.70	6.0-20	0.06-0.10	6.6-8.4	<2	Low-------	0.15			
	43-60	35-60	1.40-1.55	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	0.28			
148---------- Dello	0-12	30-40	1.40-1.50	0.2-0.6	0.17-0.18	6.6-8.4	<2	Moderate	0.28	5	8	<1
	12-60	0-7	1.60-1.70	6.0-20	0.06-0.08	6.6-8.4	<2	Low-------	0.10			
149---------- Devries	0-13	7-18	1.50-1.60	2.0-6.0	0.10-0.13	6.6-8.4	<2	Low-------	0.24	2	3	<1
	13-28	7-18	1.50-1.60	2.0-6.0	0.11-0.14	6.6-8.4	<2	Low-------	0.28			
	28-80	---	---	---	---	---	---	----------	----			
150*, 151*. Dumps												
152---------- Egbert	0-8	30-40	1.10-1.20	0.2-0.6	0.18-0.20	6.1-7.3	<2	Moderate	0.28	5	3	10-20
	8-19	35-50	1.30-1.40	0.06-0.2	0.15-0.18	6.1-7.8	<2	High------	0.24			
	19-60	35-50	1.30-1.40	0.06-0.2	0.15-0.18	6.1-8.4	<2	High------	0.24			
153---------- Egbert	0-8	35-40	1.30-1.40	0.2-0.6	0.17-0.19	6.1-7.3	<2	Moderate	0.28	5	4	[illegible]
	8-19	35-50	1.30-1.40	0.06-0.2	0.15-0.18	6.1-7.8	<2	High------	0.24			
	19-60	35-50	1.30-1.40	0.06-0.2	0.15-0.18	6.1-8.4	<2	High------	0.24			
154---------- Egbert	0-14	35-40	1.30-1.40	0.2-0.6	0.18-0.20	6.1-7.8	<2	Moderate	0.28	5	4	[illegible]
	14-40	35-50	1.30-1.40	0.06-0.2	0.18-0.20	6.1-7.8	<2	High------	0.28			
	40-60	0-10	1.60-1.75	6.0-20	0.06-0.08	7.4-7.8	<2	Low-------	0.20			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea- bility	Available water capacity	Soil reaction	Salinity	Shrink- swell potential	Erosion factors K	Erosion factors T	Wind erodi- bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
155*:												
Egbert----------	0-6	35-40	1.30-1.40	0.2-0.6	0.17-0.19	6.1-7.3	<2	Moderate	0.28	5	4	2-10
	6-31	35-50	1.30-1.40	0.06-0.2	0.15-0.18	6.1-7.8	<2	High------	0.24			
	31-60	35-50	1.30-1.40	0.06-0.2	0.15-0.18	6.1-8.4	<2	High------	0.24			
Urban land.												
156---------- El Solyo	0-10	30-40	1.40-1.50	0.2-0.6	0.17-0.20	6.6-7.8	<2	Moderate	0.43	5	8	<2
	10-60	35-50	1.35-1.50	0.06-0.2	0.14-0.19	7.4-8.4	<4	High------	0.37			
157---------- Exeter	0-26	10-20	1.50-1.60	0.6-2.0	0.10-0.13	6.1-7.3	<2	Low-------	0.32	2	7	0-1
	26-33	18-30	1.40-1.50	0.6-2.0	0.14-0.17	6.6-7.8	<2	Moderate	0.32			
	33-60	---	---	---	---	---	---	----------	----			
158---------- Finrod	0-8	30-40	1.40-1.50	0.2-0.6	0.18-0.20	6.6-7.8	<2	High------	0.28	3	8	1-3
	8-33	35-50	1.25-1.45	0.06-0.2	0.14-0.16	6.6-7.8	<2	High------	0.32			
	33-48	35-50	1.25-1.45	0.06-0.2	0.14-0.16	7.4-8.4	<2	High------	0.32			
	48-60	---	---	---	---	---	---	----------	----			
159. Fluvaquents												
160---------- Galt	0-25	40-60	1.35-1.50	0.06-0.2	0.12-0.15	6.6-7.3	<2	High------	0.24	2	8	1-2
	25-34	40-60	1.30-1.50	0.06-0.2	0.12-0.14	6.6-8.4	<2	High------	0.24			
	34-60	---	---	---	---	---	---	----------	----			
161---------- Galt	0-20	40-60	1.35-1.50	0.06-0.2	0.12-0.15	6.6-7.3	<2	High------	0.24	2	8	1-2
	20-34	40-60	1.30-1.50	0.06-0.2	0.12-0.14	6.6-8.4	<2	High------	0.24			
	34-60	---	---	---	---	---	---	----------	----			
162*:												
Galt----------	0-25	40-60	1.35-1.50	0.06-0.2	0.12-0.15	6.1-7.3	<2	High------	0.24	2	8	1-2
	25-34	40-60	1.30-1.50	0.06-0.2	0.12-0.14	6.6-8.4	<2	High------	0.24			
	34-60	---	---	---	---	---	---	----------	----			
Urban land.												
