Tables

TABLE 1.--TEMPERATURE AND PRECIPITATION

(Recorded in the period 1951-81 at Baker, Halfway, and Huntington, Oregon)

Month	Temperature						Precipitation				
	Average daily maximum	Average daily minimum	Average	2 years in 10 will have-- Maximum temperature higher than--	2 years in 10 will have-- Minimum temperature lower than--	Average number of growing degree days*	Average	2 years in 10 will have-- Less than--	2 years in 10 will have-- More than--	Average number of days with 0.10 inch or more	Average snowfall
	°F	°F	°F	°F	°F	Units	In	In	In		In
OLYMPIA:											
January----	35.7	19.0	27.4	55	-12	38	1.17	0.58	1.68	5	7.4
February---	42.6	23.6	33.1	61	-2	51	.76	.35	1.12	3	3.8
March------	49.7	26.5	38.1	71	8	71	1.04	.38	1.58	4	2.5
April------	59.5	31.5	45.5	80	18	194	.92	.28	1.43	4	.8
May--------	68.3	38.6	53.5	90	24	419	1.54	.63	2.30	5	.2
June-------	76.4	45.1	60.8	96	31	624	1.33	.43	2.06	4	.0
July-------	85.9	50.3	68.1	101	37	871	.69	.05	1.14	2	.0
August-----	84.3	48.8	66.6	99	35	825	.68	.11	1.11	2	.0
September--	76.5	41.7	59.1	95	27	573	.69	.10	1.13	2	.0
October----	62.9	33.8	48.4	84	17	270	.69	.16	1.11	3	.3
November---	46.8	27.0	36.9	66	5	53	1.18	.49	1.75	5	3.7
December---	37.6	21.0	29.3	55	-6	17	1.37	.63	2.01	5	7.0
Yearly:											
Average---	60.5	33.9	47.2	---	---	---	---	---	---	---	---
Extreme---	---	---	---	101	-15	---	---	---	---	---	---
Total-----	---	---	---	---	---	4,006	12.06	9.51	14.44	44	25.7
HALFWAY:											
January----	33.5	14.7	24.1	51	-21	31	3.43	1.90	4.78	9	21.0
February---	40.9	19.2	30.1	58	-12	42	2.24	1.18	3.16	6	8.2
March------	50.5	24.6	37.6	69	5	78	1.87	1.03	2.60	6	4.8
April------	61.3	30.4	45.9	80	15	191	1.42	.66	2.08	4	.6
May--------	70.7	36.9	53.8	90	21	428	1.51	.54	2.30	4	.1
June-------	78.9	42.8	60.9	97	29	627	1.32	.48	2.01	4	.0
July-------	88.7	47.1	67.9	101	34	865	.45	.09	.73	2	.0
August-----	87.1	45.3	66.2	101	32	812	.62	.05	1.05	2	.0
September--	78.4	38.3	58.4	94	24	552	.96	.19	1.57	2	.0
October----	64.2	30.4	47.3	84	15	232	1.32	.30	2.13	4	1.1
November---	47.1	24.5	35.8	66	4	28	2.73	1.09	4.10	7	8.5
December---	35.8	17.9	26.9	53	-12	13	3.75	1.81	5.41	8	17.8
Yearly:											
Average---	61.4	31.0	46.2	---	---	---	---	---	---	---	---
Extreme---	---	---	---	102	-24	---	---	---	---	---	---
Total-----	---	---	---	---	---	3,899	21.62	18.47	24.48	58	62.1

See footnote at end of table.

TABLE 1.--TEMPERATURE AND PRECIPITATION--Continued

Month	Temperature						Precipitation				
				2 years in 10 will have--				2 years in 10 will have--			
	Average daily maximum	Average daily minimum	Average	Maximum temperature higher than--	Minimum temperature lower than--	Average number of growing degree days*	Average	Less than--	More than--	Average number of days with 0.10 inch or more	Average snowfall
	°F	°F	°F	°F	°F	Units	In	In	In		In
HUNTINGTON:											
January----	37.1	21.3	29.2	53	-5	42	1.93	0.99	2.74	6	10.6
February---	45.1	26.3	35.7	63	6	63	1.31	.33	2.08	5	2.8
March------	54.6	31.2	42.9	73	16	140	1.04	.39	1.58	4	.5
April------	64.6	38.0	51.3	84	23	344	.84	.20	1.34	3	.0
May--------	74.8	47.0	60.9	94	29	648	1.01	.33	1.57	4	.0
June-------	84.1	55.2	69.7	103	38	891	.89	.18	1.44	3	.0
July-------	95.2	63.9	79.6	108	47	1,228	.25	---	.43	1	.0
August-----	92.3	61.5	76.9	106	42	1,144	.52	---	.89	1	.0
September--	81.9	50.6	66.3	99	33	789	.61	.06	1.03	2	.0
October----	66.7	38.8	52.8	86	23	397	.78	.10	1.29	3	.0
November---	49.5	29.2	39.4	68	9	72	1.50	.43	2.37	5	2.7
December---	39.4	23.2	31.3	56	1	16	2.09	.88	3.10	6	8.4
Yearly:											
Average---	65.4	40.5	53.0	---	---	---	---	---	---	---	---
Extreme---	---	---	---	108	-8	---	---	---	---	---	---
Total-----	---	---	---	---	---	5,774	12.77	10.24	15.00	43	25.0

* A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (40 degrees F).

TABLE 2.--FREEZE DATES IN SPRING AND FALL

(Recorded in the period 1951-81 at Baker, Halfway, and Huntington, Oregon)

Probability	Temperature		
	24 °F or lower	28 °F or lower	32 °F or lower
BAKER:			
Last freezing temperature in spring:			
1 year in 10 later than--	May 10	May 28	June 19
2 years in 10 later than--	May 3	May 21	June 12
5 years in 10 later than--	Apr. 20	May 8	May 29
First freezing temperature in fall:			
1 year in 10 earlier than--	Sept. 29	Sept. 18	Sept. 8
2 years in 10 earlier than--	Oct. 6	Sept. 24	Sept. 13
5 years in 10 earlier than--	Oct. 18	Oct. 5	Sept. 22
HALFWAY:			
Last freezing temperature in spring:			
1 year in 10 later than--	May 22	June 5	June 28
2 years in 10 later than--	May 15	May 30	June 21
5 years in 10 later than--	May 1	May 19	June 9
First freezing temperature in fall:			
1 year in 10 earlier than--	Sept. 23	Sept. 10	July 26
2 years in 10 earlier than--	Sept. 28	Sept. 15	Aug. 7
5 years in 10 earlier than--	Oct. 9	Sept. 25	Aug. 30

TABLE 2.--FREEZE DATES IN SPRING AND FALL--Continued

Probability	Temperature		
	24 °F or lower	28 °F or lower	32 °F or lower
HUNTINGTON:			
Last freezing temperature in spring:			
1 year in 10 later than--	Apr. 13	May 8	May 21
2 years in 10 later than--	Apr. 7	Apr. 30	May 14
5 years in 10 later than--	Mar. 27	Apr. 16	May 1
First freezing temperature in fall:			
1 year in 10 earlier than--	Oct. 19	Oct. 11	Sept. 22
2 years in 10 earlier than--	Oct. 24	Oct. 16	Sept. 28
5 years in 10 earlier than--	Nov. 2	Oct. 24	Oct. 9

TABLE 3.--GROWING SEASON

(Recorded in the period 1951-81 at Baker, Halfway, and Huntington, Oregon)

Probability	Daily minimum temperature during growing season		
	Higher than 24 °F	Higher than 28 °F	Higher than 32 °F
	Days	Days	Days
BAKER:			
9 years in 10	150	117	90
8 years in 10	160	128	99
5 years in 10	180	150	115
2 years in 10	200	172	132
1 year in 10	210	183	141
HALFWAY:			
9 years in 10	131	105	40
8 years in 10	141	113	54
5 years in 10	160	128	81
2 years in 10	179	144	108
1 year in 10	189	152	122
HUNTINGTON:			
9 years in 10	200	164	133
8 years in 10	207	173	142
5 years in 10	219	190	160
2 years in 10	232	208	177
1 year in 10	239	217	186

TABLE 4.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS

Map symbol	Soil name	Acres	Percent
1D	Anatone extremely stony loam, 12 to 35 percent south slopes	2,541	0.2
1F	Anatone extremely stony loam, 50 to 75 percent south slopes	1,451	0.1
2E	Anatone-Segundo complex, 35 to 50 percent south slopes	3,774	0.3
2F	Anatone-Segundo complex, 50 to 70 percent south slopes	1,935	0.1
3F	Angelpeak gravelly silt loam, 30 to 80 percent north slopes	490	*
4B	Applegate silt loam, 2 to 7 percent slopes	2,060	0.2
4C	Applegate silt loam, 7 to 15 percent slopes	2,253	0.2
5C	Aridic Haploxerolls, 2 to 12 percent slopes	2,256	0.2
6C	Ateron very stony loam, 2 to 12 percent slopes	28,114	2.0
7D	Ateron very stony loam, 12 to 35 percent south slopes	23,553	1.8
7E	Ateron very stony loam, 35 to 60 percent south slopes	17,813	1.3
8C	Ateron-Roostercomb extremely gravelly clay loams, 2 to 12 percent slopes	8,510	0.6
9D	Ateron-Roostercomb extremely gravelly clay loams, 12 to 35 percent south slopes	17,678	1.3
9E	Ateron-Roostercomb extremely gravelly clay loams, 35 to 60 percent south slopes	13,284	1.0
10C	Bakeoven-Ruckles complex, 2 to 12 percent slopes	4,535	0.3
11A	Baker silt loam, 0 to 2 percent slopes	12,728	0.9
11B	Baker silt loam, 2 to 7 percent slopes	7,867	0.6
12A	Baker silt loam, 0 to 2 percent slopes, warm	1,535	0.1
12B	Baker silt loam, 2 to 7 percent slopes, warm	442	*
13A	Baldock silt loam, 0 to 2 percent slopes	9,672	0.7
14D	Baldridge very gravelly loam, 12 to 35 percent south slopes	2,854	0.2
14E	Baldridge very gravelly loam, 35 to 50 percent south slopes	1,965	0.1
14F	Baldridge very gravelly loam, 50 to 70 percent south slopes	464	*
15A	Balm loam, 0 to 3 percent slopes	3,023	0.2
16B	Barnard silt loam, 2 to 7 percent slopes	3,162	0.2
16C	Barnard silt loam, 7 to 12 percent slopes	1,913	0.1
16D	Barnard silt loam, 12 to 20 percent slopes	499	*
17C	Barnard cobbly silt loam, 7 to 20 percent slopes	1,960	0.1
18B	Benderly gravelly fine sandy loam, 0 to 7 percent slopes	2,313	0.2
19E	Boiler gravelly loam, 35 to 60 percent north slopes	1,729	0.1
20D	Bouldrock loam, 12 to 35 percent south slopes	8,789	0.7
21E	Bouldrock complex, 35 to 60 percent south slopes	6,410	0.5
22E	Bouldrock-Kilmerque complex, 35 to 60 percent south slopes	2,763	0.2
22F	Bouldrock-Kilmerque complex, 60 to 80 percent south slopes	817	0.1
23A	Boyce silt loam, 0 to 2 percent slopes	1,049	0.1
24D	Brannan channery silt loam, 2 to 35 percent north slopes	393	*
24E	Brannan channery silt loam, 35 to 50 percent north slopes	1,308	0.1
24F	Brannan channery silt loam, 50 to 70 percent north slopes	937	0.1
25C	Brownlee-Shangland loams, 2 to 12 percent slopes	4,386	0.3
26D	Brownlee-Shangland loams, 12 to 35 percent south slopes	7,082	0.5
27C	Brownscombe silt loam, 2 to 12 percent slopes	3,485	0.3
28D	Brownscombe silt loam, 12 to 35 percent north slopes	2,256	0.2
29D	Brownscombe silt loam, 12 to 35 percent south slopes	1,823	0.1
30E	Brownscombe-Rock outcrop complex, 35 to 60 percent north slopes	933	0.1
31A	Burkemont silty clay loam, 0 to 2 percent slopes	6,184	0.5
32A	Burntriver silt loam, 0 to 2 percent slopes	2,541	0.2
33C	Burntriver gravelly silt loam, 2 to 12 percent slopes	4,110	0.3
34D	Campcreek-Skullgulch association, 12 to 35 percent slopes	15,897	1.2
34E	Campcreek-Skullgulch association, 35 to 60 percent slopes	10,556	0.8
35A	Catherine silt loam, 0 to 2 percent slopes	2,466	0.2
36C	Clovercreek-Keating complex, 2 to 12 percent slopes	13,369	1.0
37D	Clovercreek-Keating complex, 12 to 35 percent south slopes	5,455	0.4
38E	Copperfield-Rock outcrop complex, 30 to 50 percent north slopes	2,516	0.2
38F	Copperfield-Rock outcrop complex, 50 to 80 percent north slopes	6,569	0.5
39D	Crackler-Rouen gravelly silt loams, 2 to 30 percent north slopes	4,916	0.4
39E	Crackler-Rouen gravelly silt loams, 30 to 50 percent north slopes	5,800	0.4
40A	Cumulic Haploxerolls, 0 to 2 percent slopes	4,365	0.3
41A	Damore-Silvies silt loams, 0 to 3 percent slopes	5,953	0.4
42D	Derringer-Harlow complex, 12 to 35 percent south slopes	7,972	0.6
43E	Dogtown complex, 35 to 55 percent north slopes	7,075	0.5
44F	Dogtown very stony loam, 55 to 80 percent north slopes	1,953	0.1

See footnote at end of table.

TABLE 4.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS--Continued

Map symbol	Soil name	Acres	Percent
45C	Durkee gravelly silt loam, 2 to 12 percent slopes	12,651	0.9
46D	Durkee gravelly silt loam, 12 to 35 percent north slopes	14,421	1.1
46E	Durkee gravelly silt loam, 35 to 60 percent north slopes	9,007	0.7
47D	Durkee gravelly silt loam, 12 to 35 percent south slopes	20,987	1.6
47E	Durkee gravelly silt loam, 35 to 60 percent south slopes	6,047	0.4
48F	Eaglecap very stony loam, 30 to 80 percent north slopes	991	0.1
49D	Emily silt loam, 12 to 35 percent north slopes	751	0.1
49E	Emily silt loam, 35 to 60 percent north slopes	1,075	0.1
50C	Encina gravelly silt loam, 2 to 12 percent slopes	6,441	0.5
51D	Encina gravelly silt loam, 12 to 35 percent south slopes	14,322	1.1
51E	Encina gravelly silt loam, 35 to 50 percent south slopes	1,896	0.1
52E	Fivebit-Rock outcrop complex, 35 to 60 percent south slopes	1,411	0.1
53B	Glasgow silt loam, 2 to 7 percent slopes	382	*
54B	Goodrich gravelly loam, 0 to 7 percent slopes	4,454	0.3
55B	Goodrich-Benderly complex, 0 to 7 percent slopes	3,066	0.2
56C	Greenscombe loam, 2 to 12 percent slopes	3,375	0.3
57D	Greenscombe loam, 12 to 35 percent north slopes	3,014	0.2
58D	Greenscombe loam, 12 to 35 percent south slopes	5,828	0.4
59D	Gwinly-Immig very cobbly silt loams, 12 to 35 percent south slopes	16,185	1.1
59E	Gwinly-Immig very cobbly silt loams, 35 to 50 percent south slopes	7,631	0.6
59F	Gwinly-Immig very cobbly silt loams, 50 to 70 percent south slopes	8,977	0.7
60D	Gwinly-Immig-Snell very cobbly silt loams, 12 to 35 percent slopes	7,386	0.5
60E	Gwinly-Immig-Snell very cobbly silt loams, 35 to 50 percent slopes	4,712	0.4
60F	Gwinly-Immig-Snell very cobbly silt loams, 50 to 70 percent slopes	550	*
61D	Gwinly-Rockly complex, 12 to 35 percent south slopes	3,833	0.3
62A	Haines silt loam, 0 to 2 percent slopes	10,289	0.8
63A	Halfway clay, 0 to 3 percent slopes	870	0.1
64C	Hall Ranch stony loam, 2 to 12 percent slopes	1,377	0.1
65D	Hankins silt loam, 12 to 35 percent north slopes	3,555	0.3
66D	Hankins very cobbly loam, 12 to 35 percent north slopes	1,239	0.1
67C	Hankins complex, 2 to 12 percent slopes	682	0.1
68C	Harlow extremely stony clay loam, 3 to 12 percent slopes	631	*
69E	Harlow-Derringer complex, 35 to 60 percent south slopes	7,852	0.6
70A	Hershal silt loam, 0 to 2 percent slopes	3,783	0.3
71B	Hibbard silt loam, 2 to 7 percent slopes	1,396	0.1
71C	Hibbard silt loam, 7 to 12 percent slopes	1,139	0.1
72C	Hibbard gravelly silty clay loam, 2 to 12 percent slopes	7,380	0.5
73B	Hibbard-Rockly complex, 2 to 7 percent slopes	912	0.1
74D	Highhorn-Huntrock very gravelly silt loams, 12 to 30 percent south slopes	4,325	0.3
74E	Highhorn-Huntrock very gravelly silt loams, 30 to 50 percent south slopes	4,133	0.3
75D	Hudspeth very stony clay loam, 12 to 35 percent south slopes	1,230	0.1
76D	Hudspeth-Morningstar complex, 12 to 35 percent south slopes	2,805	0.2
76E	Hudspeth-Morningstar complex, 35 to 60 percent south slopes	2,517	0.2
77F	Huntrock-Highhorn very gravelly silt loams, 50 to 75 percent south slopes	912	0.1
78E	Hyall-Badland complex, 35 to 60 percent south slopes	3,209	0.2
79D	Hyall-Simas association, 12 to 35 percent slopes	9,504	0.7
80E	Hyall-Simas association, 35 to 60 percent slopes	4,918	0.4
81C	Immig silt loam, 2 to 12 percent slopes	1,105	0.1
82C	Immig very cobbly silt loam, 2 to 12 percent slopes	1,894	0.1
83D	Inkler very gravelly loam, 2 to 35 percent north slopes	2,841	0.2
83E	Inkler very gravelly loam, 35 to 50 percent north slopes	4,867	0.4
83F	Inkler very gravelly loam, 50 to 70 percent north slopes	5,704	0.4
84D	Jett silt loam, 0 to 3 percent slopes	5,837	0.4
85D	Keating silt loam, 12 to 35 percent north slopes	2,135	0.2
86D	Kilmerque loam, 12 to 35 percent south slopes	5,429	0.4
86E	Kilmerque loam, 35 to 50 percent south slopes	3,789	0.3
87D	Klicker stony silt loam, 12 to 35 percent south slopes	1,029	0.1
87E	Klicker stony silt loam, 35 to 60 percent south slopes	1,751	0.1
88D	Klicker-Anatone complex, 12 to 35 percent south slopes	2,414	0.2
89D	Klicker-Fivebit complex, 12 to 35 percent south slopes	4,062	0.3
89E	Klicker-Fivebit complex, 35 to 60 percent south slopes	3,208	0.2

See footnote at end of table.

TABLE 4.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS--Continued

Map symbol	Soil name	Acres	Percent
90B	Ladd loam, 2 to 7 percent slopes	3,667	0.3
90C	Ladd loam, 7 to 12 percent slopes	2,316	0.2
91A	La Grande silt loam, 0 to 3 percent slopes	1,130	0.1
92A	Langrell gravelly loam, 0 to 3 percent slopes	4,361	0.3
93A	Langrell very cobbly loam, 0 to 3 percent slopes	977	0.1
94C	Legler silt loam, 2 to 8 percent slopes	10,783	0.8
95C	Legler gravelly loam, 8 to 20 percent slopes	4,511	0.3
96E	Lickskillet very gravelly sandy loam, 30 to 50 percent south slopes	4,087	0.3
96F	Lickskillet very gravelly sandy loam, 50 to 70 percent south slopes	5,274	0.4
97E	Lickskillet-Rock outcrop complex, 35 to 60 percent south slopes	1,216	0.1
98C	Lookout silt loam, 2 to 12 percent slopes	3,988	0.3
99C	Lookout very cobbly silt loam, 2 to 12 percent slopes	9,601	0.7
100D	Lostbasin very channery loam, 12 to 35 percent south slopes	14,375	1.1
101E	Lostbasin-Xerorthents-Rock outcrop complex, 35 to 50 percent south slopes	19,688	1.4
102C	Lovline channery loam, 2 to 12 percent slopes	890	0.1
103D	Lovline channery loam, 12 to 30 percent north slopes	1,598	0.1
103E	Lovline channery loam, 30 to 50 percent north slopes	6,204	0.5
103F	Lovline channery loam, 50 to 70 percent north slopes	6,374	0.5
104D	Marack silt loam, 12 to 35 percent north slopes	5,602	0.4
105C	Marack gravelly silty clay loam, 2 to 12 percent slopes	13,722	1.0
106D	Marack very gravelly silty clay loam, 12 to 35 percent south slopes	8,209	0.6
107C	Marack complex, 2 to 12 percent slopes	3,476	0.3
108D	Marack-Badland complex, 8 to 40 percent slopes	2,457	0.2
109C	McEwen silt loam, 2 to 12 percent slopes	6,648	0.5
110D	McEwen gravelly silt loam, 12 to 20 percent slopes	1,170	0.1
111D	McGarr-Kahler complex, 12 to 35 percent north slopes	3,190	0.2
111E	McGarr-Kahler complex, 35 to 60 percent north slopes	2,642	0.2
112D	Morningstar extremely gravelly loam, 12 to 35 percent south slopes	2,406	0.2
113D	Nagle silt loam, 12 to 35 percent north slopes	3,440	0.3
113E	Nagle silt loam, 35 to 50 percent north slopes	1,534	0.1
114C	North Powder loam, 2 to 12 percent slopes	6,242	0.5
115D	North Powder loam, 12 to 35 percent north slopes	528	*
116D	North Powder loam, 12 to 35 percent south slopes	2,191	0.2
117D	North Powder-Rock outcrop complex, 12 to 35 percent south slopes	614	*
118C	Oxman silt loam, 2 to 12 percent slopes	2,213	0.2
119D	Oxman silt loam, 12 to 35 percent south slopes	1,491	0.1
120D	Oxman-Xeric Torriorthents silt loams, 12 to 35 percent south slopes	2,395	0.2
121E	Piersonte very channery loam, 35 to 50 percent north slopes	7,366	0.5
121F	Piersonte very channery loam, 50 to 70 percent north slopes	2,269	0.2
122C	Poall very fine sandy loam, 2 to 12 percent slopes	5,398	0.4
123D	Poall very fine sandy loam, 12 to 40 percent north slopes	4,210	0.3
124D	Poall very fine sandy loam, 12 to 40 percent south slopes	9,042	0.7
125D	Poall-Xeric Torriorthents complex, 12 to 40 percent south slopes	1,126	0.1
126A	Powval silt loam, 0 to 3 percent slopes	11,581	0.9
127A	Powval silt loam, 0 to 3 percent slopes, warm	1,591	0.1
128B	Pritchard silty clay loam, 2 to 7 percent slopes	582	*
129B	Rastus very gravelly loam, 1 to 7 percent slopes	8,825	0.7
130E	Redcliff gravelly loam, 30 to 50 percent north slopes	2,929	0.2
130F	Redcliff gravelly loam, 50 to 75 percent north slopes	3,534	0.3
131C	Ridley-Keating silt loams, 2 to 12 percent slopes	8,614	0.6
132A	Riverwash, 0 to 2 percent slopes	726	0.1
133C	Robinette-Gwinly complex, 2 to 12 percent slopes	17,736	1.2
134F	Rock outcrop-Lostbasin-Xerorthents complex, 50 to 80 percent south slopes	6,189	0.5
135F	Rock outcrop-Ruckles complex, 50 to 70 percent south slopes	1,210	0.1
136F	Rock outcrop-Ruclick complex, 50 to 70 percent north slopes	3,206	0.2
137F	Rock outcrop-Snell complex, 50 to 80 percent north slopes	887	0.1
138F	Rock outcrop-Snellby complex, 50 to 80 percent north slopes	207	*
139F	Rock outcrop-Xeric Torriorthents-Darkcanyon complex, 50 to 80 percent south slopes	4,928	0.4
140C	Rockly-Gwinly complex, 2 to 12 percent slopes	6,658	0.5
141D	Roostercomb-Longbranch complex, 12 to 35 percent north slopes	19,319	1.4
141E	Roostercomb-Longbranch complex, 35 to 50 percent north slopes	12,140	0.9

See footnote at end of table.

TABLE 4.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS--Continued

Map symbol	Soil name	Acres	Percent
142C	Ruckles-Ruclick complex, 2 to 12 percent slopes	16,987	1.3
143D	Ruckles-Ruclick complex, 12 to 35 percent south slopes	34,542	2.6
143E	Ruckles-Ruclick complex, 35 to 50 percent south slopes	19,086	1.4
143F	Ruckles-Ruclick complex, 50 to 70 percent south slopes	7,769	0.6
144E	Ruckles-Ruclick-Snellby complex, 35 to 50 percent slopes	5,745	0.4
144F	Ruckles-Ruclick-Snellby complex, 50 to 70 percent slopes	3,321	0.2
145D	Ruclick very cobbly silt loam, 12 to 35 percent north slopes	13,596	1.0
145E	Ruclick very cobbly silt loam, 35 to 50 percent north slopes	11,585	0.9
146D	Sag-Snell complex, 12 to 35 percent north slopes	6,916	0.5
146E	Sag-Snell complex, 35 to 50 percent north slopes	4,418	0.3
147D	Segundo very gravelly loam, 2 to 35 percent south slopes	4,745	0.4
147E	Segundo very gravelly loam, 35 to 50 percent south slopes	5,692	0.4
147F	Segundo very gravelly loam, 50 to 75 percent south slopes	4,978	0.4
148F	Sinker very channery loam, 50 to 80 percent north slopes	4,782	0.4
149D	Sinker and Chambeam soils, 12 to 35 percent north slopes	9,769	0.7
149E	Sinker and Chambeam soils, 35 to 50 percent north slopes	16,351	1.2
150D	Sisley very channery loam, 2 to 35 percent south slopes	2,369	0.2
150E	Sisley very channery loam, 35 to 50 percent south slopes	2,759	0.2
150F	Sisley very channery loam, 50 to 70 percent south slopes	826	0.1
151D	Skullgulch silty clay loam, 7 to 20 percent north slopes	798	0.1
152F	Snaker channery loam, 50 to 80 percent south slopes	7,531	0.6
153E	Snaker-Darkcanyon complex, 30 to 50 percent south slopes	11,849	0.9
154E	Snaker-Darkcanyon-Xeric Torriorthents complex, 30 to 50 percent south slopes	2,277	0.2
155D	Snell-Ateron complex, 12 to 35 percent north slopes	29,353	2.2
155E	Snell-Ateron complex, 35 to 60 percent north slopes	20,980	1.6
156D	Snell-Rock outcrop complex, 12 to 35 percent north slopes	1,292	0.1
157F	Snell-Sag complex, 50 to 70 percent north slopes	3,013	0.2
158D	Snellby stony silt loam, 12 to 35 percent north slopes	3,570	0.3
158E	Snellby stony silt loam, 35 to 50 percent north slopes	1,676	0.1
159A	Stanflow-Umapine silt loams, 0 to 2 percent slopes	5,047	0.4
160E	Stavely coarse sandy loam, 20 to 50 percent south slopes	336	*
161E	Stices gravelly loam, 35 to 50 percent north slopes	3,433	0.3
161F	Stices gravelly loam, 50 to 80 percent north slopes	1,949	0.1
162A	Sumpley-Stovepipe silt loams, 0 to 3 percent slopes	2,306	0.2
163D	Taterpa loam, 12 to 35 percent north slopes	6,645	0.5
163E	Taterpa loam, 35 to 60 percent north slopes	5,818	0.4
164D	Tolo-Crackler complex, 12 to 35 percent north slopes	1,230	0.1
165D	Tolo-Dogtown complex, 12 to 35 percent north slopes	9,097	0.7
166D	Top silt loam, 12 to 35 percent north slopes	3,138	0.2
166E	Top silt loam, 35 to 60 percent north slopes	1,069	0.1
167D	Top-McGarr complex, 12 to 35 percent north slopes	8,903	0.7
167E	Top-McGarr complex, 35 to 65 percent north slopes	8,922	0.7
168C	Typic Xerorthents, cobbly, 2 to 12 percent slopes	4,343	0.3
169C	Ukiah silty clay loam, 2 to 12 percent slopes	986	0.1
169D	Ukiah silty clay loam, 12 to 20 percent slopes	1,904	0.1
170A	Umapine silt loam, 0 to 2 percent slopes	6,120	0.5
171B	Virtue silt loam, 2 to 7 percent slopes	19,657	1.5
171C	Virtue silt loam, 7 to 12 percent slopes	19,749	1.5
172B	Virtue very gravelly silt loam, 2 to 7 percent slopes	3,146	0.2
172C	Virtue very gravelly silt loam, 7 to 12 percent slopes	6,353	0.5
173C	Wahstal very cobbly loam, 2 to 12 percent slopes	3,518	0.3
174B	Webfoot silt loam, 0 to 7 percent slopes	363	*
175A	Wingdale silt loam, 0 to 2 percent slopes	5,902	0.4
176A	Wingville silt loam, 0 to 2 percent slopes	18,593	1.4
177E	Xeric Torriorthents, 35 to 60 percent south slopes	1,724	0.1
178F	Xeric Torriorthents-Rock outcrop complex, 50 to 80 percent slopes	1,357	0.1
	Water	10,817	0.8
	Total	1,345,100	100.0

* Less than 0.1 percent.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE

(Yields in the N columns are for nonirrigated soils; those in the I columns are for irrigated soils. Yields are those that can be expected under a high level of management. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil)

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
1D---------- Anatone	VIIs	---	---	---	---	---	---	---	---	---	---	---
1F---------- Anatone	VIIe	---	---	---	---	---	---	---	---	---	---	---
2E**----------		---	---	---	---	---	---	---	---	---	---	---
Anatone----------	VIIe											
Segundo----------	VIe											
2F---------- Anatone-Segundo	VIIe	---	---	---	---	---	---	---	---	---	---	---
3F---------- Angelpeak	VIIe	---	---	---	---	---	---	---	---	---	---	---
4B---------- Applegate	IIe	IIIe	---	8.0	---	5.0	---	4.0	55	80	1.0	---
4C---------- Applegate	IIIe	IVe	---	6.0	---	5.0	---	4.0	55	80	1.0	---
5C---------- Aridic Haploxerolls	VIs	---	---	---	---	---	---	---	---	---	---	---
6C, 7D, 7E-------- Ateron	VIIs	---	---	---	---	---	---	---	---	---	---	---
8C**, 9D**--------		---	---	---	---	---	---	---	---	---	---	---
Ateron----------	VIIs											
Roostercomb------	IVe											
9E**----------		---	---	---	---	---	---	---	---	---	---	---
Ateron----------	VIIs											
Roostercomb------	VIe											
10C**---------- Bakeoven-Ruckles	VIIs	---	---	---	---	---	---	---	---	---	---	---
11A---------- Baker	IVs	IIIs	---	8.0	---	6.0	---	4.0	25	80	---	2.0
11B---------- Baker	IVe	IIIe	---	8.0	---	6.0	---	4.0	25	80	---	2.0
12A---------- Baker	IVs	IIIs	---	10.0	---	7.0	---	6.0	---	---	---	2.5
12B---------- Baker	IVs	IIIe	---	10.0	---	7.0	---	6.0	---	---	---	2.5
13A---------- Baldock	IVw	IIIw	2	6.0	---	---	2.0	4.0	---	---	---	1.0

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
14D---------- Baldridge	IVe	---	---	---	---	---	---	---	---	---	---	---
14E---------- Baldridge	VIe	---	---	---	---	---	---	---	---	---	---	---
14F---------- Baldridge	VIIe	---	---	---	---	---	---	---	---	---	---	---
15A---------- Balm	IVc	IIw	---	7.0	---	---	---	5.0	---	---	---	---
16B---------- Barnard	IVs	IIIe	---	8.0	---	5.0	---	4.0	---	60	---	2.0
16C---------- Barnard	IVs	IVe	---	7.0	---	5.0	---	4.0	---	60	---	2.0
16D---------- Barnard	IVs	VIe	---	6.0	---	---	---	---	---	60	---	2.0
17C---------- Barnard	IVs	VIe	---	6.0	---	---	---	---	---	---	---	---
18B---------- Benderly	IVs	IVs	---	5.0	---	---	---	---	---	---	---	---
19E---------- Boiler	VIe	---	---	---	---	---	---	---	---	---	---	---
20D---------- Bouldrock	IVe	---	---	---	---	---	---	---	---	---	---	---
21E**----------		---	---	---	---	---	---	---	---	---	---	---
Bouldrock--------	VIe											
Bouldrock--------	VIs											
22E----------		---	---	---	---	---	---	---	---	---	---	---
Bouldrock--------	VIs											
Kilmerque--------	VIe											
22F**---------- Bouldrock-Kilmerque	VIe	---	---	---	---	---	---	---	---	---	---	---
23A---------- Boyce	IIIw	IIIw	---	6.0	---	---	---	---	---	---	---	---
24D, 24E---------- Brannan	VIe	---	---	---	---	---	---	---	---	---	---	---
24F---------- Brannan	VIIe	---	---	---	---	---	---	---	---	---	---	---
25C**----------		---	---	---	---	---	---	---	---	---	---	---
Brownlee---------	IIIe											
Shangland--------	IVe											