163*:												
Gonzaga----------	0-5	15-27	1.45-1.55	0.6-2.0	0.13-0.16	6.1-7.3	<2	Low-------	0.32	2	8	1-5
	5-10	15-30	1.40-1.55	0.2-0.6	0.14-0.18	6.6-7.3	<2	Moderate	0.32			
	10-29	35-55	1.35-1.50	<0.06	0.06-0.08	6.6-7.8	<2	High------	0.28			
	29	---	---	---	---	---	---	----------	----			
Franciscan------	0-13	10-20	1.45-1.55	0.6-2.0	0.13-0.16	6.1-7.3	<2	Low-------	0.28	2	8	2-4
	13-36	20-35	1.40-1.55	0.2-0.6	0.12-0.16	6.1-7.3	<2	Moderate	0.32			
	36	---	---	---	---	---	---	----------	----			
164*, 165*:												
Gonzaga----------	0-5	15-27	1.45-1.55	0.6-2.0	0.13-0.16	6.1-7.3	<2	Low-------	0.32	2	8	1-5
	5-10	15-30	1.40-1.55	0.2-0.6	0.14-0.18	6.6-7.3	<2	Moderate	0.32			
	10-29	35-55	1.35-1.50	<0.06	0.06-0.08	6.6-7.8	<2	High------	0.28			
	29	---	---	---	---	---	---	----------	----			
Honker----------	0-5	15-27	1.45-1.55	0.6-2.0	0.13-0.16	6.1-7.3	<2	Moderate	0.32	2	8	1-3
	5-33	35-55	1.35-1.55	<0.06	0.06-0.08	6.6-7.8	<2	High------	0.15			
	33	---	---	---	---	---	---	----------	----			
Franciscan------	0-13	10-20	1.45-1.55	0.6-2.0	0.13-0.16	6.1-7.3	<2	Low-------	0.28	2	8	2-4
	13-36	20-35	1.40-1.55	0.2-0.6	0.12-0.16	6.1-7.3	<2	Moderate	0.32			
	36	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
166---------- Grangeville	0-20	8-18	1.50-1.60	2.0-6.0	0.12-0.14	6.6-7.8	<2	Low--------	0.32	5	7	1-6
	20-60	8-18	1.55-1.70	2.0-6.0	0.08-0.10	6.6-8.4	<2	Low--------	0.32			
167---------- Grangeville	0-16	27-35	1.40-1.50	0.2-0.6	0.17-0.18	6.6-7.8	<2	Moderate	0.32	5	8	1-6
	16-32	8-18	1.50-1.60	2.0-6.0	0.12-0.15	6.6-8.4	<2	Low--------	0.32			
	32-60	8-18	1.55-1.70	2.0-6.0	0.08-0.10	6.6-8.4	<2	Low--------	0.32			
168, 169--------- Guard	0-15	27-35	1.40-1.50	0.2-0.6	0.17-0.19	7.9-8.4	<2	Moderate	0.28	5	8	2-5
	15-72	20-35	1.40-1.55	0.06-0.2	0.11-0.14	7.9-8.4	<2	Moderate	0.24			
170---------- Hicksville	0-15	18-27	1.45-1.55	0.6-2.0	0.16-0.18	5.6-6.5	<2	Low--------	0.32	5	8	1-3
	15-36	27-35	1.40-1.55	0.2-0.6	0.17-0.20	6.1-7.8	<2	Moderate	0.28			
	36-60	15-25	1.50-1.60	0.6-2.0	0.11-0.15	6.6-7.8	<2	Low--------	0.20			
171---------- Hicksville	0-8	18-27	1.45-1.55	0.6-2.0	0.14-0.16	5.6-6.5	<2	Low--------	0.32	3	8	1-3
	8-26	27-35	1.40-1.55	0.2-0.6	0.16-0.19	6.1-7.8	<2	Moderate	0.28			
	26-44	18-30	1.50-1.65	0.2-0.6	0.09-0.13	6.6-7.8	<2	Low--------	0.10			
	44	---	---	---	---	---	---	----------	----			
172---------- Hicksville	0-13	18-27	1.45-1.55	0.6-2.0	0.12-0.14	5.6-6.5	<2	Low--------	0.17	5	8	1-3
	13-36	27-35	1.40-1.55	0.2-0.6	0.13-0.15	6.1-7.8	<2	Moderate	0.15			
	36-60	18-30	1.45-1.70	0.2-0.6	0.07-0.12	6.6-7.8	<2	Low--------	0.10			
173---------- Hollenbeck	0-10	40-60	1.30-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High-------	0.24	3	8	1-2
	10-37	40-60	1.35-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High-------	0.28			
	37-42	30-40	1.40-1.55	0.2-0.6	0.17-0.20	6.6-8.4	<2	Moderate	0.37			
	42-60	---	---	---	---	---	---	----------	----			
174---------- Hollenbeck	0-32	40-60	1.30-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High-------	0.24	3	8	1-2
	32-55	40-60	1.35-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High-------	0.28			
	55-60	---	---	---	---	---	---	----------	----			
175---------- Honcut	0-21	7-12	1.55-1.65	2.0-6.0	0.10-0.12	6.1-7.3	<2	Low--------	0.28	5	3	.5-1
	21-60	7-15	1.55-1.65	2.0-6.0	0.10-0.12	6.1-7.8	<2	Low--------	0.28			
176*:												
Honker----------	0-5	15-27	1.45-1.55	0.6-2.0	0.13-0.16	6.1-7.3	<2	Moderate	0.32	2	8	1-3
	5-33	35-55	1.35-1.55	<0.06	0.06-0.08	6.6-7.8	<2	High-------	0.15			
	33	---	---	---	---	---	---	----------	----			
Vallecitos------	0-4	15-27	1.45-1.55	0.6-2.0	0.11-0.13	6.6-7.3	<2	Low--------	0.24	1	8	1-2
	4-20	35-50	1.35-1.50	0.06-0.2	0.09-0.11	6.6-7.3	<2	High-------	0.20			
	20	---	---	---	---	---	---	----------	----			
Gonzaga---------	0-3	15-27	1.45-1.55	0.6-2.0	0.13-0.16	6.1-7.3	<2	Low--------	0.32	2	8	1-3
	3-7	15-30	1.40-1.55	0.2-0.6	0.14-0.18	6.6-7.3	<2	Moderate	0.32			
	7-34	35-55	1.35-1.50	<0.06	0.06-0.08	6.6-7.8	<2	High-------	0.28			
	34	---	---	---	---	---	---	----------	----			
177*, 178*:												
Honker----------	0-5	15-27	1.45-1.55	0.6-2.0	0.13-0.16	6.1-7.3	<2	Moderate	0.32	2	8	[illegible]
	5-33	35-55	1.35-1.55	<0.06	0.06-0.08	6.6-7.8	<2	High-------	0.15			
	33	---	---	---	---	---	---	----------	----			
Vallecitos------	0-4	15-27	1.45-1.55	0.6-2.0	0.11-0.13	6.6-7.3	<2	Low--------	0.24	1	8	[illegible]
	4-20	35-50	1.35-1.50	0.06-0.2	0.09-0.11	6.6-7.3	<2	High-------	0.20			
	20	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
177*, 178*:												
Honker, eroded--	0-7	15-27	1.45-1.55	0.2-0.6	0.11-0.14	6.6-7.3	<2	Moderate	0.20	2	8	1-3
	7-18	20-35	1.40-1.55	0.2-0.6	0.11-0.14	6.6-7.3	<2	Moderate	0.20			
	18-31	40-55	1.35-1.55	<0.06	0.06-0.08	6.6-7.8	<2	High------	0.15			
	31	---	---	---	---	---	---	----------	----			
179----------	0-15	27-35	1.40-1.50	0.2-0.6	0.18-0.19	<5.1	<2	Moderate	0.37	5	6	.5-1
Itano	15-34	18-35	1.40-1.55	0.2-0.6	0.15-0.19	4.5-5.5	<2	Moderate	0.43			
	34-60	18-35	1.45-1.55	0.2-0.6	0.15-0.19	<5.1	<2	Moderate	0.43			
180----------	0-22	40-60	1.35-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	0.24	2	8	2-5
Jacktone	22-34	35-60	1.35-1.50	0.06-0.2	0.14-0.16	7.9-9.0	<2	High------	0.24			
	34-37	---	---	---	---	---	---	----------	----			
	37-46	20-30	1.45-1.60	0.2-0.6	0.13-0.17	7.9-9.0	<2	Moderate	0.32			
	46-60	---	---	---	---	---	---	----------	----			
181*:												
Jacktone--------	0-22	40-60	1.35-1.50	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	0.24	2	8	2-5
	22-34	35-60	1.35-1.50	0.06-0.2	0.14-0.16	7.9-9.0	<2	High------	0.24			
	34-37	---	---	---	---	---	---	----------	----			
	37-46	20-30	1.45-1.60	0.2-0.6	0.13-0.17	7.9-9.0	<2	Moderate	0.32			
	46-60	---	---	---	---	---	---	----------	----			
Urban land.												