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
26D**---------- Brownlee-Shangland	IVe	---	---	---	---	---	---	---	---	---	---	---
27C---------- Brownscombe	IVs	IVe	---	6.0	---	4.0	---	3.0	25	75	---	---
28D, 29D---------- Brownscombe	IVe	---	---	---	---	---	---	---	---	---	---	---
30E**----------		---	---	---	---	---	---	---	---	---	---	---
Brownscombe------	VIe											
Rock outcrop-----	VIIIs											
31A---------- Burkemont	IIIw	IIIw	1.0	6.0	---	---	---	4.0	---	---	---	---
32A---------- Burntriver	IVc	IIIc	---	5.0	---	4.0	---	3.0	---	---	---	---
33C---------- Burntriver	IVe	---	---	---	---	---	---	---	---	---	---	---
34D**---------- Campcreek-Skullgulch	IVe	---	---	---	---	---	---	---	---	---	---	---
34E**---------- Campcreek-Skullgulch	VIe	---	---	---	---	---	---	---	---	---	---	---
35A---------- Catherine	IIw	IIw	---	7.0	---	5.0	---	4.0	---	80	---	1.8
36C**:												
Clovercreek------	VIIs	---	---	---	---	---	---	---	---	---	---	---
Keating----------	IVs	IVe	---	5.0	---	4.0	---	---	---	65	---	1.5
37D**----------		---	---	---	---	---	---	---	---	---	---	---
Clovercreek------	VIIs											
Keating----------	IVe											
38E**----------		---	---	---	---	---	---	---	---	---	---	---
Copperfield------	VIe											
Rock outcrop-----	VIIIs											
38F**----------		---	---	---	---	---	---	---	---	---	---	---
Copperfield------	VIIe											
Rock outcrop-----	VIIIs											
39D**----------		---	---	---	---	---	---	---	---	---	---	---
Crackler---------	IVe											
Rouen----------	VIe											
39E**----------		---	---	---	---	---	---	---	---	---	---	---
Crackler-Rouen	VIe											
40A---------- Cumulic Haploxerolls	IIIw	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
41A**----------		---	---	3.0	---	---	---	2.0	---	---	---	---
Damore----------	IIIe											
Silvies----------	Vw											
42D**----------		---	---	---	---	---	---	---	---	---	---	---
Derringer--------	IVe											
Harlow----------	VIIs											
43E**----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Dogtown-Dogtown												
44F----------	VIIs	---	---	---	---	---	---	---	---	---	---	---
Dogtown												
45C----------	IVe	---	---	---	---	---	---	---	---	---	---	---
Durkee												
46D----------	IVe	---	---	---	---	---	---	---	---	---	---	---
Durkee												
46E----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Durkee												
47D----------	IVe	---	---	---	---	---	---	---	---	---	---	---
Durkee												
47E----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Durkee												
48F----------	VIIs	---	---	---	---	---	---	---	---	---	---	---
Eaglecap												
49D----------	IVe	---	---	---	---	---	---	---	---	---	---	---
Emily												
49E----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Emily												
50C----------	VIe	IVe	---	5.0	---	---	---	4.0	---	---	---	2.0
Encina												
51D----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Encina												
51E----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Encina												
52E**----------		---	---	---	---	---	---	---	---	---	---	---
Fivebit----------	VIIs											
Rock outcrop-----	VIIIs											
53B----------	VIe	IIIe	---	---	---	---	---	---	---	---	---	---
Glasgow												
54B----------	IVe	IIs	---	7.0	---	5.0	---	---	---	80	---	2.0
Goodrich												
55B**:												
Goodrich---------	IVe	---	---	6.0	---	---	---	---	---	---	---	---
Benderly---------	IVs	---	---	5.0	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
56C, 57D, 58D----- Greenscombe	IVe	---	---	---	---	---	---	---	---	---	---	---
59D**, 59E**------		---	---	---	---	---	---	---	---	---	---	---
Gwinly----------	VIIs											
Immig----------	VIs											
59F**----------		---	---	---	---	---	---	---	---	---	---	---
Gwinly-Immig	VIIe											
60D**, 60E**------		---	---	---	---	---	---	---	---	---	---	---
Gwinly----------	VIIs											
Immig----------	VIe											
Snell----------	VIe											
60F**----------		---	---	---	---	---	---	---	---	---	---	---
Gwinly-Immig-Snell	VIIe											
61D**---------- Gwinly-Rockly	VIIs	---	---	---	---	---	---	---	---	---	---	---
62A---------- Haines	IVw	---	---	6.0	---	---	---	4.0	---	---	---	---
63A---------- Halfway	IIIs	IIIs	---	6.0	---	---	---	4.0	---	---	---	---
64C---------- Hall Ranch	IVs	---	---	---	---	---	---	---	---	---	---	---
65D, 66D---------- Hankins	VIe	---	---	---	---	---	---	---	---	---	---	---
67C**---------- Hankins-Hankins	VIe	---	---	---	---	---	---	---	---	---	---	---
68C---------- Harlow	VIIs	---	---	---	---	---	---	---	---	---	---	---
69E**----------		---	---	---	---	---	---	---	---	---	---	---
Harlow----------	VIIs											
Derringer--------	VIe											
70A---------- Hershal	IIIw	IIIw	---	6.0	---	---	---	4.0	---	---	---	---
71B, 71C, 72C----- Hibbard	IVe	IIIe	---	6.0	---	4.0	---	---	---	---	---	---
73B**----------		---	---	---	---	---	---	---	---	---	---	---
Hibbard----------	IVe											
Rockly----------	VIIs											
74D**---------- Highhorn-Huntrock	IVe	---	---	---	---	---	---	---	---	---	---	---
74E**---------- Highhorn-Huntrock	VIe	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
75D---------- Hudspeth	VIs	---	---	---	---	---	---	---	---	---	---	---
76D**---------- Hudspeth- Morningstar	VIs	---	---	---	---	---	---	---	---	---	---	---
76E**---------- Hudspeth- Morningstar	VIe	---	---	---	---	---	---	---	---	---	---	---
77F**----------		---	---	---	---	---	---	---	---	---	---	---
Huntrock---------	VIe											
Highhorn---------	VIIe											
78E**----------		---	---	---	---	---	---	---	---	---	---	---
Hyall----------	VIe											
Badland----------	VIIIe											
79D**----------	IVe	---	---	---	---	---	---	---	---	---	---	---
Hyall----------	IVe											
Simas----------	VIe											
80E**----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Hyall-Simas	VIe											
81C---------- Immig	IVs	IVe	---	6.0	---	---	---	6.0	---	---	---	---
82C---------- Immig	VIe	---	---	---	---	---	---	---	---	---	---	---
83D---------- Inkler	IVe	---	---	---	---	---	---	---	---	---	---	---
83E---------- Inkler	VIe	---	---	---	---	---	---	---	---	---	---	---
83F---------- Inkler	VIIe	---	---	---	---	---	---	---	---	---	---	---
84D---------- Jett	IVc	IIc	---	9.0	---	6.0	---	5.0	---	90	---	2.2
85D---------- Keating	IVe	---	---	---	---	---	---	---	---	---	---	---
86D---------- Kilmerque	IVe	---	---	---	---	---	---	---	---	---	---	---
86E---------- Kilmerque	VIe	---	---	---	---	---	---	---	---	---	---	---
87D---------- Klicker	VIe	---	---	---	---	---	---	---	---	---	---	---
87E---------- Klicker	VIIe	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
88D**----------		---	---	---	---	---	---	---	---	---	---	---
Klicker----------	VIe											
Anatone----------	VIIs											
89D**----------		---	---	---	---	---	---	---	---	---	---	---
Klicker----------	VIe											
Fivebit----------	VIIs											
89E**----------		---	---	---	---	---	---	---	---	---	---	---
Klicker----------	VIIe											
Fivebit----------	VIIs											
90B----------	IIe	IIe	---	8.0	---	6.0	---	---	---	100	---	---
Ladd												
90C----------	IIIe	IIIe	---	7.0	---	5.0	---	---	---	---	---	---
Ladd												
91A----------	IIc	IIc	---	10.0	3.5	7.0	---	---	75	95	---	2.0
La Grande												
92A----------	IIIs	IIIs	1.0	7.0	---	5.0	---	4.0	---	70	1.0	1.7
Langrell												
93A----------	IVs	IVs	0.7	5.0	---	---	---	---	---	---	---	---
Langrell												
94C, 95C----------	VIe	VIe	---	7.0	---	5.0	---	---	---	---	---	---
Legler												
96E, 96F----------	VIIs	---	---	---	---	---	---	---	---	---	---	---
Lickskillet												
97E**----------		---	---	---	---	---	---	---	---	---	---	---
Lickskillet------	VIIs											
Rock outcrop-----	VIIIs											
98C, 99C----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Lookout												
100D----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Lostbasin												
101E**----------		---	---	---	---	---	---	---	---	---	---	---
Lostbasin--------	VIe											
Xerorthents------	VIIe											
Rock outcrop-----	VIIIs											
102C, 103D--------	VIe	---	---	---	---	---	---	---	---	---	---	---
Lovline												
103E----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Lovline												
103F----------	VIIe	---	---	---	---	---	---	---	---	---	---	---
Lovline												
104D----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Marack												

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
105C---------- Marack	VIe	IIIe	---	7.0	---	5.0	---	---	---	90	0.5	---
106D---------- Marack	VIe	---	---	---	---	---	---	---	---	---	---	---
107C**---------- Marack-Marack	VIe	---	---	7	---	5	---	---	---	90	0.5	---
108D**----------		---	---	---	---	---	---	---	---	---	---	---
Marack----------	VIe											
Badland----------	VIIIe											
109C---------- McEwen	IIIc	---	---	---	---	---	---	---	---	---	---	---
110D---------- McEwen	IIIe	---	---	---	---	---	---	---	---	---	---	---
111D**----------		---	---	---	---	---	---	---	---	---	---	---
McGarr----------	VIs											
Kahler----------	IVe											
111E**---------- McGarr-Kahler	VIe	---	---	---	---	---	---	---	---	---	---	---
112D---------- Morningstar	VIs	---	---	---	---	---	---	---	---	---	---	---
113D---------- Nagle	VIe	---	---	---	---	---	---	---	---	---	---	---
113E---------- Nagle	VIe	---	---	---	---	---	---	---	---	---	---	---
114C---------- North Powder	VIe	IVe	0.5	7.0	---	5.0	---	---	25	80	---	1.0
115D, 116D-------- North Powder	VIe	---	---	---	---	---	---	---	---	---	---	---
117D**----------		---	---	---	---	---	---	---	---	---	---	---
North Powder-----	VIe											
Rock outcrop-----	VIIIs											
118C, 119D-------- Oxman	VIe	---	---	---	---	---	---	---	---	---	---	---
120D**----------		---	---	---	---	---	---	---	---	---	---	---
Oxman----------	VIe											
Xeric----------	VIIe											
Torriorthents----	VIIe											
121E---------- Piersonte	VIe	---	---	---	---	---	---	---	---	---	---	---
121F---------- Piersonte	VIIe	---	---	---	---	---	---	---	---	---	---	---
122C---------- Poall	VIe	IVe	---	7.0	---	5.0	---	4.0	---	---	---	---

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
123D, 124D-------- Poall	VIe	---	---	---	---	---	---	---	---	---	---	---
125D**----------		---	---	---	---	---	---	---	---	---	---	---
Poall----------	VIe											
Xeric----------	VIIe											
Torriorthents----	VIIe											
126A---------- Powval	IVc	IIc	---	9.0	---	6.0	---	5.0	25	70	---	2.2
127A---------- Powval	IVc	IIc	---	10.0	---	7.0	---	5.0	---	100	---	2.2
128B---------- Pritchard	IIIc	IIIe	---	---	---	---	---	---	---	---	---	---
129B---------- Rastus	IVe	---	---	---	---	---	---	---	---	---	---	---
130E---------- Redcliff	VIe	---	---	---	---	---	---	---	---	---	---	---
130F---------- Redcliff	VIIe	---	---	---	---	---	---	---	---	---	---	---
131C**:												
Ridley----------	IIIe	IIIe	---	6.0	---	5.0	---	---	---	71	---	1.7
Keating----------	IVs	IVe	---	---	---	---	---	---	---	---	---	---
132A**---------- Riverwash	VIIIw	---	---	---	---	---	---	---	---	---	---	---
133C**----------		---	---	---	---	---	---	---	---	---	---	---
Robinette--------	IIIe											
Gwinly----------	VIIs											
134F**----------		---	---	---	---	---	---	---	---	---	---	---
Rock outcrop-----	VIIIs											
Lostbasin--------	VIIe											
Xerorthents------	VIIe											
135F**----------		---	---	---	---	---	---	---	---	---	---	---
Rock outcrop-----	VIIIs											
Ruckles----------	VIIs											
136F**----------		---	---	---	---	---	---	---	---	---	---	---
Rock outcrop-----	VIIIs											
Ruclick----------	VIIe											
137F**----------		---	---	---	---	---	---	---	---	---	---	---
Rock outcrop-----	VIIIs											
Snell----------	VIIe											
138F**----------		---	---	---	---	---	---	---	---	---	---	---
Rock outcrop-----	VIIIs											
Snellby----------	VIIe											

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
139F**----------		---	---	---	---	---	---	---	---	---	---	---
Rock outcrop-----	VIIIs											
Xeric----------	VIIe											
Torriorthents----												
Darkcanyon-------	VIIe											
140C**----------	VIIs	---	---	---	---	---	---	---	---	---	---	---
Rockly-Gwinly												
141D**----------	IVe	---	---	---	---	---	---	---	---	---	---	---
Roostercomb- Longbranch												
141E**----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Roostercomb- Longbranch												
142C**, 143D**----		---	---	---	---	---	---	---	---	---	---	---
Ruckles----------	VIIs											
Ruclick----------	VIs											
143E**----------		---	---	---	---	---	---	---	---	---	---	---
Ruckles----------	VIIs											
Ruclick----------	VIe											
143F**----------		---	---	---	---	---	---	---	---	---	---	---
Ruckles----------	VIIs											
Ruclick----------	VIIe											
144E**----------		---	---	---	---	---	---	---	---	---	---	---
Ruckles----------	VIIs											
Ruclick----------	VIe											
Snellby----------	VIs											
144F**----------		---	---	---	---	---	---	---	---	---	---	---
Ruckles----------	VIIs											
Ruclick----------	VIIe											
Snellby----------	VIIe											
145D----------	VIs	---	---	---	---	---	---	---	---	---	---	---
Ruclick												
145E----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Ruclick												
146D**----------		---	---	---	---	---	---	---	---	---	---	---
Sag----------	IVe											
Snell----------	VIe											
146E**----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Sag-Snell												
147D----------	IVe	---	---	---	---	---	---	---	---	---	---	---
Segundo												
147E----------	VIe	---	---	---	---	---	---	---	---	---	---	---
Segundo												
147F----------	VIIe	---	---	---	---	---	---	---	---	---	---	---
Segundo												

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
148F---------- Sinker	VIIe	---	---	---	---	---	---	---	---	---	---	---
149D**---------- Sinker and Chambeam	IVe	---	---	---	---	---	---	---	---	---	---	---
149E**---------- Sinker and Chambeam	VIe	---	---	---	---	---	---	---	---	---	---	---
150D---------- Sisley	IVe	---	---	---	---	---	---	---	---	---	---	---
150E---------- Sisley	VIe	---	---	---	---	---	---	---	---	---	---	---
150F---------- Sisley	VIIe	---	---	---	---	---	---	---	---	---	---	---
151D---------- Skullgulch	IVe	---	---	---	---	---	---	---	---	---	---	---
152F---------- Snaker	VIIe	---	---	---	---	---	---	---	---	---	---	---
153E**----------		---	---	---	---	---	---	---	---	---	---	---
Snaker----------	VIIs											
Darkcanyon-------	VIe											
154E**----------		---	---	---	---	---	---	---	---	---	---	---
Snaker----------	VIIs											
Darkcanyon-------	VIe											
Xeric----------	VIIe											
Torriorthents----	VIIe											
155D**, 155E**----		---	---	---	---	---	---	---	---	---	---	---
Snell----------	VIe											
Ateron----------	VIIs											
156D**----------		---	---	---	---	---	---	---	---	---	---	---
Snell----------	VIe											
Rock outcrop-----	VIIIs											
157F**---------- Snell-Sag	VIIe	---	---	---	---	---	---	---	---	---	---	---
158D, 158E-------- Snellby	VIs	---	---	---	---	---	---	---	---	---	---	---
159A**:												
Stanflow---------	IVs	IVs	1.0	6.0	---	---	---	4.0	---	---	---	---
Umapine----------	IVw	IIIw	---	---	---	---	---	---	---	---	---	---
160E---------- Stavely	VIe	---	---	---	---	---	---	---	---	---	---	---
161E---------- Stices	VIe	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
161F---------- Stices	VIIe	---	---	---	---	---	---	---	---	---	---	---
162A**:												
Sumpley----------	IIIc	IIIc	---	3.0	---	---	---	2.0	---	---	---	---
Stovepipe--------	Vw	---	---	---	---	---	---	---	---	---	---	---
163D---------- Taterpa	IVe	---	---	---	---	---	---	---	---	---	---	---
163E---------- Taterpa	VIe	---	---	---	---	---	---	---	---	---	---	---
164D**----------		---	---	---	---	---	---	---	---	---	---	---
Tolo----------	VIe											
Crackler---------	IVe											
165D**---------- Tolo-Dogtown	VIe	---	---	---	---	---	---	---	---	---	---	---
166D---------- Top	IVe	---	---	---	---	---	---	---	---	---	---	---
166E---------- Top	VIe	---	---	---	---	---	---	---	---	---	---	---
167D**----------		---	---	---	---	---	---	---	---	---	---	---
Top----------	IVe											
McGarr----------	VIs											
167E**---------- Top-McGarr	VIe	---	---	---	---	---	---	---	---	---	---	---
168C---------- Typic Xerorthents	VIIIs	---	---	---	---	---	---	---	---	---	---	---
169C, 169D-------- Ukiah	IVs	---	---	---	---	---	---	---	---	---	---	---
170A---------- Umapine	IVw	IIIw	2.0	6.0	---	---	---	4.0	---	---	---	---
171B---------- Virtue	IVs	IIIe	0.5	10.0	---	5.0	---	4.0	---	80	---	2.0
171C---------- Virtue	IVs	IVe	---	---	---	---	---	---	---	---	---	---
172B---------- Virtue	IVs	IIIe	0.5	10.0	---	5.0	---	4.0	---	80	---	2.0
172C---------- Virtue	IVs	IVe	---	---	---	---	---	---	---	---	---	---
173C---------- Wahstal	VIIs	---	---	---	---	---	---	---	---	---	---	---
174B---------- Webfoot	IIIe	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 5.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Soil name and map symbol	Land capability		Pasture		Alfalfa hay		Grass-legume hay		Winter wheat		Barley	
	N	I	N	I	N	I	N	I	N	I	N	I
			AUM*	AUM*	Tons	Tons	Tons	Tons	Bu	Bu	Tons	Tons
175A Wingdale	IIIw	IIIw	---	4.0	---	---	---	3.0	---	---	---	---
176A Wingville	IIIw	IIIw	---	9.0	---	6.0	---	5.0	---	70	---	1.0
177E Xeric Torriorthents	VIIs	---	---	---	---	---	---	---	---	---	---	---
178F**		---	---	---	---	---	---	---	---	---	---	---
Xeric	VIIs											
Torriorthents	VIIs											
Rock outcrop	VIIIs											

* Animal unit month: The amount of forage or feed required to feed one animal unit (one cow, one horse, one mule, five sheep, or five goats) for 30 days.

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

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES

(Only the soils that support rangeland vegetation suitable for grazing are listed)

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
1D, 1F---------- Anatone	Mountain Shallow South 16-20pz	Favorable	1,100	Bluebunch wheatgrass----------	60
		Normal	800	Sandberg bluegrass----------	10
		Unfavorable	500	Idaho fescue----------	5
				Mountain big sagebrush--------	5
				Squaw apple----------	5
2E**, 2F**:					
Anatone----------	Mountain Shallow South 16-20pz	Favorable	1,100	Bluebunch wheatgrass----------	60
		Normal	800	Sandberg bluegrass----------	10
		Unfavorable	500	Idaho fescue----------	5
				Mountain big sagebrush--------	5
				Squaw apple----------	5
Segundo.					
4B, 4C---------- Applegate	Clayey 17-22pz----------	Favorable	1,600	Idaho fescue----------	75
		Normal	1,100	Bluebunch wheatgrass----------	15
		Unfavorable	600		
5C---------- Aridic Haploxerolls	Loamy 9-12pz----------	Favorable	1,500	Bluebunch wheatgrass----------	50
		Normal	1,100	Thurber needlegrass----------	20
		Unfavorable	500	Wyoming big sagebrush---------	5
6C---------- Ateron	Mountain Shallow 12-16pz------	Favorable	1,500	Idaho fescue----------	65
		Normal	1,000	Mountain big sagebrush--------	10
		Unfavorable	500	Threetip sagebrush----------	5
				Bluebunch wheatgrass----------	5
				Sandberg bluegrass----------	5
7D, 7E---------- Ateron	Mountain Shallow South 12-16pz	Favorable	900	Bluebunch wheatgrass----------	60
		Normal	600	Sandberg bluegrass----------	10
		Unfavorable	400	Idaho fescue----------	5
				Antelope bitterbrush----------	5
				Squaw apple----------	5
				Mountain big sagebrush--------	5
8C**:					
Ateron----------	Mountain Very Shallow 12-16pz	Favorable	600	Onespike oatgrass----------	30
		Normal	400	Sandberg bluegrass----------	20
		Unfavorable	200	Stiff sagebrush----------	20
				Idaho fescue----------	10
				Lomatium----------	5
Roostercomb-------	Mountain Clayey 12-16pz-------	Favorable	2,000	Idaho fescue----------	70
		Normal	1,500	Mountain big sagebrush--------	10
		Unfavorable	1,000	Bluebunch wheatgrass----------	5
9D**, 9E**:					
Ateron----------	Mountain Shallow South 12-16pz	Favorable	900	Bluebunch wheatgrass----------	60
		Normal	600	Sandberg bluegrass----------	10
		Unfavorable	400	Idaho fescue----------	5
				Antelope bitterbrush----------	5
				Squaw apple----------	5
				Mountain big sagebrush--------	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
9D**, 9E**:					
Roostercomb	Mountain South 12-16pz	Favorable	1,400	Bluebunch wheatgrass	50
		Normal	1,000	Idaho fescue	25
		Unfavorable	700	Mountain big sagebrush	5
				Squaw apple	5
				Mountain big sagebrush	5
10C**:					
Bakeoven	Very Shallow 10-14pz	Favorable	400	Sandberg bluegrass	50
		Normal	300	Stiff sagebrush	10
		Unfavorable	100	Bluebunch wheatgrass	5
				Lomatium	5
Ruckles	Mountain Shallow 9-12pz	Favorable	1,200	Idaho fescue	60
		Normal	600	Wyoming big sagebrush	20
		Unfavorable	300	Sandberg bluegrass	5
11A, 11B Baker	Mountain Loamy 9-12pz	Favorable	1,500	Idaho fescue	40
		Normal	1,000	Needleandthread	20
		Unfavorable	500	Wyoming big sagebrush	10
				Bluebunch wheatgrass	5
				Sandberg bluegrass	5
				Thurber needlegrass	5
12A, 12B Baker	Loamy 9-12pz	Favorable	1,700	Bluebunch wheatgrass	50
		Normal	1,100	Thurber needlegrass	20
		Unfavorable	600	Wyoming big sagebrush	5
13A Baldock	Wet Meadow	Favorable	3,000	Sedge	70
		Normal	2,000	Baltic rush	10
		Unfavorable	1,500		
14D Baldridge	High Mountain Loam 18+pz	Favorable	1,600	Idaho fescue	60
		Normal	1,200	Mountain big sagebrush	10
		Unfavorable	900	Needlegrass	10
				Sedge	10
				Buckwheat	5
14E, 14F Baldridge	High Mountain South 16-20pz	Favorable	1,600	Bluebunch wheatgrass	50
		Normal	1,200	Buckwheat	10
		Unfavorable	900	Mountain big sagebrush	10
				Needlegrass	10
				Idaho fescue	5
				Blue wildrye	5
15A Balm	Meadow	Favorable	5,000	Tufted hairgrass	60
		Normal	4,000	Sedge	20
		Unfavorable	3,000	Baltic rush	10
				Willow	5
16B, 16C Barnard	Loamy 9-12pz	Favorable	1,500	Bluebunch wheatgrass	50
		Normal	1,100	Thurber needlegrass	20
		Unfavorable	500	Wyoming big sagebrush	5
16D Barnard	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
				Wyoming big sagebrush	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
17C---------- Barnard	Clayey South 9-12pz----------	Favorable	1,200	Bluebunch wheatgrass----------	75
		Normal	700	Sandberg bluegrass----------	5
		Unfavorable	400	Thurber needlegrass----------	5
18B---------- Benderly	Mountain Loamy 12-16pz--------	Favorable	1,800	Idaho fescue----------	50
		Normal	1,300	Bluebunch wheatgrass----------	10
		Unfavorable	1,000	Thurber needlegrass----------	10
				Mountain big sagebrush--------	5
				Basin big sagebrush----------	5
				Needleandthread----------	5
20D---------- Bouldrock	High Mountain South 16-20pz---	Favorable	1,600	Bluebunch wheatgrass----------	50
		Normal	1,200	Mountain big sagebrush--------	10
		Unfavorable	900	Buckwheat----------	10
				Needlegrass----------	10
				Idaho fescue----------	5
				Blue wildrye----------	5
21E**:					
Bouldrock---------	High Mountain South 16-20pz---	Favorable	1,600	Bluebunch wheatgrass----------	50
		Normal	1,200	Mountain big sagebrush--------	10
		Unfavorable	900	Buckwheat----------	10
				Needlegrass----------	10
				Idaho fescue----------	5
				Blue wildrye----------	5
Bouldrock---------	High Mountain South 16-20 Pz	Favorable	1,600	Bluebunch wheatgrass----------	50
		Normal	1,200	Mountain big sagebrush--------	10
		Unfavorable	900	Buckwheat----------	10
				Needlegrass----------	10
				Idaho fescue----------	5
				Blue wildrye----------	5
22E**, 22F**:					
Bouldrock---------	High Mountain South 16-20pz---	Favorable	1,600	Bluebunch wheatgrass----------	50
		Normal	1,200	Mountain big sagebrush--------	10
		Unfavorable	900	Buckwheat----------	10
				Needlegrass----------	10
				Idaho fescue----------	5
				Blue wildrye----------	5
Kilmerque.					
23A---------- Boyce	Wet Meadow----------	Favorable	3,000	Sedge----------	70
		Normal	2,000	Baltic rush----------	10
		Unfavorable	1,500		
25C**:					
Brownlee----------	Shrubby Mountain Loam 16-20pz	Favorable	2,000	Idaho fescue----------	50
		Normal	1,600	Bluebunch wheatgrass----------	10
		Unfavorable	1,200	Mountain big sagebrush--------	10
				Squaw apple----------	5
				Needlegrass----------	5
				Antelope bitterbrush----------	5
Shangland---------	Shrubby Mountain Loam 16-20pz	Favorable	2,000	Idaho fescue----------	50
		Normal	1,600	Bluebunch wheatgrass----------	10
		Unfavorable	1,200	Mountain big sagebrush--------	10
				Squaw apple----------	5
				Needlegrass----------	5
				Antelope bitterbrush----------	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
26D**:					
Brownlee	Shrubby Mountain South 16-20pz	Favorable	1,800	Bluebunch wheatgrass	30
		Normal	1,500	Antelope bitterbrush	15
		Unfavorable	1000	Mountain big sagebrush	10
				Squaw apple	10
				Needlegrass	10
				Idaho fescue	5
				Bitter cherry	5
Shangland	Shrubby Mountain South 16-20pz	Favorable	1,800	Bluebunch wheatgrass	30
		Normal	1,500	Antelope bitterbrush	15
		Unfavorable	1,000	Mountain big sagebrush	10
				Squaw apple	10
				Needlegrass	10
				Idaho fescue	5
				Bitter cherry	5
27C Brownscombe	Clayey 9-12pz	Favorable	1,500	Idaho fescue	40
		Normal	1,000	Needleandthread	20
		Unfavorable	500	Wyoming big sagebrush	10
				Bluebunch wheatgrass	5
				Sandberg bluegrass	5
				Thurber needlegrass	5
28D Brownscombe	North 9-12pz	Favorable	1,700	Idaho fescue	60
		Normal	1,100	Bluebunch wheatgrass	20
		Unfavorable	600	Big sagebrush	5
29D Brownscombe	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
30E**:					
Brownscombe	North 9-12pz	Favorable	1,700	Idaho fescue	60
		Normal	1,100	Bluebunch wheatgrass	20
		Unfavorable	600	Big sagebrush	5
Rock outcrop.					
31A Burkemont	Sodic Meadow	Favorable	2,500	Saltgrass	40
		Normal	1,500	Lemmon alkaligrass	30
		Unfavorable	1,000	Baltic rush	15
				Basin wildrye	5
				Alkali cordgrass	5
32A Burntriver	Mountain Loamy Bottom	Favorable	5,000	Basin wildrye	70
		Normal	4,000	Basin big sagebrush	7
		Unfavorable	3,000		
33C Burntriver	Mountain Loamy 9-12pz	Favorable	1,500	Idaho fescue	40
		Normal	1,000	Needleandthread	20
		Unfavorable	500	Wyoming big sagebrush	10
				Bluebunch wheatgrass	5
				Sandberg bluegrass	5
				Thurber needlegrass	5
34D**, 34E**:					
Campcreek	Mountain South 12-16pz	Favorable	1,400	Bluebunch wheatgrass	50
		Normal	1,000	Idaho fescue	25
		Unfavorable	700	Mountain big sagebrush	5
				Squaw apple	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
34D**, 34E**:					
Skullgulch	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Bluebunch wheatgrass	5
		Unfavorable	1,000	Squaw apple	5
				Mountain big sagebrush	5
35A Catherine	Meadow	Favorable	5,000	Tufted hairgrass	60
		Normal	4,000	Sedge	20
		Unfavorable	3,000	Baltic rush	10
				Willow	5
36C**:					
Clovercreek	Mountain Shallow 12-16pz	Favorable	1,500	Idaho fescue	65
		Normal	1,000	Mountain big sagebrush	10
		Unfavorable	500	Threetip sagebrush	5
				Bluebunch wheatgrass	5
				Sandberg bluegrass	5
Keating	Mountain Loamy 12-16pz	Favorable	1,800	Idaho fescue	50
		Normal	1,300	Bluebunch wheatgrass	10
		Unfavorable	1,000	Thurber needlegrass	10
				Mountain big sagebrush	5
				Basin big sagebrush	5
				Needleandthread	5
37D**:					
Clovercreek	Mountain Shallow South 12-16pz	Favorable	900	Bluebunch wheatgrass	60
		Normal	600	Sandberg bluegrass	10
		Unfavorable	400	Idaho fescue	5
				Squaw apple	5
				Antelope bitterbrush	5
				Mountain big sagebrush	5
Keating	Mountain South 12-16pz	Favorable	1,400	Bluebunch wheatgrass	50
		Normal	1,000	Idaho fescue	25
		Unfavorable	700	Mountain big sagebrush	5
				Squaw apple	5
38E**, 38F**:					
Copperfield	Low Elevation North 14-18pz	Favorable	2,300	Idaho fescue	40
		Normal	1,800	Bluebunch wheatgrass	40
		Unfavorable	1,300	Mockorange	5
				Blue Elderberry	5
Rock outcrop.					
40A Cumulic Haploxerolls	Loamy Bottom	Favorable	6,000	Basin wildrye	75
		Normal	4,000	Basin big sagebrush	7
		Unfavorable	2,000		
41A**:					
Damore	Mountain Meadow	Favorable	4,000	Tufted hairgrass	60
		Normal	3,000	Sedge	20
		Unfavorable	2,000	Baltic rush	10
				Willow	5
Silvies	Wet Mountain Meadow	Favorable	2,300	Sedge	70
		Normal	1,500	Baltic rush	10
		Unfavorable	1,000		

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
42D**:					
Derringer	Shrubby Mountain South 16-20pz	Favorable	1,800	Bluebunch wheatgrass	30
		Normal	1,500	Antelope bitterbrush	15
		Unfavorable	1,000	Squaw apple	10
				Mountain big sagebrush	10
				Needlegrass	10
				Idaho fescue	5
				Bitter cherry	5
Harlow	Mountain Shallow South 16-20pz	Favorable	1,100	Bluebunch wheatgrass	60
		Normal	800	Sandberg bluegrass	10
		Unfavorable	500	Idaho fescue	5
				Mountain big sagebrush	5
				Squaw apple	5
45C Durkee	Mountain Clayey 12-16pz	Favorable	2,000	Idaho fescue	70
		Normal	1,500	Mountain big sagebrush	10
		Unfavorable	1,000	Bluebunch wheatgrass	5
46D, 46E Durkee	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Bluebunch wheatgrass	5
		Unfavorable	1,000	Squaw apple	5
47D, 47E Durkee	Mountain South 12-16pz	Favorable	1,400	Bluebunch wheatgrass	50
		Normal	1,000	Idaho fescue	25
		Unfavorable	700	Mountain big sagebrush	5
				Squaw apple	5
50C Encina	Mountain Clayey 9-12pz	Favorable	1,500	Idaho fescue	70
		Normal	1,000	Wyoming big sagebrush	15
		Unfavorable	500	Bluebunch wheatgrass	5
51D, 51E Encina	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
52E**:					
Fivebit	Mahogany Rockland 12+pz	Favorable	1,300	Curlleaf mountainmahogany	30
		Normal	900	Bluebunch wheatgrass	20
		Unfavorable	600	Western juniper	10
				Antelope bitterbrush	10
				Idaho fescue	5
Rock outcrop.					
53B Glasgow	Mountain Clayey 9-12pz	Favorable	1,500	Idaho fescue	70
		Normal	1,000	Wyoming big sagebrush	15
		Unfavorable	500	Bluebunch wheatgrass	5
54B Goodrich	Mountain Loamy 12-16pz	Favorable	1,800	Idaho fescue	50
		Normal	1,300	Bluebunch wheatgrass	10
		Unfavorable	1,000	Thurber needlegrass	10
				Basin big sagebrush	5
				Mountain big sagebrush	5
				Needleandthread	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
55B**:					
Goodrich	Mountain Loamy 12-16pz	Favorable	1,800	Idaho fescue	50
		Normal	1,300	Bluebunch wheatgrass	10
		Unfavorable	1,000	Thurber needlegrass	10
				Basin big sagebrush	5
				Mountain big sagebrush	5
				Needleandthread	5
Benderly	Mountain Loamy 12-16pz	Favorable	1,800	Idaho fescue	50
		Normal	1,300	Bluebunch wheatgrass	10
		Unfavorable	1,000	Thurber needlegrass	10
				Mountain big sagebrush	5
				Basin big sagebrush	5
				Needleandthread	5
56C Greenscombe	Mountain Loamy 12-16pz	Favorable	1,800	Idaho fescue	50
		Normal	1,300	Bluebunch wheatgrass	10
		Unfavorable	1,000	Thurber needlegrass	10
				Mountain big sagebrush	5
				Basin big sagebrush	5
				Needleandthread	5
57D Greenscombe	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Squaw apple	5
		Unfavorable	1,000	Bluebunch wheatgrass	5
58D Greenscombe	Mountain South 12-16pz	Favorable	1,400	Bluebunch wheatgrass	50
		Normal	1,000	Idaho fescue	25
		Unfavorable	700	Mountain big sagebrush	5
				Squaw apple	5
59D**, 59E**, 59F**:					
Gwinly	Shallow South 14+pz	Favorable	1,200	Bluebunch wheatgrass	70
		Normal	700	Idaho fescue	10
		Unfavorable	400	Sandberg bluegrass	5
Immig	South 14-17pz	Favorable	1,800	Bluebunch wheatgrass	70
		Normal	1,400	Idaho fescue	5
		Unfavorable	1,000	Arrowleaf balsamroot	5
60D**, 60E**, 60F**:					
Gwinly	Shallow South 14+pz	Favorable	1,200	Bluebunch wheatgrass	70
		Normal	700	Idaho fescue	10
		Unfavorable	400	Sandberg bluegrass	5
Immig	South 14-17pz	Favorable	1,800	Bluebunch wheatgrass	70
		Normal	1,400	Idaho fescue	5
		Unfavorable	1,000	Arrowleaf balsamroot	5
Snell	North 14-17pz	Favorable	2,200	Idaho fescue	75
		Normal	1,700	Bluebunch wheatgrass	10
		Unfavorable	1,200	Common snowberry	5
61D**:					
Gwinly	Shallow South 14+pz	Favorable	1,200	Bluebunch wheatgrass	70
		Normal	700	Idaho fescue	10
		Unfavorable	400	Sandberg bluegrass	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
61D**:					
Rockly	Very Shallow 14+pz	Favorable	600	Sandberg bluegrass	40
		Normal	400	Bluebunch wheatgrass	20
		Unfavorable	200	Onespike oatgrass	10
				Balsamroot	5
				Lomatium	5
				Stiff sagebrush	5
62A Haines	Sodic Meadow	Favorable	2,500	Saltgrass	40
		Normal	1,500	Lemmon alkaligrass	30
		Unfavorable	1,000	Baltic rush	15
				Basin wildrye	5
				Alkali cordgrass	5
63A Halfway	Meadow	Favorable	3,000	Tufted hairgrass	60
		Normal	2,000	Sedge	20
		Unfavorable	1,000	Baltic rush	10
68C Harlow	Mountain Very Shallow 16-20pz	Favorable	800	Stiff sagebrush	30
		Normal	600	Sandberg bluegrass	20
		Unfavorable	400	Idaho fescue	15
				Onespike oatgrass	10
				Balsamroot	5
				Lomatium	5
69E**:					
Harlow	Mountain Shallow South 16-20pz	Favorable	1,100	Bluebunch wheatgrass	60
		Normal	800	Sandberg bluegrass	10
		Unfavorable	500	Idaho fescue	5
				Mountain big sagebrush	5
				Squaw apple	5
Derringer	Shrubby Mountain South 16-20pz	Favorable	1,800	Bluebunch wheatgrass	30
		Normal	1,500	Antelope bitterbrush	15
		Unfavorable	1,000	Mountain big sagebrush	10
				Squaw apple	10
				Needlegrass	10
				Idaho fescue	5
				Bitter cherry	5
70A Hershal	Meadow	Favorable	3,000	Sedge	70
		Normal	2,000	Baltic rush	10
		Unfavorable	1,500		
71B, 71C, 72C Hibbard	Mountain Clayey 12-16pz	Favorable	2,000	Idaho fescue	70
		Normal	1,500	Mountain big sagebrush	10
		Unfavorable	1,000	Bluebunch wheatgrass	5
73B**:					
Hibbard	Mountain Clayey 12-16pz	Favorable	2,000	Idaho fescue	70
		Normal	1,500	Mountain big sagebrush	10
		Unfavorable	1,000	Bluebunch wheatgrass	5
Rockly	Mountain Very Shallow 12-16pz	Favorable	550	Sandberg bluegrass	45
		Normal	400	Stiff sagebrush	15
		Unfavorable	200	Bluebunch wheatgrass	10
				Idaho fescue	5
				Buckwheat	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
75D Hudspeth	Mahogany Rockland 12+pz	Favorable	1,300	Curlleaf mountainmahogany	30
		Normal	900	Bluebunch wheatgrass	20
		Unfavorable	600	Western juniper	10
				Antelope bitterbrush	10
				Idaho fescue	5
76D**, 76E**:					
Hudspeth	Mahogany Rockland 12+pz	Favorable	1,300	Curlleaf mountainmahogany	30
		Normal	900	Bluebunch wheatgrass	20
		Unfavorable	600	Western juniper	10
				Antelope bitterbrush	10
				Idaho fescue	5
Morningstar.					
78E**:					
Hyall	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
Badland.					
79D**, 80E**:					
Hyall	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
Simas	North 9-12pz	Favorable	1,700	Idaho fescue	60
		Normal	1,100	Bluebunch wheatgrass	20
		Unfavorable	600	Wyoming big sagebrush	5
81C, 82C Immig	Clayey 14-17pz	Favorable	1,200	Idaho fescue	70
		Normal	700	Bluebunch wheatgrass	15
		Unfavorable	400		
84D Jett	Loamy Bottom	Favorable	6,000	Basin wildrye	75
		Normal	4,000	Basin big sagebrush	7
		Unfavorable	2,000		
85D Keating	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Bluebunch wheatgrass	5
		Unfavorable	1,000	Squaw apple	5
				Mountain big sagebrush	5
88D**:					
Klicker.					
Anatone	Mountain Shallow South 16-20pz	Favorable	1,100	Bluebunch wheatgrass	60
		Normal	800	Sandberg bluegrass	10
		Unfavorable	500	Idaho fescue	5
				Mountain big sagebrush	5
				Squaw apple	5
89D**, 89E**:					
Klicker.					
Fivebit	Mahogany Rockland 12+pz	Favorable	1,300	Curlleaf mountainmahogany	30
		Normal	900	Bluebunch wheatgrass	20
		Unfavorable	600	Western juniper	10
				Antelope bitterbrush	10
				Idaho fescue	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
90B, 90C Ladd	Mountain Clayey 12-16pz	Favorable	2,000	Idaho fescue	70
		Normal	1,500	Bluebunch wheatgrass	5
		Unfavorable	1,000	Mountain big sagebrush	5
91A La Grande	Meadow	Favorable	5,000	Tufted hairgrass	60
		Normal	4,000	Sedge	20
		Unfavorable	3,000	Baltic rush	10
				Willow	5
92A, 93A Langrell	Loamy 17-22pz	Favorable	2,500	Idaho fescue	75
		Normal	2,000	Bluebunch wheatgrass	15
		Unfavorable	1,500		
94C Legler	Loamy Bottom	Favorable	6,000	Basin wildrye	75
		Normal	4,000	Basin big sagebrush	10
		Unfavorable	2,000		
95C Legler	Mountain Loamy 9-12pz	Favorable	1,500	Idaho fescue	40
		Normal	1,000	Needleandthread	20
		Unfavorable	500	Wyoming big sagebrush	10
				Sandberg bluegrass	5
				Thurber needlegrass	5
				Bluebunch wheatgrass	5
96E, 96F Lickskillet	Shallow South 9-12pz	Favorable	800	Bluebunch wheatgrass	70
		Normal	500	Sandberg bluegrass	5
		Unfavorable	300	Lomatium	5
97E**:					
Lickskillet	Shallow South 9-12pz	Favorable	800	Bluebunch wheatgrass	70
		Normal	500	Sandberg bluegrass	5
		Unfavorable	300	Lomatium	5
Rock outcrop.					
98C, 99C Lookout	Mountain Clayey 9-12pz	Favorable	1,500	Idaho fescue	70
		Normal	1,000	Wyoming big sagebrush	15
		Unfavorable	500	Bluebunch wheatgrass	5
100D Lostbasin	Mountain South 12-16pz	Favorable	1,400	Bluebunch wheatgrass	50
		Normal	1,000	Idaho fescue	25
		Unfavorable	700	Mountain big sagebrush	5
				Squaw apple	5
101E**:					
Lostbasin	Mountain South 12-16pz	Favorable	1,400	Bluebunch wheatgrass	50
		Normal	1,000	Idaho fescue	25
		Unfavorable	700	Mountain big sagebrush	5
				Squaw apple	5
Xerorthents	Mahogany Rockland 12+pz	Favorable	1,300	Curlleaf mountainmahogany	30
		Normal	900	Bluebunch wheatgrass	20
		Unfavorable	600	Western juniper	10
				Antelope bitterbrush	10
				Idaho fescue	5
Rock outcrop.					
102C Lovline	Loamy 9-12pz	Favorable	1,500	Bluebunch wheatgrass	50
		Normal	1,100	Thurber needlegrass	20
		Unfavorable	500	Wyoming big sagebrush	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
103D, 103E, 103F--- Lovline	North 9-12pz	Favorable	1,700	Idaho fescue	60
		Normal	1,100	Bluebunch wheatgrass	20
		Unfavorable	600	Big sagebrush	5
104D Marack	Mountain North 9-12pz	Favorable	1,700	Idaho fescue	70
		Normal	1,100	Bluebunch wheatgrass	5
		Unfavorable	600	Sandberg bluegrass	5
				Wyoming big sagebrush	5
105C Marack	Mountain Clayey 9-12pz	Favorable	1,500	Idaho fescue	70
		Normal	1,000	Wyoming big sagebrush	15
		Unfavorable	500	Bluebunch wheatgrass	5
106D Marack	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
107C**:					
Marack	Mountain Clayey 9-12pz	Favorable	1,500	Idaho fescue	70
		Normal	1,000	Wyoming big sagebrush	15
		Unfavorable	500	Bluebunch wheatgrass	5
Marack	Mountain Clayey 9-12pz	Favorable	1,500	Idaho fescue	70
		Normal	1,000	Wyoming big sagebrush	15
		Unfavorable	500	Bluebunch wheatgrass	5
108D**:					
Marack	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
Badland.					
113D, 113E Nagle	Mountain North 9-12pz	Favorable	1,700	Idaho fescue	70
		Normal	1,100	Sandberg bluegrass	5
		Unfavorable	600	Bluebunch wheatgrass	5
				Wyoming big sagebrush	5
114C North Powder	Mountain Loamy 9-12pz	Favorable	1,500	Idaho fescue	40
		Normal	1,000	Needleandthread	20
		Unfavorable	500	Wyoming big sagebrush	10
				Bluebunch wheatgrass	5
				Sandberg bluegrass	5
				Thurber needlegrass	5
115D North Powder	Mountain North 9-12pz	Favorable	1,700	Idaho fescue	70
		Normal	1,100	Bluebunch wheatgrass	5
		Unfavorable	600	Sandberg bluegrass	5
				Wyoming big sagebrush	5
116D North Powder	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
117D**:					
North Powder	Clayey South, 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
Rock outcrop.					