182, 183---------	0-5	15-25	1.45-1.55	0.6-2.0	0.13-0.15	6.1-7.3	<2	Low-------	0.37	2	8	1-3
Jahant	5-31	20-30	1.40-1.55	0.6-2.0	0.13-0.17	6.1-7.3	<2	Moderate	0.37			
	31-49	35-60	1.40-1.55	<0.06	0.08-0.10	6.1-7.3	<2	High------	0.28			
	49-53	---	---	---	---	---	---	Low-------	----			
	53-60	---	---	---	---	---	---	----------	----			
184----------	0-10	2-10	1.60-1.70	6.0-20	0.06-0.08	5.6-7.3	<2	Low-------	0.17	1	8	<2
Kaseberg	10-16	2-10	1.60-1.70	6.0-20	0.05-0.08	5.6-7.3	<2	Low-------	0.15			
	16-17	---	---	---	---	---	---	----------	----			
	17-60	10-25	1.80-2.00	<0.06	0.04-0.07	5.6-7.3	<2	Low-------	0.28			
185----------	0-17	8-18	1.55-1.70	0.6-2.0	0.11-0.14	5.6-7.3	<2	Low-------	0.37	1	8	.5-1
Kaseberg	17-20	---	---	---	---	---	---	----------	----			
	20	---	---	---	---	---	---	----------	----			
186----------	0-16	10-20	1.55-1.70	0.6-2.0	0.14-0.17	5.6-7.3	<2	Low-------	0.43	1	8	.5-1
Kaseberg	16-17	---	---	---	---	---	---	----------	----			
	17	---	---	---	---	---	---	----------	----			
187*:												
Keyes----------	0-12	15-27	1.45-1.55	0.6-2.0	0.10-0.13	5.6-7.3	<2	Low-------	0.20	1	8	<2
	12-19	35-60	1.40-1.60	<0.06	0.04-0.06	6.1-7.3	<2	High------	0.17			
	19-34	---	---	---	---	---	---	----------	----			
	34	---	---	---	---	---	---	----------	----			
Bellota---------	0-9	12-20	1.50-1.60	2.0-6.0	0.11-0.13	5.6-6.5	<2	Low-------	0.28	2	8	<2
	9-23	20-30	1.45-1.55	0.2-0.6	0.10-0.14	5.6-6.5	<2	Moderate	0.20			
	23-35	40-60	1.35-1.50	<0.06	0.04-0.06	6.1-7.3	<2	High------	0.20			
	35-37	---	---	---	---	---	---	----------	----			
	37	---	---	---	---	---	---	----------	----			
188*:												
Keyes----------	0-6	15-27	1.45-1.55	0.6-2.0	0.10-0.13	5.6-7.3	<2	Low-------	0.20	1	8	<2
	6-13	35-60	1.40-1.60	<0.06	0.04-0.06	6.1-7.3	<2	High------	0.17			
	13-34	---	---	---	---	---	---	----------	----			
	34	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea- bility	Available water capacity	Soil reaction	Salinity	Shrink- swell potential	Erosion factors K	Erosion factors T	Wind erodi- bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
188*:												
Redding---------	0-16	10-25	1.45-1.55	0.6-2.0	0.10-0.14	5.1-6.5	<2	Low--------	0.24	2	8	<2
	16-22	35-60	1.35-1.60	<0.06	0.04-0.06	5.1-6.5	<2	High-------	0.28			
	22-60	---	---	---	---	---	---	----------	----			
189---------- Kingdon	0-5	10-14	1.50-1.60	2.0-6.0	0.13-0.15	5.6-7.3	<2	Low--------	0.32	5	3	1-3
	5-14	10-14	1.50-1.60	2.0-6.0	0.13-0.15	6.1-7.3	<2	Low--------	0.32			
	14-28	10-14	1.50-1.60	2.0-6.0	0.12-0.15	6.1-7.3	<2	Low--------	0.37			
	28-42	15-20	1.45-1.60	0.6-2.0	0.13-0.16	6.1-7.8	<2	Low--------	0.37			
	42-61	8-15	1.50-1.60	2.0-6.0	0.10-0.14	6.6-8.4	<2	Low--------	0.37			
190---------- Kingile	0-17	---	0.80-1.00	6.0-20	0.26-0.30	4.5-6.5	<2	Low--------	0.02	5	2	35-45
	17-61	35-60	1.20-1.40	0.06-0.2	0.14-0.18	5.6-7.8	<2	Moderate	0.24			
191*:												
Kingile---------	0-17	---	0.80-1.00	6.0-20	0.26-0.30	4.5-6.5	<2	Low--------	0.02	5	2	35-45
	17-61	35-60	1.20-1.40	0.06-0.2	0.14-0.18	5.6-7.8	<2	Moderate	0.24			
Ryde----------	0-24	27-35	1.35-1.45	0.2-0.6	0.17-0.20	5.1-7.3	<2	Moderate	0.28	5	7	2-10
	24-63	20-30	0.80-1.35	0.6-2.0	0.20-0.25	6.1-7.8	<2	Moderate	0.24			
192*: Lithic Xerorthents.												