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
118C---------- Oxman	Loamy 9-12pz----------	Favorable	1,500	Bluebunch wheatgrass----------	50
		Normal	1,100	Thurber needlegrass----------	20
		Unfavorable	500	Wyoming big sagebrush---------	5
119D---------- Oxman	Clayey South 9-12pz----------	Favorable	1,200	Bluebunch wheatgrass----------	75
		Normal	700	Thurber needlegrass----------	5
		Unfavorable	400	Sandberg bluegrass----------	5
120D**:					
Oxman----------	Clayey South 9-12pz----------	Favorable	1,200	Bluebunch wheatgrass----------	75
		Normal	700	Thurber needlegrass----------	5
		Unfavorable	400	Sandberg bluegrass----------	5
Xeric Torriorthents----	Terrace Escarpment 9-12pz-----	Favorable	1,000	Antelope bitterbrush----------	40
		Normal	800	Needleandthread----------	15
		Unfavorable	500	Basin big sagebrush----------	10
				Rabbitbrush----------	10
				Thurber needlegrass----------	10
122C---------- Poall	Loamy 9-12pz----------	Favorable	1,500	Bluebunch wheatgrass----------	50
		Normal	1,100	Thurber needlegrass----------	20
		Unfavorable	500	Wyoming big sagebrush---------	5
123D---------- Poall	North 9-12pz----------	Favorable	1,700	Idaho fescue----------	60
		Normal	1,100	Bluebunch wheatgrass----------	20
		Unfavorable	600	Big sagebrush----------	5
124D---------- Poall	Clayey South 9-12pz----------	Favorable	1,200	Bluebunch wheatgrass----------	75
		Normal	700	Sandberg bluegrass----------	5
		Unfavorable	400	Thurber needlegrass----------	5
125D**:					
Poall----------	Clayey South 9-12pz----------	Favorable	1,200	Bluebunch wheatgrass----------	75
		Normal	700	Sandberg bluegrass----------	5
		Unfavorable	400	Thurber needlegrass----------	5
Xeric Torriorthents----	Terrace Escarpment 9-12pz-----	Favorable	1,000	Antelope bitterbrush----------	40
		Normal	800	Needleandthread----------	15
		Unfavorable	500	Basin big sagebrush----------	10
				Rabbitbrush----------	10
				Thurber needlegrass----------	10
126A, 127A--------- Powval	Loamy Bottom----------	Favorable	6,000	Basin wildrye----------	75
		Normal	4,000	Basin big sagebrush----------	7
		Unfavorable	2,000		
128B---------- Pritchard	Mountain Clayey 12-16pz-------	Favorable	2,000	Idaho fescue----------	70
		Normal	1,500	Mountain big sagebrush--------	10
		Unfavorable	1,000	Bluebunch wheatgrass----------	5
129B---------- Rastus	Mountain Clayey 12-16pz-------	Favorable	2,000	Idaho fescue----------	70
		Normal	1,500	Mountain big sagebrush--------	10
		Unfavorable	1,000	Bluebunch wheatgrass----------	5
130E, 130F--------- Redcliff	North 9-12pz----------	Favorable	1,700	Idaho fescue----------	60
		Normal	1,100	Bluebunch wheatgrass----------	20
		Unfavorable	600	Big sagebrush----------	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
131C**:					
Ridley	Mountain Clayey 12-16pz	Favorable	2,000	Idaho fescue	70
		Normal	1,500	Mountain big sagebrush	10
		Unfavorable	1,000	Bluebunch wheatgrass	5
Keating	Mountain Loamy 12-16pz	Favorable	1,800	Idaho fescue	50
		Normal	1,300	Bluebunch wheatgrass	10
		Unfavorable	1,000	Thurber needlegrass	10
				Mountain big sagebrush	5
				Basin big sagebrush	5
				Needleandthread	5
133C*:					
Robinette	Loamy 14-17pz	Favorable	2,000	Idaho fescue	75
		Normal	1,600	Bluebunch wheatgrass	15
		Unfavorable	1,100		
Gwinly	Shallow Clayey 14-17pz	Favorable	900	Idaho fescue	60
		Normal	500	Bluebunch wheatgrass	30
		Unfavorable	300	Sandberg bluegrass	5
134F**:					
Rock outcrop.					
Lostbasin	Mountain South 12-16pz	Favorable	1,400	Bluebunch wheatgrass	50
		Normal	1,000	Idaho fescue	25
		Unfavorable	700	Mountain big sagebrush	5
				Squaw apple	5
Xerorthents	Mahogany Rockland 12+pz	Favorable	1,300	Curlleaf mountainmahogany	30
		Normal	900	Bluebunch wheatgrass	20
		Unfavorable	600	Western juniper	10
				Antelope bitterbrush	10
				Idaho fescue	5
135F**:					
Rock outcrop.					
Ruckles	Shallow South 9-12pz	Favorable	800	Bluebunch wheatgrass	70
		Normal	500	Sandberg bluegrass	5
		Unfavorable	300	Lomatium	5
136F**:					
Rock outcrop.					
Ruclick	North 9-12pz	Favorable	1,700	Idaho fescue	60
		Normal	1,100	Bluebunch wheatgrass	20
		Unfavorable	600	Big sagebrush	5
137F**:					
Rock outcrop.					
Snell	North 14-17pz	Favorable	2,200	Idaho fescue	75
		Normal	1,700	Bluebunch wheatgrass	10
		Unfavorable	1,200	Common snowberry	5
138F**:					
Rock outcrop.					

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
138F**:					
Snellby	Mountain North 9-12pz	Favorable	1,700	Idaho fescue	70
		Normal	1,100	Bluebunch wheatgrass	5
		Unfavorable	600	Sandberg bluegrass	5
				Wyoming big sagebrush	5
139F**:					
Rock outcrop.					
Xeric Torriorthents	Mahogany Rockland 9-12pz	Favorable	900	Curlleaf mountainmahogany	40
		Normal	600	Bluebunch wheatgrass	20
		Unfavorable	300	Antelope bitterbrush	15
				Nevada greasebush	10
Darkcanyon	South Schist 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Nevada greasebush	5
		Unfavorable	400		
140C**:					
Rockly	Very Shallow 14+pz	Favorable	600	Sandberg bluegrass	40
		Normal	400	Bluebunch wheatgrass	20
		Unfavorable	200	Onespike oatgrass	10
				Stiff sagebrush	5
				Balsamroot	5
				Lomatium	5
Gwinly	Shallow Clayey 14-17pz	Favorable	900	Idaho fescue	60
		Normal	500	Bluebunch wheatgrass	30
		Unfavorable	300	Sandberg bluegrass	5
141D**, 141E**:					
Roostercomb	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Squaw apple	5
		Unfavorable	1,000	Bluebunch wheatgrass	5
				Mountain big sagebrush	5
Longbranch	Mountain North 12-16pz	Favorable	2,500	Idaho fescue	65
		Normal	2,000	Basin wildrye	15
		Unfavorable	1,500	Mountain big sagebrush	5
				Wax currant	5
142C**:					
Ruckles	Mountain Shallow 9-12pz	Favorable	1,200	Idaho fescue	60
		Normal	600	Wyoming big sagebrush	20
		Unfavorable	300	Sandberg bluegrass	5
Ruclick	Mountain Clayey 9-12pz	Favorable	1,500	Idaho fescue	70
		Normal	1,000	Wyoming big sagebrush	15
		Unfavorable	500	Bluebunch wheatgrass	5
143D**, 143E**, 143F**:					
Ruckles	Shallow South 9-12pz	Favorable	800	Bluebunch wheatgrass	70
		Normal	500	Sandberg bluegrass	5
		Unfavorable	300	Lomatium	5
Ruclick	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
144E**, 144F**:					
Ruckles	Shallow South 9-12pz	Favorable	800	Bluebunch wheatgrass	70
		Normal	500	Sandberg bluegrass	5
		Unfavorable	300	Lomatium	5
Ruclick	Clayey South 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Sandberg bluegrass	5
		Unfavorable	400	Thurber needlegrass	5
Snellby	Mountain North 9-12pz	Favorable	1,700	Idaho fescue	70
		Normal	1,100	Bluebunch wheatgrass	5
		Unfavorable	600	Sandberg bluegrass	5
				Wyoming big sagebrush	5
145D, 145E Ruclick	North 9-12pz	Favorable	1,700	Idaho fescue	60
		Normal	1,100	Bluebunch wheatgrass	20
		Unfavorable	600	Big sagebrush	5
146D**, 146E**:					
Sag	Deep North 14-17pz	Favorable	2,500	Idaho fescue	60
		Normal	2,000	Bluebunch wheatgrass	10
		Unfavorable	1,500	Snowberry	5
				Common chokecherry	5
Snell	North 14-17pz	Favorable	2,200	Idaho fescue	75
		Normal	1,700	Bluebunch wheatgrass	10
		Unfavorable	1,200	Common snowberry	5
148F Sinker	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Bluebunch wheatgrass	5
		Unfavorable	1,000	Squaw apple	5
				Mountain big sagebrush	5
149D**, 149E**:					
Sinker	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Bluebunch wheatgrass	5
		Unfavorable	1,000	Squaw apple	5
				Mountain big sagebrush	5
Chambeam	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Bluebunch wheatgrass	5
		Unfavorable	1,000	Squaw apple	5
				Mountain big sagebrush	5
151D Skullgulch	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Bluebunch wheatgrass	5
		Unfavorable	1,000	Squaw apple	5
				Mountain big sagebrush	5
152F Snaker	Shallow South Schist 9-12pz	Favorable	800	Bluebunch wheatgrass	65
		Normal	500	Nevada greasebush	10
		Unfavorable	300		
153E**:					
Snaker	Shallow South Schist 9-12pz	Favorable	800	Bluebunch wheatgrass	65
		Normal	500	Nevada greasebush	10
		Unfavorable	300		
Darkcanyon	South Schist 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Nevada greasebush	5
		Unfavorable	400		

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
154E*:					
Snaker	Shallow South Schist 9-12pz	Favorable	800	Bluebunch wheatgrass	65
		Normal	500	Nevada greasebush	10
		Unfavorable	300		
Darkcanyon	South Schist 9-12pz	Favorable	1,200	Bluebunch wheatgrass	75
		Normal	700	Nevada greasebush	5
		Unfavorable	400		
Xeric Torriorthents	Mahogany Rockland 9-12pz	Favorable	900	Curlleaf mountainmahogany	40
		Normal	600	Bluebunch wheatgrass	20
		Unfavorable	300	Antelope bitterbrush	15
				Nevada greasebush	10
155D**, 155E**:					
Snell	Mountain North 12-16pz	Favorable	2,200	Idaho fescue	70
		Normal	1,600	Bluebunch wheatgrass	5
		Unfavorable	1,000	Squaw apple	5
				Mountain big sagebrush	5
Ateron	Mountain Shallow North 12-16pz	Favorable	1,200	Idaho fescue	70
		Normal	900	Mountain big sagebrush	10
		Unfavorable	600	Bluebunch wheatgrass	5
				Sandberg bluegrass	5
156D**:					
Snell	North 14-17pz	Favorable	2,200	Idaho fescue	75
		Normal	1,700	Bluebunch wheatgrass	10
		Unfavorable	1,200	Common snowberry	5
Rock outcrop.					
157F**:					
Snell	North 14-17pz	Favorable	2,200	Idaho fescue	75
		Normal	1,700	Bluebunch wheatgrass	10
		Unfavorable	1,200	Common snowberry	5
Sag	Deep North 14-17pz	Favorable	2,500	Idaho fescue	60
		Normal	2,000	Bluebunch wheatgrass	10
		Unfavorable	1,500	Snowberry	5
				Common chokecherry	5
158D, 158E Snellby	Mountain North 9-12pz	Favorable	1,700	Idaho fescue	70
		Normal	1,100	Bluebunch wheatgrass	5
		Unfavorable	600	Sandberg bluegrass	5
				Wyoming big sagebrush	5
159A**:					
Stanflow	Sodic Bottom	Favorable	4,000	Basin wildrye	70
		Normal	2,000	Inland saltgrass	10
		Unfavorable	1,500	Black greasewood	5
Umapine	Sodic Bottom	Favorable	4,000	Basin wildrye	70
		Normal	2,000	Saltgrass	10
		Unfavorable	1,500	Black greasewood	5
162A**:					
Sumpley	Mountain Meadow	Favorable	4,000	Tufted hairgrass	60
		Normal	3,000	Sedge	20
		Unfavorable	2,000	Baltic rush	10
				Willow	5

See footnotes at end of table.

TABLE 6.--RANGELAND PRODUCTIVITY AND CHARACTERISTIC PLANT COMMUNITIES--Continued

Soil name and map symbol	Range site	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation*	Composition
			Lb/acre		Pct
162A**:					
Stovepipe	Wet Mountain Meadow	Favorable	2,500	Sedge	70
		Normal	1,500	Baltic rush	10
		Unfavorable	1,000		
163D, 163E Taterpa	Shrubby Mountain North 16-20pz	Favorable	2,200	Idaho fescue	50
		Normal	1,800	Mountain big sagebrush	10
		Unfavorable	1,400	Needlegrass	10
				Antelope bitterbrush	5
				Common chokecherry	5
169C, 169D Ukiah	Clayey 14-17pz	Favorable	1,600	Idaho fescue	75
		Normal	1,100	Bluebunch wheatgrass	15
		Unfavorable	600		
170A Umapine	Sodic Bottom	Favorable	4,000	Basin wildrye	70
		Normal	2,000	Saltgrass	10
		Unfavorable	1,500	Black greasewood	5
171B, 171C, 172B, 172C Virtue	Mountain Loamy 9-12pz	Favorable	1,500	Idaho fescue	40
		Normal	1,000	Needleandthread	20
		Unfavorable	500	Wyoming big sagebrush	10
				Bluebunch wheatgrass	5
				Sandberg bluegrass	5
				Thurber needlegrass	5
173C Wahstal	Mountain Very Shallow 12-16pz	Favorable	600	Onespike oatgrass	30
		Normal	400	Stiff sagebrush	20
		Unfavorable	200	Sandberg bluegrass	20
				Idaho fescue	10
				Lomatium	5
175A Wingdale	Wet Meadow	Favorable	3,000	Sedge	70
		Normal	2,000	Baltic rush	10
		Unfavorable	1,500		
176A Wingville	Meadow	Favorable	5,000	Tufted hairgrass	60
		Normal	4,000	Sedge	20
		Unfavorable	3,000	Baltic rush	10
				Willow	5
177E Xeric Torriorthents	Terrace Escarpment 9-12pz	Favorable	1,000	Antelope bitterbrush	40
		Normal	800	Needleandthread	15
		Unfavorable	500	Basin big sagebrush	10
				Rabbitbrush	10
				Thurber needlegrass	10
178F**:					
Xeric Torriorthents	Mahogany Rockland 9-12pz	Favorable	900	Curlleaf mountainmahogany	40
		Normal	600	Bluebunch wheatgrass	20
		Unfavorable	300	Antelope bitterbrush	15
				Nevada greasebush	10
Rock outcrop.					

* Plant species that make up less than 5 percent of the composition are not listed.
** See description of the map unit for composition and behavior characteristics of the map unit.

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY

(Only the soils suitable for production of commercial trees are listed. Absence of an entry indicates that information was not available.)

Soil name and map symbol	Potential productivity: Common trees	Site index: 100-year	Site index: 50-year	Management concerns: Sheet and rill erosion hazard	Cut and fill erosion hazard	Equipment limitation	Soil compaction hazard	Soil displacement	Seedling mortality	Windthrow hazard	Plant competition	Fire damage hazard
2E*, 2F*:												
Anatone.												
Segundo-------	Ponderosa pine**--	71	---	Severe	Severe	Severe	Moderate	Moderate	Severe	Slight	Moderate	Severe.
	Douglas-fir**-----	78	63									
3F----------	Lodgepole pine**--	46	---	Severe	Severe	Severe	Moderate	Moderate	Moderate	Moderate	Slight	Moderate.
Angelpeak	Subalpine fir-----	54	---									
	Western larch**---	---	31									
	Whitebark pine----	---	---									
	Englemann spruce--	---	---									
	Grand fir---------	---	---									
19E----------	Ponderosa pine**--	58	---	Severe	Severe	Severe	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate.
Boiler	Douglas-fir**-----	69	53									
22E*, 22F*:												
Bouldrock.												
Kilmerque-----	Ponderosa pine**--	82	---	Severe	Severe	Severe	Severe	Severe	Severe	Moderate	Moderate	Moderate.
	Douglas-fir**-----	86	66									
24D----------	Douglas-fir**-----	69	50	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Slight	Moderate	Slight.
Brannan	Grand fir**-------	---	63									
	Western larch**---	---	52									
	Ponderosa pine----	---	---									
	Lodgepole pine----	---	---									
24E, 24F-------	Douglas-fir**-----	69	50	Severe	Severe	Severe	Moderate	Moderate	Moderate	Slight	Moderate	Moderate.
Brannan	Grand fir**-------	---	63									
	Western larch**---	---	52									
	Ponderosa pine----	---	---									
	Lodgepole pine----	---	---									
39D*:												
Crackler------	Douglas-fir**-----	83	68	Severe	Moderate	Moderate	Moderate	Moderate	Slight	Slight	Moderate	Slight.
	Western larch**---	---	55									
	Grand fir---------	---	58									
	Ponderosa pine----	---	---									

See footnotes at end of table.

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Soil name and map symbol	Potential productivity: Common trees	Site index: 100-year	Site index: 50-year	Management concerns: Sheet and rill erosion hazard	Cut and fill erosion hazard	Equipment limitation	Soil compaction hazard	Soil displacement	Seedling mortality	Windthrow hazard	Plant competition	Fire damage hazard
39D*:												
Rouen	Douglas-fir**	80	62	Severe	Moderate	Moderate	Moderate	Moderate	Slight	Moderate	Moderate	Slight.
	Grand fir**	---	43									
	Western larch**	---	45									
	Ponderosa pine	---	---									
	Lodgepole pine	51	---									
39E*:												
Crackler	Douglas-fir**	83	68	Severe	Severe	Severe	Moderate	Moderate	Slight	Slight	Moderate	Moderate.
	Western larch**	---	55									
	Grand fir	---	58									
	Ponderosa pine	---	---									
Rouen	Douglas-fir**	80	62	Severe	Severe	Severe	Moderate	Moderate	Slight	Moderate	Moderate	Moderate.
	Grand fir**	---	43									
	Western larch**	---	45									
	Lodgepole pine	51	---									
43E, 44F Dogtown	Douglas-fir**	81	61	Severe	Severe	Severe	Severe	Moderate	Moderate	Slight	Moderate	Slight.
	Grand fir	---	---									
	Western larch	---	---									
	Ponderosa pine**	83	---									
	Lodgepole pine	---	---									
48F Eaglecap	Subalpine fir	59	---	Severe	Severe	Severe	Moderate	Slight	Moderate	Slight	Moderate	Moderate.
	Lodgepole pine**	---	---									
	Western larch**	---	38									
	Whitebark pine	---	---									
	Englemann spruce**	63	---									
	Grand fir	---	---									
49D Emily	Ponderosa pine**	102	---	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Slight	Moderate	Moderate.
49E Emily	Ponderosa pine**	102	---	Severe	Severe	Severe	Moderate	Moderate	Moderate	Slight	Moderate	Moderate.
64C Hall Ranch	Ponderosa pine**	87	---	Moderate	Slight	Moderate	Severe	Moderate	Moderate	Moderate	Moderate	Moderate.
	Douglas-fir**	87	68									
65D, 67C Hankins	Ponderosa pine**	75	---	Severe	Moderate	Severe	Severe	Moderate	Moderate	Moderate	Moderate	Slight.
	Douglas-fir	---	---									
66D Hankins	Ponderosa pine**	75	---	Moderate	Moderate	Moderate	Moderate	Slight	Moderate	Slight	Moderate	Moderate.
	Douglas-fir	---	---									

See footnotes at end of table.

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Soil name and map symbol	Potential productivity: Common trees	Site index: 100-year	Site index: 50-year	Management concerns: Sheet and rill erosion hazard	Cut and fill erosion hazard	Equipment limitation	Soil compaction hazard	Soil displacement	Seedling mortality	Windthrow hazard	Plant competition	Fire damage hazard
67C---------- Hankins	Ponderosa pine**--	75	---	Severe	Moderate	Severe	Severe	Moderate	Moderate	Moderate	Moderate	Slight.
	Douglas-fir-------	---	---									
74D*:												
Highhorn------	Ponderosa pine**--	77	---	Moderate	Moderate	Moderate	Slight	Slight	Moderate	Slight	Moderate	Slight.
	Douglas-fir**-----	82	63									
Huntrock------	Ponderosa pine**--	61	---	Severe	Moderate	Moderate	Slight	Slight	Severe	Moderate	Moderate	Moderate.
	Douglas-fir**-----	79	62									
74E*:												
Highhorn------	Ponderosa pine**--	77	---	Severe	Severe	Severe	Slight	Slight	Moderate	Slight	Moderate	Slight.
	Douglas-fir**-----	82	63									
Huntrock------	Ponderosa pine**--	61	---	Severe	Severe	Severe	Slight	Slight	Severe	Moderate	Moderate	Moderate.
	Douglas-fir**-----	79	62									
75D---------- Hudspeth	Ponderosa pine**--	50	---	Severe	Moderate	Severe	Moderate	Slight	Severe	Moderate	Moderate	Moderate.
	Western juniper---	---	---									
76D*:												
Hudspeth------	Ponderosa pine**--	50	---	Severe	Moderate	Severe	Moderate	Slight	Severe	Moderate	Moderate	Moderate.
	Western juniper---	---	---									
Morningstar---	Ponderosa pine**--	69	---	Moderate	Moderate	Moderate	Slight	Slight	Severe	Slight	Moderate	Moderate.
	Douglas-fir-------	---	---									
76E*:												
Hudspeth------	Ponderosa pine**--	50	---	Severe	Severe	Severe	Moderate	Slight	Severe	Moderate	Moderate	Severe.
	Western juniper---	---	---									
Morningstar---	Ponderosa pine**--	69	---	Severe	Severe	Severe	Slight	Slight	Severe	Slight	Moderate	Moderate.
	Douglas-fir-------	---	---									
77F*:												
Huntrock------	Ponderosa pine**--	61	---	Severe	Severe	Severe	Slight	Slight	Severe	Moderate	Moderate	Moderate.
	Douglas-fir**-----	79	62									
Highhorn------	Ponderosa pine**--	77	---	Severe	Severe	Severe	Slight	Slight	Moderate	Slight	Moderate	Slight.
	Douglas-fir**-----	82	63									
83D---------- Inkler	Douglas-fir**-----	80	61	Moderate	Moderate	Moderate	Slight	Moderate	Moderate	Slight	Moderate	Moderate.
	Ponderosa pine**--	64	---									
	Western larch**---	---	53									

See footnotes at end of table.

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Soil name and map symbol	Potential productivity: Common trees	Site index: 100-year	Site index: 50-year	Management concerns: Sheet and rill erosion hazard	Cut and fill erosion hazard	Equipment limitation	Soil compaction hazard	Soil displacement	Seedling mortality	Windthrow hazard	Plant competition	Fire damage hazard
83E, 83F------- Inkler	Douglas-fir**-----	80	61	Severe	Severe	Severe	Slight	Moderate	Moderate	Slight	Moderate	Moderate.
	Ponderosa pine**--	64	---									
	Western larch**---	---	53									
86D---------- Kilmerque	Ponderosa pine**--	82	---	Severe	Moderate	Moderate	Severe	Severe	Severe	Moderate	Moderate	Moderate.
	Douglas-fir**-----	86	66									
86E---------- Kilmerque	Ponderosa pine**--	82	---	Severe	Severe	Severe	Severe	Severe	Severe	Moderate	Moderate	Moderate.
	Douglas-fir**-----	86	66									
87D---------- Klicker	Ponderosa pine**--	70	---	Moderate	Moderate	Moderate	Severe	Severe	Moderate	Moderate	Moderate	Moderate.
	Douglas-fir**-----	71	60									
87E---------- Klicker	Ponderosa pine**--	70	---	Moderate	Moderate	Moderate	Severe	Severe	Moderate	Moderate	Moderate	Moderate.
	Douglas-fir**-----	71	60									
88D*:												
Klicker-------	Ponderosa pine**--	70	---	Moderate	Moderate	Moderate	Severe	Severe	Severe	Moderate	Moderate	Moderate.
	Douglas-fir**-----	71	60									
Anatone.												
89D*:												
Klicker-------	Ponderosa pine**--	70	---	Moderate	Moderate	Moderate	Severe	Severe	Moderate	Moderate	Moderate	Moderate.
	Douglas-fir**-----	71	60									
Fivebit.												
89E*:												
Klicker-------	Ponderosa pine**--	70	---	Moderate	Moderate	Moderate	Severe	Severe	Severe	Moderate	Moderate	Moderate.
	Douglas-fir**-----	71	60									
Fivebit.												
109C---------- McEwen	Ponderosa pine**--	71	---	Slight	Slight	Moderate	Severe	Moderate	Slight	Slight	Moderate	Slight.
110D---------- McEwen	Ponderosa pine**--	71	---	Moderate	Slight	Moderate	Severe	Moderate	Slight	Slight	Moderate	Slight.
111D*:												
McGarr--------	Ponderosa pine**--	68	---	Moderate	Moderate	Severe	Severe	Severe	Moderate	Moderate	Moderate	Moderate.
	Douglas-fir**-----	---	---									
Kahler--------	Ponderosa pine**--	83	---	Severe	Moderate	Moderate	Severe	Moderate	Slight	Slight	Moderate	Moderate.
	Douglas-fir**-----	87	67									

See footnotes at end of table.

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Soil name and map symbol	Potential productivity: Common trees	Site index: 100-year	Site index: 50-year	Management concerns: Sheet and rill erosion hazard	Cut and fill erosion hazard	Equipment limitation	Soil compaction hazard	Soil displacement	Seedling mortality	Windthrow hazard	Plant competition	Fire damage hazard
111E*:												
McGarr--------	Ponderosa pine**--	68	---	Severe	Moderate	Severe	Severe	Severe	Moderate	Moderate	Moderate	Moderate.
	Douglas-fir**-----	---	---									
Kahler--------	Ponderosa pine**--	83	---	Severe	Moderate	Moderate	Severe	Moderate	Slight	Slight	Moderate	Moderate.
	Douglas-fir**-----	87	67									
112D----------	Ponderosa pine**--	69	---	Moderate	Moderate	Moderate	Slight	Slight	Severe	Slight	Moderate	Moderate.
Morningstar	Douglas-fir-------	---	---									
121E, 121F-----	Douglas-fir**-----	81	62	Severe	Severe	Severe	Moderate	Slight	Moderate	Moderate	Moderate	Moderate.
Piersonte	Ponderosa pine**--	93	---									
	Grand fir**-------	---	68									
147D----------	Ponderosa pine**--	71	---	Moderate	Moderate	Moderate	Moderate	Moderate	Severe	Slight	Moderate	Moderate.
Segundo	Douglas-fir**-----	78	63									
147E, 147F-----	Ponderosa pine**--	71	---	Severe	Severe	Severe	Moderate	Moderate	Severe	Slight	Moderate	Severe.
Segundo	Douglas-fir**-----	78	63									
150D----------	Ponderosa pine**--	68	---	Severe	Moderate	Severe	Moderate	Slight	Severe	Moderate	Moderate	Moderate.
Sisley	Douglas-fir**-----	69	58									
150E, 150F-----	Ponderosa pine**--	68	---	Severe	Severe	Severe	Moderate	Slight	Severe	Moderate	Moderate	Severe.
Sisley	Douglas-fir**-----	69	58									
160E----------	Douglas-fir**-----	77	59	Severe	Severe	Severe	Moderate	Severe	Severe	Slight	Moderate	Severe.
Stavely	Ponderosa pine**--	67	---									
161E, 161F-----	Douglas-fir**-----	68	53	Severe	Severe	Severe	Slight	Moderate	Moderate	Slight	Moderate	Severe.
Stices	Grand fir---------	---	34									
164D*:												
Tolo----------	Douglas-fir**-----	81	60	Severe	Moderate	Moderate	Moderate	Moderate	Slight	Slight	Moderate	Slight.
	Grand fir**-------	---	50									
	Western larch**---	---	47									
	Ponderosa pine**--	75	---									
Crackler------	Douglas-fir**-----	83	68	Moderate	Moderate	Moderate	Moderate	Severe	Slight	Moderate	Moderate	Slight.
	Grand fir---------	---	58									
	Western larch-----	---	55									
165D*:												
Tolo----------	Douglas-fir**-----	81	60	Severe	Moderate	Moderate	Moderate	Moderate	Slight	Slight	Moderate	Slight.
	Grand fir**-------	---	50									
	Western larch**---	---	47									
	Ponderosa pine**--	75	---									

See footnotes at end of table.

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Soil name and map symbol	Potential productivity: Common trees	Site index: 100-year	Site index: 50-year	Management concerns: Sheet and rill erosion hazard	Cut and fill erosion hazard	Equipment limitation	Soil compaction hazard	Soil displacement	Seedling mortality	Windthrow hazard	Plant competition	Fire damage hazard
165D*:												
Dogtown	Douglas-fir**	81	61	Severe	Moderate	Severe	Severe	Moderate	Moderate	Slight	Moderate	Slight.
	Grand fir	---	---									
	Western larch	---	---									
	Ponderosa pine**	83	---									
	Lodgepole pine	---	---									
166D Top	Douglas-fir**	111	83	Severe	Moderate	Moderate	Severe	Severe	Slight	Slight	Moderate	Moderate.
	Ponderosa pine**	111	---									
	Grand fir	---	---									
166E Top	Douglas-fir**	111	83	Severe	Severe	Severe	Severe	Severe	Slight	Slight	Moderate	Moderate.
	Ponderosa pine**	111	---									
	Grand fir	---	---									
167D*:												
Top	Douglas-fir**	111	83	Severe	Moderate	Moderate	Severe	Severe	Slight	Slight	Moderate	Moderate.
	Ponderosa pine**	111	---									
	Grand fir	---	---									
McGarr	Ponderosa pine**	68	---	Moderate	Moderate	Severe	Severe	Severe	Moderate	Moderate	Moderate	Moderate.
	Douglas-fir**	---	---									
167E*:												
Top	Douglas-fir**	111	83	Severe	Severe	Severe	Severe	Severe	Slight	Slight	Moderate	Moderate.
	Ponderosa pine**	111	---									
	Grand fir	---	---									
McGarr	Ponderosa pine**	68	---	Severe	Moderate	Severe	Severe	Severe	Moderate	Moderate	Moderate	Moderate.
	Douglas-fir**	---	---									
174B Webfoot	Ponderosa pine**	96	---	Slight	Slight	Severe	Moderate	Moderate	Moderate	Moderate	Severe	Slight.

* See descriptions of the map unit for composition and behavior characteristics of the map unit.
** Preferred for wood production.