Toomes----------	0-15	10-27	1.40-1.50	0.6-2.0	0.13-0.16	6.1-7.3	<2	Low--------	0.32	1	8	1-2
	15	---	---	---	---	---	---	----------	----			
193---------- Madera	0-19	5-15	1.50-1.60	2.0-6.0	0.09-0.13	5.6-7.3	<2	Low--------	0.32	2	8	<1
	19-23	20-30	1.50-1.60	0.2-0.6	0.15-0.17	6.1-7.3	<2	Moderate	0.28			
	23-29	35-55	1.45-1.65	<0.06	0.04-0.08	6.6-8.4	<2	High-------	0.24			
	29-60	---	---	---	---	---	<2	----------	----			
194---------- Madera	0-10	10-25	1.45-1.55	0.6-2.0	0.14-0.16	5.6-7.3	<2	Low--------	0.37	2	8	<1
	10-30	35-55	1.45-1.65	<0.06	0.04-0.08	6.6-8.4	<2	High-------	0.24			
	30-60	---	---	---	---	---	<2	----------	----			
195*:												
Madera----------	0-10	5-15	1.50-1.60	2.0-6.0	0.09-0.13	5.6-7.3	<2	Low--------	0.32	2	8	<1
	10-20	35-55	1.45-1.65	<0.06	0.04-0.08	6.6-8.4	<2	High-------	0.24			
	20-60	---	---	---	---	---	<2	----------	----			
Alamo----------	0-12	10-20	1.50-1.70	0.6-2.0	0.10-0.13	6.1-7.3	<2	Low--------	0.32	2	8	.5-1
	12-25	40-60	1.25-1.40	<0.06	0.12-0.15	6.1-7.8	<2	High-------	0.24			
	25-34	40-60	1.25-1.40	<0.06	0.12-0.15	6.6-8.4	<2	High-------	0.24			
	34-60	---	---	---	---	---	---	----------	----			
196---------- Manteca	0-11	10-18	1.50-1.60	2.0-6.0	0.13-0.15	7.4-8.4	<2	Low--------	0.28	2	3	1-7
	11-24	10-18	1.50-1.60	0.6-2.0	0.10-0.16	7.4-8.4	<2	Low--------	0.32			
	24-35	---	---	---	---	---	<2	----------	----			
	35-54	---	---	---	---	---	<2	----------	----			
	54-74	5-15	1.55-1.70	2.0-6.0	0.07-0.12	7.4-8.4	<2	Low--------	0.32			
197---------- Merritt	0-17	27-35	1.35-1.50	0.2-0.6	0.17-0.19	6.6-8.4	<2	Moderate	0.43	5	8	[illegible]
	17-49	20-30	1.35-1.55	0.2-0.6	0.15-0.19	7.9-8.4	<2	Moderate	0.43			
	49-60	5-15	1.50-1.70	0.6-2.0	0.11-0.14	7.9-8.4	<2	Low--------	0.32			
198---------- Merritt	0-15	27-35	1.35-1.50	0.2-0.6	0.17-0.19	6.6-8.4	<2	Moderate	0.43	5	[illegible]	[illegible]
	15-42	20-30	1.35-1.55	0.2-0.6	0.15-0.19	7.9-8.4	<2	Moderate	0.43			
	42-60	5-15	1.50-1.70	0.6-2.0	0.11-0.14	7.9-8.4	<2	Low--------	0.32			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
199---------- Montpellier	0-18	10-18	1.55-1.65	2.0-6.0	0.10-0.12	5.6-7.3	<2	Low--------	0.32	4	8	0-1
	18-46	20-30	1.50-1.60	0.2-0.6	0.14-0.16	5.6-7.3	<2	Moderate	0.28			
	46-54	10-20	1.60-1.70	0.2-0.6	0.10-0.12	6.6-7.3	<2	Low--------	0.32			
	54-60	10-20	1.80-2.00	<0.06	0.04-0.08	6.1-7.3	<2	Low--------	0.20			
200*:												
Montpellier-----	0-20	10-18	1.55-1.65	2.0-6.0	0.10-0.12	5.6-7.3	<2	Low--------	0.32	4	8	0-1
	20-43	20-30	1.50-1.60	0.2-0.6	0.14-0.16	5.6-7.3	<2	Moderate	0.28			
	43-55	10-20	1.60-1.70	0.2-0.6	0.10-0.12	6.6-7.3	<2	Low--------	0.32			
	55-60	10-20	1.80-2.00	<0.06	0.04-0.08	6.1-7.3	<2	Low--------	0.20			
Cometa----------	0-22	10-20	1.50-1.70	0.6-2.0	0.10-0.13	5.6-6.5	<2	Low--------	0.32	2	8	.5-1
	22-36	35-50	1.45-1.65	<0.06	0.04-0.06	6.1-7.3	<2	High-------	0.24			
	36-60	10-30	1.80-2.00	<0.06	0.08-0.10	6.6-7.3	<2	Low--------	0.28			
201---------- Nord	0-25	10-18	1.45-1.55	0.6-2.0	0.13-0.15	6.6-7.8	<2	Low--------	0.37	5	7	1-2
	25-60	10-18	1.50-1.60	0.6-2.0	0.11-0.15	7.4-8.4	<2	Low--------	0.43			
202---------- Pardee	0-9	8-18	1.45-1.55	0.6-2.0	0.10-0.14	5.1-6.5	<2	Low--------	0.20	1	8	1-2
	9-18	18-30	1.45-1.55	0.2-0.6	0.08-0.11	5.1-6.5	<2	Low--------	0.10			
	18	---	---	---	---	---	---	----------	----			
203---------- Pardee	0-9	8-18	1.45-1.55	0.6-2.0	0.10-0.14	5.1-6.5	<2	Low--------	0.20	1	8	1-2
	9-18	18-30	1.45-1.55	0.2-0.6	0.08-0.11	5.1-6.5	<2	Low--------	0.10			
	18	---	---	---	---	---	---	----------	----			
204---------- Peltier	0-22	27-35	1.10-1.20	0.6-2.0	0.18-0.20	5.6-7.3	<2	Moderate	0.28	5	3	10-25
	22-24	35-45	1.20-1.35	0.06-0.2	0.13-0.15	5.6-7.8	<2	High-------	0.28			
	24-45	35-45	1.10-1.20	0.6-2.0	0.18-0.20	5.6-7.8	<2	Moderate	0.28			
	45-60	35-50	1.30-1.40	0.06-0.2	0.13-0.15	5.6-7.8	<2	High-------	0.28			
205---------- Peltier	0-22	30-40	1.10-1.20	0.6-2.0	0.18-0.20	5.6-6.5	<2	Moderate	0.28	5	3	15-20
	22-24	35-45	1.20-1.35	0.06-0.2	0.13-0.15	5.6-7.8	<2	High-------	0.28			
	24-44	35-40	1.10-1.20	0.6-2.0	0.18-0.20	5.6-7.3	<2	Moderate	0.28			
	44-60	---	0.80-1.00	6.0-20	0.20-0.30	4.5-6.5	<2	Low--------	----			
206, 207--------- Pentz	0-4	8-18	1.65-1.75	2.0-6.0	0.11-0.13	5.1-6.5	<2	Low--------	0.28	1	8	1-3
	4-15	10-20	1.55-1.75	2.0-6.0	0.11-0.15	5.6-7.3	<2	Low--------	0.37			
	15	---	---	---	---	---	---	----------	----			
208---------- Pentz	0-8	8-18	1.50-1.60	2.0-6.0	0.09-0.12	5.1-6.5	<2	Low--------	0.20	1	8	1-3
	8-13	10-20	1.50-1.60	2.0-6.0	0.09-0.13	5.6-7.3	<2	Low--------	0.20			
	13	---	---	---	---	---	---	----------	----			
209*:												
Pentz----------	0-7	8-18	1.55-1.65	2.0-6.0	0.13-0.15	5.1-6.5	<2	Low--------	0.32	1	8	1-3
	7-14	10-20	1.55-1.75	2.0-6.0	0.11-0.15	5.6-7.3	<2	Low--------	0.37			
	14	---	---	---	---	---	---	----------	----			
Willotta---------	0-17	15-25	1.45-1.55	0.6-2.0	0.14-0.16	5.6-6.5	<2	Low--------	0.32	2	8	<2
	17-21	20-30	1.45-1.55	0.2-0.6	0.10-0.14	5.6-6.5	<2	Moderate	0.20			
	21-36	40-60	1.35-1.50	<0.06	0.04-0.06	6.1-7.3	<2	High-------	0.20			
	36-37	---	---	---	---	---	---	----------	----			
	37	---	---	---	---	---	---	----------	----			
210*:												
Pentz----------	0-10	8-18	1.50-1.60	2.0-6.0	0.09-0.11	5.1-6.5	<2	Low--------	0.20	1	8	1-3
	10-14	10-20	1.50-1.60	2.0-6.0	0.09-0.13	5.6-7.3	<2	Low--------	0.20			
	14	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
210*:												
Redding---------	0-20	10-20	1.50-1.60	0.6-2.0	0.07-0.10	5.1-6.5	<2	Low--------	0.20	2	8	<2
	20-35	35-60	1.35-1.60	<0.06	0.04-0.06	5.1-6.5	<2	High-------	0.20			
	35-60	---	---	---	---	---	---	----------	----			
211---------- Pescadero	0-10	27-35	1.40-1.50	0.2-0.6	0.14-0.16	7.4-8.4	4-8	Moderate	0.32	5	8	1-4
	10-42	40-60	1.40-1.55	<0.06	0.08-0.10	7.9-9.0	4-16	High-------	0.28			
	42-60	29-40	1.45-1.60	0.06-0.2	0.12-0.13	7.9-9.0	4-16	Moderate	0.32			
212---------- Peters	0-5	40-60	1.35-1.50	0.06-0.2	0.14-0.16	5.6-7.3	<2	High-------	0.24	1	8	1-3
	5-15	40-60	1.35-1.50	0.06-0.2	0.12-0.16	5.6-7.3	<2	High-------	0.20			
	15	---	---	---	---	---	---	----------	----			
213---------- Piper	0-15	9-15	1.50-1.60	0.6-2.0	0.10-0.13	7.4-8.4	<4	Low--------	0.28	5	3	.5-2
	15-39	9-15	1.50-1.60	0.6-2.0	0.05-0.08	7.4-8.4	<4	Low--------	0.32			
	39-60	5-15	1.55-1.70	2.0-6.0	0.05-0.09	7.4-8.4	<2	Low--------	0.17			
214*. Pits												
215---------- Pleito	0-16	27-35	1.35-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.32	5	8	1-4
	16-60	27-35	1.40-1.55	0.2-0.6	0.16-0.18	7.9-8.4	<2	Moderate	0.32			
216, 217, 218---- Ramoth	0-14	8-15	1.50-1.60	2.0-6.0	0.10-0.13	5.6-6.5	<2	Low--------	0.28	5	8	<1
	14-32	12-20	1.50-1.60	2.0-6.0	0.10-0.13	5.6-6.5	<2	Low--------	0.28			
	32-54	20-27	1.45-1.55	0.2-0.6	0.13-0.15	6.1-7.3	<2	Moderate	0.28			
	54-60	5-15	1.50-1.60	2.0-6.0	0.08-0.12	6.1-7.3	<2	Low--------	0.24			
219---------- Redding	0-6	10-25	1.45-1.55	0.6-2.0	0.14-0.16	5.1-6.5	<2	Low--------	0.37	2	8	<2
	6-27	18-30	1.45-1.55	0.2-0.6	0.13-0.17	5.1-6.5	<2	Moderate	0.28			
	27-30	35-60	1.35-1.60	<0.06	0.04-0.06	5.1-6.5	<2	High-------	0.28			
	30-60	---	---	---	---	---	---	----------	----			
220, 221--------- Redding	0-7	10-25	1.45-1.55	0.6-2.0	0.10-0.14	5.1-6.5	<2	Low--------	0.24	2	8	<2
	7-16	18-30	1.45-1.55	0.2-0.6	0.11-0.14	5.1-6.5	<2	Moderate	0.24			
	16-22	35-60	1.35-1.60	<0.06	0.04-0.06	5.1-6.5	<2	High-------	0.28			
	22-60	---	---	---	---	---	---	----------	----			
222---------- Reiff	0-9	5-15	1.50-1.60	2.0-6.0	0.09-0.11	6.1-7.8	<2	Low--------	0.32	5	5	1-2
	9-56	8-18	1.50-1.65	2.0-6.0	0.11-0.16	6.6-7.8	<2	Low--------	0.32			
	56-63	15-25	1.50-1.60	0.6-2.0	0.16-0.19	6.6-7.8	<2	Low--------	0.37			
223---------- Reiff	0-7	8-18	1.45-1.55	2.0-6.0	0.13-0.16	6.1-7.8	<2	Low--------	0.37	5	5	1-2
	7-55	8-18	1.50-1.65	2.0-6.0	0.11-0.16	6.6-7.8	<2	Low--------	0.32			
	55-60	15-25	1.50-1.60	0.6-2.0	0.16-0.19	6.6-7.8	<2	Low--------	0.37			
224---------- Rindge	0-12	12-25	1.10-1.30	6.0-20	0.16-0.18	5.6-7.3	<2	Low--------	0.28	5	3	1-2
	12-60	---	0.80-1.00	6.0-20	0.26-0.30	4.5-6.5	<2	Low--------	0.02			
225---------- Rindge	0-13	---	0.80-1.00	6.0-20	0.26-0.30	4.5-6.5	<2	Low--------	0.02	5	2	[illegible]
	13-60	---	0.80-1.00	6.0-20	0.26-0.30	4.5-6.5	<2	Low--------	0.02			
226---------- Rioblancho	0-16	27-30	1.40-1.50	0.2-0.6	0.17-0.19	7.4-8.4	<2	Moderate	0.28	2	8	[illegible]
	16-28	20-35	1.45-1.55	0.2-0.6	0.15-0.19	7.4-8.4	<2	Moderate	0.32			
	28-39	10-20	1.50-1.60	0.6-2.0	0.10-0.16	7.9-8.4	<2	Low--------	0.37			
	39-80	---	---	---	---	---	---	----------	----			

See footnote at end of table.

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TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
227*:												
Rioblancho------	0-16	27-30	1.40-1.50	0.2-0.6	0.17-0.19	7.4-8.4	<2	Moderate	0.28	2	8	2-5
	16-28	20-35	1.45-1.55	0.2-0.6	0.15-0.19	7.4-8.4	<2	Moderate	0.32			
	28-39	10-20	1.50-1.60	0.6-2.0	0.10-0.16	7.9-8.4	<2	Low-------	0.37			
	39-80	---	---	---	---	---	---	----------	----			
Urban land.												