TABLE 8.--WINDBREAKS AND ENVIRONMENTAL PLANTINGS

(The symbol < means less than; > means more than. Only the soils that are likely to be used for windbreaks or environmental plantings are listed. Absence of an entry indicates that trees generally do not grow to the given height on that soil)

Soil name and map symbol	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
4B, 4C Applegate	Skunkbush sumac, lilac, Tatarian honeysuckle, Nanking cherry, common privet, Siberian peashrub.	Rocky Mountain juniper, blue spruce, Russian-olive.	Scotch pine, Austrian pine, ponderosa pine, green ash.	Black locust	---
11A, 11B Baker	Siberian peashrub, lilac, Tatarian honeysuckle, skunkbush sumac, fourwing saltbush.	Russian-olive, green ash, Siberian elm, Rocky Mountain juniper.	Black locust, ponderosa pine.	---	---
12A, 12B Baker	Siberian peashrub, lilac, Lassen bitterbrush, fourwing saltbush, skunkbush sumac.	Russian-olive, Manchurian crabapple, Siberian elm, Rocky Mountain juniper.	Austrian pine, ponderosa pine, Siberian elm.	Black locust, Scotch pine.	---
13A Baldock	Lilac, big saltbush.	Siberian peashrub, silver buffaloberry.	Russian-olive, golden willow.	Green ash Siberian elm, black willow.	Lombardy poplar.
16B, 16C Barnard	Siberian peashrub, lilac, Lassen bitterbrush, fourwing saltbush, skunkbush sumac.	Russian-olive, Manchurian crabapple, Siberian elm, Rocky Mountain juniper.	Austrian pine, ponderosa pine, Siberian elm.	Black locust, Scotch pine.	---
16D, 17C Barnard	Skunkbush sumac, lilac, Tatarian honeysuckle, Nanking cherry, common privet, Siberian peashrub.	Rocky Mountain juniper, blue spruce, Russian-olive.	Scotch pine, Austrian pine, ponderosa pine, green ash.	Black locust	---
20D Bouldrock	Siberian peashrub, lilac, Lassen bitterbrush, fourwing saltbush.	Russian-olive, green ash, Siberian elm, Rocky Mountain juniper.	Black locust, Scotch pine, Austrian pine, ponderosa pine.	---	---
25C*:					
Brownlee	Siberian peashrub, lilac, Tatarian honeysuckle, redosier dogwood.	Siberian elm, Russian-olive, Manchurian crabapple, Rocky Mountain juniper.	Honeylocust, Scotch pine, Austrian pine, ponderosa pine.	Black locust	---

See footnote at end of table.

TABLE 8.--WINDBREAKS AND ENVIRONMENTAL PLANTINGS--Continued

Soil name and map symbol	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
25C*:					
Shangland	Siberian peashrub, lilac, Lassen bitterbrush, fourwing saltbush.	Russian-olive, green ash, Siberian elm, Rocky Mountain juniper.	black locust, Scotch pine, Austrian pine, ponderosa pine.	---	---
31A Burkemont	Lilac, big saltbush.	Siberian peashrub, silver buffaloberry.	Russian-olive, golden willow.	Green ash Siberian elm, black willow.	Lombardy poplar.
35A Catherine	Peking cotoneaster, Saskatoon serviceberry, skunkbush sumac, common privet.	Tatarian honeysuckle, European privet, Siberian peashrub, Nanking cherry, lilac.	Russian-olive, Manchurian crabapple, Rocky Mountain juniper, blue spruce, northern whitecedar.	Black willow, Norway spruce, golden willow, ponderosa pine, Scotch pine, Austrian pine, green ash.	Lombardy poplar, black locust, black cottonwood.
50C Encina	Siberian peashrub, lilac, Tatarian honeysuckle, Nanking cherry, skunkbush sumac.	Russian-olive, Siberian elm, Rocky Mountain juniper, green ash.	Black locust, Scotch pine, Austrian pine, ponderosa pine.	---	---
54B Goodrich	Siberian peashrub, lilac, Tatarian honeysuckle, redosier dogwood.	Russian-olive, Siberian elm, Rocky Mountain juniper, Manchurian crabapple.	Honeylocust, Scotch pine, ponderosa pine, Austrian pine.	Black locust	---
56C Greenscombe	Siberian peashrub, lilac, Lassen bitterbrush, fourwing saltbush, skunkbush sumac.	Russian-olive, Manchurian crabapple, Siberian elm, Rocky Mountain juniper.	Austrian pine, ponderosa pine, Siberian elm.	Black locust, Scotch pine.	---
62A Haines	Lilac, big saltbush.	Siberian peashrub, silver buffaloberry.	Russian-olive, golden willow.	Green ash Siberian elm, black willow.	Lombardy poplar.
63A Halfway	Peking cotoneaster common privet, Saskatoon serviceberry, Nanking cherry.	Siberian peashrub, lilac, Tatarian honeysuckle, Rocky Mountain juniper.	Russian-olive, hackberry, Manchurian crabapple, blue spruce.	Black locust, green ash, Scotch pine, Austrian pine, ponderosa pine.	Lombardy poplar.
71B, 71C Hibbard	Skunkbush sumac, lilac, Tatarian honeysuckle, Nanking cherry, common privet, Siberian peashrub.	Rocky Mountain juniper, blue spruce, Russian-olive.	Scotch pine, Austrian pine, ponderosa pine, green ash.	Black locust	---

See footnote at end of table.

TABLE 8.--WINDBREAKS AND ENVIRONMENTAL PLANTINGS--Continued

Soil name and map symbol	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
84D Jett	Siberian peashrub, lilac, fourwing saltbush, big saltbush.	Russian-olive, Siberian elm, Rocky Mountain juniper, green ash.	Austrian pine, ponderosa pine.	Black locust	---
90B, 90C Ladd	Peking cotoneaster, common privet, Lassen bitterbrush, fourwing saltbush.	Siberian peashrub, lilac, Rocky Mountain juniper, Manchurian crabapple.	Russian-olive, Siberian elm, blue spruce, green ash.	Hackberry, honeylocust, Austrian pine, ponderosa pine, Scotch pine.	Black locust.
91A La Grande	Tatarian honeysuckle, skunkbush sumac, fourwing saltbush.	Siberian peashrub, lilac, Rocky Mountain juniper.	Russian-olive, golden willow.	Green ash, Austrian pine, ponderosa pine, black willow.	Black locust.
92A, 93A Langrell	Siberian peashrub, lilac, Tatarian honeysuckle, redosier dogwood.	Siberian elm, Russian-olive, Manchurian crabapple, Rocky Mountain juniper.	Honeylocust, Scotch pine, Austrian pine, ponderosa pine.	Black locust	---
114C North Powder	Siberian peashrub, lilac, Lassen bitterbrush, fourwing saltbush, skunkbush sumac.	Russian-olive, Manchurian crabapple, Siberian elm, Rocky Mountain juniper.	Austrian pine, ponderosa pine, Siberian elm.	Black locust, Scotch pine.	---
126A, 127A Powval	Siberian peashrub, lilac, fourwing saltbush, big saltbush.	Rocky Mountain juniper, green ash, Russian-olive, Siberian elm.	Austrian pine, ponderosa pine.	Black locust	---
131C*:					
Ridley	Siberian peashrub, lilac, Tatarian honeysuckle, skunkbush sumac, fourwing saltbush.	Russian-olive, green ash, Siberian elm, Rocky Mountain juniper.	Black locust, ponderosa pine.	---	---
Keating.					
159A*:					
Stanflow	Big saltbush, lilac.	Siberian peashrub, silver buffaloberry.	Russian-olive, golden willow.	Black willow, green ash, Siberian elm.	Lombardy poplar.
Umapine	Big saltbush, lilac.	Siberian peashrub, silver buffaloberry.	Russian-olive, golden willow.	Black willow, green ash, Siberian elm.	Lombardy poplar.

See footnote at end of table.

TABLE 8.--WINDBREAKS AND ENVIRONMENTAL PLANTINGS--Continued

Soil name and map symbol	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
171B Virtue	Siberian peashrub, fourwing saltbush, skunkbush sumac, lilac.	Siberian elm, Russian-olive, Rocky Mountain juniper.	Ponderosa pine, Siberian elm, black locust, hackberry, honeylocust.	---	---
175A Wingdale	Big saltbush, lilac.	Siberian peashrub, silver buffaloberry.	Russian-olive, golden willow.	Black willow	---
176A Wingville	Big saltbush, lilac.	Siberian peashrub, silver buffaloberry.	Russian-olive, golden willow.	Black willow	---

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

TABLE 9.--RECREATIONAL DEVELOPMENT

(Some terms that describe restrictive soil features are defined in the "Glossary." See text for definitions of "slight," "moderate," and "severe." Absence of an entry indicates that the soil was not rated)

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
1D---------- Anatone	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope.	Severe: large stones.
1F---------- Anatone	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope.	Severe: large stones, slope.
2E*, 2F*:				
Anatone----------	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope.	Severe: large stones, slope.
Segundo----------	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
3F---------- Angelpeak	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
4B---------- Applegate	Moderate: dusty.	Moderate: dusty.	Moderate: slope, dusty.	Moderate: dusty.
4C---------- Applegate	Moderate: slope, dusty.	Moderate: slope, dusty.	Severe: slope.	Moderate: dusty.
5C---------- Aridic Haploxerolls	Moderate: slope, large stones, small stones.	Moderate: slope, large stones, small stones.	Severe: large stones, small stones, slope.	Moderate: large stones.
6C---------- Ateron	Severe: depth to rock.	Severe: depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones.
7D---------- Ateron	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones.
7E---------- Ateron	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
8C*:				
Ateron----------	Severe: small stones, depth to rock.	Severe: small stones, depth to rock.	Severe: slope, small stones.	Slight.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
8C*:				
Roostercomb	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Severe: small stones.
9D*:				
Ateron	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones.	Moderate: slope.
Roostercomb	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
9E*:				
Ateron	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones.	Severe: slope.
Roostercomb	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
10C*:				
Bakeoven	Severe: small stones, depth to rock.	Severe: small stones, depth to rock.	Severe: slope, small stones.	Severe: small stones.
Ruckles	Severe: depth to rock.	Severe: depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones.
11A Baker	Moderate: percs slowly, dusty.	Moderate: percs slowly, dusty.	Moderate: percs slowly.	Moderate: dusty.
11B Baker	Moderate: percs slowly, dusty.	Moderate: percs slowly, dusty.	Moderate: slope, cemented pan, percs slowly.	Moderate: dusty.
12A Baker	Moderate: percs slowly, dusty.	Moderate: percs slowly, dusty.	Moderate: percs slowly.	Moderate: dusty.
12B Baker	Moderate: percs slowly, dusty.	Moderate: percs slowly, dusty.	Moderate: slope, cemented pan, percs slowly.	Moderate: dusty.
13A Baldock	Severe: flooding, wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.
14D Baldridge	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
14E, 14F Baldridge	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
15A Balm	Severe: flooding, wetness.	Moderate: wetness, dusty.	Severe: wetness.	Moderate: wetness, dusty.
16B Barnard	Moderate: dusty.	Moderate: dusty.	Moderate: slope, cemented pan.	Severe: erodes easily.
16C Barnard	Moderate: slope, dusty.	Moderate: slope, dusty.	Severe: slope.	Severe: erodes easily.
16D Barnard	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
17C Barnard	Moderate: slope, large stones, dusty.	Moderate: slope, large stones, dusty.	Severe: large stones, slope.	Moderate: large stones, dusty.
18B Benderly	Moderate: small stones.	Moderate: small stones.	Severe: small stones.	Slight.
19E Boiler	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
20D Bouldrock	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
21E*:				
Bouldrock	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, erodes easily.
Bouldrock	Severe: slope.	Severe: slope.	Severe: large stones, slope.	Severe: large stones, slope, erodes easily.
22E*, 22F*:				
Bouldrock	Severe: slope.	Severe: slope.	Severe: large stones, slope.	Severe: large stones, slope, erodes easily.
Kilmerque	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
23A Boyce	Severe: flooding, wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.
24D Brannan	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
24E, 24F Brannan	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
25C*:				
Brownlee	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
Shangland	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Severe: erodes easily.
26D*:				
Brownlee	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
Shangland	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
27C Brownscombe	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
28D, 29D Brownscombe	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
30E*:				
Brownscombe	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
31A Burkemont	Severe: flooding, wetness, excess sodium.	Severe: excess sodium.	Severe: wetness, excess sodium.	Moderate: wetness.
32A Burntriver	Moderate: dusty.	Moderate: dusty.	Moderate: small stones, dusty.	Severe: erodes easily.
33C Burntriver	Moderate: small stones, dusty.	Moderate: small stones, dusty.	Severe: slope, small stones.	Moderate: dusty.
34D*:				
Campcreek	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Moderate: slope, dusty.
Skullgulch	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
34E*:				
Campcreek	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
34E*:				
Skullgulch	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
35A Catherine	Severe: flooding.	Moderate: wetness.	Moderate: wetness.	Moderate: wetness.
36C*:				
Clovercreek	Severe: small stones, depth to rock.	Severe: small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: dusty.
Keating	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
37D*:				
Clovercreek	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope, dusty.
Keating	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
38E*, 38F*:				
Copperfield	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
39D*:				
Crackler	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope.
Rouen	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope.
39E*:				
Crackler	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
Rouen	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
40A Cumulic Haploxerolls	Severe: flooding.	Moderate: wetness, dusty.	Moderate: small stones, wetness, flooding.	Moderate: dusty.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
41A*:				
Damore	Severe: flooding, wetness.	Moderate: wetness, dusty.	Severe: wetness.	Moderate: wetness, dusty.
Silvies	Severe: flooding, ponding.	Severe: ponding.	Severe: ponding.	Severe: ponding.
42D*:				
Derringer	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Moderate: slope, dusty.
Harlow	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Moderate: slope.
43E*:				
Dogtown	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
Dogtown	Severe: slope.	Severe: slope.	Severe: slope.	Severe: large stones, slope.
44F Dogtown	Severe: slope.	Severe: slope.	Severe: slope.	Severe: large stones, slope.
45C Durkee	Moderate: small stones, dusty.	Moderate: small stones, dusty.	Severe: slope, small stones.	Moderate: dusty.
46D Durkee	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, dusty.
46E Durkee	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
47D Durkee	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, dusty.
47E Durkee	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
48F Eaglecap	Severe: slope, small stones.	Severe: slope, small stones.	Severe: large stones, slope, small stones.	Severe: slope, small stones.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
49D Emily	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
49E Emily	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
50C Encina	Moderate: small stones, dusty.	Moderate: small stones, dusty.	Severe: slope, small stones.	Moderate: dusty.
51D Encina	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, dusty.
51E Encina	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
52E*:				
Fivebit	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
53B Glasgow	Moderate: dusty.	Moderate: dusty.	Moderate: slope, depth to rock, dusty.	Severe: erodes easily.
54B Goodrich	Moderate: small stones, dusty.	Moderate: small stones, dusty.	Severe: small stones.	Moderate: dusty.
55B*:				
Goodrich	Moderate: small stones, dusty.	Moderate: small stones, dusty.	Severe: small stones.	Moderate: dusty.
Benderly	Moderate: small stones.	Moderate: small stones.	Severe: small stones.	Slight.
56C Greenscombe	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
57D, 58D Greenscombe	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
59D*:				
Gwinly	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Moderate: large stones, dusty.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
59D*:				
Immig	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones.
59E*, 59F*:				
Gwinly	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Moderate: large stones, dusty.
Immig	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
60D*:				
Gwinly	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Moderate: large stones, dusty.
Immig	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones.
Snell	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Moderate: large stones, slope.
60E*, 60F*:				
Gwinly	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Moderate: large stones, dusty.
Immig	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
Snell	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Severe: slope.
61D*:				
Gwinly	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Moderate: large stones, dusty.
Rockly	Severe: slope, small stones.	Severe: slope, small stones.	Severe: large stones, slope, small stones.	Moderate: slope, dusty.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
62A Haines	Severe: flooding, wetness.	Moderate: wetness, excess salt.	Severe: wetness.	Moderate: wetness.
63A Halfway	Moderate: percs slowly, too clayey.	Moderate: too clayey, percs slowly.	Moderate: too clayey, percs slowly.	Moderate: too clayey.
64C Hall Ranch	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
65D Hankins	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
66D Hankins	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope.	Moderate: large stones, slope, dusty.
67C*:				
Hankins	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Severe: erodes easily.
Hankins	Severe: large stones.	Severe: large stones.	Severe: large stones, slope.	Moderate: large stones, dusty.
68C Harlow	Severe: large stones, small stones.	Severe: large stones, small stones.	Severe: large stones, slope, small stones.	Slight.
69E*:				
Harlow	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope.
Derringer	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.
70A Hershal	Severe: flooding, wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.
71B Hibbard	Slight	Slight	Moderate: slope, cemented pan.	Severe: erodes easily.
71C Hibbard	Moderate: slope.	Moderate: slope.	Severe: slope.	Severe: erodes easily.
72C Hibbard	Moderate: small stones.	Moderate: small stones.	Severe: slope, small stones.	Slight.
73B*:				
Hibbard	Moderate: small stones.	Moderate: small stones.	Severe: small stones.	Slight.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
73B*:				
Rockly	Severe: large stones, small stones, cemented pan.	Severe: large stones, small stones, cemented pan.	Severe: large stones, small stones.	Moderate: large stones, dusty.
74D*:				
Highhorn	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
Huntrock	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
74E*:				
Highhorn	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
Huntrock	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
75D Hudspeth	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Severe: large stones.
76D*:				
Hudspeth	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Severe: large stones.
Morningstar	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
76E*:				
Hudspeth	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
Morningstar	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
77F*:				
Huntrock	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
Highhorn	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
78E*:				
Hyall	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
Badland	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
79D*:				
Hyall	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
Simas	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope.
80E*:				
Hyall	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
Simas	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
81C Immig	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Severe: erodes easily.
82C Immig	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Severe: large stones.
83D Inkler	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Moderate: slope, dusty.
83E, 83F Inkler	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.
84D Jett	Severe: flooding.	Moderate: dusty.	Moderate: dusty.	Moderate: dusty.
85D Keating	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
86D Kilmerque	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
86E Kilmerque	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
87D Klicker	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, dusty.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
87E Klicker	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
88D*:				
Klicker	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, dusty.
Anatone	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope.	Severe: large stones.
89D*:				
Klicker	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, dusty.
Fivebit	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: large stones.
89E*:				
Klicker	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
Fivebit	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
90B Ladd	Moderate: dusty.	Moderate: dusty.	Moderate: slope, dusty.	Moderate: dusty.
90C Ladd	Moderate: slope, dusty.	Moderate: slope, dusty.	Severe: slope.	Moderate: dusty.
91A La Grande	Severe: flooding.	Moderate: wetness, dusty.	Moderate: wetness, dusty.	Moderate: dusty.
92A Langrell	Severe: flooding.	Moderate: small stones, dusty.	Severe: small stones.	Moderate: dusty.
93A Langrell	Severe: flooding, large stones.	Severe: large stones.	Severe: large stones, small stones.	Moderate: large stones, dusty.
94C Legler	Severe: flooding.	Moderate: dusty.	Moderate: slope, dusty.	Severe: erodes easily.
95C Legler	Severe: flooding.	Moderate: slope, small stones, dusty.	Severe: slope, small stones.	Moderate: dusty.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
96E, 96F Lickskillet	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones.	Severe: slope, small stones.
97E*:				
Lickskillet	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
98C Lookout	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
99C Lookout	Moderate: dusty.	Moderate: dusty.	Severe: large stones, slope.	Severe: large stones.
100D Lostbasin	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Moderate: slope, dusty.
101E*:				
Lostbasin	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.
Xerorthents	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope, small stones.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
102C Lovline	Moderate: small stones, dusty.	Moderate: small stones, dusty.	Severe: slope, small stones.	Moderate: dusty.
103D Lovline	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, dusty.
103E, 103F Lovline	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
104D Marack	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
105C Marack	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Slight.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
106D Marack	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Moderate: slope.
107C*:				
Marack	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Slight.
Marack	Slight	Slight	Severe: slope.	Severe: erodes easily.
108D*:				
Marack	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Slight.
Badland	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	---
109C McEwen	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
110D McEwen	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, dusty.
111D*:				
McGarr	Severe: slope.	Severe: slope.	Severe: large stones, slope.	Severe: large stones.
Kahler	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
111E*:				
McGarr	Severe: slope.	Severe: slope.	Severe: large stones, slope.	Severe: large stones, slope.
Kahler	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, erodes easily.
112D Morningstar	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
113D Nagle	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
113E Nagle	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
114C North Powder	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
115D, 116D North Powder	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
117D*:				
North Powder	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Moderate: slope.
118C Oxman	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
119D Oxman	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
120D*:				
Oxman	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
Xeric Torriorthents	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: erodes easily.
121E, 121F Piersonte	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.
122C Poall	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Severe: erodes easily.
123D, 124D Poall	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, erodes easily.
125D*:				
Poall	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, erodes easily.
Xeric Torriorthents	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, erodes easily.
126A, 127A Powval	Moderate: dusty.	Moderate: dusty.	Moderate: dusty.	Moderate: dusty.
128B Pritchard	Slight	Slight	Moderate: slope, small stones.	Slight.
129B Rastus	Severe: small stones.	Severe: small stones.	Severe: small stones.	Severe: small stones.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
130E, 130F Redcliff	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
131C*:				
Ridley	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Severe: erodes easily.
Keating	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
132A* Riverwash	Severe: flooding, small stones, wetness.	Severe: wetness, too sandy, small stones.	Severe: small stones, too sandy, wetness.	Severe: wetness, too sandy, small stones.
133C*:				
Robinette	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Severe: erodes easily.
Gwinly	Severe: large stones, depth to rock.	Severe: large stones, depth to rock.	Severe: large stones, slope, small stones.	Moderate: large stones, dusty.
134F*:				
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
Lostbasin	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.
Xerorthents	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope, small stones.
135F*:				
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
Ruckles	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
136F*:				
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
Ruclick	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
137F*:				
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
Snell	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Severe: slope.
138F*:				
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
Snellby	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
139F*:				
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.
Xeric Torriorthents	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope, small stones.
Darkcanyon	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope, small stones.
140C*:				
Rockly	Severe: small stones, depth to rock.	Severe: small stones, depth to rock.	Severe: large stones, slope, small stones.	Moderate: dusty.
Gwinly	Severe: large stones, depth to rock.	Severe: large stones, depth to rock.	Severe: large stones, slope, small stones.	Moderate: large stones, dusty.
141D*:				
Roostercomb	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
Longbranch	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
141E*:				
Roostercomb	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
Longbranch	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, erodes easily.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
142C*:				
Ruckles	Severe: depth to rock.	Severe: depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones.
Ruclick	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Severe: large stones.
143D*:				
Ruckles	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones.
Ruclick	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones.
143E*, 143F*:				
Ruckles	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
Ruclick	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
144E*, 144F*:				
Ruckles	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
Ruclick	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
Snellby	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
145D Ruclick	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones.
145E Ruclick	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
146D*:				
Sag	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
146D*:				
Snell	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Moderate: large stones, slope.
146E*:				
Sag	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, erodes easily.
Snell	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Severe: slope.
147D Segundo	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
147E, 147F Segundo	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
148F Sinker	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.
149D*:				
Sinker	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Moderate: slope, dusty.
Chambeam	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
149E*:				
Sinker	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.
Chambeam	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
150D Sisley	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.
150E, 150F Sisley	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.
151D Skullgulch	Moderate: slope.	Moderate: slope.	Severe: slope.	Slight.
152F Snaker	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
153E*:				
Snaker	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.
Darkcanyon	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope, small stones.
154E*:				
Snaker	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.
Darkcanyon	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope, small stones.
Xeric Torriorthents	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope, small stones.
155D*:				
Snell	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Moderate: large stones, slope.
Ateron	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones.
155E*:				
Snell	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Severe: slope.
Ateron	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones, slope.
156D*:				
Snell	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Moderate: large stones, slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Moderate: slope.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
157F*:				
Snell	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Severe: slope.
Sag	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, erodes easily.
158D Snellby	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: large stones, slope, dusty.
158E Snellby	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
159A*:				
Stanflow	Severe: excess sodium, excess salt.	Severe: excess sodium, excess salt.	Severe: excess sodium, excess salt.	Moderate: dusty.
Umapine	Severe: flooding, wetness, excess sodium.	Severe: excess sodium, excess salt.	Severe: wetness, excess sodium, excess salt.	Moderate: wetness, dusty.
160E Stavely	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
161E, 161F Stices	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Severe: slope.
162A*:				
Sumpley	Severe: flooding, wetness.	Moderate: wetness, dusty.	Severe: wetness.	Moderate: wetness, dusty.
Stovepipe	Severe: flooding, wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.
163D Taterpa	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
163E Taterpa	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, erodes easily.
164D*:				
Tolo	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
Crackler	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
165D*:				
Tolo	Severe: slope.	Severe: slope.	Severe: slope.	Severe: erodes easily.
Dogtown	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, dusty.
166D Top	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
166E Top	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
167D*:				
Top	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope, dusty.
McGarr	Severe: slope.	Severe: slope.	Severe: large stones, slope.	Severe: large stones.
167E*:				
Top	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
McGarr	Severe: slope.	Severe: slope.	Severe: large stones, slope.	Severe: large stones, slope.
168C Typic Xerorthents	Severe: large stones, small stones.	Severe: large stones, small stones.	Severe: large stones, slope, small stones.	Severe: large stones, small stones.
169C Ukiah	Moderate: percs slowly.	Moderate: percs slowly.	Severe: slope.	Slight.
169D Ukiah	Severe: slope.	Severe: slope.	Severe: slope.	Moderate: slope.
170A Umapine	Severe: flooding, wetness, excess sodium.	Severe: excess sodium, excess salt.	Severe: wetness, excess sodium, excess salt.	Moderate: wetness.
171B Virtue	Moderate: dusty.	Moderate: dusty.	Moderate: slope, dusty.	Moderate: dusty.
171C Virtue	Moderate: slope, dusty.	Moderate: slope, dusty.	Severe: slope.	Moderate: dusty.
172B Virtue	Severe: small stones.	Severe: small stones.	Severe: small stones.	Moderate: dusty.

See footnote at end of table.

TABLE 9.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
172C Virtue	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Moderate: dusty.
173C Wahstal	Severe: large stones, cemented pan.	Severe: large stones, cemented pan.	Severe: large stones, slope, small stones.	Severe: large stones.
174B Webfoot	Severe: flooding, wetness.	Moderate: wetness, dusty.	Severe: wetness.	Moderate: wetness, dusty.
175A Wingdale	Severe: flooding, wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.
176A Wingville	Severe: flooding.	Moderate: wetness, dusty.	Moderate: wetness, dusty.	Moderate: wetness, dusty.
177E Xeric Torriorthents	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, erodes easily.
178F*:				
Xeric Torriorthents	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope, small stones.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.

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

TABLE 10.--BUILDING SITE DEVELOPMENT

(Some terms that describe restrictive soil features are defined in the "Glossary." See text for definitions of "slight," "moderate," and "severe." Absence of an entry indicates that the soil was not rated. The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1D, 1F Anatone	Severe: depth to rock, large stones, slope.	Severe: slope, depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope, depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: small stones.
2E*, 2F*:						
Anatone	Severe: depth to rock, large stones, slope.	Severe: slope, depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope, depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: small stones.
Segundo	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
3F Angelpeak	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
4B Applegate	Moderate: too clayey.	Moderate: shrink-swell.	Severe: shrink-swell.	Moderate: shrink-swell, slope.	Severe: low strength.	Slight.
4C Applegate	Moderate: too clayey, slope.	Moderate: shrink-swell, slope.	Severe: shrink-swell.	Severe: slope.	Severe: low strength.	Moderate: slope.
5C Aridic Haploxerolls	Moderate: depth to rock, large stones, slope.	Moderate: slope, large stones.	Moderate: depth to rock, slope, large stones.	Moderate: slope, large stones.	Moderate: slope, large stones.	Moderate: large stones, slope.
6C Ateron	Severe: depth to rock, large stones.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: depth to rock.
7D, 7E Ateron	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: slope, depth to rock.
8C*:						
Ateron	Severe: depth to rock, large stones.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: small stones, depth to rock.
Roostercomb	Severe: depth to rock.	Moderate: shrink-swell, depth to rock.	Severe: depth to rock.	Moderate: shrink-swell, slope, depth to rock.	Moderate: depth to rock, shrink-swell.	Severe: small stones.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
9D*, 9E*:						
Ateron	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: small stones, slope, depth to rock.
Roostercomb	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
10C*:						
Bakeoven	Severe: depth to rock, large stones.	Severe: depth to rock, large stones.	Severe: depth to rock, large stones.	Severe: depth to rock, large stones.	Severe: depth to rock, large stones.	Severe: small stones, droughty.
Ruckles	Severe: depth to rock, large stones.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: large stones, depth to rock.
11A Baker	Severe: cutbanks cave.	Slight	Moderate: cemented pan.	Slight	Moderate: frost action.	Moderate: cemented pan.
11B Baker	Severe: cutbanks cave.	Slight	Moderate: cemented pan.	Moderate: slope.	Moderate: frost action.	Moderate: cemented pan.
12A Baker	Severe: cutbanks cave.	Slight	Moderate: cemented pan.	Slight	Moderate: frost action.	Moderate: cemented pan.
12B Baker	Severe: cutbanks cave.	Slight	Moderate: cemented pan.	Moderate: slope.	Moderate: frost action.	Moderate: cemented pan.
13A Baldock	Severe: wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: wetness, flooding, frost action.	Severe: wetness.
14D, 14E, 14F Baldridge	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
15A Balm	Severe: cutbanks cave, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Moderate: wetness, flooding, frost action.	Moderate: wetness.
16B Barnard	Severe: cemented pan.	Moderate: cemented pan.	Severe: cemented pan.	Moderate: slope, cemented pan.	Moderate: cemented pan, frost action.	Moderate: cemented pan.
16C Barnard	Severe: cemented pan.	Moderate: slope, cemented pan.	Severe: cemented pan.	Severe: slope.	Moderate: cemented pan, slope, frost action.	Moderate: slope, cemented pan.
16D Barnard	Severe: cemented pan, slope.	Severe: slope.	Severe: cemented pan, slope.	Severe: slope.	Severe: slope.	Severe: slope.
17C Barnard	Severe: cemented pan.	Severe: shrink-swell.	Severe: cemented pan, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength.	Severe: large stones.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
18B Benderly	Severe: cutbanks cave.	Slight	Slight	Slight	Slight	Moderate: small stones, droughty.
19E Boiler	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, slope.	Severe: slope.
20D Bouldrock	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
21E*:						
Bouldrock	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Bouldrock	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: large stones, slope.
22E*, 22F*:						
Bouldrock	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: large stones, slope.
Kilmerque	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
23A Boyce	Severe: cutbanks cave, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: low strength, wetness, frost action.	Severe: wetness.
24D, 24E, 24F Brannan	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, frost action.	Severe: slope.
25C*:						
Brownlee	Slight	Moderate: shrink-swell.	Moderate: shrink-swell.	Moderate: shrink-swell, slope.	Moderate: shrink-swell, low strength.	Slight.
Shangland	Severe: cutbanks cave.	Slight	Moderate: depth to rock.	Moderate: slope.	Moderate: frost action.	Moderate: depth to rock.
26D*:						
Brownlee	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Shangland	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
27C Brownscombe	Moderate: depth to rock.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Moderate: depth to rock.
28D, 29D Brownscombe	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, slope.	Severe: slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
30E*:						
Brownscombe	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, slope.	Severe: slope.
Rock outcrop	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
31A Burkemont	Severe: wetness.	Severe: flooding, wetness.	Severe: flooding, wetness, shrink-swell.	Severe: flooding, wetness.	Severe: low strength, frost action.	Severe: excess sodium.
32A Burntriver	Slight	Moderate: shrink-swell.	Moderate: shrink-swell.	Moderate: shrink-swell.	Moderate: shrink-swell, low strength.	Slight.
33C Burntriver	Slight	Moderate: shrink-swell.	Moderate: shrink-swell.	Moderate: shrink-swell, slope.	Moderate: shrink-swell, low strength.	Moderate: small stones.
34D*, 34E*:						
Campcreek	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: small stones, slope.
Skullgulch	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
35A Catherine	Severe: wetness.	Severe: flooding.	Severe: flooding, wetness.	Severe: flooding.	Severe: frost action.	Moderate: wetness.
36C*:						
Clovercreek	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: small stones, depth to rock.
Keating	Severe: depth to rock.	Severe: shrink-swell.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Moderate: depth to rock.
37D*:						
Clovercreek	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, slope, depth to rock.
Keating	Severe: depth to rock, slope.	Severe: shrink-swell, slope.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
38E*, 38F*:						
Copperfield	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: large stones, slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
38E*, 38F*:						
Rock outcrop	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
39D*, 39E*:						
Crackler	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Rouen	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope.
40A Cumulic Haploxerolls	Severe: wetness.	Severe: flooding.	Severe: flooding, wetness.	Severe: flooding.	Severe: flooding.	Moderate: flooding.
41A*:						
Damore	Severe: wetness.	Severe: flooding, wetness.	Severe: flooding, wetness, shrink-swell.	Severe: flooding, wetness.	Severe: low strength, flooding.	Moderate: wetness, flooding.
Silvies	Severe: ponding.	Severe: flooding, ponding, shrink-swell.	Severe: flooding, ponding, shrink-swell.	Severe: flooding, ponding, shrink-swell.	Severe: shrink-swell, low strength, ponding.	Severe: ponding.
42D*:						
Derringer	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
Harlow	Severe: depth to rock, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, slope.	Severe: small stones, slope, depth to rock.
43E*:						
Dogtown	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Dogtown	Severe: cutbanks cave, large stones, slope.	Severe: slope, large stones.	Severe: slope, large stones.	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope.
44F Dogtown	Severe: cutbanks cave, large stones, slope.	Severe: slope, large stones.	Severe: slope, large stones.	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope.
45C Durkee	Severe: depth to rock.	Severe: shrink-swell.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Moderate: small stones, depth to rock.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
46D, 46E, 47D, 47E: Durkee	Severe: depth to rock, slope.	Severe: shrink-swell, slope.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
48F: Eaglecap	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
49D, 49E: Emily	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
50C: Encina	Slight	Slight	Slight	Moderate: slope.	Moderate: frost action.	Moderate: small stones.
51D, 51E: Encina	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
52E*:						
Fivebit	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, large stones, slope.
Rock outcrop	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
53B: Glasgow	Severe: depth to rock.	Severe: shrink-swell.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Moderate: depth to rock.
54B: Goodrich	Slight	Slight	Slight	Slight	Moderate: frost action.	Moderate: small stones, large stones, droughty.
55B*:						
Goodrich	Slight	Slight	Slight	Slight	Moderate: frost action.	Moderate: small stones, large stones, droughty.
Benderly	Severe: cutbanks cave.	Slight	Slight	Slight	Slight	Moderate: small stones, droughty.
56C: Greenscombe	Moderate: depth to rock.	Slight	Moderate: depth to rock.	Moderate: slope.	Moderate: frost action.	Moderate: depth to rock.
57D, 58D: Greenscombe	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
59D*, 59E*, 59F*:						
Gwinly	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: large stones, slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
59D*, 59E*, 59F*:						
Immig	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
60D*, 60E*, 60F*:						
Gwinly	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: large stones, slope.
Immig	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
Snell	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
61D*:						
Gwinly	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: large stones, slope.
Rockly	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, slope.
62A Haines	Severe: wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: frost action.	Moderate: excess salt, wetness.
63A Halfway	Severe: cutbanks cave.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Severe: too clayey.
64C Hall Ranch	Moderate: depth to rock.	Slight	Moderate: depth to rock.	Moderate: slope.	Moderate: frost action.	Moderate: large stones, depth to rock.
65D Hankins	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
66D Hankins	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
67C*:						
Hankins	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Slight.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
67C*:						
Hankins	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Severe: large stones.
68C Harlow	Severe: depth to rock.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: small stones, depth to rock.
69E*:						
Harlow	Severe: depth to rock, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, slope.	Severe: small stones, slope, depth to rock.
Derringer	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
70A Hershal	Severe: cutbanks cave, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: wetness, frost action.	Severe: wetness.
71B Hibbard	Severe: cemented pan.	Severe: shrink-swell.	Severe: cemented pan, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Moderate: cemented pan.
71C Hibbard	Severe: cemented pan.	Severe: shrink-swell.	Severe: cemented pan, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength.	Moderate: cemented pan.
72C Hibbard	Severe: cemented pan.	Severe: shrink-swell.	Severe: cemented pan, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Moderate: small stones, large stones, cemented pan.
73B*:						
Hibbard	Severe: cemented pan.	Severe: shrink-swell.	Severe: cemented pan, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Moderate: small stones, large stones, cemented pan.
Rockly	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: small stones, large stones, cemented pan.
74D*, 74E*:						
Highhorn	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
Huntrock	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
75D Hudspeth	Severe: depth to rock, slope.	Severe: shrink-swell, slope.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, slope.	Severe: large stones, slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
76D*, 76E*:						
Hudspeth	Severe: depth to rock, slope.	Severe: shrink-swell, slope.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, slope.	Severe: large stones, slope.
Morningstar	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
77F*:						
Huntrock	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
Highhorn	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
78E*:						
Hyall	Severe: cutbanks cave, slope.	Severe: shrink-swell, slope.	Severe: slope.	Severe: shrink-swell, slope.	Severe: shrink-swell, slope.	Severe: small stones, slope.
Badland	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
79D*, 80E*:						
Hyall	Severe: cutbanks cave, slope.	Severe: shrink-swell, slope.	Severe: slope.	Severe: shrink-swell, slope.	Severe: shrink-swell, slope.	Severe: small stones, slope.
Simas	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
81C Immig	Severe: depth to rock, large stones.	Severe: shrink-swell, large stones.	Severe: depth to rock, shrink-swell, large stones.	Severe: shrink-swell, large stones.	Severe: shrink-swell, low strength, large stones.	Moderate: large stones, droughty.
82C Immig	Severe: depth to rock, large stones.	Severe: shrink-swell, large stones.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, large stones.	Severe: shrink-swell, low strength.	Severe: large stones.
83D, 83E, 83F Inkler	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
84D Jett	Moderate: wetness.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: frost action.	Slight.
85D Keating	Severe: depth to rock, slope.	Severe: shrink-swell, slope.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
86D, 86E Kilmerque	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
87D, 87E: Klicker	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope.
88D*:						
Klicker	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope.
Anatone	Severe: depth to rock, large stones, slope.	Severe: slope, depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope, depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: small stones.
89D*, 89E*:						
Klicker	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope.
Fivebit	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, large stones, slope.
90B: Ladd	Slight	Moderate: shrink-swell.	Moderate: shrink-swell.	Moderate: shrink-swell, slope.	Moderate: shrink-swell, frost action.	Slight.
90C: Ladd	Moderate: slope.	Moderate: shrink-swell, slope.	Moderate: slope, shrink-swell.	Severe: slope.	Moderate: shrink-swell, slope, frost action.	Moderate: slope.
91A: La Grande	Severe: cutbanks cave, wetness.	Severe: flooding.	Severe: flooding, wetness.	Severe: flooding.	Severe: low strength, frost action.	Slight.
92A: Langrell	Moderate: large stones.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Moderate: flooding, frost action, large stones.	Moderate: small stones, droughty.
93A: Langrell	Severe: large stones.	Severe: flooding, large stones.	Severe: flooding, large stones.	Severe: flooding, large stones.	Severe: large stones.	Severe: large stones.
94C: Legler	Moderate: too clayey.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Moderate: shrink-swell, low strength.	Slight.
95C: Legler	Moderate: too clayey, slope.	Severe: flooding.	Severe: flooding.	Severe: flooding, slope.	Moderate: shrink-swell, low strength, slope.	Moderate: small stones, slope.
96E, 96F: Lickskillet	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, slope, depth to rock.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
97E*:						
Lickskillet	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, large stones, depth to rock.
Rock outcrop	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
98C Lookout	Severe: cemented pan.	Severe: shrink-swell.	Severe: cemented pan, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Moderate: large stones, cemented pan.
99C Lookout	Severe: cemented pan.	Severe: shrink-swell.	Severe: cemented pan, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Severe: large stones.
100D Lostbasin	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
101E*:						
Lostbasin	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
Xerorthents	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, large stones, slope.
Rock outcrop	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
102C Lovline	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: slope, depth to rock.	Moderate: depth to rock, frost action.	Moderate: small stones, depth to rock.
103D, 103E, 103F Lovline	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope.
104D Marack	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
105C Marack	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Severe: small stones.
106D Marack	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: small stones, slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
107C*:						
Marack	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Severe: small stones.
Marack	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Slight.
108D*:						
Marack	Moderate: too clayey, slope.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength.	Severe: small stones.
Badland	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
109C McEwen	Slight	Moderate: shrink-swell.	Moderate: shrink-swell.	Moderate: shrink-swell, slope.	Severe: low strength.	Slight.
110D McEwen	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: low strength, slope.	Severe: slope.
111D*, 111E*:						
McGarr	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: large stones, slope.
Kahler	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
112D Morningstar	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
113D, 113E Nagle	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: low strength, slope.	Severe: slope.
114C North Powder	Moderate: depth to rock.	Moderate: shrink-swell.	Moderate: depth to rock, shrink-swell.	Moderate: shrink-swell, slope.	Moderate: shrink-swell, frost action.	Moderate: depth to rock.
115D, 116D North Powder	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
117D*:						
North Powder	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Rock outcrop	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
118C Oxman	Moderate: depth to rock.	Slight	Moderate: depth to rock.	Moderate: slope.	Moderate: frost action.	Moderate: depth to rock.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
119D---------- Oxman	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
120D*:						
Oxman----------	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Xeric Torriorthents---	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
121E, 121F-------- Piersonte	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
122C---------- Poall	Moderate: too clayey.	Severe: shrink-swell.	Slight---------	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Slight.
123D, 124D-------- Poall	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
125D*:						
Poall----------	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
Xeric Torriorthents---	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
126A, 127A-------- Powval	Moderate: wetness.	Slight---------	Moderate: wetness.	Slight---------	Severe: frost action.	Slight.
128B---------- Pritchard	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Slight.
129B---------- Rastus	Severe: cemented pan, cutbanks cave.	Severe: shrink-swell.	Severe: cemented pan.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Severe: small stones.
130E, 130F-------- Redcliff	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope.
131C*:						
Ridley----------	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Slight.
Keating----------	Severe: depth to rock.	Severe: shrink-swell.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Moderate: depth to rock.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
132A*---------- Riverwash	Severe: cutbanks cave, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: wetness, flooding.	Severe: small stones, wetness, droughty.
133C*:						
Robinette--------	Moderate: depth to rock, too clayey.	Moderate: shrink-swell.	Moderate: depth to rock, shrink-swell.	Moderate: shrink-swell, slope.	Severe: low strength.	Slight.
Gwinly----------	Severe: depth to rock, large stones.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: large stones, depth to rock.
134F*:						
Rock outcrop-----	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
Lostbasin--------	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
Xerorthents------	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, large stones, slope.
135F*:						
Rock outcrop-----	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
Ruckles----------	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, slope.	Severe: large stones, slope, depth to rock.
136F*:						
Rock outcrop-----	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
Ruclick----------	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, slope, large stones.	Severe: large stones, slope.
137F*:						
Rock outcrop-----	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
Snell----------	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
138F*:						
Rock outcrop	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
Snellby	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
139F*:						
Rock outcrop	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, large stones, slope.
Darkcanyon	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
140C*:						
Rockly	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: small stones, depth to rock.
Gwinly	Severe: depth to rock, large stones.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: large stones, depth to rock.
141D*, 141E*:						
Roostercomb	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
Longbranch	Severe: slope.	Severe: slope.	Severe: slope, shrink-swell.	Severe: slope.	Severe: slope.	Severe: slope.
142C*:						
Ruckles	Severe: depth to rock, large stones.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, depth to rock.	Severe: depth to rock, shrink-swell.	Severe: large stones, depth to rock.
Ruclick	Severe: depth to rock, large stones.	Severe: shrink-swell, large stones.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, large stones.	Severe: shrink-swell, large stones.	Severe: large stones.
143D*, 143E*, 143F*:						
Ruckles	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, slope.	Severe: large stones, slope, depth to rock.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
143D*, 143E*, 143F*:						
Ruclick	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, slope, large stones.	Severe: large stones, slope.
144E*, 144F*:						
Ruckles	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, slope.	Severe: large stones, slope, depth to rock.
Ruclick	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, slope, large stones.	Severe: large stones, slope.
Snellby	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
145D, 145E Ruclick	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, slope, large stones.	Severe: large stones, slope.
146D*, 146E*:						
Sag	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: low strength, slope.	Severe: slope.
Snell	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
147D, 147E, 147F Segundo	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
148F Sinker	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
149D*, 149E*:						
Sinker	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
Chambeam	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
150D, 150E, 150F Sisley	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
151D---------- Skullgulch	Moderate: too clayey, slope.	Severe: shrink-swell.	Moderate: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength.	Moderate: slope.
152F---------- Snaker	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
153E*:						
Snaker----------	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
Darkcanyon-------	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
154E*:						
Snaker----------	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
Darkcanyon-------	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
Xeric Torriorthents---	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: small stones, large stones, slope.
155D*, 155E*:						
Snell----------	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
Ateron----------	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, depth to rock.	Severe: depth to rock, shrink-swell, low strength.	Severe: slope, depth to rock.
156D*:						
Snell----------	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
Rock outcrop-----	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.
157F*:						
Snell----------	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
157F*:						
Sag	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: low strength, slope.	Severe: slope.
158D, 158E Snellby	Severe: depth to rock, large stones, slope.	Severe: shrink-swell, slope, large stones.	Severe: depth to rock, slope, shrink-swell.	Severe: shrink-swell, slope, large stones.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
159A*:						
Stanflow	Severe: wetness.	Moderate: wetness.	Severe: wetness.	Moderate: wetness.	Moderate: wetness, frost action.	Severe: excess salt, excess sodium.
Umapine	Severe: wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: frost action.	Severe: excess salt, excess sodium
160E Stavely	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
161E, 161F Stices	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
162A*:						
Sumpley	Severe: cutbanks cave, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding.	Moderate: wetness, flooding.
Stovepipe	Severe: cutbanks cave, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: wetness, flooding, frost action.	Severe: wetness.
163D, 163E Taterpa	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
164D*:						
Tolo	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, frost action.	Severe: slope.
Crackler	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
165D*:						
Tolo	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope, frost action.	Severe: slope.
Dogtown	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
166D, 166E: Top	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
167D*, 167E*:						
Top	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: slope.
McGarr	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: large stones, slope.
168C: Typic Xerorthents	Severe: cutbanks cave, large stones.	Severe: large stones.	Severe: large stones.	Severe: large stones.	Severe: large stones.	Severe: small stones, large stones, droughty.
169C: Ukiah	Moderate: depth to rock, too clayey.	Moderate: shrink-swell.	Moderate: depth to rock, shrink-swell.	Moderate: shrink-swell, slope.	Severe: low strength.	Moderate: depth to rock.
169D: Ukiah	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: low strength, slope.	Severe: slope.
170A: Umapine	Severe: wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: frost action.	Severe: excess salt, excess sodium.
171B: Virtue	Moderate: cemented pan.	Moderate: shrink-swell.	Moderate: cemented pan.	Moderate: shrink-swell, slope.	Severe: low strength.	Moderate: cemented pan.
171C: Virtue	Moderate: cemented pan, slope.	Moderate: shrink-swell, slope.	Moderate: cemented pan, slope.	Severe: slope.	Severe: low strength.	Moderate: slope, cemented pan.
172B: Virtue	Moderate: cemented pan.	Moderate: shrink-swell.	Moderate: cemented pan.	Moderate: shrink-swell, slope.	Severe: low strength.	Severe: small stones.
172C: Virtue	Moderate: cemented pan, slope.	Moderate: shrink-swell, slope.	Moderate: cemented pan, slope.	Severe: slope.	Severe: low strength.	Severe: small stones.
173C: Wahstal	Severe: cemented pan, cutbanks cave, large stones.	Severe: cemented pan, large stones.	Severe: cemented pan, large stones.	Severe: cemented pan, large stones.	Severe: cemented pan, large stones.	Severe: large stones, droughty, cemented pan.
174B: Webfoot	Severe: cutbanks cave, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Moderate: wetness, flooding, frost action.	Moderate: wetness, droughty.