228, 229--------- Rocklin	0-25	10-20	1.55-1.65	0.6-2.0	0.11-0.13	5.6-6.5	<2	Low-------	0.37	2	7	<1
	25-36	18-30	1.40-1.55	0.6-2.0	0.15-0.18	6.1-7.3	<2	Moderate	0.37			
	36-40	---	---	---	---	---	---	----------	----			
	40-60	10-20	1.80-2.00	<0.06	0.04-0.08	6.1-7.3	<2	Low-------	0.20			
230---------- Ryde	0-24	27-35	1.35-1.45	0.2-0.6	0.17-0.20	5.1-7.3	<2	Moderate	0.28	5	7	2-10
	24-63	20-30	0.80-1.35	0.6-2.0	0.20-0.25	6.1-7.8	<2	Moderate	0.24			
231---------- Ryde	0-24	27-35	1.35-1.45	0.6-2.0	0.18-0.20	5.1-7.3	<2	Moderate	0.28	5	8	2-10
	24-40	20-35	1.10-1.50	0.6-2.0	0.15-0.20	5.1-7.3	<2	Moderate	----			
	40-60	---	0.80-1.00	6.0-20	0.20-0.30	4.5-6.5	<2	Low-------	----			
232---------- Ryde	0-24	27-35	1.35-1.45	0.6-2.0	0.18-0.20	5.1-7.3	<2	Moderate	0.28	5	7	2-10
	24-40	20-30	0.80-1.35	0.6-2.0	0.20-0.25	6.1-7.8	<2	Moderate	0.24			
	40-60	0-5	1.60-1.75	6.0-20	0.06-0.08	7.4-7.8	<2	Low-------	0.20			
233*:												
Ryde----------	0-24	27-35	1.35-1.45	0.2-0.6	0.17-0.20	5.1-7.3	<2	Moderate	0.28	5	7	2-10
	24-63	20-30	0.80-1.35	0.6-2.0	0.20-0.25	6.1-7.8	<2	Moderate	0.24			
Peltier---------	0-22	27-35	1.10-1.20	0.6-2.0	0.18-0.20	5.6-7.3	<2	Moderate	0.28	5	3	10-25
	22-24	35-45	1.20-1.35	0.06-0.2	0.13-0.15	5.6-7.8	<2	High------	0.28			
	24-45	35-45	1.10-1.20	0.6-2.0	0.18-0.20	5.6-7.8	<2	Moderate	0.28			
	45-60	35-50	1.30-1.40	0.06-0.2	0.13-0.15	5.6-7.8	<2	High------	0.28			
234, 235--------- Sailboat	0-8	15-27	1.45-1.55	0.6-2.0	0.15-0.19	6.1-7.3	<2	Low-------	0.43	5	5	<2
	8-23	18-35	1.45-1.60	0.2-0.6	0.15-0.19	6.6-7.8	<2	Moderate	0.37			
	23-61	25-35	1.45-1.55	0.2-0.6	0.15-0.19	7.4-8.4	<2	Moderate	0.24			
236---------- San Joaquin	0-13	10-20	1.45-1.55	0.6-2.0	0.10-0.13	5.6-6.5	<2	Low-------	0.32	2	8	.5-1
	13-20	35-50	1.50-1.65	<0.06	0.04-0.06	6.1-7.8	<2	High------	0.24			
	20-60	---	---	---	---	---	---	----------	----			
237---------- San Joaquin	0-10	10-20	1.45-1.55	0.6-2.0	0.10-0.13	5.6-6.5	<2	Low-------	0.32	2	8	.5-1
	10-20	35-50	1.50-1.65	<0.06	0.04-0.06	6.1-7.8	<2	High------	0.24			
	20-60	---	---	---	---	---	---	----------	----			
238, 239--------- San Joaquin	0-16	15-25	1.50-1.60	0.6-2.0	0.14-0.16	5.6-6.5	<2	Low-------	0.37	2	8	.5-1
	16-26	35-50	1.50-1.65	<0.06	0.04-0.06	6.1-7.8	<2	High------	0.24			
	26-60	---	---	---	---	---	---	----------	----			
240---------- San Joaquin	0-12	15-25	1.50-1.60	0.6-2.0	0.14-0.16	5.6-6.5	<2	Low-------	0.37	2	8	.5-1
	12-26	20-25	1.50-1.60	0.2-0.6	0.16-0.17	6.1-7.3	<2	Low-------	0.28			
	26-35	35-50	1.50-1.65	<0.06	0.04-0.06	6.1-7.8	<2	High------	0.24			
	35-60	---	---	---	---	---	---	----------	----			
241*:												
San Joaquin-----	0-16	15-25	1.50-1.60	0.6-2.0	0.14-0.16	5.6-6.5	<2	Low-------	0.37	2	8	.5-1
	16-26	35-50	1.50-1.65	<0.06	0.04-0.06	6.1-7.8	<2	High------	0.24			
	26-60	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea- bility	Available water capacity	Soil reaction	Salinity	Shrink- swell potential	Erosion factors K	Erosion factors T	Wind erodi- bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
241*:												
San Joaquin, thick surface--	0-12	15-25	1.50-1.60	0.6-2.0	0.14-0.16	5.6-6.5	<2	Low--------	0.37	2	8	.5-1
	12-26	20-25	1.50-1.60	0.2-0.6	0.16-0.17	6.1-7.3	<2	Low--------	0.28			
	26-35	35-50	1.50-1.65	<0.06	0.04-0.06	6.1-7.8	<2	High-------	0.24			
	35-60	---	---	---	---	---	---	----------	----			
242*:												
San Joaquin-----	0-16	15-25	1.50-1.60	0.6-2.0	0.14-0.16	5.6-6.5	<2	Low--------	0.37	2	8	.5-1
	16-26	35-50	1.50-1.65	<0.06	0.04-0.06	6.1-7.8	<2	High-------	0.24			
	26-60	---	---	---	---	---	---	----------	----			
Urban land.												
243---------- Scribner	0-24	27-35	1.35-1.50	0.2-0.6	0.19-0.21	6.1-7.8	<2	Moderate	0.24	5	4	2-10
	24-60	20-35	1.40-1.55	0.2-0.6	0.15-0.19	6.6-8.4	<2	Moderate	0.32			
244---------- Scribner	0-25	27-35	1.35-1.50	0.2-0.6	0.19-0.21	6.1-7.8	<2	Moderate	0.24	5	4	2-10
	25-44	25-35	1.40-1.55	0.2-0.6	0.17-0.21	6.6-8.4	<2	Moderate	0.24			
	44-60	0-5	1.60-1.70	6.0-20	0.06-0.08	6.6-8.4	<2	Low--------	0.20			
245*:												
Scribner--------	0-24	27-35	1.35-1.50	0.2-0.6	0.19-0.21	6.1-7.8	<2	Moderate	0.24	5	4	2-10
	24-60	20-35	1.40-1.55	0.2-0.6	0.15-0.19	6.6-8.4	<2	Moderate	0.32			
Urban land.												