See footnote at end of table.

TABLE 10.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
175A---------- Wingdale	Severe: wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: wetness, flooding, frost action.	Severe: wetness.
176A---------- Wingville	Severe: wetness.	Severe: flooding.	Severe: flooding, wetness.	Severe: flooding.	Severe: frost action.	Moderate: wetness.
177E---------- Xeric Torriorthents	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
178F*:						
Xeric Torriorthents---	Severe: depth to rock, large stones, slope.	Severe: slope, depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope, depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: small stones, large stones, slope.
Rock outcrop-----	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.	Severe: depth to rock, slope.	Severe: slope, depth to rock.

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

TABLE 11.--SANITARY FACILITIES

(Some terms that describe restrictive soil features are defined in the "Glossary." See text for definitions of "slight," "good," and other terms. Absence of an entry indicates that the soil was not rated. The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
1D, 1F Anatone	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope.	Poor: depth to rock, large stones, slope.
2E*, 2F*:					
Anatone	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope.	Poor: depth to rock, large stones, slope.
Segundo	Severe: slope.	Severe: seepage, slope.	Severe: seepage, slope, large stones.	Severe: seepage, slope.	Poor: small stones, slope.
3F Angelpeak	Severe: slope.	Severe: seepage, slope.	Severe: depth to rock, seepage, slope.	Severe: seepage, slope.	Poor: seepage, small stones, slope.
4B Applegate	Severe: percs slowly.	Moderate: slope.	Severe: too clayey.	Slight	Poor: too clayey, hard to pack.
4C Applegate	Severe: percs slowly.	Severe: slope.	Severe: too clayey.	Moderate: slope.	Poor: too clayey, hard to pack.
5C Aridic Haploxerolls	Moderate: depth to rock, large stones, slope.	Severe: slope.	Moderate: slope.	Moderate: depth to rock, slope.	Moderate: depth to rock, large stones, small stones.
6C Ateron	Severe: depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, large stones.
7D, 7E Ateron	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, large stones.
8C*:					
Ateron	Severe: depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, large stones.
Roostercomb	Severe: depth to rock, percs slowly.	Severe: depth to rock, slope.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, small stones.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
9D*, 9E*:					
Ateron	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, large stones.
Roostercomb	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, small stones.
10C*:					
Bakeoven	Severe: depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, large stones.	Severe: depth to rock.	Poor: depth to rock.
Ruckles	Severe: depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.
11A, 11B, 12A, 12B Baker	Severe: cemented pan, percs slowly.	Severe: seepage, cemented pan.	Severe: seepage, too sandy.	Severe: cemented pan, seepage.	Poor: cemented pan, seepage, too sandy.
13A Baldock	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Poor: wetness.
14D, 14E, 14F Baldridge	Severe: slope.	Severe: seepage, slope.	Severe: seepage, slope, large stones.	Severe: slope.	Poor: small stones, slope.
15A Balm	Severe: wetness, poor filter.	Severe: seepage, wetness.	Severe: seepage, wetness, too sandy.	Severe: seepage, wetness.	Poor: seepage, too sandy, small stones.
16B Barnard	Severe: cemented pan.	Severe: seepage, cemented pan.	Severe: cemented pan.	Slight	Poor: cemented pan, small stones.
16C Barnard	Severe: cemented pan.	Severe: seepage, cemented pan, slope.	Severe: cemented pan.	Moderate: slope.	Poor: cemented pan, small stones.
16D Barnard	Severe: cemented pan, slope.	Severe: seepage, cemented pan, slope.	Severe: cemented pan, slope.	Severe: slope.	Poor: cemented pan, small stones, slope.
17C Barnard	Severe: cemented pan, percs slowly.	Severe: seepage, cemented pan, slope.	Severe: cemented pan.	Moderate: slope.	Poor: cemented pan, hard to pack.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
18B---------- Benderly	Severe: poor filter.	Severe: seepage.	Severe: seepage, too sandy.	Severe: seepage.	Poor: seepage, too sandy, small stones.
19E---------- Boiler	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope, too clayey.	Severe: slope.	Poor: too clayey, small stones, slope.
20D---------- Bouldrock	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, seepage, slope.	Poor: depth to rock, slope.
21E*:					
Bouldrock----------	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, seepage, slope.	Poor: depth to rock, slope.
Bouldrock----------	Severe: depth to rock, poor filter, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, seepage, slope.	Poor: depth to rock, slope.
22E*, 22F*:					
Bouldrock----------	Severe: depth to rock, poor filter, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, seepage, slope.	Poor: depth to rock, slope.
Kilmerque----------	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, seepage, slope.	Poor: depth to rock, small stones, slope.
23A---------- Boyce	Severe: wetness, poor filter.	Severe: seepage, wetness.	Severe: seepage, wetness, too sandy.	Severe: seepage, wetness.	Poor: seepage, too sandy, small stones.
24D, 24E, 24F------- Brannan	Severe: slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: small stones, slope.
25C*:					
Brownlee----------	Severe: percs slowly.	Severe: seepage, slope.	Severe: depth to rock, seepage.	Moderate: depth to rock.	Fair: depth to rock, too clayey.
Shangland----------	Severe: depth to rock.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage.	Severe: depth to rock, seepage.	Poor: depth to rock.
26D*:					
Brownlee----------	Severe: percs slowly, slope.	Severe: seepage, slope.	Severe: depth to rock, seepage, slope.	Severe: slope.	Poor: slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
26D*:					
Shangland	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, seepage, slope.	Poor: depth to rock, slope.
27C Brownscombe	Severe: depth to rock, percs slowly.	Severe: seepage, depth to rock, slope.	Severe: depth to rock.	Slight	Poor: depth to rock.
28D, 29D Brownscombe	Severe: depth to rock, percs slowly, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
30E*:					
Brownscombe	Severe: depth to rock, percs slowly, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
31A Burkemont	Severe: wetness, percs slowly.	Slight	Severe: wetness, too clayey, excess sodium.	Severe: wetness.	Poor: too clayey, hard to pack, wetness.
32A Burntriver	Severe: percs slowly.	Slight	Slight	Slight	Fair: small stones.
33C Burntriver	Severe: percs slowly.	Severe: slope.	Slight	Slight	Fair: small stones.
34D*, 34E*:					
Campcreek	Severe: percs slowly, slope.	Severe: slope.	Severe: slope, too clayey.	Severe: slope.	Poor: too clayey, hard to pack, slope.
Skullgulch	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: slope.
35A Catherine	Severe: wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Fair: wetness.
36C*:					
Clovercreek	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, small stones.
Keating	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
37D*:					
Clovercreek	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Keating	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
38E*, 38F*:					
Copperfield	Severe: percs slowly, slope.	Severe: slope, large stones.	Severe: slope, large stones.	Severe: slope.	Poor: large stones, slope.
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
39D*, 39E*:					
Crackler	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: small stones, slope.
Rouen	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
40A Cumulic Haploxerolls	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Poor: thin layer.
41A*:					
Damore	Severe: flooding, wetness, percs slowly.	Severe: flooding.	Severe: flooding, wetness, too clayey.	Severe: flooding, wetness.	Poor: too clayey, hard to pack, wetness.
Silvies	Severe: flooding, ponding, percs slowly.	Severe: flooding, ponding.	Severe: flooding, ponding, too clayey.	Severe: flooding, ponding.	Poor: too clayey, hard to pack, ponding.
42D*:					
Derringer	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Harlow	Severe: depth to rock, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, small stones.
43E*:					
Dogtown	Severe: slope.	Severe: seepage, slope.	Severe: seepage, slope.	Severe: seepage, slope.	Poor: small stones, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
43E*:					
Dogtown	Severe: poor filter, slope, large stones.	Severe: seepage, slope, large stones.	Severe: depth to rock, seepage, slope.	Severe: seepage, slope.	Poor: large stones, slope.
44F Dogtown	Severe: poor filter, slope, large stones.	Severe: seepage, slope, large stones.	Severe: depth to rock, seepage, slope.	Severe: seepage, slope.	Poor: large stones, slope.
45C Durkee	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.
46D, 46E, 47D, 47E Durkee	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
48F Eaglecap	Severe: slope.	Severe: seepage, slope.	Severe: seepage, slope, large stones.	Severe: seepage, slope.	Poor: small stones, slope.
49D, 49E Emily	Severe: slope.	Severe: slope, large stones.	Severe: slope, large stones.	Severe: slope.	Poor: small stones, slope.
50C Encina	Moderate: percs slowly.	Severe: slope.	Slight	Slight	Fair: small stones.
51D, 51E Encina	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: slope.
52E*:					
Fivebit	Severe: depth to rock, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
53B Glasgow	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Poor: depth to rock, hard to pack.
54B Goodrich	Moderate: percs slowly.	Severe: seepage.	Severe: seepage.	Slight	Poor: small stones.
55B*:					
Goodrich	Moderate: percs slowly.	Severe: seepage.	Severe: seepage.	Slight	Poor: small stones.
Benderly	Severe: poor filter.	Severe: seepage.	Severe: seepage, too sandy.	Severe: seepage.	Poor: seepage, too sandy, small stones.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
56C---------- Greenscombe	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock.
57D, 58D---------- Greenscombe	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
59D*, 59E*, 59F*:					
Gwinly----------	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
Immig----------	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
60D*, 60E*, 60F*:					
Gwinly----------	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
Immig----------	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
Snell----------	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
61D*:					
Gwinly----------	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
Rockly----------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
62A---------- Haines	Severe: wetness, percs slowly.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Poor: wetness.
63A---------- Halfway	Severe: wetness, percs slowly.	Slight----------	Severe: wetness, too clayey.	Severe: wetness.	Poor: too clayey, hard to pack.
64C---------- Hall Ranch	Severe: depth to rock, percs slowly.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock.
65D---------- Hankins	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope, too clayey.	Severe: slope.	Poor: too clayey, hard to pack, small stones.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
66D---------- Hankins	Severe: percs slowly, slope.	Severe: slope.	Severe: slope, too clayey.	Severe: slope.	Poor: too clayey, hard to pack, slope.
67C*:					
Hankins----------	Severe: percs slowly.	Severe: slope.	Severe: depth to rock, too clayey.	Moderate: depth to rock.	Poor: too clayey, hard to pack, small stones.
Hankins----------	Severe: percs slowly.	Severe: slope.	Severe: too clayey.	Slight----------	Poor: too clayey, hard to pack.
68C---------- Harlow	Severe: depth to rock.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, small stones.
69E*:					
Harlow----------	Severe: depth to rock, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, small stones.
Derringer----------	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
70A---------- Hershal	Severe: wetness, poor filter.	Severe: seepage, wetness.	Severe: seepage, wetness, too sandy.	Severe: seepage, wetness.	Poor: seepage, too sandy, small stones.
71B---------- Hibbard	Severe: cemented pan, percs slowly.	Severe: cemented pan.	Severe: cemented pan, too clayey.	Severe: cemented pan.	Poor: cemented pan, too clayey, hard to pack.
71C, 72C---------- Hibbard	Severe: cemented pan, percs slowly.	Severe: cemented pan, slope.	Severe: cemented pan, too clayey.	Severe: cemented pan.	Poor: cemented pan, too clayey, hard to pack.
73B*:					
Hibbard----------	Severe: cemented pan, percs slowly.	Severe: cemented pan.	Severe: cemented pan, too clayey.	Severe: cemented pan.	Poor: cemented pan, too clayey, hard to pack.
Rockly----------	Severe: cemented pan.	Severe: cemented pan, large stones.	Severe: cemented pan, large stones.	Severe: cemented pan.	Poor: cemented pan.
74D*, 74E*:					
Highhorn----------	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: small stones, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
74D*, 74E*:					
Huntrock	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
75D Hudspeth	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, small stones.
76D*, 76E*:					
Hudspeth	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, small stones.
Morningstar	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: small stones, slope.
77F*:					
Huntrock	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Highhorn	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: small stones, slope.
78E*:					
Hyall	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: seepage, small stones, slope.
Badland	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
79D*, 80E*:					
Hyall	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: seepage, small stones, slope.
Simas	Severe: percs slowly, slope.	Severe: slope.	Severe: slope, large stones.	Severe: slope.	Poor: hard to pack, small stones, slope.
81C Immig	Severe: depth to rock, percs slowly, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, too clayey, large stones.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.
82C Immig	Severe: depth to rock, percs slowly.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
83D, 83E, 83F: Inkler	Severe: slope.	Severe: slope.	Severe: slope, large stones.	Severe: slope.	Poor: small stones, slope.
84D: Jett	Moderate: flooding, wetness, percs slowly.	Moderate: seepage, wetness.	Severe: wetness.	Moderate: flooding, wetness.	Good.
85D: Keating	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
86D, 86E: Kilmerque	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, seepage, slope.	Poor: depth to rock, small stones, slope.
87D, 87E: Klicker	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
88D*:					
Klicker	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Anatone	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope.	Poor: depth to rock, large stones, slope.
89D*, 89E*:					
Klicker	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Fivebit	Severe: depth to rock, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
90B: Ladd	Severe: percs slowly.	Moderate: seepage, slope.	Moderate: too clayey.	Slight	Fair: too clayey.
90C: Ladd	Severe: percs slowly.	Severe: slope.	Moderate: slope, too clayey.	Moderate: slope.	Fair: too clayey, slope.
91A: La Grande	Severe: wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Fair: too clayey, wetness, thin layer.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
92A Langrell	Moderate: flooding, large stones.	Severe: seepage.	Severe: seepage, large stones.	Severe: seepage.	Poor: seepage, small stones.
93A Langrell	Severe: large stones.	Severe: seepage.	Severe: seepage, large stones.	Severe: seepage.	Poor: seepage, small stones.
94C Legler	Severe: percs slowly.	Moderate: seepage, slope.	Moderate: flooding.	Moderate: flooding.	Good.
95C Legler	Severe: percs slowly.	Severe: slope.	Moderate: flooding, slope.	Moderate: flooding, slope.	Fair: slope.
96E, 96F Lickskillet	Severe: depth to rock, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
97E*:					
Lickskillet	Severe: depth to rock, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
98C Lookout	Severe: cemented pan.	Severe: cemented pan, slope.	Severe: depth to rock, cemented pan.	Slight	Poor: cemented pan, hard to pack.
99C Lookout	Severe: cemented pan.	Severe: cemented pan, slope, large stones.	Severe: depth to rock, cemented pan.	Slight	Poor: cemented pan, hard to pack.
100D Lostbasin	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
101E*:					
Lostbasin	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Xerorthents	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
102C---------- Lovline	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Slight----------	Poor: depth to rock.
103D, 103E, 103F---- Lovline	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
104D---------- Marack	Severe: percs slowly, slope.	Severe: seepage, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: hard to pack, slope.
105C---------- Marack	Severe: percs slowly.	Severe: seepage, slope.	Severe: depth to rock.	Slight----------	Poor: hard to pack.
106D---------- Marack	Severe: percs slowly, slope.	Severe: seepage, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: hard to pack, slope.
107C*:					
Marack----------	Severe: percs slowly.	Severe: seepage, slope.	Severe: depth to rock.	Slight----------	Poor: hard to pack.
Marack----------	Severe: percs slowly.	Severe: seepage, slope.	Severe: depth to rock.	Slight----------	Poor: hard to pack.
108D*:					
Marack----------	Severe: percs slowly.	Severe: seepage, slope.	Severe: depth to rock.	Moderate: slope.	Poor: hard to pack.
Badland----------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
109C---------- McEwen	Severe: percs slowly.	Severe: seepage, slope.	Severe: seepage.	Slight----------	Fair: too clayey.
110D---------- McEwen	Severe: percs slowly, slope.	Severe: seepage, slope.	Severe: seepage, slope.	Severe: slope.	Poor: slope.
111D*, 111E*:					
McGarr----------	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
Kahler----------	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: small stones, slope.
112D---------- Morningstar	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: small stones, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
113D, 113E---------- Nagle	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: slope.
114C---------- North Powder	Severe: depth to rock, percs slowly.	Severe: depth to rock, slope.	Severe: depth to rock.	Slight----------	Poor: depth to rock.
115D, 116D---------- North Powder	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
117D*:					
North Powder-------	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Rock outcrop-------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
118C---------- Oxman	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Slight----------	Poor: depth to rock.
119D---------- Oxman	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
120D*:					
Oxman----------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
121E, 121F---------- Piersonte	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: seepage, small stones, slope.
122C---------- Poall	Severe: percs slowly.	Severe: slope.	Slight----------	Slight----------	Good.
123D, 124D---------- Poall	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: slope.
125D*:					
Poall----------	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: slope.
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
126A, 127A Powval	Moderate: wetness, percs slowly.	Moderate: seepage, wetness.	Severe: wetness.	Moderate: wetness.	Good.
128B Pritchard	Severe: percs slowly.	Moderate: slope.	Severe: too clayey.	Slight	Poor: too clayey, hard to pack.
129B Rastus	Severe: cemented pan, poor filter.	Severe: seepage, cemented pan.	Severe: cemented pan, seepage.	Severe: cemented pan, seepage.	Poor: cemented pan, seepage, small stones.
130E, 130F Redcliff	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
131C*:					
Ridley	Severe: percs slowly.	Severe: slope.	Severe: too clayey.	Slight	Poor: too clayey, hard to pack.
Keating	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.
132A* Riverwash	Severe: flooding, wetness, poor filter.	Severe: seepage, flooding, wetness.	Severe: flooding, seepage, wetness.	Severe: flooding, seepage, wetness.	Poor: too sandy, small stones, wetness.
133C*:					
Robinette	Severe: percs slowly.	Severe: slope.	Severe: depth to rock.	Moderate: depth to rock.	Fair: depth to rock, too clayey.
Gwinly	Severe: depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.
134F*:					
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
Lostbasin	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Xerorthents	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
135F*:					
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
Ruckles	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
136F*:					
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
Ruclick	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: depth to rock, large stones, slope.
137F*:					
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
Snell	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
138F*:					
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
Snellby	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: depth to rock, large stones, slope.
139F*:					
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
Darkcanyon	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
140C*:					
Rockly	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock, large stones.	Severe: depth to rock.	Poor: depth to rock.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
140C*:					
Gwinly	Severe: depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.
141D*, 141E*:					
Roostercomb	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, small stones.
Longbranch	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope, too clayey.	Severe: slope.	Poor: too clayey, large stones, slope.
142C*:					
Ruckles	Severe: depth to rock, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.
Ruclick	Severe: depth to rock, percs slowly.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, large stones.	Slight	Poor: depth to rock, large stones.
143D*, 143E*, 143F*:					
Ruckles	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
Ruclick	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: depth to rock, large stones, slope.
144E*, 144F*:					
Ruckles	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
Ruclick	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: depth to rock, large stones, slope.
Snellby	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: depth to rock, large stones, slope.
145D, 145E Ruclick	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: depth to rock, large stones, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
146D*, 146E*:					
Sag	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: slope.
Snell	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
147D, 147E, 147F Segundo	Severe: slope.	Severe: seepage, slope.	Severe: seepage, slope, large stones.	Severe: seepage, slope.	Poor: small stones, slope.
148F Sinker	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
149D*, 149E*:					
Sinker	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
Chambeam	Severe: slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: small stones, slope.
150D, 150E, 150F Sisley	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, small stones, slope.
151D Skullgulch	Severe: percs slowly.	Severe: slope.	Moderate: slope, too clayey.	Moderate: slope.	Fair: too clayey, slope.
152F Snaker	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
153E*:					
Snaker	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
Darkcanyon	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
154E*:					
Snaker	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
154E*:					
Darkcanyon	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
155D*, 155E*:					
Snell	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
Ateron	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, large stones.
156D*:					
Snell	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
Rock outcrop	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
157F*:					
Snell	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, too clayey.	Severe: depth to rock, slope.	Poor: depth to rock, too clayey, hard to pack.
Sag	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: slope.
158D, 158E Snellby	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: depth to rock, large stones, slope.
159A*:					
Stanflow	Severe: wetness, percs slowly.	Severe: wetness.	Severe: wetness, excess sodium, excess salt.	Severe: wetness.	Poor: excess sodium.
Umapine	Severe: wetness.	Severe: wetness.	Severe: wetness, excess sodium, excess salt.	Severe: wetness.	Poor: wetness, excess sodium.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
160E: Stavely	Severe: slope.	Severe: seepage, slope.	Severe: seepage, slope, too sandy.	Severe: seepage, slope.	Poor: seepage, too sandy, small stones.
161E, 161F: Stices	Severe: slope.	Severe: seepage, slope.	Severe: seepage, slope.	Severe: seepage, slope.	Poor: seepage, small stones, slope.
162A*:					
Sumpley	Severe: flooding, wetness, poor filter.	Severe: seepage, flooding, wetness.	Severe: flooding, seepage, wetness.	Severe: flooding, seepage, wetness.	Poor: seepage, too sandy, small stones.
Stovepipe	Severe: flooding, wetness, poor filter.	Severe: seepage, flooding, wetness.	Severe: flooding, seepage, wetness.	Severe: flooding, seepage, wetness.	Poor: seepage, too sandy, small stones.
163D, 163E: Taterpa	Severe: slope.	Severe: seepage, slope.	Severe: depth to rock, seepage, slope.	Severe: seepage, slope.	Poor: slope.
164D*:					
Tolo	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: small stones, slope.
Crackler	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: small stones, slope.
165D*:					
Tolo	Severe: percs slowly, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: small stones, slope.
Dogtown	Severe: slope.	Severe: seepage, slope.	Severe: seepage, slope.	Severe: seepage, slope.	Poor: small stones, slope.
166D, 166E: Top	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope, too clayey.	Severe: slope.	Poor: too clayey, slope.
167D*, 167E*:					
Top	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope, too clayey.	Severe: slope.	Poor: too clayey, slope.
McGarr	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
168C Typic Xerorthents	Severe: wetness, poor filter, large stones.	Severe: seepage, slope, wetness.	Severe: seepage, wetness, large stones.	Severe: seepage, wetness.	Poor: seepage, large stones.
169C Ukiah	Severe: depth to rock, percs slowly.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock.
169D Ukiah	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
170A Umapine	Severe: wetness.	Severe: wetness.	Severe: wetness, excess sodium, excess salt.	Severe: wetness.	Poor: wetness, excess sodium.
171B Virtue	Severe: cemented pan, percs slowly.	Severe: seepage, cemented pan.	Moderate: cemented pan.	Slight	Poor: cemented pan, small stones.
171C Virtue	Severe: cemented pan, percs slowly.	Severe: seepage, cemented pan, slope.	Moderate: cemented pan, slope.	Moderate: slope.	Poor: cemented pan, small stones.
172B Virtue	Severe: cemented pan, percs slowly.	Severe: seepage, cemented pan.	Moderate: cemented pan.	Slight	Poor: cemented pan, small stones.
172C Virtue	Severe: cemented pan, percs slowly.	Severe: seepage, cemented pan, slope.	Moderate: cemented pan, slope.	Moderate: slope.	Poor: cemented pan, small stones.
173C Wahstal	Severe: cemented pan, poor filter, large stones.	Severe: seepage, cemented pan, slope.	Severe: cemented pan, seepage, large stones.	Severe: cemented pan, seepage.	Poor: cemented pan, small stones.
174B Webfoot	Severe: wetness, poor filter.	Severe: seepage, wetness.	Severe: seepage, wetness, too sandy.	Severe: seepage, wetness.	Poor: seepage, too sandy, small stones.
175A Wingdale	Severe: flooding, wetness, percs slowly.	Severe: flooding, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness.	Poor: wetness.
176A Wingville	Severe: wetness, percs slowly.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Fair: too clayey, wetness.
177E Xeric Torriorthents	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.

See footnote at end of table.

TABLE 11.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
178F*:					
Xeric Torriorthents	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: depth to rock, large stones, slope.
Rock outcrop-------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.

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

TABLE 12.--CONSTRUCTION MATERIALS

(Some terms that describe restrictive soil features are defined in the "Glossary." See text for definitions of "good," "fair," and other terms. Absence of an entry indicates that the soil was not rated. The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
1D---------- Anatone	Poor: depth to rock, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, large stones, slope.
1F---------- Anatone	Poor: depth to rock, large stones, slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, large stones, slope.
2E*, 2F*:				
Anatone----------	Poor: depth to rock, large stones, slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, large stones, slope.
Segundo----------	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
3F---------- Angelpeak	Poor: slope.	Improbable: small stones.	Improbable: thin layer.	Poor: small stones, area reclaim, slope.
4B, 4C---------- Applegate	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones, thin layer.
5C---------- Aridic Haploxerolls	Fair: depth to rock, large stones.	Improbable: excess fines.	Improbable: excess fines.	Poor: large stones.
6C---------- Ateron	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, small stones.
7D, 7E---------- Ateron	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, small stones, slope.
8C*:				
Ateron----------	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, small stones.
Roostercomb----------	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
9D*:				
Ateron	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, small stones, slope.
Roostercomb	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
9E*:				
Ateron	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, small stones, slope.
Roostercomb	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
10C*:				
Bakeoven	Poor: depth to rock, large stones.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, large stones.
Ruckles	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, small stones.
11A, 11B, 12A, 12B Baker	Good	Probable	Probable	Poor: area reclaim.
13A Baldock	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: wetness.
14D Baldridge	Fair: large stones, slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: small stones, area reclaim, slope.
14E, 14F Baldridge	Poor: slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: small stones, area reclaim, slope.
15A Balm	Fair: wetness.	Probable	Probable	Poor: small stones, area reclaim.
16B, 16C Barnard	Poor: cemented pan.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim.
16D Barnard	Poor: cemented pan.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
17C Barnard	Poor: cemented pan.	Improbable: small stones.	Probable	Poor: too clayey, large stones, area reclaim.
18B Benderly	Good	Probable	Probable	Poor: too sandy, small stones, area reclaim.
19E Boiler	Poor: shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
20D Bouldrock	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
21E*:				
Bouldrock	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
Bouldrock	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: large stones, slope.
22E*, 22F*:				
Bouldrock	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: large stones, slope.
Kilmerque	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
23A Boyce	Poor: wetness.	Probable	Probable	Poor: area reclaim, wetness.
24D Brannan	Fair: depth to rock, thin layer, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
24E, 24F Brannan	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
25C*:				
Brownlee	Fair: depth to rock, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
Shangland	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
26D*:				
Brownlee	Fair: depth to rock, shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Shangland	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
27C Brownscombe	Poor: depth to rock, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: thin layer.
28D, 29D Brownscombe	Poor: depth to rock, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: thin layer, slope.
30E*:				
Brownscombe	Poor: depth to rock, shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: thin layer, slope.
Rock outcrop	Poor: depth to rock, slope.	--- ---	Improbable: excess fines.	Poor: depth to rock, slope.
31A Burkemont	Poor: low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: excess sodium.
32A, 33C Burntriver	Fair: shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
34D*:				
Campcreek	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
Skullgulch	Fair: shrink-swell, low strength, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
34E*:				
Campcreek	Poor: shrink-swell, low strength, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
Skullgulch	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
35A Catherine	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Fair: area reclaim.
36C*:				
Clovercreek	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
36C*:				
Keating	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
37D*:				
Clovercreek	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Keating	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, slope.
38E*, 38F*:				
Copperfield	Poor: slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: area reclaim, small stones, slope.
Rock outcrop	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
39D*:				
Crackler	Fair: depth to rock, shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Rouen	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
39E*:				
Crackler	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Rouen	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
40A Cumulic Haploxerolls	Poor: thin layer.	Improbable: excess fines.	Improbable: excess fines.	Poor: thin layer.
41A*:				
Damore	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
Silvies	Poor: shrink-swell, low strength, wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: wetness.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
42D*:				
Derringer	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Harlow	Poor: depth to rock, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, too clayey, small stones.
43E*:				
Dogtown	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Dogtown	Poor: large stones, slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: large stones, area reclaim, slope.
44F Dogtown	Poor: large stones, slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: large stones, area reclaim, slope.
45C Durkee	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
46D, 46E, 47D, 47E Durkee	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
48F Eaglecap	Poor: slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: small stones, area reclaim, slope.
49D Emily	Fair: large stones, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
49E Emily	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
50C Encina	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim.
51D Encina	Fair: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
51E Encina	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
52E*:				
Fivebit	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Rock outcrop	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
53B Glasgow	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: thin layer.
54B Goodrich	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim.
55B*:				
Goodrich	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim.
Benderly	Good	Probable	Probable	Poor: too sandy, small stones, area reclaim.
56C Greenscombe	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
57D, 58D Greenscombe	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
59D*, 59E*, 59F*:				
Gwinly	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, large stones.
Immig	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
60D*, 60E*, 60F*:				
Gwinly	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, large stones.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
60D*, 60E*, 60F*:				
Immig	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
Snell	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
61D*:				
Gwinly	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, large stones.
Rockly	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
62A Haines	Fair: shrink-swell, wetness.	Improbable: excess fines.	Improbable: excess fines.	Good.
63A Halfway	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
64C Hall Ranch	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
65D Hankins	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
66D Hankins	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
67C*:				
Hankins	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
Hankins	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones.
68C Harlow	Poor: depth to rock, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, too clayey, small stones.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
69E*:				
Harlow	Poor: depth to rock, shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, too clayey, small stones.
Derringer	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
70A Hershal	Poor: wetness.	Probable	Probable	Poor: small stones, area reclaim, wetness.
71B, 71C Hibbard	Poor: cemented pan, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
72C Hibbard	Poor: cemented pan, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones.
73B*:				
Hibbard	Poor: cemented pan, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones.
Rockly	Poor: cemented pan.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
74D*:				
Highhorn	Fair: depth to rock, shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Huntrock	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
74E*:				
Highhorn	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Huntrock	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
75D Hudspeth	Poor: depth to rock, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
76D*:				
Hudspeth	Poor: depth to rock, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
Morningstar	Fair: large stones, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
76E*:				
Hudspeth	Poor: depth to rock, shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
Morningstar	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
77F*:				
Huntrock	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Highhorn	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
78E*:				
Hyall	Poor: slope.	Improbable: small stones.	Probable	Poor: too clayey, small stones, area reclaim.
Badland	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
79D*:				
Hyall	Fair: large stones, slope.	Improbable: small stones.	Probable	Poor: too clayey, small stones, area reclaim.
Simas	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
80E*:				
Hyall	Poor: slope.	Improbable: small stones.	Probable	Poor: too clayey, small stones, area reclaim.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
80E*:				
Simas	Poor: shrink-swell, low strength, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
81C, 82C Immig	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones.
83D Inkler	Fair: large stones, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
83E, 83F Inkler	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
84D Jett	Fair: low strength.	Improbable: excess fines.	Improbable: excess fines.	Good.
85D Keating	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, slope.
86D Kilmerque	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
86E Kilmerque	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
87D Klicker	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
87E Klicker	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
88D*:				
Klicker	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Anatone	Poor: depth to rock, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, large stones, slope.
89D*:				
Klicker	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
89D*:				
Fivebit	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
89E*:				
Klicker	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Fivebit	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
90B Ladd	Fair: shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones.
90C Ladd	Fair: shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones, slope.
91A La Grande	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Fair: area reclaim.
92A Langrell	Fair: large stones.	Probable	Probable	Poor: small stones, area reclaim.
93A Langrell	Poor: large stones.	Improbable: large stones.	Improbable: large stones.	Poor: small stones, area reclaim.
94C Legler	Fair: shrink-swell, low strength, thin layer.	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones.
95C Legler	Fair: shrink-swell, low strength, thin layer.	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones, slope.
96E, 96F Lickskillet	Poor: depth to rock, slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, small stones, slope.
97E*:				
Lickskillet	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Rock outcrop	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
98C---------- Lookout	Poor: cemented pan, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
99C---------- Lookout	Poor: cemented pan, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, large stones.
100D---------- Lostbasin	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
101E*:				
Lostbasin----------	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Xerorthents----------	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Rock outcrop---------	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
102C---------- Lovline	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
103D---------- Lovline	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
103E, 103F---------- Lovline	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
104D, 105C, 106D------ Marack	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
107C*:				
Marack----------	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
Marack----------	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
108D*:				
Marack----------	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
108D*:				
Badland	Poor: depth to rock.	---	---	Poor: depth to rock, slope.
109C McEwen	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim.
110D McEwen	Fair: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope.
111D*:				
McGarr	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: large stones, slope.
Kahler	Fair: shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
111E*:				
McGarr	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: large stones, slope.
Kahler	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
112D Morningstar	Fair: large stones, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
113D Nagle	Fair: slope, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
113E Nagle	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
114C North Powder	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Fair: depth to rock, small stones.
115D, 116D North Powder	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
117D*:				
North Powder	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
Rock outcrop	Poor: depth to rock.	---	---	Poor: depth to rock, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
118C: Oxman	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Fair: depth to rock, small stones.
119D: Oxman	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
120D*:				
Oxman	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
Xeric Torriorthents	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
121E, 121F: Piersonte	Poor: slope.	Probable	Probable	Poor: small stones, area reclaim, slope.
122C: Poall	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
123D, 124D: Poall	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, slope.
125D*:				
Poall	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, slope.
Xeric Torriorthents	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
126A, 127A: Powval	Good	Improbable: excess fines.	Improbable: excess fines.	Good.
128B: Pritchard	Poor: low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
129B: Rastus	Poor: cemented pan.	Probable	Probable	Poor: too clayey, small stones, area reclaim.
130E, 130F: Redcliff	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
131C*:				
Ridley	Poor: low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
Keating	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
132A* Riverwash	Poor: wetness.	Probable	Probable	Poor: too sandy, small stones, area reclaim.
133C*:				
Robinette	Poor: low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim.
Gwinly	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, large stones.
134F*:				
Rock outcrop	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
Lostbasin	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Xerorthents	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
135F*:				
Rock outcrop	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
Ruckles	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, small stones.
136F*:				
Rock outcrop	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
Ruclick	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
137F*:				
Rock outcrop	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
Snell	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
138F*:				
Rock outcrop	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
Snellby	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
139F*:				
Rock outcrop	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.
Xeric Torriorthents	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Darkcanyon	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
140C*:				
Rockly	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
Gwinly	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, large stones.
141D*:				
Roostercomb	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
Longbranch	Poor: shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones, slope.
141E*:				
Roostercomb	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
Longbranch	Poor: shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones, slope.
142C*:				
Ruckles	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, small stones.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
142C*:				
Ruclick	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones.
143D*, 143E*, 143F*:				
Ruckles	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, small stones.
Ruclick	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
144E*, 144F*:				
Ruckles	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, too clayey, small stones.
Ruclick	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
Snellby	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
145D, 145E Ruclick	Poor: depth to rock, shrink-swell, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
146D*:				
Sag	Poor: low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope.
Snell	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
146E*:				
Sag	Poor: low strength, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope.
Snell	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
147D---------- Segundo	Fair: large stones, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
147E, 147F---------- Segundo	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
148F---------- Sinker	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
149D*:				
Sinker----------	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Chambeam----------	Fair: depth to rock, thin layer, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
149E*:				
Sinker----------	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Chambeam----------	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
150D---------- Sisley	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
150E, 150F---------- Sisley	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
151D---------- Skullgulch	Fair: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones, slope.
152F---------- Snaker	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
153E*:				
Snaker----------	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Darkcanyon----------	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
154E*:				
Snaker	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Darkcanyon	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Xeric Torriorthents	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
155D*, 155E*:				
Snell	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
Ateron	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, small stones, slope.
156D*:				
Snell	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
Rock outcrop	Poor: depth to rock.	---	---	Poor: depth to rock, slope.
157F*:				
Snell	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
Sag	Poor: low strength, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope.
158D, 158E Snellby	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: too clayey, large stones, slope.
159A*:				
Stanflow	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: excess sodium.
Umapine	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: excess salt, excess sodium.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
160E Stavely	Poor: slope.	Probable	Probable	Poor: small stones, area reclaim, slope.
161E, 161F Stices	Poor: slope.	Improbable: small stones.	Probable	Poor: small stones, area reclaim, slope.
162A*:				
Sumpley	Fair: wetness.	Probable	Probable	Poor: small stones, area reclaim.
Stovepipe	Poor: wetness.	Probable	Probable	Poor: too sandy, small stones, area reclaim.
163D Taterpa	Fair: depth to rock, thin layer, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
163E Taterpa	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
164D*:				
Tolo	Fair: slope, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope.
Crackler	Fair: depth to rock, shrink-swell, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
165D*:				
Tolo	Fair: slope, shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, slope.
Dogtown	Fair: large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: large stones, area reclaim, slope.
166D Top	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, slope.
166E Top	Poor: shrink-swell, low strength, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
167D*:				
Top	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, slope.
McGarr	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: large stones, slope.
167E*:				
Top	Poor: shrink-swell, low strength, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, slope.
McGarr	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: large stones, slope.
168C Typic Xerorthents	Poor: large stones.	Improbable: large stones.	Improbable: large stones.	Poor: large stones, area reclaim.
169C Ukiah	Poor: depth to rock, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
169D Ukiah	Poor: depth to rock, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, slope.
170A Umapine	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: excess salt, excess sodium.
171B, 171C, 172B, 172C Virtue	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim.
173C Wahstal	Poor: cemented pan, large stones.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: cemented pan, large stones, area reclaim.
174B Webfoot	Fair: wetness.	Probable	Probable	Poor: small stones, area reclaim.
175A Wingdale	Poor: wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: wetness.
176A Wingville	Fair: wetness.	Improbable: excess fines.	Improbable: excess fines.	Good.
177E Xeric Torriorthents	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.

See footnote at end of table.

TABLE 12.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
178F*:				
Xeric Torriorthents--	Poor: depth to rock, large stones, slope.	Improbable: excess fines, large stones.	Improbable: excess fines, large stones.	Poor: depth to rock, large stones, slope.
Rock outcrop---------	Poor: depth to rock, slope.	---	---	Poor: depth to rock, slope.

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

TABLE 13.--WATER MANAGEMENT

(Some terms that describe restrictive soil features are defined in the "Glossary." See text for definitions of "slight," "moderate," and "severe." Absence of an entry indicates that the soil was not evaluated. The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
1D, 1F Anatone	Severe: depth to rock, slope.	Severe: piping, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
2E*, 2F*:						
Anatone	Severe: depth to rock, slope.	Severe: piping, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Segundo	Severe: seepage, slope.	Severe: seepage.	Deep to water	Slope, large stones, droughty.	Slope, large stones, too sandy.	Large stones, slope, droughty.
3F Angelpeak	Severe: seepage, slope.	Severe: seepage.	Deep to water	Slope	Slope, erodes easily.	Slope, erodes easily.
4B Applegate	Moderate: slope.	Severe: hard to pack.	Deep to water	Slope, percs slowly.	Erodes easily, percs slowly.	Erodes easily, percs slowly.
4C Applegate	Severe: slope.	Severe: hard to pack.	Deep to water	Slope, percs slowly.	Slope, erodes easily, percs slowly.	Slope, erodes easily, percs slowly.
5C Aridic Haploxerolls	Severe: slope.	Severe: Large stones.	Deep to water	Slope, Large stones.	Slope, Large stones.	Large stones.
6C Ateron	Severe: depth to rock.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
7D, 7E Ateron	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
8C*:						
Ateron	Severe: depth to rock.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
Roostercomb	Moderate: depth to rock, slope.	Moderate: thin layer, large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
9D*, 9E*:						
Ateron	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Roostercomb	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
10C*:						
Bakeoven	Severe: depth to rock.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
Ruckles	Severe: depth to rock.	Severe: hard to pack, large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
11A Baker	Severe: seepage.	Severe: seepage.	Deep to water	Percs slowly, cemented pan.	Cemented pan, erodes easily, too sandy.	Erodes easily, cemented pan, percs slowly.
11B Baker	Severe: seepage.	Severe: seepage.	Deep to water	Slope, percs slowly, cemented pan.	Cemented pan, erodes easily, too sandy.	Erodes easily, cemented pan, percs slowly.
12A Baker	Severe: seepage.	Severe: seepage.	Deep to water	Percs slowly, cemented pan.	Cemented pan, erodes easily, too sandy.	Erodes easily, cemented pan, percs slowly.
12B Baker	Severe: seepage.	Severe: seepage.	Deep to water	Slope, percs slowly, cemented pan.	Cemented pan, erodes easily, too sandy.	Erodes easily, cemented pan, percs slowly.
13A Baldock	Moderate: seepage.	Severe: piping, wetness.	Flooding, frost action.	Wetness, flooding.	Wetness	Wetness.
14D, 14E, 14F Baldridge	Severe: seepage, slope.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Large stones, slope, droughty.
15A Balm	Severe: seepage.	Severe: seepage, wetness.	Cutbanks cave	Wetness	Erodes easily, wetness, too sandy.	Wetness, erodes easily.
16B Barnard	Severe: seepage.	Severe: piping.	Deep to water	Slope, percs slowly, cemented pan.	Cemented pan, erodes easily.	Too arid, erodes easily.
16C, 16D Barnard	Severe: seepage, slope.	Severe: piping.	Deep to water	Slope, percs slowly, cemented pan.	Slope, cemented pan, erodes easily.	Too arid, slope, erodes easily.
17C Barnard	Severe: seepage, slope.	Moderate: thin layer, hard to pack, large stones.	Deep to water	Slope, percs slowly, cemented pan.	Slope, large stones, cemented pan.	Too arid, large stones, slope.
18B Benderly	Severe: seepage.	Severe: seepage.	Deep to water	Slope, droughty, soil blowing.	Large stones, too sandy, soil blowing.	Large stones, droughty.
19E Boiler	Severe: slope.	Moderate: thin layer.	Deep to water	Slope, droughty, percs slowly.	Slope, percs slowly.	Slope, droughty, percs slowly.
20D Bouldrock	Severe: seepage, slope.	Severe: piping.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock, erodes easily.	Slope, erodes easily, droughty.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
21E*:						
Bouldrock	Severe: seepage, slope.	Severe: piping.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock, erodes easily.	Slope, erodes easily, droughty.
Bouldrock	Severe: seepage, slope.	Severe: piping.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, erodes easily.
22E*, 22F*:						
Bouldrock	Severe: seepage, slope.	Severe: piping.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, erodes easily.
Kilmerque	Severe: seepage, slope.	Severe: thin layer.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
23A Boyce	Severe: seepage.	Severe: seepage, piping, wetness.	Frost action, cutbanks cave.	Wetness, erodes easily.	Erodes easily, wetness, too sandy.	Wetness, erodes easily.
24D, 24E, 24F Brannan	Severe: slope.	Severe: seepage.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Large stones, slope, droughty.
25C*:						
Brownlee	Severe: seepage.	Severe: thin layer.	Deep to water	Slope	Favorable	Favorable.
25C*:						
Shangland	Severe: seepage.	Severe: seepage, piping.	Deep to water	Slope, depth to rock, erodes easily.	Depth to rock, erodes easily.	Erodes easily, depth to rock.
26D*:						
Brownlee	Severe: seepage, slope.	Severe: thin layer.	Deep to water	Slope	Slope	Slope.
Shangland	Severe: seepage, slope.	Severe: seepage, piping.	Deep to water	Slope, depth to rock, erodes easily.	Slope, depth to rock, erodes easily.	Slope, erodes easily, depth to rock.
27C Brownscombe	Moderate: depth to rock, slope.	Severe: thin layer.	Deep to water	Slope, depth to rock.	Depth to rock	Too arid, depth to rock.
28D, 29D Brownscombe	Severe: slope.	Severe: thin layer.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
30E*:						
Brownscombe	Severe: slope.	Severe: thin layer.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
31A Burkemont	Slight	Severe: wetness, excess sodium.	Percs slowly, frost action, excess sodium.	Wetness, percs slowly, erodes easily.	Erodes easily, wetness, percs slowly.	Wetness, excess salt, excess sodium.
32A Burntriver	Slight	Slight	Deep to water	Erodes easily	Erodes easily	Too arid, erodes easily.
33C Burntriver	Moderate: slope.	Slight	Deep to water	Slope	Erodes easily	Too arid, erodes easily.
34D*, 34E*:						
Campcreek	Severe: slope.	Moderate: hard to pack.	Deep to water	Slope, percs slowly.	Slope, erodes easily, percs slowly.	Slope, erodes easily, percs slowly.
Skullgulch	Severe: slope.	Moderate: piping.	Deep to water	Slope, percs slowly.	Slope	Slope, percs slowly.
35A Catherine	Moderate: seepage.	Severe: piping, wetness.	Frost action	Wetness	Erodes easily, wetness.	Erodes easily.
36C*:						
Clovercreek	Severe: depth to rock.	Severe: thin layer.	Deep to water	Slope, droughty, depth to rock.	Depth to rock	Droughty, depth to rock.
Keating	Moderate: depth to rock, slope.	Severe: thin layer.	Deep to water	Slope, percs slowly, depth to rock.	Depth to rock, percs slowly.	Depth to rock, percs slowly.
37D*:						
Clovercreek	Severe: depth to rock, slope.	Severe: thin layer.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
Keating	Severe: slope.	Severe: thin layer.	Deep to water	Slope, percs slowly, depth to rock.	Slope, depth to rock, percs slowly.	Slope, depth to rock, percs slowly.
38E*, 38F*:						
Copperfield	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Large stones, slope, droughty.
38E*, 38F*:						
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
39D*, 39E*:						
Crackler	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, large stones.	Slope, large stones.	Large stones, slope.
Rouen	Severe: slope.	Severe: thin layer.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
40A Cumulic Haploxerolls	Slight	Severe: piping.	Flooding	Wetness, flooding.	Wetness	Favorable.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
41A*:						
Damore	Slight	Severe: wetness.	Percs slowly, flooding.	Wetness, percs slowly, flooding.	Wetness, percs slowly.	Wetness, percs slowly.
Silvies	Slight	Severe: ponding.	Ponding, percs slowly, flooding.	Ponding	Ponding, percs slowly.	Wetness, percs slowly.
42D*:						
Derringer	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Harlow	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
43E*:						
Dogtown	Severe: seepage, slope.	Severe: seepage.	Deep to water	Slope, droughty.	Slope	Slope, droughty.
Dogtown	Severe: seepage, slope.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, too sandy.	Large stones, slope, droughty.
44F Dogtown	Severe: seepage, slope.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, too sandy.	Large stones, slope, droughty.
45C Durkee	Moderate: depth to rock, slope.	Severe: thin layer.	Deep to water	Slope, percs slowly, depth to rock.	Depth to rock, percs slowly.	Depth to rock, percs slowly.
46D, 46E, 47D, 47E Durkee	Severe: slope.	Severe: thin layer.	Deep to water	Slope, percs slowly, depth to rock.	Slope, depth to rock, percs slowly.	Slope, depth to rock, percs slowly.
48F Eaglecap	Severe: seepage, slope.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, too sandy.	Large stones, slope, droughty.
49D, 49E Emily	Severe: slope.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Large stones, slope, droughty.
50C Encina	Moderate: seepage, slope.	Severe: piping.	Deep to water	Slope, percs slowly.	Erodes easily	Too arid, erodes easily.
51D, 51E Encina	Severe: slope.	Severe: piping.	Deep to water	Slope, percs slowly.	Slope, erodes easily.	Too arid, slope, erodes easily.
52E*:						
Fivebit	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
52E*:						
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
53B Glasgow	Moderate: depth to rock, slope.	Severe: thin layer.	Deep to water	Slope, percs slowly, depth to rock.	Depth to rock, erodes easily.	Too arid, erodes easily.
54B Goodrich	Severe: seepage.	Moderate: thin layer, seepage, piping.	Deep to water	Droughty	Favorable	Droughty.
55B*:						
Goodrich	Severe: seepage.	Moderate: thin layer, seepage, piping.	Deep to water	Slope, droughty.	Favorable	Droughty.
Benderly	Severe: seepage.	Severe: seepage.	Deep to water	Slope, droughty, soil blowing.	Large stones, too sandy, soil blowing.	Large stones, droughty.
56C Greenscombe	Moderate: seepage, depth to rock, slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Depth to rock	Depth to rock.
57D, 58D Greenscombe	Severe: slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
59D*, 59E*, 59F*:						
Gwinly	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Immig	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
60D*, 60E*, 60F*:						
Gwinly	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Immig	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Snell	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
61D*:						
Gwinly	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Rockly	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, droughty.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
62A Haines	Moderate: seepage.	Severe: piping, wetness.	Frost action	Wetness, erodes easily, excess salt.	Erodes easily, wetness.	Wetness, excess salt, erodes easily.
63A Halfway	Slight	Severe: hard to pack.	Deep to water	Slow intake, percs slowly.	Percs slowly	Percs slowly.
64C Hall Ranch	Moderate: seepage, depth to rock, slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Depth to rock	Depth to rock.
65D Hankins	Severe: slope.	Moderate: thin layer, hard to pack, large stones.	Deep to water	Slope, percs slowly.	Slope, large stones, erodes easily.	Large stones, slope, erodes easily.
66D Hankins	Severe: slope.	Moderate: hard to pack, large stones.	Deep to water	Slope, percs slowly.	Slope, large stones, percs slowly.	Large stones, slope, percs slowly.
67C*:						
Hankins	Moderate: depth to rock, slope.	Moderate: thin layer, hard to pack, large stones.	Deep to water	Slope, percs slowly.	Large stones, erodes easily.	Large stones, erodes easily.
Hankins	Moderate: slope.	Moderate: hard to pack, large stones.	Deep to water	Slope, percs slowly.	Large stones, percs slowly.	Large stones, percs slowly.
68C Harlow	Severe: depth to rock.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
69E*:						
Harlow	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Derringer	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
70A Hershal	Severe: seepage.	Severe: seepage, wetness.	Frost action, cutbanks cave.	Wetness	Erodes easily, wetness, too sandy.	Wetness, erodes easily.
71B Hibbard	Moderate: cemented pan, slope.	Severe: hard to pack.	Deep to water	Slope, percs slowly, cemented pan.	Cemented pan, erodes easily.	Erodes easily, cemented pan.
71C Hibbard	Severe: slope.	Severe: hard to pack.	Deep to water	Slope, percs slowly, cemented pan.	Slope, cemented pan, erodes easily.	Slope, erodes easily, cemented pan.
72C Hibbard	Moderate: cemented pan, slope.	Severe: hard to pack.	Deep to water	Slope, percs slowly, cemented pan.	Cemented pan, erodes easily.	Erodes easily, cemented pan.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
73B*:						
Hibbard	Moderate: cemented pan, slope.	Severe: hard to pack.	Deep to water	Slope, percs slowly, cemented pan.	Cemented pan, erodes easily.	Erodes easily, cemented pan.
Rockly	Severe: cemented pan.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, cemented pan.	Large stones, droughty, cemented pan.
74D*, 74E*:						
Highhorn	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, droughty.	Slope, large stones.	Large stones, slope, droughty.
Huntrock	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
75D Hudspeth	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
76D*, 76E*:						
Hudspeth	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Morningstar	Severe: slope.	Moderate: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Large stones, slope, droughty.
77F*:						
Huntrock	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Highhorn	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, droughty.	Slope, large stones.	Large stones, slope, droughty.
78E*:						
Hyall	Severe: slope.	Severe: seepage.	Deep to water	Slope, large stones, droughty.	Slope, large stones, too sandy.	Too arid, large stones, slope.
Badland	Severe: depth to rock, slope.	Slight	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
79D*, 80E*:						
Hyall	Severe: slope.	Severe: seepage.	Deep to water	Slope, large stones, droughty.	Slope, large stones, too sandy.	Too arid, large stones, slope.
Simas	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, percs slowly.	Too arid, large stones, slope.
81C Immig	Moderate: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, erodes easily.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
82C Immig	Moderate: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
83D, 83E, 83F Inkler	Severe: slope.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Large stones, slope, droughty.
84D Jett	Moderate: seepage.	Severe: piping.	Deep to water	Favorable	Erodes easily	Erodes easily.
85D Keating	Severe: slope.	Severe: thin layer.	Deep to water	Slope, percs slowly, depth to rock.	Slope, depth to rock, percs slowly.	Slope, depth to rock, percs slowly.
86D, 86E Kilmerque	Severe: seepage, slope.	Severe: thin layer.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
87D, 87E Klicker	Severe: slope.	Severe: thin layer.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, depth to rock.
88D*:						
Klicker	Severe: slope.	Severe: thin layer.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, depth to rock.
Anatone	Severe: depth to rock, slope.	Severe: piping, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
89D*, 89E*:						
Klicker	Severe: slope.	Severe: thin layer.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, depth to rock.
Fivebit	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
90B Ladd	Moderate: slope.	Severe: piping.	Deep to water	Slope	Favorable	Favorable.
90C Ladd	Severe: slope.	Severe: piping.	Deep to water	Slope	Slope	Slope.
91A La Grande	Moderate: seepage.	Severe: piping.	Frost action	Wetness	Erodes easily, wetness.	Erodes easily.
92A, 93A Langrell	Severe: seepage.	Severe: seepage, large stones.	Deep to water	Large stones, droughty.	Large stones	Large stones, droughty.
94C Legler	Moderate: seepage, slope.	Severe: piping.	Deep to water	Slope, erodes easily.	Erodes easily	Too arid, erodes easily.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
95C Legler	Severe: slope.	Severe: piping.	Deep to water	Slope	Slope, erodes easily.	Too arid, slope, erodes easily.
96E, 96F Lickskillet	Severe: depth to rock, slope.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
97E*:						
Lickskillet	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
98C Lookout	Moderate: depth to rock, cemented pan, slope.	Severe: hard to pack.	Deep to water	Slope, percs slowly, cemented pan.	Large stones, cemented pan.	Too arid, large stones.
99C Lookout	Moderate: depth to rock, cemented pan, slope.	Severe: large stones.	Deep to water	Slope, large stones, percs slowly.	Large stones, cemented pan.	Too arid, large stones.
100D Lostbasin	Severe: slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
101E*:						
Lostbasin	Severe: slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
Xerorthents	Severe: depth to rock, slope.	Severe: seepage.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, depth to rock.
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
102C Lovline	Moderate: seepage, depth to rock, slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Depth to rock	Too arid, depth to rock.
103D, 103E, 103F Lovline	Severe: slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
104D Marack	Severe: seepage, slope.	Severe: thin layer.	Deep to water	Slope, percs slowly, erodes easily.	Slope, erodes easily, percs slowly.	Too arid, slope, erodes easily.
105C Marack	Severe: seepage.	Severe: thin layer.	Deep to water	Slope, percs slowly.	Erodes easily, percs slowly.	Too arid, erodes easily.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
106D Marack	Severe: seepage, slope.	Severe: thin layer.	Deep to water	Slope, percs slowly.	Slope, erodes easily, percs slowly.	Too arid, slope, erodes easily.
107C*:						
Marack	Severe: seepage.	Severe: thin layer.	Deep to water	Slope, percs slowly.	Erodes easily, percs slowly.	Too arid, erodes easily.
Marack	Severe: seepage.	Severe: thin layer.	Deep to water	Slope, percs slowly, erodes easily.	Erodes easily, percs slowly.	Too arid, erodes easily.
108D*:						
Marack	Severe: seepage, slope.	Severe: thin layer.	Deep to water	Slope, percs slowly.	Slope, erodes easily, percs slowly.	Too arid, slope, erodes easily.
Badland	Severe: depth to rock, slope.	Slight	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
109C McEwen	Severe: seepage.	Moderate: thin layer, piping.	Deep to water	Slope	Favorable	Favorable.
110D McEwen	Severe: seepage, slope.	Moderate: thin layer, piping.	Deep to water	Slope	Slope	Slope.
111D*, 111E*:						
McGarr	Severe: slope.	Severe: thin layer.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, depth to rock.
Kahler	Severe: slope.	Severe: piping.	Deep to water	Slope, erodes easily.	Slope, large stones, erodes easily.	Large stones, slope, erodes easily.
112D Morningstar	Severe: slope.	Moderate: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Large stones, slope, droughty.
113D, 113E Nagle	Severe: slope.	Severe: piping.	Deep to water	Slope	Slope	Slope.
114C North Powder	Moderate: seepage, depth to rock, slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Depth to rock	Too arid, depth to rock.
115D, 116D North Powder	Severe: slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
117D*:						
North Powder	Severe: slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
118C Oxman	Moderate: seepage, depth to rock, slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Depth to rock, erodes easily.	Too arid, erodes easily.
119D Oxman	Severe: slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Slope, depth to rock, erodes easily.	Too arid, slope, erodes easily.
120D*:						
Oxman	Severe: slope.	Severe: piping.	Deep to water	Slope, depth to rock.	Slope, depth to rock, erodes easily.	Too arid, slope, erodes easily.
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: thin layer.	Deep to water	Slope, depth to rock, erodes easily.	Slope, depth to rock, erodes easily.	Too arid, slope, erodes easily.
121E, 121F Piersonte	Severe: slope.	Severe: seepage.	Deep to water	Slope, droughty.	Slope, large stones.	Large stones, slope, droughty.
122C Poall	Moderate: seepage, slope.	Severe: piping.	Deep to water	Slope, soil blowing, percs slowly.	Erodes easily, soil blowing.	Too arid, erodes easily.
123D, 124D Poall	Severe: slope.	Severe: piping.	Deep to water	Slope, soil blowing, percs slowly.	Slope, erodes easily, soil blowing.	Too arid, slope, erodes easily.
125D*:						
Poall	Severe: slope.	Severe: piping.	Deep to water	Slope, soil blowing, percs slowly.	Slope, erodes easily, soil blowing.	Too arid, slope, erodes easily.
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: thin layer.	Deep to water	Slope, depth to rock, erodes easily.	Slope, depth to rock, erodes easily.	Too arid, slope, erodes easily.
126A, 127A Powval	Moderate: seepage.	Severe: piping.	Deep to water	Erodes easily	Erodes easily	Erodes easily.
128B Pritchard	Moderate: slope.	Moderate: hard to pack.	Deep to water	Slope, percs slowly.	Percs slowly	Percs slowly.
129B Rastus	Severe: seepage.	Severe: seepage.	Deep to water	Slope, percs slowly, cemented pan.	Cemented pan, too sandy.	Cemented pan, percs slowly.
130E, 130F Redcliff	Severe: slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
131C*:						
Ridley	Moderate: slope.	Moderate: hard to pack.	Deep to water	Slope, percs slowly, erodes easily.	Erodes easily, percs slowly.	Erodes easily, percs slowly.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
131C*:						
Keating	Moderate: depth to rock, slope.	Severe: thin layer.	Deep to water	Slope, percs slowly, depth to rock.	Depth to rock, percs slowly.	Depth to rock, percs slowly.
132A* Riverwash	Severe: seepage.	Severe: wetness.	Flooding, cutbanks cave.	Wetness, droughty, fast intake.	Large stones, wetness, too sandy.	Large stones, wetness, droughty.
133C*:						
Robinette	Moderate: seepage, depth to rock, slope.	Moderate: thin layer.	Deep to water	Percs slowly, slope, erodes easily.	Erodes easily	Erodes easily.
Gwinly	Severe: depth to rock.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
134F*:						
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
Lostbasin	Severe: slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
Xerorthents	Severe: depth to rock, slope.	Severe: seepage.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, depth to rock.
135F*:						
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
Ruckles	Severe: depth to rock, slope.	Severe: hard to pack, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
136F*:						
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
Ruclick	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
137F*:						
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
Snell	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
138F*:						
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
Snellby	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, percs slowly.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
139F*:						
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: seepage.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Darkcanyon	Severe: slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
140C*:						
Rockly	Severe: depth to rock.	Severe: large stones.	Deep to water	Slope, large stones, depth to rock.	Large stones, depth to rock.	Large stones, droughty.
Gwinly	Severe: depth to rock.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
141D*, 141E*:						
Roostercomb	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Longbranch	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, percs slowly, erodes easily.	Slope, large stones, erodes easily.	Large stones, slope, erodes easily.
142C*:						
Ruckles	Severe: depth to rock.	Severe: hard to pack, large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Large stones, droughty.
142C*:						
Ruclick	Moderate: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Too arid, large stones.
143D*, 143E*, 143F*:						
Ruckles	Severe: depth to rock, slope.	Severe: hard to pack, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Ruclick	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Too arid, large stones, slope.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
144E*, 144F*:						
Ruckles	Severe: depth to rock, slope.	Severe: hard to pack, large stones.	Deep to water	Slope, large stones, droughty	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Ruclick	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Snellby	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, percs slowly.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
145D, 145E Ruclick	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
146D*, 146E*:						
Sag	Severe: slope.	Moderate: thin layer.	Deep to water	Slope, percs slowly, erodes easily.	Slope, erodes easily.	Slope, erodes easily.
146D*, 146E*:						
Snell	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
147D, 147E, 147F Segundo	Severe: seepage, slope.	Severe: seepage.	Deep to water	Slope, large stones, droughty.	Slope, large stones, too sandy.	Large stones, slope, droughty.
148F Sinker	Severe: slope.	Moderate: thin layer.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
149D*, 149E*:						
Sinker	Severe: slope.	Moderate: thin layer.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
Chambeam	Severe: slope.	Moderate: thin layer.	Deep to water	Slope, droughty.	Slope	Slope, droughty.
150D, 150E, 150F Sisley	Severe: slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
151D Skullgulch	Severe: slope.	Moderate: piping.	Deep to water	Slope, percs slowly.	Slope	Slope, percs slowly.
152F Snaker	Severe: depth to rock, slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
153E*:						
Snaker	Severe: depth to rock, slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
153E*:						
Darkcanyon	Severe: slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
154E*:						
Snaker	Severe: depth to rock, slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Darkcanyon	Severe: slope.	Severe: seepage.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: seepage.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
155D*, 155E*:						
Snell	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Ateron	Severe: depth to rock, slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
156D*:						
Snell	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.
157F*:						
Snell	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Large stones, slope, droughty.
Sag	Severe: slope.	Moderate: thin layer.	Deep to water	Slope, percs slowly, erodes easily.	Slope, erodes easily.	Slope, erodes easily.
158D, 158E Snellby	Severe: slope.	Severe: large stones.	Deep to water	Slope, large stones, percs slowly.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
159A*:						
Stanflow	Moderate: seepage.	Severe: piping, excess sodium, excess salt.	Percs slowly, excess salt, excess sodium.	Wetness, percs slowly, erodes easily.	Erodes easily, wetness.	Excess salt, excess sodium, erodes easily.
Umapine	Moderate: seepage.	Severe: piping, wetness, excess sodium.	Frost action, excess salt, excess sodium.	Wetness, erodes easily, excess sodium.	Erodes easily, wetness.	Wetness, excess salt, excess sodium.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
160E---------- Stavely	Severe: seepage, slope.	Severe: seepage.	Deep to water	Slope, droughty, soil blowing.	Slope, too sandy, soil blowing.	Slope, droughty.
161E, 161F-------- Stices	Severe: seepage, slope.	Severe: seepage.	Deep to water	Slope, large stones, droughty.	Slope, large stones, too sandy.	Large stones, slope, droughty.
162A*:						
Sumpley----------	Severe: seepage.	Severe: seepage, wetness.	Flooding, large stones, cutbanks cave.	Wetness, erodes easily, flooding.	Erodes easily, wetness, too sandy.	Wetness, erodes easily.
162A*:						
Stovepipe--------	Severe: seepage.	Severe: seepage, wetness.	Flooding, large stones, frost action.	Wetness, erodes easily, flooding.	Erodes easily, wetness, too sandy.	Wetness, erodes easily.
163D, 163E-------- Taterpa	Severe: seepage, slope.	Severe: piping.	Deep to water	Slope, erodes easily.	Slope, erodes easily.	Slope, erodes easily.
164D*:						
Tolo----------	Severe: slope.	Slight---------	Deep to water	Slope, erodes easily.	Slope, erodes easily.	Slope, erodes easily.
Crackler---------	Severe: slope.	Moderate: thin layer, large stones.	Deep to water	Slope, large stones.	Slope, large stones.	Large stones, slope.
165D*:						
Tolo----------	Severe: slope.	Slight---------	Deep to water	Slope, erodes easily.	Slope, erodes easily.	Slope, erodes easily.
Dogtown----------	Severe: seepage, slope.	Moderate: thin layer.	Deep to water	Slope, droughty.	Slope----------	Slope, droughty.
166D, 166E-------- Top	Severe: slope.	Moderate: thin layer.	Deep to water	Slope----------	Slope, erodes easily.	Slope, erodes easily.
167D*, 167E*:						
Top----------	Severe: slope.	Moderate: thin layer.	Deep to water	Slope----------	Slope, erodes easily.	Slope, erodes easily.
McGarr----------	Severe: slope.	Severe: thin layer.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Large stones, slope, depth to rock.
168C---------- Typic Xerorthents	Severe: seepage.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Large stones, too sandy.	Large stones, droughty.
169C---------- Ukiah	Moderate: depth to rock, slope.	Moderate: thin layer, piping.	Deep to water	Slope, percs slowly, depth to rock.	Depth to rock, percs slowly.	Depth to rock, percs slowly.
169D---------- Ukiah	Severe: slope.	Moderate: thin layer, piping.	Deep to water	Slope, percs slowly, depth to rock.	Slope, depth to rock, percs slowly.	Slope, depth to rock, percs slowly.