246---------- Shima	0-21	---	0.80-1.00	6.0-20	0.26-0.30	4.5-6.5	<4	Low--------	0.02	5	2	40-55
	21-23	27-35	1.10-1.20	0.6-2.0	0.18-0.20	4.5-7.3	<4	Moderate	0.28			
	23-60	0-10	1.60-1.70	>20	0.06-0.10	4.5-8.4	<4	Low--------	0.20			
247---------- Shinkee	0-22	---	0.80-1.00	6.0-20	0.26-0.30	5.1-6.5	<2	Low--------	0.02	5	2	35-65
	22-26	27-35	1.00-1.20	0.2-0.6	0.18-0.20	5.1-8.4	<2	Moderate	0.28			
	26-60	15-35	1.40-1.60	0.2-0.6	0.14-0.19	5.1-8.4	<2	Moderate	0.37			
248---------- Stockton	0-16	15-20	1.50-1.60	2.0-6.0	0.12-0.15	7.4-8.4	<2	Low--------	0.32	3	6	1-2
	16-53	40-55	1.30-1.50	0.06-0.2	0.14-0.16	7.4-8.4	<2	High-------	0.24			
	53-58	25-40	1.40-1.55	0.06-0.2	0.14-0.17	7.9-8.4	<2	Moderate	0.32			
	58-60	---	---	---	---	---	---	----------	----			
249---------- Stockton	0-12	27-35	1.35-1.50	0.2-0.6	0.17-0.19	7.4-8.4	<2	Moderate	0.37	3	7	1-2
	12-34	40-55	1.30-1.50	0.06-0.2	0.14-0.16	7.4-8.4	<2	High-------	0.24			
	34-47	25-40	1.40-1.55	0.06-0.2	0.14-0.17	7.9-8.4	<2	Moderate	0.32			
	47-60	---	---	---	---	---	---	----------	----			
250---------- Stockton	0-29	40-55	1.30-1.50	0.06-0.2	0.14-0.16	7.4-8.4	<2	High-------	0.24	3	8	[illegible]
	29-37	40-55	1.30-1.50	0.06-0.2	0.14-0.16	7.4-8.4	<2	High-------	0.24			
	37-42	27-40	1.35-1.55	0.06-0.2	0.14-0.17	7.4-8.4	<2	Moderate	0.32			
	42-60	---	---	---	---	---	---	----------	----			
251*:												
Stockton--------	0-29	40-55	1.30-1.50	0.06-0.2	0.14-0.16	7.4-8.4	<2	High-------	0.24	3	8	[illegible]
	29-37	40-55	1.30-1.50	0.06-0.2	0.14-0.16	7.4-8.4	<2	High-------	0.24			
	37-42	27-40	1.35-1.55	0.06-0.2	0.14-0.17	7.4-8.4	<2	Moderate	0.32			
	42-60	---	---	---	---	---	---	----------	----			
Urban land.												
252---------- Stomar	0-17	27-35	1.40-1.55	0.2-0.6	0.16-0.18	6.6-7.3	<2	Moderate	0.37	5	[illegible]	
	17-47	35-60	1.35-1.50	0.06-0.2	0.15-0.18	6.6-8.4	<2	High-------	0.32			
	47-60	27-40	1.40-1.55	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.37			

See footnote at end of table.

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TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
253---------- Stomar	0-17	27-35	1.40-1.55	0.2-0.6	0.17-0.19	6.6-7.3	<2	Moderate	0.37	5	8	1-2
	17-47	35-60	1.35-1.50	0.06-0.2	0.12-0.15	6.6-8.4	<2	High-------	0.32			
	47-60	27-40	1.40-1.55	0.2-0.6	0.16-0.18	7.4-8.4	<2	Moderate	0.37			
254---------- Timor	0-14	2-10	1.60-1.70	6.0-20	0.06-0.08	6.6-7.8	<2	Low--------	0.17	3	2	1-2
	14-56	2-10	1.60-1.70	6.0-20	0.05-0.07	7.4-8.4	<2	Low--------	0.17			
	56-60	---	---	---	---	---	---	----------	----			
255---------- Tinnin	0-28	0-10	1.60-1.70	6.0-20	0.06-0.08	6.1-7.8	<2	Low--------	0.17	5	2	1-2
	28-53	0-10	1.60-1.70	6.0-20	0.05-0.07	6.1-7.8	<2	Low--------	0.17			
	53-75	0-10	1.60-1.75	6.0-20	0.05-0.07	6.6-8.4	<2	Low--------	0.17			
256---------- Tokay	0-19	10-15	1.50-1.60	2.0-6.0	0.13-0.15	6.1-7.8	<2	Low--------	0.32	5	3	1-3
	19-45	10-18	1.50-1.60	2.0-6.0	0.12-0.14	6.1-7.8	<2	Low--------	0.37			
	45-60	8-15	1.50-1.65	2.0-6.0	0.10-0.14	6.1-8.4	<2	Low--------	0.37			
257*:												
Tokay----------	0-19	10-15	1.50-1.60	2.0-6.0	0.13-0.15	6.1-7.8	<2	Low--------	0.32	5	3	1-3
	19-45	10-18	1.50-1.60	2.0-6.0	0.12-0.14	6.1-7.8	<2	Low--------	0.37			
	45-60	8-15	1.50-1.65	2.0-6.0	0.10-0.14	6.1-8.4	<2	Low--------	0.37			
Urban land.												
258---------- Trahern	0-14	27-35	1.40-1.50	0.2-0.6	0.16-0.18	7.4-8.4	<4	Moderate	0.37	2	8	1-2
	14-28	45-60	1.35-1.50	<0.06	0.11-0.13	8.5-9.0	4-8	High-------	0.24			
	28-38	30-40	1.40-1.55	0.2-0.6	0.16-0.18	7.9-9.0	<4	Moderate	0.37			
	38-60	---	---	---	---	---	---	----------	----			
259---------- Tujunga	0-22	0-5	1.60-1.70	6.0-20	0.05-0.10	6.1-7.3	<2	Low--------	0.20	5	2	<1
	22-67	0-5	1.60-1.70	6.0-20	0.05-0.08	6.1-7.8	<2	Low--------	0.20			
260*. Urban land												
261---------- Valdez	0-14	18-27	1.45-1.55	0.6-2.0	0.15-0.17	5.6-7.3	<2	Low--------	0.43	5	5	.5-1
	14-40	18-35	1.40-1.55	0.2-0.6	0.15-0.19	6.1-7.3	<2	Moderate	0.43			
	40-50	20-35	1.10-1.20	2.0-6.0	0.18-0.22	6.1-7.3	<2	Low--------	0.28			
	50-60	---	0.80-1.00	6.0-20	0.26-0.30	5.6-7.3	<4	Low--------	0.02			
262*:												
Vaquero----------	0-21	40-60	1.35-1.50	0.06-0.2	0.13-0.16	6.6-8.4	<2	High-------	0.20	2	8	<2
	21-25	40-60	1.35-1.50	0.06-0.2	0.09-0.17	7.4-9.0	4-16	High-------	0.28			
	25	---	---	---	---	---	---	----------	----			
Carbona----------	0-18	40-45	1.30-1.45	0.06-0.2	0.13-0.16	7.4-8.4	<4	High-------	0.24	5	8	2-5
	18-30	35-45	1.30-1.50	0.06-0.2	0.13-0.18	7.4-8.4	<4	High-------	0.32			
	30-60	27-40	1.40-1.50	0.2-0.6	0.15-0.18	7.9-8.4	<4	Moderate	0.32			
263---------- Venice	0-15	10-25	1.10-1.20	6.0-20	0.16-0.18	4.5-7.3	<2	Low--------	0.28	5	3	10-25