See footnote at end of table.

TABLE 13.--WATER MANAGEMENT--Continued

Soil name and map symbol	Limitations for-- Pond reservoir areas	Embankments, dikes, and levees	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
170A Umapine	Moderate: seepage.	Severe: piping, wetness, excess sodium.	Frost action, excess salt, excess sodium.	Wetness, erodes easily, excess sodium.	Erodes easily, wetness.	Wetness, excess salt, excess sodium.
171B Virtue	Severe: seepage.	Severe: seepage.	Deep to water	Slope, cemented pan.	Cemented pan, erodes easily.	Too arid, erodes easily.
171C Virtue	Severe: seepage, slope.	Severe: seepage.	Deep to water	Slope, cemented pan.	Slope, cemented pan, erodes easily.	Too arid, slope, erodes easily.
172B Virtue	Severe: seepage.	Severe: seepage.	Deep to water	Slope, cemented pan.	Cemented pan, erodes easily.	Too arid, erodes easily.
172C Virtue	Severe: seepage, slope.	Severe: seepage.	Deep to water	Slope, cemented pan.	Slope, cemented pan, erodes easily.	Too arid, slope, erodes easily.
173C Wahstal	Severe: seepage, cemented pan.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Large stones, cemented pan.	Large stones, droughty.
174B Webfoot	Severe: seepage.	Severe: seepage, wetness.	Large stones, slope, cutbanks cave.	Slope, wetness, droughty.	Erodes easily, wetness, too sandy.	Wetness, erodes easily, droughty.
175A Wingdale	Moderate: seepage.	Severe: piping, wetness.	Flooding, frost action.	Wetness, flooding.	Erodes easily, wetness.	Wetness, erodes easily.
176A Wingville	Moderate: seepage.	Severe: piping, wetness.	Frost action	Wetness	Erodes easily, wetness.	Erodes easily.
177E Xeric Torriorthents	Severe: depth to rock, slope.	Severe: thin layer.	Deep to water	Slope, depth to rock, erodes easily.	Slope, depth to rock, erodes easily.	Too arid, slope, erodes easily.
178F*:						
Xeric Torriorthents	Severe: depth to rock, slope.	Severe: seepage, large stones.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Rock outcrop	Severe: depth to rock, slope.	---	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Slope, depth to rock.

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

TABLE 14.--ENGINEERING INDEX PROPERTIES

(The symbol < means less than; > means more than. Absence of an entry indicates that data were not estimated)

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
1D, 1F---------- Anatone	0-8	Extremely stony loam.	GM	A-2, A-4	50-70	50-70	40-60	35-55	25-50	25-35	NP-10
	8-16	Very gravelly silt loam, very cobbly loam, extremely cobbly loam.	GM, ML	A-2, A-4, A-1	20-70	40-70	35-55	25-55	20-55	25-35	NP-10
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
2E*, 2F*:											
Anatone---------	0-8	Extremely stony loam.	GM	A-2, A-4	50-70	50-70	40-60	35-55	25-50	25-35	NP-10
	8-16	Very gravelly silt loam, very cobbly loam, extremely cobbly loam.	GM, ML	A-2, A-4, A-1	20-70	40-70	35-55	25-55	20-55	25-35	NP-10
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Segundo---------	0-5	Very gravelly loam.	GM	A-4, A-2	0-15	35-75	30-70	25-65	20-50	30-40	5-10
	5-21	Very gravelly loam.	GM	A-4, A-2	0-20	35-70	30-65	25-60	20-50	30-40	5-10
	21-60	Very gravelly sandy loam, extremely gravelly loamy sand.	GM, SM	A-2	0-45	35-65	30-60	20-55	10-35	25-35	NP-5
3F---------- Angelpeak	0-12	Gravelly silt loam.	ML	A-4	0-15	70-90	65-85	60-80	50-65	30-40	NP-10
	12-27	Gravelly loam, gravelly silt loam.	ML, GM, SM	A-4	0	60-80	55-70	50-70	35-65	30-40	5-10
	27-58	Extremely gravelly loam, extremely gravelly sandy loam.	GM, GC, GP-GM	A-2, A-1	0-25	15-30	10-25	10-20	5-15	15-25	NP-10
	58	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
4B, 4C---------- Applegate	0-11	Silt loam--------	ML	A-4	0	95-100	95-100	85-100	65-90	30-40	5-10
	11-28	Silty clay loam	ML	A-7	0	95-100	95-100	90-100	80-95	40-50	10-20
	28-60	Clay, silty clay, silty clay loam.	ML, MH, CH	A-7	0	90-100	90-100	80-100	65-95	45-60	15-30
5C---------- Aridic Haploxerolls	0-10	Very stony loam	ML, GM	A-4, A-2	30-65	55-75	50-70	40-65	30-55	25-35	NP-5
	10-60	Variable---------	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
6C, 7D, 7E------- Ateron	0-6	Very stony loam	ML, GM	A-4	35-65	65-85	60-80	50-75	35-60	30-40	5-10
	6-12	Very cobbly silty clay loam, extremely gravelly clay loam.	GC	A-6, A-7, A-2	15-65	30-55	25-50	25-50	20-45	35-45	15-20
	12-17	Very cobbly clay, extremely cobbly clay.	GC, CL	A-7	30-70	50-75	45-70	40-70	35-65	40-50	20-30
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
8C*, 9D*, 9E*:											
Ateron----------	0-6	Extremely gravelly clay loam.	GC	A-2	5-20	25-40	20-35	20-35	15-30	35-45	15-20
	6-12	Very cobbly silty clay loam, extremely gravelly clay loam.	GC	A-6, A-7, A-2	15-65	30-55	25-50	25-50	20-45	35-45	15-20
	12-17	Very cobbly clay, extremely cobbly clay.	GC, CL	A-7	30-70	50-75	45-70	40-70	35-65	40-50	20-30
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Roostercomb-----	0-5	Extremely gravelly clay loam.	GC	A-2-6	15-30	30-40	25-30	20-30	15-25	35-40	15-20
	5-12	Extremely gravelly clay loam, very gravelly clay loam, extremely gravelly loam.	GC	A-2-6	5-15	30-45	25-40	20-40	15-30	30-40	10-20
	12-25	Extremely gravelly clay, extremely gravelly silty clay.	GC	A-2-7	5-30	30-40	25-35	20-35	20-30	40-55	15-30
	25-36	Extremely cobbly clay, very cobbly clay.	GC	A-2-7, A-7	40-55	45-60	40-55	35-55	30-50	45-55	20-30
	36	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
10C*:											
Bakeoven--------	0-2	Extremely gravelly loam.	GM, GP-GM	A-2, A-1	15-25	20-50	15-30	10-30	10-20	20-35	NP-10
	2-8	Extremely cobbly clay loam, extremely cobbly loam, extremely cobbly silty clay loam.	GM, SM, ML	A-2, A-4	40-60	50-90	45-65	40-60	30-55	30-40	5-10
	8	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
10C*:											
Ruckles---------	0-5	Very stony clay loam.	GC, CL, SC	A-6, A-7	25-55	60-80	50-75	40-75	35-60	35-45	15-25
	5-16	Very stony clay, extremely stony clay, extremely stony sandy clay.	CH, GC, SC	A-7, A-2	40-65	25-70	25-70	25-60	20-55	60-70	35-45
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
11A, 11B--------- Baker	0-8	Silt loam--------	ML	A-4	0	100	100	90-100	80-90	20-25	NP-5
	8-16	Silt loam, loam	ML	A-4	0	100	100	85-100	65-90	20-25	NP-5
	16-31	Loam, silt loam	ML	A-4	0	100	100	85-95	65-75	20-25	NP-5
	31-39	Indurated material.	---	---	---	---	---	---	---	---	---
	39-60	Stratified extremely gravelly sand to gravelly loam.	SM, GM, SP-SM, GP-GM	A-1, A-2, A-4	0-15	40-100	20-75	15-65	5-50	10-20	NP-5
12A, 12B--------- Baker	0-8	Silt loam--------	ML	A-4	0	100	100	90-100	80-90	30-40	5-10
	8-16	Silt loam, loam	ML	A-4	0	100	100	85-100	65-85	30-40	5-10
	16-31	Silt loam, loam	ML	A-4	0	100	100	85-95	65-75	25-35	NP-5
	31-39	Indurated material.	---	---	---	---	---	---	---	---	---
	39-60	Stratified extremely gravelly sand to gravelly loam.	SM, GM, SP-SM, GP-GM	A-1, A-2, A-4	0-15	40-100	30-85	20-70	5-50	10-20	NP-5
13A---------- Baldock	0-6	Silt loam--------	ML	A-4	0	95-100	90-100	80-100	75-90	30-40	5-10
	6-36	Silt loam, loam	CL-ML, CL	A-4, A-6	0	90-100	90-100	75-100	55-85	20-30	5-15
	36-60	Silt loam, loam, fine sandy loam.	CL-ML, CL, SC-SM, SC	A-4, A-6	0	75-100	75-100	40-100	40-90	20-35	5-15
14D, 14E, 14F---- Baldridge	0-14	Very gravelly loam.	GM	A-4, A-2	0-15	30-80	20-70	20-65	10-50	20-30	NP-5
	14-47	Very gravelly loam, very cobbly loam, extremely cobbly loam.	GM	A-4, A-2	0-60	30-80	20-70	20-65	10-50	20-30	NP-5
	47-60	Extremely cobbly sandy loam, extremely gravelly loam.	GM	A-4, A-2	15-60	55-70	45-60	30-55	15-45	20-30	NP-5
15A---------- Balm	0-2	Loam----------	ML, CL-ML	A-4	0	90-100	75-100	65-90	50-70	20-30	NP-10
	2-30	Silt loam, fine sandy loam, loam.	ML, SM, CL-ML, SC-SM	A-4	0	85-100	75-100	55-95	40-80	20-30	NP-10
	30-60	Very gravelly sand, very gravelly loamy sand.	GP-GM, SP-SM, GP, SP	A-1	0-15	35-65	25-50	10-30	0-15	---	NP

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
16B, 16C, 16D---- Barnard	0-7	Silt loam--------	CL	A-6	0	95-100	90-100	80-90	60-85	25-35	10-20
	7-14	Silty clay loam	ML, CL	A-6, A-7	0-5	95-100	90-100	85-95	75-90	35-45	10-20
	14-22	Silty clay, clay, silty clay loam.	CL, CH	A-7	0-5	95-100	90-100	80-95	75-95	45-60	20-35
	22-30	Indurated material.	---	---	---	---	---	---	---	---	---
	30-60	Very gravelly loam, cobbly loam.	ML, GM, SM	A-2, A-4	15-30	50-85	40-80	35-70	25-55	20-25	NP-5
17C---------- Barnard	0-9	Cobbly silt loam	ML	A-4	20-35	90-100	80-95	80-95	70-80	25-35	NP-10
	9-17	Cobbly silty clay loam.	CL	A-6, A-7	15-30	90-100	80-100	80-100	70-90	30-45	10-20
	17-32	Silty clay, clay, clay loam.	CH, CL	A-7	0-10	95-100	90-100	80-95	75-95	40-55	20-30
	32-47	Indurated--------	---	---	---	---	---	---	---	---	---
	47-60	Cobbly loam, very gravelly loam.	GM, GP-GM	A-1, A-2	10-30	25-55	20-50	15-40	10-35	25-30	NP-5
18B---------- Benderly	0-16	Gravelly fine sandy loam.	SM	A-2, A-1	0-5	60-80	55-75	40-65	20-35	---	NP
	16-60	Extremely gravelly sand, extremely gravelly loamy sand.	GP-GM	A-1	5-35	30-40	20-30	10-20	0-10	---	NP
19E---------- Boiler	0-6	Gravelly loam----	CL-ML, CL, GM-GC, GC	A-4, A-6	0-5	65-85	60-80	50-70	40-60	25-35	5-15
	6-13	Very gravelly clay loam.	GC	A-2	0-15	30-40	25-35	20-30	15-25	35-40	15-20
	13-49	Extremely gravelly clay, extremely gravelly silty clay, very gravelly clay.	GC	A-2, A-7	0-15	30-50	25-45	25-45	20-45	50-65	25-35
	49	Weathered bedrock	---	---	---	---	---	---	---	---	---
20D---------- Bouldrock	0-6	Loam----------	CL-ML, CL	A-4, A-6	0	90-100	85-100	75-90	55-65	20-30	5-15
	6-32	Loam, sandy loam	SC-SM, SM, SC	A-4	0	85-100	80-100	65-85	40-50	15-25	NP-10
	32	Weathered bedrock	---	---	---	---	---	---	---	---	---
21E*:											
Bouldrock-------	0-6	Loam----------	CL-ML, CL	A-4, A-6	0	90-100	85-100	75-90	55-65	20-30	5-15
	6-32	Loam, sandy loam	SC-SM, SM, SC	A-4	0	85-100	80-100	65-85	40-50	15-25	NP-10
	32	Weathered bedrock	---	---	---	---	---	---	---	---	---
Bouldrock-------	0-9	Very bouldery loam.	CL-ML, CL	A-4, A-6	50-80	90-100	85-100	75-90	55-65	20-30	5-15
	9-25	Loam, sandy loam	SC-SM, SM, SC	A-4	0	85-100	80-100	65-85	40-50	15-25	NP-10
	25-29	Gravelly sandy loam, gravelly loamy sand.	SM	A-2, A-1	0	80-90	70-80	40-50	20-30	10-20	NP-5
	29	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
22E*, 22F*:											
Bouldrock-------	0-9	Very bouldery loam.	CL-ML, CL	A-4, A-6	50-80	90-100	85-100	75-90	55-65	20-30	5-15
	9-25	Loam, sandy loam	SC-SM, SM, SC	A-4	0	85-100	80-100	65-85	40-50	15-25	NP-10
	25-29	Gravelly sandy loam, gravelly loamy sand.	SM	A-2, A-1	0	80-90	70-80	40-50	20-30	10-20	NP-5
	29	Weathered bedrock	---	---	---	---	---	---	---	---	---
Kilmerque-------	0-5	Loam----------	CL-ML, ML, CL	A-4	0	95-100	85-100	70-90	55-70	20-30	NP-10
	5-16	Loam, sandy loam	CL-ML, SC-SM, ML, SM	A-4, A-2	0	95-100	85-100	55-85	25-65	20-30	NP-10
	16-26	Gravelly sandy loam, cobbly sandy loam.	SM	A-2, A-1	0-25	65-80	55-75	35-50	20-30	10-20	NP-5
	29	Weathered bedrock	---	---	---	---	---	---	---	---	---
23A---------- Boyce	0-29	Silt loam--------	ML	A-4, A-6	0	100	100	90-100	80-90	30-40	5-15
	29-60	Very gravelly sand, gravelly loamy sand, loamy sand.	SP, SP-SM, SM, GP-GM	A-1	0-15	50-100	35-100	15-60	0-25	---	NP
24D, 24E, 24F---- Brannan	0-14	Channery silt loam.	ML, GM	A-5	0-15	60-80	55-75	50-75	40-70	40-50	5-10
	14-48	Very channery sandy clay loam, very channery sandy loam.	GM	A-2	5-35	35-60	25-55	15-50	10-30	30-40	5-10
	48	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
25C*, 26D*:											
Brownlee--------	0-10	Loam----------	ML	A-4	0	90-100	85-100	75-95	55-70	25-35	NP-10
	10-30	Gravelly clay loam, clay loam, loam.	CL	A-6	0-5	90-100	65-85	60-80	50-65	30-40	10-20
	30-42	Gravelly coarse sandy loam, sandy clay loam, sandy loam.	SC-SM	A-2	0-5	80-95	70-90	40-55	20-35	20-30	5-10
	42	Weathered bedrock	---	---	---	---	---	---	---	---	---
Shangland-------	0-8	Loam----------	ML	A-4	0-5	80-100	75-100	65-95	50-75	20-30	NP-5
	8-16	Sandy loam, loam	SM, ML	A-4, A-2	0-5	80-100	75-100	45-90	25-70	20-30	NP-5
	16-24	Loamy sand, coarse sandy loam.	SM	A-2, A-1	0-5	80-100	75-100	40-70	15-35	15-25	NP-5
	24	Weathered bedrock	---	---	---	---	---	---	---	---	---
27C, 28D, 29D---- Brownscombe	0-12	Silt loam--------	ML, CL-ML	A-4	0	90-100	85-100	85-100	70-85	20-30	NP-10
	12-18	Sandy clay loam, clay loam.	SC-SM	A-4	0	95-100	85-100	50-90	45-70	20-30	5-10
	18-25	Sandy clay-------	SC	A-6, A-7	0-10	90-100	85-100	85-95	45-60	35-50	15-25
	25	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
30E*:											
Brownscombe-----	0-12	Silt loam--------	ML, CL-ML	A-4	0	90-100	85-100	85-100	70-85	20-30	NP-10
	12-18	Sandy clay loam, clay loam.	SC-SM	A-4	0	95-100	85-100	50-90	45-70	20-30	5-10
	18-25	Sandy clay-------	SC	A-6, A-7	0-10	90-100	85-100	85-95	45-60	35-50	15-25
	25	Weathered bedrock	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
31A---------- Burkemont	0-25	Silty clay loam	CL	A-6	0	100	100	85-100	85-95	35-40	15-20
	25-46	Clay, silty clay	CL, CH	A-7	0	100	100	95-100	90-95	45-65	20-35
	46-60	Silty clay loam, clay loam.	CL	A-6, A-7	0-5	95-100	85-100	80-100	65-90	35-45	15-20
32A---------- Burntriver	0-11	Silt loam--------	CL-ML	A-4	0	85-100	75-100	60-95	55-90	20-30	5-10
	11-26	Silty clay loam, silt loam, gravelly silty clay loam.	GC, SC, CL	A-6	0	70-90	60-85	55-80	40-70	25-35	15-20
	26-51	Silty clay loam, clay loam, gravelly silty clay loam.	CL	A-7	0	70-90	60-85	55-80	50-75	40-50	15-25
	51-88	Gravelly sandy clay loam, gravelly clay loam.	GC, SC	A-2, A-6	0	65-75	60-70	45-55	30-40	30-40	10-15
33C---------- Burntriver	0-11	Gravelly silt loam.	CL-ML	A-4	0	75-90	65-75	55-70	50-65	20-30	5-10
	11-26	Silty clay loam, silt loam, gravelly silty clay loam.	GC, SC, CL	A-6	0	70-90	60-85	55-80	40-70	25-35	15-20
	26-51	Silty clay loam, clay loam, gravelly silty clay loam.	CL	A-7	0	70-90	60-85	55-80	50-75	40-50	15-25
	51-88	Gravelly sandy clay loam, gravelly clay loam.	GC, SC	A-2, A-6	0	65-75	60-70	45-55	30-40	30-40	10-15
34D*, 34E*:											
Campcreek-------	0-8	Very gravelly loam.	GM-GC, GM, GC	A-2, A-4	0	50-60	40-50	35-45	25-40	25-35	5-10
	8-15	Clay loam, silty clay loam, loam.	CL-ML, CL	A-4, A-6	0	90-100	75-100	65-100	50-95	25-40	5-15
	15-65	Clay, silty clay	CH	A-7	0	90-100	75-100	65-100	60-95	55-65	30-40
Skullgulch------	0-20	Silt loam--------	ML, CL-ML	A-4	0	90-100	75-90	70-90	65-80	25-35	5-10
	20-24	Clay loam, silty clay loam, loam.	CL-ML, CL	A-4, A-6	0	90-100	75-90	65-90	50-90	25-40	5-15
	24-39	Clay, silty clay	CH	A-7	0	95-100	85-100	80-100	75-95	55-65	30-40
	39-60	Clay loam, silty clay loam.	ML, CL	A-6	0	90-100	75-100	70-95	60-75	35-40	10-15

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
35A---------- Catherine	0-30	Silt loam--------	ML	A-4	0	100	100	95-100	80-95	30-35	5-10
	30-48	Silt loam, silty clay loam.	ML	A-4, A-6	0	100	100	95-100	80-95	30-40	5-15
	48-60	Stratified very gravelly silt loam to sandy loam.	SM, ML, GM	A-2, A-4	0-15	50-90	45-85	40-80	25-60	20-30	NP-5
36C*, 37D*:											
Clovercreek-----	0-6	Very gravelly loam.	GM	A-2, A-4	0-5	40-75	35-50	30-50	20-45	30-40	5-10
	6-16	Very gravelly clay loam, very gravelly silty clay loam.	GC	A-2, A-6	0-15	35-55	30-50	25-50	20-40	30-40	10-20
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Keating---------	0-8	Silt loam--------	CL-ML, ML	A-4	0	100	100	90-100	70-90	20-30	NP-10
	8-12	Clay loam, silty clay loam.	CL	A-6	0	100	100	90-100	70-90	30-40	10-20
	12-22	Clay loam, clay, silty clay.	CL, CH	A-7	0-5	90-100	85-100	80-100	65-90	40-55	20-30
	22	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
38E*, 38F*:											
Copperfield-----	0-8	Very cobbly silt loam.	ML, CL, CL-ML	A-4	15-40	65-75	60-70	60-65	55-60	25-35	5-10
	8-19	Very gravelly silt loam, very cobbly silt loam.	GM, GC, GM-GC	A-4	15-40	50-60	40-55	40-55	35-50	25-35	5-10
	19-42	Very gravelly silty clay loam, very cobbly silty clay loam.	GC, GM	A-6, A-7	25-55	50-60	45-50	45-50	40-45	35-45	10-20
	42-60	Extremely cobbly silty clay, extremely cobbly clay, extremely cobbly silty clay loam.	CL, CH, GC, SC	A-7	50-70	60-75	40-70	40-70	35-60	40-55	20-30
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
39D*, 39E*:											
Crackler--------	0-17	Gravelly silt loam.	ML, GM	A-4	0-10	70-85	60-80	55-80	40-70	30-40	NP-5
	17-34	Very cobbly silty clay loam, very gravelly clay loam.	GC, CL	A-6, A-2	30-50	35-70	25-60	20-60	15-55	30-40	10-20
	34-54	Extremely gravelly clay loam, extremely gravelly silty clay loam.	GC	A-2	5-30	25-45	20-40	20-40	15-35	30-40	10-20
	54	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
39D*, 39E*:											
Rouen----------	0-16	Gravelly silt loam.	ML, GM	A-5	0-15	60-85	55-80	50-80	40-70	40-55	NP-10
	16-31	Extremely gravelly clay loam, extremely gravelly silty clay loam, very gravelly loam.	GC	A-6, A-2	5-15	30-60	25-55	20-55	15-50	30-40	10-20
	31	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
40A---------- Cumulic Haploxerolls	0-11	Loam----------	ML	A-4	0-5	90-100	85-100	70-95	50-75	25-35	NP-10
	11-60	Variable---------	---	---	---	---	---	---	---	---	---
41A*:											
Damore----------	0-12	Silt loam--------	CL-ML, CL, ML	A-4	0	100	100	90-100	70-90	20-30	NP-10
	12-34	Silty clay loam, silty clay.	CL	A-6, A-7	0	100	100	85-100	85-95	35-50	15-25
	34-60	Silty clay, clay, gravelly clay.	CH	A-7	0-5	75-90	70-85	65-85	55-80	50-65	25-35
Silvies---------	0-17	Silt loam--------	CL, CL-ML	A-4, A-6	0	100	100	90-100	70-90	25-40	5-15
	17-29	Silty clay loam, clay.	CL, CH	A-7	0	100	100	90-100	75-95	40-65	20-40
	29-60	Silty clay, clay	CL, CH	A-7	0	100	100	90-100	75-95	45-65	20-40
42D*:											
Derringer-------	0-6	Very gravelly loam.	GM-GC, GC	A-2, A-4, A-6, A-1	5-15	40-60	35-55	30-45	20-40	25-35	5-15
	6-26	Very gravelly clay loam, extremely gravelly clay loam.	GP-GC, GC	A-2	0-30	20-50	15-45	15-40	10-35	35-45	15-20
	26-36	Extremely gravelly silty clay, extremely gravelly clay, very gravelly clay.	GC	A-2, A-7	0-30	20-50	15-45	15-45	15-45	45-55	20-30
	36	Weathered bedrock	---	---	---	---	---	---	---	---	---
Harlow----------	0-4	Extremely stony clay loam.	GC	A-2, A-6, A-7	10-20	45-65	40-60	30-50	25-40	35-45	15-20
	4-12	Very gravelly clay loam, very cobbly clay loam, extremely gravelly clay loam.	GC	A-2, A-6, A-7	15-40	40-65	30-55	30-50	20-40	35-45	15-20
	12-18	Extremely cobbly clay, very cobbly clay loam, extremely gravelly clay loam.	GC	A-2	25-50	35-60	20-55	20-45	20-35	40-55	20-35
	18	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
43E*:											
Dogtown---------	0-11	Gravelly loam----	CL, SC	A-6	0-15	90-100	55-85	50-75	35-55	25-35	10-20
	11-41	Very gravelly sandy loam.	SC-SM, SM, SC	A-2, A-1	0-5	90-100	35-55	25-45	15-25	15-25	NP-10
	41-67	Very gravelly loamy sand.	SM, SP-SM	A-1	0-5	85-100	25-55	15-40	5-20	10-20	NP-5
	67	Weathered bedrock	---	---	---	---	---	---	---	---	---
Dogtown---------	0-18	Very stony loam	CL, SC	A-6	35-60	85-100	75-85	65-80	45-55	25-35	10-20
	18-31	Very stony sandy loam.	SC-SM, SC, SM	A-2, A-4	45-65	85-100	70-85	55-70	30-40	15-25	NP-10
	31-54	Extremely stony loamy sand, very stony loamy sand.	SM	A-2, A-1	55-75	85-100	55-70	35-50	15-25	10-20	NP-10
	54	Weathered bedrock	---	---	---	---	---	---	---	---	---
44F---------- Dogtown	0-18	Very stony loam	CL, SC	A-6	35-60	85-100	75-85	65-80	45-55	25-35	10-20
	18-31	Very stony sandy loam.	SC-SM, SC, SM	A-2, A-4	45-65	85-100	70-85	55-70	30-40	15-25	NP-10
	31-54	Extremely stony loamy sand, very stony loamy sand.	SM	A-2, A-1	55-75	85-100	55-70	35-50	15-25	10-20	NP-10
	54	Weathered bedrock	---	---	---	---	---	---	---	---	---
45C, 46D, 46E, 47D, 47E-------- Durkee	0-7	Gravelly silt loam.	CL-ML, ML	A-4	0-5	70-90	60-75	60-75	50-65	25-35	5-10
	7-10	Clay loam, silty clay loam.	ML	A-6, A-7	0-5	90-100	80-95	80-95	65-80	35-45	10-15
	10-17	Clay, silty clay	CH, CL	A-7	0-5	90-100	80-95	80-95	75-90	45-65	20-35
	17-22	Silty clay loam, clay loam.	CL	A-6, A-7	0-10	90-100	80-95	80-95	65-80	35-45	15-20
	22	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
48F---------- Eaglecap	0-16	Very stony loam	GC, SC	A-6, A-2	0-30	35-85	30-80	25-75	20-50	25-35	10-20
	16-28	Very cobbly sandy loam.	SC-SM, GM, GC, SM	A-2, A-1	15-30	45-70	40-65	30-55	20-30	15-25	NP-10
	28-60	Extremely cobbly loamy sand.	SM, GM	A-2, A-1	30-65	20-80	20-80	15-60	10-25	10-20	NP-5
49D, 49E--------- Emily	0-8	Silt loam--------	ML	A-4	0-5	90-100	85-100	75-100	60-90	25-35	NP-10
	8-29	Very cobbly loam, very cobbly silty clay loam, very cobbly clay loam.	GC, SC	A-6	30-50	50-80	45-70	40-60	35-50	30-40	10-15
	29-60	Very cobbly loam, very gravelly loam, very cobbly clay loam.	GM, SM	A-1, A-2, A-4	30-50	40-70	25-60	20-60	15-45	25-35	NP-10

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
50C, 51D, 51E---- Encina	0-4	Gravelly silt loam.	ML, GM	A-4	0	60-80	55-75	50-75	40-70	25-35	NP-5
	4-12	Clay loam, clay, silty clay.	CL, CH	A-7	0-5	85-100	80-100	70-100	55-95	40-55	15-30
	12-42	Silty clay loam, silt loam, loam.	ML	A-4	0-15	75-100	75-100	65-100	50-95	25-40	NP-10
	42-60	Very gravelly loam, extremely gravelly loam.	GM	A-1, A-2	0-15	30-60	20-50	15-50	10-35	25-30	NP-5
52E*:											
Fivebit---------	0-3	Extremely stony loam.	GM-GC, GC, GM	A-2	45-65	50-60	40-50	35-45	25-35	20-30	NP-10
	3-12	Very gravelly loam, very gravelly silty clay loam, extremely gravelly clay loam.	GM-GC, GC	A-2	15-35	40-50	35-45	30-40	25-35	25-35	5-15
	12-18	Extremely gravelly clay loam, extremely gravelly silty clay loam, extremely gravelly loam.	GC	A-2	15-35	30-40	25-35	20-30	15-25	30-40	10-20
	18	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
53B---------- Glasgow	0-12	Silt loam--------	ML, CL, CL-ML	A-4	0	100	100	90-100	70-90	25-35	5-10
	12-24	Clay, clay loam	CH, CL	A-7	0	100	100	90-100	70-95	40-60	20-40
	24	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
54B---------- Goodrich	0-12	Gravelly loam----	GM, SM	A-4	0-15	60-80	55-75	45-65	35-50	10-20	NP-5
	12-40	Gravelly loam----	SM, GM	A-4, A-1, A-2	0-15	60-80	50-70	35-70	20-50	10-20	NP-5
	40-60	Very gravelly loam, very gravelly sandy loam.	GM	A-2, A-1	20-50	50-70	45-65	30-55	15-35	5-15	NP-5
55B*:											
Goodrich--------	0-12	Gravelly loam----	GM, SM	A-4	0-15	60-80	55-75	45-65	35-50	10-20	NP-5
	12-40	Gravelly loam----	SM, GM	A-4, A-1, A-2	0-15	60-80	50-70	35-70	20-50	10-20	NP-5
	40-60	Very gravelly loam, very gravelly sandy loam.	GM	A-2, A-1	20-50	50-70	45-65	30-55	15-35	5-15	NP-5

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
55B*:											
Benderly--------	0-16	Gravelly fine sandy loam.	SM	A-2, A-1	0-5	60-80	55-75	40-65	20-35	---	NP
	16-60	Extremely gravelly sand, extremely gravelly loamy sand.	GP-GM	A-1	5-35	30-40	20-30	10-20	0-10	---	NP
56C, 57D, 58D---- Greenscombe	0-11	Loam----------	ML	A-4	0	95-100	90-100	75-90	55-75	30-40	5-10
	11-19	Sandy clay loam, clay loam, loam.	SC	A-6	0	85-95	80-90	65-80	35-50	30-40	10-15
	19-30	Sandy loam, sandy clay loam, gravelly sandy loam.	SM	A-4	0	60-95	50-90	30-80	20-50	30-40	5-10
	30	Weathered bedrock	---	---	---	---	---	---	---	---	---
59D*, 59E*, 59F*:											
Gwinly----------	0-3	Very cobbly silt loam.	ML	A-4	25-45	75-95	70-90	65-90	60-85	25-30	NP-5
	3-8	Very cobbly silty clay loam.	GC, CL	A-6, A-7	40-70	60-80	50-75	50-70	45-65	35-40	15-20
	8-17	Very cobbly clay, extremely cobbly clay.	CH, GC, SC	A-7	45-75	55-80	50-75	45-74	40-70	50-60	25-35
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Immig----------	0-7	Very cobbly silt loam.	ML, CL-ML	A-4	30-65	80-95	70-90	65-85	55-70	25-35	5-10
	7-12	Very cobbly silty clay loam.	CL, GC, SC	A-6, A-7	30-65	60-80	50-75	50-70	45-65	35-45	15-20
	12-26	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-7	55-80	60-90	50-85	50-80	45-75	45-60	20-35
	26	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
60D*, 60E*, 60F*:											
Gwinly----------	0-3	Very cobbly silt loam.	ML	A-4	25-45	75-95	70-90	65-90	60-85	25-30	NP-5
	3-8	Very cobbly silty clay loam.	GC, CL	A-6, A-7	40-70	100-80	50-75	50-70	45-65	35-40	15-20
	8-17	Very cobbly clay, extremely cobbly clay.	CH, GC, SC	A-7	45-75	55-80	50-75	45-74	40-70	50-60	25-35
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
60D*, 60E*, 60F*:											
Immig----------	0-7	Very cobbly silt loam.	ML, CL-ML	A-4	30-65	80-95	70-90	65-85	55-70	25-35	5-10
	7-12	Very cobbly silty clay loam.	CL, GC, SC	A-6, A-7	30-65	60-80	50-75	50-70	45-65	35-45	15-20
	12-26	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-7	55-80	60-90	50-85	50-80	45-75	45-60	20-35
	26	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
60D*, 60E*, 60F*:											
Snell----------	0-4	Very cobbly silt loam.	CL-ML, ML, CL	A-4	20-50	80-100	70-100	65-95	50-85	25-35	5-10
	4-9	Very cobbly silty clay loam.	ML, GM, SM, GC	A-6, A-2	20-50	45-80	35-70	30-70	30-65	35-40	10-15
	9-31	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-2, A-7	40-60	50-100	45-100	35-95	30-90	40-55	20-35
	31	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
61D*:											
Gwinly----------	0-3	Very cobbly silt loam.	ML	A-4	25-45	75-95	70-90	65-90	60-85	25-30	NP-5
	3-8	Very cobbly silty clay loam.	GC, CL	A-6, A-7	40-70	60-80	50-75	50-70	45-65	35-40	15-20
	8-17	Very cobbly clay, extremely cobbly clay.	CH, GC, SC	A-7	45-75	55-80	50-75	45-74	40-70	50-60	25-35
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rockly----------	0-2	Very cobbly loam	GM	A-2, A-4	20-30	50-75	45-70	35-65	25-50	25-30	NP-5
	2-8	Very cobbly clay loam, extremely gravelly loam, extremely cobbly clay loam.	GM, GC	A-2, A-6, A-4	30-55	30-65	25-60	25-50	20-40	30-40	5-15
	8	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
62A---------- Haines	0-3	Silt loam--------	ML	A-4	0	100	100	95-100	80-90	20-25	NP-5
	3-43	Silt loam--------	ML	A-4	0	100	100	90-100	80-90	20-25	NP-5
	43-60	Sandy clay loam, clay loam.	CL	A-6	0	95-100	85-100	70-95	40-75	30-40	10-15
63A---------- Halfway	0-34	Clay----------	CH	A-7	0	100	100	90-100	80-95	55-75	35-55
	34-60	Clay, clay loam	CH	A-7	0	100	100	90-100	80-95	50-70	30-50
64C---------- Hall Ranch	0-6	Stony loam-------	ML	A-4	5-10	85-95	75-90	60-75	50-65	30-40	5-10
	6-26	Gravelly loam----	ML	A-4	0-5	70-90	55-80	55-70	50-60	30-40	5-10
	26-37	Very cobbly loam, gravelly clay loam.	GC, CL	A-6	0-50	70-90	55-80	50-80	40-65	30-40	15-20
	37	Weathered bedrock	---	---	---	---	---	---	---	---	---
65D---------- Hankins	0-9	Silt loam--------	ML	A-4	0-5	90-100	85-100	80-100	65-95	25-30	NP-5
	9-47	Cobbly clay, gravelly clay, gravelly silty clay.	CH	A-7	10-20	80-90	65-80	60-80	50-70	50-65	25-35
	47	Weathered bedrock	---	---	---	---	---	---	---	---	---
66D---------- Hankins	0-9	Very cobbly loam	CL	A-4, A-6	0-35	80-100	75-95	65-85	50-70	25-35	5-15
	9-17	Gravelly clay loam.	GC, CL	A-6	0-15	70-90	65-85	50-75	40-65	35-40	15-20
	17-60	Gravelly clay, gravelly silty clay.	CH	A-7	0-10	70-90	65-85	65-85	60-80	50-65	25-35