	15-60	---	0.08-1.00	6.0-20	0.26-0.30	4.5-6.5	<2	Low--------	0.02			
264---------- Venice	0-12	---	0.80-1.00	6.0-20	0.26-0.30	4.5-6.5	<2	Low--------	0.02	5	2	35-55
	12-60	---	0.08-1.00	6.0-20	0.26-0.30	4.5-6.5	<2	Low--------	0.02			
265---------- Veritas	0-19	7-18	1.55-1.65	2.0-6.0	0.10-0.13	6.6-8.4	<2	Low--------	0.24	3	3	1-3
	19-44	7-18	1.50-1.60	2.0-6.0	0.11-0.14	7.4-8.4	<2	Low--------	0.28			
	44-60	---	---	---	---	---	---	----------	----			
266---------- Veritas	0-15	5-16	1.55-1.65	2.0-6.0	0.12-0.15	7.4-8.4	<4	Low--------	0.28	3	3	1-2
	15-54	5-16	1.50-1.60	2.0-6.0	0.12-0.15	7.4-8.4	<4	Low--------	0.32			
	54-70	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea-bility	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors K	Erosion factors T	Wind erodi-bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
267---------- Veritas	0-19	27-35	1.45-1.55	0.2-0.6	0.17-0.19	6.6-8.4	<4	Moderate	0.37	3	7	1-2
	19-46	5-16	1.50-1.60	2.0-6.0	0.12-0.15	7.4-8.4	<4	Low--------	0.32			
	46-60	---	---	---	---	---	---	----------	----			
268, 269--------- Vernalis	0-9	27-35	1.40-1.50	0.2-0.6	0.17-0.18	6.6-8.4	<2	Moderate	0.32	5	8	1-2
	9-47	18-30	1.40-1.55	0.6-2.0	0.14-0.18	7.4-8.4	<2	Moderate	0.37			
	47-60	10-30	1.50-1.60	0.6-2.0	0.11-0.18	7.9-8.4	<2	Moderate	0.32			
270---------- Vignolo	0-17	20-27	1.45-1.55	0.6-2.0	0.15-0.19	7.4-7.8	<2	Low--------	0.43	2	8	1-2
	17-33	20-27	1.50-1.65	0.2-0.6	0.15-0.19	7.4-7.8	<2	Low--------	0.43			
	33-60	---	---	---	---	---	---	----------	----			
271---------- Vignolo	0-14	27-30	1.40-1.50	0.2-0.6	0.17-0.21	7.4-7.8	<2	Moderate	0.37	2	8	1-2
	14-30	27-30	1.40-1.50	0.2-0.6	0.17-0.21	7.4-7.8	<2	Moderate	0.37			
	30-60	---	---	---	---	---	---	----------	----			
272---------- Vina	0-9	12-18	1.45-1.55	2.0-6.0	0.12-0.14	6.1-7.3	<2	Low--------	0.28	5	7	1-3
	9-37	12-18	1.45-1.55	0.6-2.0	0.13-0.16	6.1-7.3	<2	Low--------	0.32			
	37-60	12-18	1.45-1.60	0.6-2.0	0.13-0.16	6.1-7.3	<2	Low--------	0.37			
273---------- Webile	0-39	---	0.80-1.00	6.0-20	0.26-0.30	4.5-5.5	<2	Low--------	0.02	5	2	40-65
	39-60	40-60	1.35-1.50	0.06-0.2	0.12-0.16	6.1-7.8	<2	High-------	0.28			
274---------- Willows	0-20	40-60	1.40-1.55	<0.06	0.10-0.12	7.9-9.0	2-8	High-------	0.28	5	8	1-3
	20-60	40-60	1.40-1.50	<0.06	0.05-0.10	8.5-9.0	>4	High-------	0.28			
275*, 276*:												
Wisflat----------	0-3	7-18	1.50-1.60	2.0-6.0	0.10-0.13	7.4-8.4	<2	Low--------	0.37	1	8	<.1
	3-10	5-18	1.50-1.60	2.0-6.0	0.09-0.15	7.4-8.4	<2	Low--------	0.43			
	10	---	---	---	---	---	---	----------	----			
Arburua----------	0-6	27-30	1.40-1.55	0.6-2.0	0.15-0.18	7.4-8.4	<2	Moderate	0.37	2	8	0-1
	6-31	18-30	1.40-1.55	0.6-2.0	0.12-0.18	7.9-8.4	<2	Moderate	0.37			
	31	---	---	---	---	---	---	----------	----			
San Timoteo-----	0-5	8-18	1.50-1.60	2.0-6.0	0.11-0.14	7.4-8.4	<2	Low--------	0.37	2	8	<1
	5-29	8-18	1.50-1.60	2.0-6.0	0.11-0.15	7.9-8.4	<2	Low--------	0.43			
	29	---	---	---	---	---	---	----------	----			
277. Xerofluvents												
278*:												
Xerofluvents.												
Xerorthents.												
279, 280--------- Yellowlark	0-8	12-18	1.45-1.55	0.6-2.0	0.12-0.14	5.1-6.5	<2	Low--------	0.24	3	8	<2
	8-39	18-30	1.45-1.55	0.6-2.0	0.12-0.16	5.1-6.5	<2	Moderate	0.24			
	39-47	20-30	1.45-1.55	0.2-0.6	0.08-0.12	5.1-6.5	<2	Low--------	0.15			
	47-54	40-50	1.35-1.50	<0.06	0.04-0.06	5.6-6.5	<2	High-------	0.20			
	54-59	27-35	1.40-1.50	0.2-0.6	0.11-0.17	5.6-6.5	<2	Moderate	0.28			
	59-62	---	---	---	---	---	---	----------	----			
281---------- Zacharias	0-19	27-30	1.40-1.50	0.2-0.6	0.15-0.19	6.1-7.3	<2	Moderate	0.37	5	8	[illegible]
	19-53	25-35	1.40-1.55	0.2-0.6	0.13-0.18	6.6-7.8	<2	Moderate	0.37			
	53-60	25-35	1.40-1.55	0.2-0.6	0.10-0.15	6.6-8.4	<2	Moderate	0.24			
282---------- Zacharias	0-14	27-35	1.40-1.50	0.2-0.6	0.10-0.15	6.1-7.3	<2	Moderate	0.20	5	8	[illegible]
	14-30	25-35	1.40-1.55	0.2-0.6	0.10-0.14	6.6-7.8	<2	Moderate	0.24			
	30-60	15-25	1.50-1.60	0.6-2.0	0.08-0.12	6.6-8.4	<2	Low--------	0.24			

See footnote at end of table.

TABLE 18.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Moist bulk density	Permea- bility	Available water capacity	Soil reaction	Salinity	Shrink- swell potential	Erosion factors K	Erosion factors T	Wind erodi- bility group	Organic matter
	In	Pct	g/cc	In/hr	In/in	pH	mmhos/cm					Pct
283---------- Zacharias	0-15	27-35	1.40-1.50	0.2-0.6	0.10-0.15	6.1-7.3	<2	Moderate	0.20	5	8	1-2
	15-33	25-35	1.40-1.55	0.2-0.6	0.10-0.14	6.6-7.8	<2	Moderate	0.24			
	33-60	15-25	1.50-1.60	0.6-2.0	0.08-0.12	6.6-8.4	<2	Low--------	0.24			

* See description of the map unit for composition and behavior characteristics of the map unit.