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
67C*:											
Hankins---------	0-9	Silt loam--------	ML	A-4	0-5	90-100	85-100	80-100	65-95	25-30	NP-5
	9-47	Cobbly clay, gravelly clay, gravelly silty clay.	CH	A-7	15-30	80-90	65-80	60-80	50-70	50-65	25-35
	47	Weathered bedrock	---	---	---	---	---	---	---	---	---
Hankins---------	0-9	Very cobbly loam	CL	A-4, A-6	0-35	80-100	75-95	65-85	50-70	25-35	5-15
	9-17	Gravelly clay loam.	GC, CL	A-6	0-15	70-90	65-85	50-75	40-65	35-40	15-20
	17-60	Gravelly clay, gravelly silty clay.	CH	A-7	0-10	70-90	65-85	65-85	60-80	50-65	25-35
68C---------- Harlow	0-4	Extremely stony clay loam.	GC	A-2, A-6, A-7	10-20	45-65	40-60	30-50	25-40	35-45	15-20
	4-12	Very gravelly clay loam, very cobbly clay loam, extremely gravelly clay loam.	GC	A-2, A-6, A-7	15-40	40-65	30-55	30-50	20-40	35-45	15-20
	12-18	Extremely cobbly clay, very cobbly clay loam, extremely gravelly clay loam.	GC	A-2	25-50	35-60	20-55	20-45	20-35	40-55	20-35
	18	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
69E*:											
Harlow----------	0-4	Extremely stony clay loam.	GC	A-2, A-6, A-7	10-20	45-65	40-60	30-50	25-40	35-45	15-20
	4-12	Very gravelly clay loam, very cobbly clay loam, extremely gravelly clay loam.	GC	A-2, A-6, A-7	15-40	40-65	30-55	30-50	20-40	35-45	15-20
	12-18	Extremely cobbly clay, very cobbly clay loam, extremely gravelly clay loam.	GC	A-2	25-50	35-60	20-55	20-45	20-35	40-55	20-35
	18	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
69E*:											
Derringer--------	0-6	Very gravelly loam.	GM-GC, GC	A-2, A-4, A-6, A-1	5-15	40-60	35-55	30-45	20-40	25-35	5-15
	6-26	Very gravelly clay loam, extremely gravelly clay loam.	GP-GC, GC	A-2	0-30	20-50	15-45	15-40	10-35	35-45	15-20
	26-36	Extremely gravelly silty clay, extremely gravelly clay, very gravelly clay.	GC	A-2, A-7	0-30	20-50	15-45	15-45	15-45	45-55	20-30
	36	Weathered bedrock	---	---	---	---	---	---	---	---	---
70A---------- Hershal	0-16	Silt loam--------	ML	A-4	0	100	85-100	85-100	80-90	25-30	NP-5
	16-24	Very fine sandy loam, silt loam.	ML	A-4	0	100	85-100	85-95	50-90	25-30	NP-5
	24-60	Very gravelly sand, very gravelly loamy sand, gravelly sand.	GP-GM, SP-SM, GP, SP	A-1	0-25	35-75	25-70	15-50	0-10	---	NP
71B, 71C--------- Hibbard	0-9	Silt loam--------	CL, CL-ML	A-4	0	100	100	90-100	80-90	25-30	5-10
	9-28	Clay, silty clay	CH, MH	A-7	0-10	90-100	80-100	80-100	70-85	55-65	25-35
	28-34	Silty clay loam, clay loam.	CL	A-7	0	100	100	95-100	90-100	40-50	15-25
	34-60	Indurated material.	---	---	---	---	---	---	---	---	---
72C---------- Hibbard	0-9	Gravelly silty clay loam.	CL	A-6, A-7	0-10	70-85	60-75	60-75	55-70	35-45	15-20
	9-28	Clay, silty clay	CH, MH	A-7	0-10	90-100	80-100	80-100	70-85	55-65	25-35
	28-34	Silty clay loam, clay loam.	CL	A-7	0	100	100	95-100	90-100	40-50	15-25
	34-60	Indurated material.	---	---	---	---	---	---	---	---	---
73B*:											
Hibbard---------	0-9	Gravelly silty clay loam.	CL	A-6, A-7	0-10	70-85	60-75	60-75	55-70	35-45	15-20
	9-28	Clay, silty clay	CH, MH	A-7	0-10	90-100	80-100	80-100	70-85	55-65	25-35
	28-34	Silty clay loam, clay loam.	CL	A-7	0	100	100	95-100	90-100	40-50	15-25
	34-60	Indurated material.	---	---	---	---	---	---	---	---	---
Rockly----------	0-3	Very cobbly loam	GM	A-4, A-2	20-50	50-70	45-65	40-60	30-50	25-35	5-10
	3-9	Very cobbly loam, very gravelly loam.	GM, GC	A-4, A-2	20-50	45-70	40-65	35-60	25-50	25-40	5-15
	9-60	Indurated material.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
74D*, 74E*:											
Highhorn--------	0-9	Very gravelly silt loam.	GM	A-4, A-2	0-15	40-60	30-55	25-55	25-50	25-35	NP-5
	9-32	Very gravelly silty clay loam, very gravelly clay loam.	GC	A-6, A-7, A-2	0-15	40-60	30-55	30-55	25-50	35-45	15-20
	32-43	Extremely gravelly silty clay loam, extremely gravelly clay loam.	GC, GP-GC	A-2	0-30	20-40	15-35	15-35	10-30	35-45	15-20
	43	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Huntrock--------	0-12	Very gravelly silt loam.	GM	A-1, A-2, A-4	0-15	40-60	30-50	25-50	20-45	25-35	NP-10
	12-25	Extremely gravelly clay loam, extremely gravelly silty clay loam.	GC	A-2	10-30	25-45	20-35	20-35	15-30	35-45	15-20
	25-35	Extremely cobbly clay loam, extremely cobbly silty clay loam.	GC	A-2, A-6, A-7	50-65	40-60	35-55	30-55	25-50	35-45	15-20
	35	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
75D---------- Hudspeth	0-7	Very stony clay loam.	CL, GC	A-6	35-60	60-85	55-80	50-75	45-65	35-40	15-20
	7-34	Very gravelly clay, very gravelly silty clay, extremely gravelly clay.	GC, GM	A-2	15-30	30-45	25-40	20-40	20-35	55-65	25-35
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
76D*, 76E*:											
Hudspeth--------	0-7	Very stony clay loam.	CL, GC	A-6	35-60	60-85	55-80	50-75	45-65	35-40	15-20
	7-34	Very gravelly clay, very gravelly silty clay, extremely gravelly clay.	GC, GM	A-2	15-30	30-45	25-40	20-40	20-35	55-65	25-35
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
76D*, 76E*:											
Morningstar-----	0-6	Extremely gravelly loam.	GP-GC, GC	A-2	5-15	25-35	20-30	15-25	10-25	25-35	5-15
	6-23	Extremely gravelly clay loam, very gravelly clay loam.	GP-GC, GC	A-2	5-30	20-40	15-35	15-30	10-25	35-40	15-20
	23-46	Extremely gravelly sandy clay loam, very gravelly sandy clay loam, extremely gravelly loam.	GP-GC, GC	A-2	5-30	20-40	15-35	10-25	5-20	30-40	10-20
	46-60	Extremely gravelly sandy clay loam, very gravelly loam, extremely gravelly sandy loam.	GP-GC, GM-GC, GC	A-2	5-30	20-40	15-35	10-30	5-25	25-30	5-10
77F*:											
Huntrock--------	0-12	Very gravelly silt loam.	GM	A-1, A-2, A-4	0-15	40-60	30-50	25-50	20-45	25-35	NP-10
	12-25	Extremely gravelly clay loam, extremely gravelly silty clay loam.	GC	A-2	10-30	25-45	20-35	20-35	15-30	35-45	15-20
	25-35	Extremely cobbly clay loam, extremely cobbly silty clay loam.	GC	A-2, A-6, A-7	50-65	40-60	35-55	30-55	25-50	35-45	15-20
	35	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
77F*:											
Highhorn--------	0-9	Very gravelly silt loam.	GM	A-4, A-2	0-15	40-60	30-55	25-55	25-50	25-35	NP-5
	9-32	Very gravelly silty clay loam, very gravelly clay loam.	GC	A-6, A-7, A-2	0-15	40-60	30-55	30-55	25-50	35-45	15-20
	32-43	Extremely gravelly silty clay loam, extremely gravelly clay loam.	GC, GP-GC	A-2	0-30	20-40	15-35	15-35	10-30	35-45	15-20
	43	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
78E*:											
Hyall----------	0-3	Very gravelly clay loam.	GC	A-6, A-2	10-15	35-65	30-60	25-55	20-45	30-40	10-20
	3-26	Very gravelly clay, extremely gravelly clay.	GC, SC	A-7, A-2	15-25	25-70	15-60	15-55	15-50	40-50	20-30
	26-60	Extremely gravelly loamy sand, extremely gravelly sandy loam, extremely gravelly clay loam.	GM, GP-GM	A-2, A-1	15-40	20-35	10-30	10-25	5-20	25-35	NP-10
Badland---------	0-60	Weathered bedrock	---	---	---	---	---	---	---	---	---
79D*, 80E*:											
Hyall----------	0-3	Very gravelly clay loam.	GC	A-6, A-2	10-15	35-65	30-60	25-55	20-45	30-40	10-20
	3-26	Very gravelly clay, extremely gravelly clay.	GC, SC	A-7, A-2	15-25	25-70	15-60	15-55	15-50	40-50	20-30
	26-60	Extremely gravelly loamy sand, extremely gravelly sandy loam, extremely gravelly clay loam.	GM, GP-GM	A-2, A-1	15-40	20-35	10-30	10-25	5-20	25-35	NP-10
Simas----------	0-14	Gravelly silty clay loam.	SM, GM, ML, CL	A-2, A-4	0	55-80	50-75	40-75	30-70	30-40	5-15
	14-48	Clay, gravelly clay, cobbly clay.	CH, GC	A-7	0-45	60-100	55-100	50-100	40-95	50-70	25-40
	48-60	Gravelly clay, cobbly clay, gravelly clay loam.	CH, GC, SC	A-7	0-40	65-100	55-85	55-80	45-80	50-70	25-40

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
81C---------- Immig	0-7	Silt loam--------	ML, CL-ML	A-4	0-10	85-100	75-95	70-90	65-80	25-35	5-10
	7-12	Very cobbly silty clay loam.	CL, GC, SC	A-6, A-7	30-65	60-80	50-75	50-70	45-65	35-45	15-20
	12-26	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-7	55-80	60-90	50-85	50-80	45-75	45-60	20-35
	26	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
82C---------- Immig	0-7	Very cobbly silt loam.	ML, CL-ML	A-4	30-65	80-95	70-90	65-85	55-70	25-35	5-10
	7-12	Very cobbly silty clay loam.	CL, GC, SC	A-6, A-7	30-65	60-80	50-75	50-70	45-65	35-45	15-20
	12-26	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-7	55-80	60-90	50-85	50-80	45-75	45-60	20-35
	26	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
83D, 83E, 83F---- Inkler	0-12	Very gravelly loam.	ML, GM, SM	A-4, A-2	0-5	50-85	45-80	40-75	30-60	30-40	NP-5
	12-23	Very gravelly loam, extremely gravelly loam, very gravelly silt loam.	GM	A-4, A-2, A-1	0-40	35-75	30-70	25-65	20-50	30-40	NP-5
	23-62	Extremely cobbly loam, extremely gravelly loam, very gravelly sandy loam.	GM	A-2	5-50	30-50	25-45	20-40	15-35	30-40	5-10
84D---------- Jett	0-24	Silt loam--------	ML	A-4	0	100	100	90-100	85-95	30-40	5-10
	24-60	Silt loam--------	ML	A-4	0	100	100	90-100	85-90	30-35	5-10
85D---------- Keating	0-8	Silt loam--------	CL-ML, ML	A-4	0	100	100	90-100	70-90	20-30	NP-10
	8-12	Clay loam, silty clay loam.	CL	A-6	0	100	100	90-100	70-90	30-40	10-20
	12-22	Clay loam, clay, silty clay.	CL, CH	A-7	0-5	90-100	85-100	80-100	65-90	40-55	20-30
	22	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
86D, 86E--------- Kilmerque	0-5	Loam----------	CL-ML, ML, CL	A-4	0	95-100	85-100	70-90	55-70	20-30	NP-10
	5-16	Loam, sandy loam	CL-ML, SC-SM, ML, SM	A-4, A-2	0	95-100	85-100	55-85	25-65	20-30	NP-10
	16-26	Gravelly sandy loam, cobbly sandy loam.	SM	A-2, A-1	0-25	65-80	55-75	35-50	20-30	10-20	NP-5
	26	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
87D, 87E--------- Klicker	0-5	Stony silt loam	CL, CL-ML	A-4, A-6	0-10	80-95	70-90	55-85	50-80	25-35	5-15
	5-13	Very cobbly silt loam, cobbly silt loam, very gravelly silt loam.	CL, GC	A-6	10-25	55-80	45-65	40-60	40-60	25-35	10-15
	13-36	Extremely cobbly clay loam, very cobbly silty clay loam.	CL, SC, GC	A-6, A-2	35-65	60-85	40-80	35-80	30-60	30-40	10-20
	36	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
88D*:											
Klicker---------	0-5	Stony silt loam	CL, CL-ML	A-4, A-6	0-10	80-95	70-90	55-85	50-80	25-35	5-15
	5-13	Very cobbly silt loam, cobbly silt loam, very gravelly silt loam.	CL, GC	A-6	10-25	55-80	45-65	40-60	40-60	25-35	10-15
	13-36	Extremely cobbly clay loam, very cobbly silty clay loam.	CL, SC, GC	A-6, A-2	35-65	60-85	40-80	35-80	30-60	30-40	10-20
	36	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Anatone---------	0-8	Extremely stony loam.	GM	A-2, A-4	50-70	50-70	40-60	35-55	25-50	25-35	NP-10
	8-16	Very gravelly silt loam, very cobbly loam, extremely cobbly loam.	GM, ML	A-2, A-4, A-1	20-70	40-70	35-55	25-55	20-55	25-35	NP-10
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
89D*, 89E*:											
Klicker---------	0-5	Stony silt loam	CL, CL-ML	A-4, A-6	0-10	80-95	70-90	55-85	50-80	25-35	5-15
	5-13	Very cobbly silt loam, cobbly silt loam, very gravelly silt loam.	CL, GC	A-6	10-25	55-80	45-65	40-60	40-60	25-35	10-15
	13-36	Extremely cobbly clay loam, very cobbly silty clay loam.	CL, SC, GC	A-6, A-2	35-65	60-85	40-80	35-80	30-60	30-40	10-20
	36	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
89D*, 89E*:											
Fivebit---------	0-3	Extremely stony loam.	GM-GC, GC, GM	A-2	45-65	50-60	40-50	35-45	25-35	20-30	NP-10
	3-12	Very gravelly loam, very gravelly silty clay loam, extremely gravelly clay loam.	GM-GC, GC	A-2	15-35	40-50	35-45	30-40	25-35	25-35	5-15
	12-18	Extremely gravelly clay loam, extremely gravelly silty clay loam, extremely gravelly loam.	GC	A-2	15-35	30-40	25-35	20-30	15-25	30-40	10-20
	18	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
90B, 90C--------- Ladd	0-16	Loam----------	ML	A-4	0	100	100	85-95	60-90	20-30	NP-5
	16-65	Clay loam, loam, sandy clay loam.	CL-ML, CL, SC-SM, SC	A-4, A-6	0	85-100	85-100	70-100	40-80	25-40	5-15
91A---------- La Grande	0-39	Silt loam--------	ML	A-5	0	100	100	90-100	70-90	40-50	5-10
	39-60	Stratified loam to very gravelly sand.	SM, GM	A-1, A-2, A-4	0	55-95	50-90	25-75	10-50	---	NP
92A---------- Langrell	0-7	Gravelly loam----	GM-GC, SC-SM, GM, SM	A-4	0-5	60-85	55-75	50-65	35-50	20-30	NP-10
	7-20	Gravelly loam, cobbly loam.	CL-ML, ML, GM-GC, GM	A-4	5-30	60-85	55-80	50-70	35-60	20-30	NP-10
	20-34	Very cobbly loam, extremely cobbly loam, very gravelly loam.	GM-GC, GM, GC	A-2, A-1	25-55	30-60	20-55	15-50	15-35	20-30	NP-10
	34-60	Very stony sandy loam, extremely cobbly sandy loam, extremely gravelly sandy loam.	GM, GW-GM, GP-GM	A-1	40-55	25-55	15-45	10-30	5-15	20-30	NP-5
93A---------- Langrell	0-7	Very cobbly loam	CL-ML, ML, GM-GC	A-4	25-35	65-85	55-80	45-75	35-60	20-30	NP-10
	7-20	Gravelly loam, cobbly loam, very cobbly loam.	CL-ML, ML, GM-GC, GM	A-4	5-35	60-85	55-80	50-70	35-60	20-30	NP-10
	20-34	Very cobbly loam, extremely cobbly loam.	GM-GC, GM, GC	A-2, A-1	35-65	30-60	20-55	15-50	15-35	20-30	NP-10
	34-60	Very stony sandy loam, extremely cobbly sandy loam.	GM, GW-GM, GP-GM	A-1	40-70	25-55	15-45	10-30	5-15	20-30	NP-5

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
94C---------- Legler	0-9	Silt loam--------	CL-ML, ML	A-4	0	100	100	90-100	70-90	25-35	5-10
	9-19	Loam----------	CL-ML, ML	A-4	0	100	100	85-95	60-75	25-35	5-10
	19-49	Silty clay loam, silt loam.	CL-ML, CL	A-4, A-6	0	95-100	90-100	80-100	70-95	25-40	5-15
	49-60	Silty clay loam, silty clay, silt loam.	CL	A-6, A-7	0	95-100	90-100	80-100	70-95	35-50	15-25
95C---------- Legler	0-7	Gravelly loam----	ML, GM	A-4	0	65-85	60-80	50-75	35-60	25-30	NP-5
	7-10	Loam----------	CL-ML, ML	A-4	0	100	100	85-95	60-75	25-35	5-10
	10-39	Silty clay loam, silt loam.	CL-ML, CL	A-4, A-6	0	95-100	90-100	80-100	70-95	25-40	5-15
	39-60	Silty clay loam, silty clay, silt loam.	CL	A-6, A-7	0	95-100	90-100	80-100	70-95	35-50	15-25
96E, 96F--------- Lickskillet	0-6	Very gravelly sandy loam.	SM, GM	A-2	0-20	25-60	20-55	15-40	5-25	20-30	NP-5
	6-10	Very gravelly sandy clay loam, very gravelly clay loam.	SM, GM	A-2	0-30	25-60	20-55	15-50	5-30	25-35	NP-5
	10-18	Extremely cobbly sandy clay loam, very cobbly sandy clay loam, very cobbly clay loam.	SM, GM	A-4, A-2	20-65	25-70	20-65	15-60	10-45	25-35	NP-5
	18	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
97E*:											
Lickskillet-----	0-5	Very cobbly loam	SC-SM, GM-GC	A-4, A-2	20-50	50-75	45-70	40-65	30-50	25-30	5-10
	5-17	Very gravelly clay loam, very gravelly loam, very cobbly loam.	GC, GM	A-2, A-6, A-7	5-50	40-65	30-50	25-50	20-40	35-45	10-20
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
98C---------- Lookout	0-9	Silt loam--------	ML	A-4	0-15	95-100	95-100	80-100	60-90	25-35	NP-5
	9-24	Cobbly clay, clay, silty clay.	CH, MH	A-7	0-20	95-100	95-100	85-100	70-95	55-75	25-45
	24-45	Indurated material.	---	---	---	---	---	---	---	---	---
	45	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
99C---------- Lookout	0-15	Very cobbly silt loam.	ML, GM	A-4	30-55	55-85	50-80	45-75	35-70	30-40	5-10
	15-26	Cobbly clay, clay, silty clay.	CH	A-7	5-30	85-100	80-95	70-95	60-90	50-60	30-40
	26-37	Indurated material.	---	---	---	---	---	---	---	---	---
	37	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
100D---------- Lostbasin	0-5	Very channery loam.	GM, GM-GC	A-2	5-15	40-60	35-55	30-50	25-35	25-35	5-10
	5-28	Extremely channery clay loam, very channery loam.	GM	A-2	0-15	20-50	15-45	15-40	10-30	35-45	10-15
	28	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
101E*:											
Lostbasin-------	0-5	Very channery loam.	GM, GM-GC	A-2	5-15	40-60	35-55	30-50	25-35	25-35	5-10
	5-28	Extremely channery clay loam, very channery loam.	GM	A-2	0-15	20-50	15-45	15-40	10-30	35-45	10-15
	28	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Xerorthents-----	0-14	Extremely channery loam.	GM	A-2	0-35	30-45	25-40	20-35	15-30	25-35	NP-5
	14-29	Variable---------	---	---	---	---	---	---	---	---	---
	29	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
102C, 103D, 103E, 103F---------- Lovline	0-20	Channery loam----	SM, SC-SM	A-4	0	75-85	65-75	55-65	40-50	25-35	5-10
	20-38	Loam, channery loam, channery clay loam.	SC, CL, SC-SM, CL-ML	A-4, A-6	0	75-100	65-100	55-95	40-75	25-40	5-15
	38	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
104D---------- Marack	0-12	Silt loam--------	CL-ML	A-4	0	90-100	75-100	70-100	65-90	20-25	5-10
	12-25	Clay, silty clay	CL, CH	A-7	0	90-100	85-100	80-95	70-85	45-55	20-30
	25-34	Clay loam, silty clay loam.	CL	A-6, A-7	0	90-100	75-100	75-95	60-80	35-45	15-20
	34-47	Very gravelly loam, gravelly sandy loam, silt loam.	CL-ML, SC-SM, GM-GC	A-4, A-2	0-15	50-100	45-100	35-90	20-65	20-25	5-10
	47	Weathered bedrock	---	---	---	---	---	---	---	---	---
105C---------- Marack	0-12	Gravelly silty clay loam.	CL, GC, SC	A-6	0	50-80	45-75	40-70	35-65	25-35	10-15
	12-25	Clay, silty clay	CL, CH	A-7	0	90-100	85-100	80-95	70-85	45-55	20-30
	25-34	Clay loam, silty clay loam.	CL	A-6, A-7	0	90-100	75-100	75-95	60-80	35-45	15-20
	34-47	Very gravelly loam, gravelly sandy loam, silt loam.	CL-ML, SC-SM, GM-GC	A-4, A-2	0-15	50-100	45-100	35-90	20-65	20-25	5-10
	47	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
106D---------- Marack	0-12	Very gravelly silty clay loam.	CL, GC, SC	A-6	0	50-80	45-75	40-70	35-65	25-35	10-15
	12-25	Clay, silty clay	CL, CH	A-7	0	90-100	85-100	80-95	70-85	45-55	20-30
	25-34	Clay loam, silty clay loam.	CL	A-6, A-7	0	90-100	75-100	75-95	60-80	35-45	15-20
	34-47	Very gravelly loam, gravelly sandy loam, silt loam.	CL-ML, SC-SM, GM-GC	A-4, A-2	0-15	50-100	45-100	35-90	20-65	20-25	5-10
	47	Weathered bedrock	---	---	---	---	---	---	---	---	---
107C*:											
Marack----------	0-12	Gravelly silty clay loam.	CL, GC, SC	A-6	0	50-80	45-75	40-70	35-65	25-35	10-15
	12-25	Clay, silty clay	CL, CH	A-7	0	90-100	85-100	80-95	70-85	45-55	20-30
	25-34	Clay loam, silty clay loam.	CL	A-6, A-7	0	90-100	75-100	75-95	60-80	35-45	15-20
	34-47	Very gravelly loam, gravelly sandy loam, silt loam.	CL-ML, SC-SM, GM-GC	A-4, A-2	0-15	50-100	45-100	35-90	20-65	20-25	5-10
	47	Weathered bedrock	---	---	---	---	---	---	---	---	---
Marack----------	0-12	Silt loam--------	CL-ML	A-4	0	90-100	75-100	70-100	65-90	20-25	5-10
	12-25	Clay, silty clay	CL, CH	A-7	0	90-100	85-100	80-95	70-85	45-55	20-30
	25-34	Clay loam, silty clay loam.	CL	A-6, A-7	0	90-100	75-100	75-95	60-80	35-45	15-20
	34-47	Very gravelly loam, gravelly sandy loam, silt loam.	CL-ML, SC-SM, GM-GC	A-4, A-2	0-15	50-100	45-100	35-90	20-65	20-25	5-10
	47	Weathered bedrock	---	---	---	---	---	---	---	---	---
108D*:											
Marack----------	0-12	Very gravelly silty clay loam.	CL, GC, SC	A-6	0	50-80	45-75	40-70	35-65	25-35	10-15
	12-25	Clay, silty clay	CL, CH	A-7	0	90-100	85-100	80-95	70-85	45-55	20-30
	25-34	Clay loam, silty clay loam.	CL	A-6, A-7	0	90-100	75-100	75-95	60-80	35-45	15-20
	34-47	Very gravelly loam, gravelly sandy loam, silt loam.	CL-ML, SC-SM, GM-GC	A-4, A-2	0-15	50-100	45-100	35-90	20-65	20-25	5-10
	47	Weathered bedrock	---	---	---	---	---	---	---	---	---
Badland---------	0-60	Weathered bedrock	---	---	0	---	---	---	---	---	---
109C---------- McEwen	0-12	Silt loam--------	CL-ML, ML	A-4	0	100	100	90-100	80-90	25-35	5-10
	12-43	Clay loam, silty clay loam.	ML	A-6	0	95-100	90-100	80-100	65-85	35-40	10-15
	43-60	Very gravelly loam, extremely gravelly loam, very gravelly sandy loam.	GM-GC, GM	A-2	0-30	35-45	25-40	20-40	15-30	25-35	5-10

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
110D---------- McEwen	0-12	Gravelly silt loam.	CL-ML, ML	A-4	0-5	75-90	70-85	65-80	50-70	25-35	5-10
	12-43	Clay loam, silty clay loam.	ML	A-6	0	95-100	90-100	80-100	65-85	35-40	10-15
	43-60	Very gravelly loam, extremely gravelly loam, very gravelly sandy loam.	GM-GC, GM	A-2	0-30	35-45	25-40	20-40	15-30	25-35	5-10
111D*, 111E*:											
McGarr----------	0-4	Very stony loam	ML	A-4	50-60	90-100	75-95	70-95	60-85	30-40	NP-10
	4-29	Gravelly loam, gravelly clay loam, gravelly silty clay loam.	CL, SC	A-6	0-20	80-100	75-85	65-85	45-80	30-40	10-20
	29	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Kahler----------	0-5	Loam----------	ML	A-4	0-10	90-100	85-95	75-95	60-85	25-35	NP-10
	5-13	Silt loam, silty clay loam, clay loam.	ML	A-4, A-6, A-7	0-10	90-95	85-95	75-95	60-85	30-45	5-15
	13-60	Loam, gravelly loam, gravelly silty clay loam.	ML, GM, SM	A-4, A-6, A-7	0-30	55-85	50-80	45-75	35-70	30-50	5-20
112D---------- Morningstar	0-6	Extremely gravelly loam.	GP-GC, GC	A-2	5-15	25-35	20-30	15-25	10-25	25-35	5-15
	6-23	Extremely gravelly clay loam, very gravelly clay loam.	GP-GC, GC	A-2	5-30	20-40	15-35	15-30	10-25	35-40	15-20
	23-46	Extremely gravelly sandy clay loam, very gravelly sandy clay loam, extremely gravelly loam.	GP-GC, GC	A-2	5-30	20-40	15-35	10-25	5-20	30-40	10-20
	46-60	Extremely gravelly sandy clay loam, very gravelly loam, extremely gravelly sandy loam.	GP-GC, GM-GC, GC	A-2	5-30	20-40	15-35	10-30	5-25	25-30	5-10
113D, 113E------- Nagle	0-18	Silt loam--------	CL-ML, ML	A-4	0	100	100	90-100	70-90	25-35	5-10
	18-34	Silty clay loam	ML	A-6	0	100	100	95-100	85-95	35-40	10-15
	34-60	Gravelly silty clay loam, gravelly clay loam.	ML, GM, SM	A-6	0	55-80	50-75	50-75	40-70	35-40	10-15
114C, 115D, 116D- North Powder	0-12	Loam----------	ML	A-4	0	100	85-100	80-95	60-75	20-30	NP-5
	12-22	Clay loam, loam, sandy clay loam.	CL, CL-ML, SC-SM, SC	A-6, A-4	0	100	85-100	75-100	45-80	20-40	5-15
	22-28	Sandy loam, loam, clay loam.	CL, CL-ML, SC-SM, SC	A-6, A-4, A-2	0	80-100	75-100	50-90	30-75	20-35	5-15
	28	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
117D*:											
North Powder----	0-12	Loam----------	ML	A-4	0	100	85-100	80-95	60-75	20-30	NP-5
	12-22	Clay loam, loam, sandy clay loam.	CL, CL-ML, SC-SM, SC	A-6, A-4	0	100	85-100	75-100	45-80	20-40	5-15
	22-28	Sandy loam, loam, clay loam.	CL, CL-ML, SC-SM, SC	A-6, A-4, A-2	0	80-100	75-100	50-90	30-75	20-35	5-15
	28	Weathered bedrock	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
118C, 119D------- Oxman	0-4	Silt loam--------	ML	A-4	0	100	100	90-95	70-90	30-40	5-10
	4-11	Silt loam, silty clay loam.	ML, CL	A-4, A-6	0	100	100	80-95	50-95	30-40	5-15
	11-29	Silt loam, very fine sandy loam.	ML	A-4	0	90-100	80-100	70-90	60-80	30-40	5-10
	29	Weathered bedrock	---	---	---	---	---	---	---	---	---
120D*:											
Oxman----------	0-4	Silt loam--------	ML	A-4	0	100	100	90-95	70-90	30-40	5-10
	4-11	Silt loam, silty clay loam.	ML, CL	A-4, A-6	0	100	100	80-95	50-95	30-40	5-15
	11-29	Silt loam, very fine sandy loam.	ML	A-4	0	90-100	80-100	70-90	60-80	30-40	5-10
	29	Weathered bedrock	---	---	---	---	---	---	---	---	---
Xeric Torriorthents--	0-3	Silt loam--------	ML	A-4	0-5	90-100	85-100	75-95	60-90	25-35	NP-5
	3-7	Silt loam, silty clay loam, clay loam.	ML	A-4	0-5	90-100	85-100	75-95	60-90	30-40	5-10
	7	Weathered bedrock	---	---	---	---	---	---	---	---	---
121E, 121F------- Piersonte	0-15	Very channery loam.	GM, GC, GM-GC	A-2, A-4, A-1	5-15	40-60	35-55	30-50	20-40	20-30	NP-10
	15-60	Extremely channery loam, extremely channery clay loam, very channery sandy clay loam.	GM, SM, GP-GM, SP-SM	A-2, A-4, A-1	0-20	40-70	20-50	15-50	10-40	25-35	NP-10
122C, 123D, 124D- Poall	0-9	Very fine sandy loam.	ML	A-4	0	100	100	85-95	50-65	20-30	NP-5
	9-25	Clay, silty clay loam.	CH	A-7	0	100	100	90-100	75-95	50-70	25-40
	25-60	Very fine sandy loam, fine sandy loam, silt loam.	ML, SM	A-4	0	100	100	85-100	40-90	20-35	NP-10
125D*:											
Poall----------	0-9	Very fine sandy loam.	ML	A-4	0	100	100	85-95	50-65	20-30	NP-5
	9-25	Clay, silty clay loam.	CH	A-7	0	100	100	90-100	75-95	50-70	25-40
	25-60	Very fine sandy loam, fine sandy loam, silt loam.	ML, SM	A-4	0	100	100	85-100	40-90	20-35	NP-10

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
125D*:											
Xeric Torriorthents--	0-3	Silt loam--------	ML	A-4	0-5	90-100	85-100	75-95	60-90	25-35	NP-5
	3-7	Silt loam, silty clay loam, clay loam.	ML	A-4	0-5	90-100	85-100	75-95	60-90	30-40	5-10
	7	Weathered bedrock	---	---	---	---	---	---	---	---	---
126A, 127A------- Powval	0-13	Silt loam--------	ML	A-4	0	100	100	95-100	80-90	20-30	NP-5
	13-41	Silt loam, very fine sandy loam.	ML	A-4	0	100	100	95-100	85-95	20-30	NP-5
	41-60	Silt loam, very fine sandy loam.	ML	A-4	0	100	90-100	90-100	65-90	20-30	NP-5
128B---------- Pritchard	0-12	Silty clay loam	CL	A-6, A-7	0-5	90-100	85-100	80-100	75-90	35-45	15-20
	12-52	Clay, silty clay	CH	A-7	0	100	100	90-100	75-90	55-65	25-35
	52-68	Clay loam, silty clay loam.	CL	A-6, A-7	0-15	85-100	75-100	70-100	60-85	35-45	15-20
129B---------- Rastus	0-4	Very gravelly loam.	GC	A-2	0-15	40-60	30-50	25-45	20-35	30-35	10-15
	4-12	Clay loam, gravelly clay loam.	GC, SC, CL	A-6, A-7	0	60-100	55-100	50-100	40-80	35-45	15-20
	12-24	Clay, gravelly clay.	CH	A-7	0	60-100	55-100	50-100	50-90	55-65	30-40
	24-37	Indurated material.	---	---	---	---	---	---	---	---	---
	37-60	Extremely gravelly sandy loam, very gravelly loamy sand.	GP-GM	A-1	15-30	25-45	15-45	15-30	5-15	15-25	NP-5
130E, 130F------- Redcliff	0-8	Gravelly loam----	GM-GC, CL-ML	A-4	0-10	60-85	55-75	45-70	35-60	20-30	5-10
	8-22	Gravelly sandy clay loam, very gravelly sandy clay loam.	GC, GM, SM, SC	A-2, A-6, A-7	0-30	40-70	35-65	30-60	15-40	35-45	10-20
	22-31	Very gravelly sandy loam, very gravelly sandy clay loam.	GC, GM-GC, SC, SC-SM	A-2, A-1	0-30	40-65	35-60	20-55	15-35	20-35	5-15
	31	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
131C*:											
Ridley----------	0-9	Silt loam--------	ML	A-4	0	100	100	90-100	85-95	25-35	NP-10
	9-24	Silty clay loam, silt loam.	ML, CL	A-6, A-7	0	100	100	90-100	85-95	35-45	10-20
	24-42	Clay, silty clay	CH	A-7	0	100	100	90-100	85-95	55-65	25-35
	42-68	Silty clay loam	CL	A-6, A-7	0	85-100	75-100	70-100	65-90	35-45	15-20
Keating---------	0-8	Silt loam--------	CL-ML, ML	A-4	0	100	100	90-100	70-90	20-30	NP-10
	8-12	Clay loam, silty clay loam.	CL	A-6	0	100	100	90-100	70-90	30-40	10-20
	12-22	Clay loam, clay, silty clay.	CL, CH	A-7	0-5	90-100	85-100	80-100	65-90	40-55	20-30
	22	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
132A*---------- Riverwash	0-6	Extremely gravelly sand.	GP, GW	A-1	0-25	10-40	10-35	5-25	0-5	---	NP
	6-60	Stratified gravelly sand to extremely gravelly coarse sand.	GP, SP, GW, SW	A-1	0-25	25-55	25-50	10-30	0-5	---	NP
133C*:											
Robinette-------	0-13	Silt loam--------	ML	A-4	0	90-100	85-100	85-95	75-85	25-35	NP-10
	13-44	Silty clay loam, clay loam.	CL	A-6	0	85-100	75-100	70-95	55-85	35-40	15-20
	44-53	Extremely cobbly clay.	GC	A-2-7	55-75	30-60	25-50	25-45	20-45	40-65	20-45
	53	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Gwinly----------	0-3	Very cobbly silt loam.	ML	A-4	25-45	75-95	70-90	65-90	60-85	25-30	NP-5
	3-8	Very cobbly silty clay loam.	GC	A-6, A-7	40-70	60-80	50-75	50-70	45-65	35-40	15-20
	8-17	Very cobbly clay, extremely cobbly clay.	CH, GC, SC	A-7	45-75	55-80	50-75	45-74	40-70	50-60	25-35
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
134F*:											
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Lostbasin-------	0-5	Very channery loam.	GM, GM-GC	A-2	5-15	40-60	35-55	30-50	25-35	25-35	5-10
	5-28	Extremely channery clay loam, very channery loam.	GM	A-2	0-15	20-50	15-45	15-40	10-30	35-45	10-15
	28	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Xerorthents-----	0-14	Extremely channery loam.	GM	A-2	0-35	30-45	25-40	20-35	15-30	25-35	NP-5
	14-29	Variable---------	---	---	---	---	---	---	---	---	---
	29	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
135F*:											
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Ruckles---------	0-5	Very stony clay loam.	GC, CL, SC	A-6, A-7	25-55	60-80	50-75	40-75	35-60	35-45	15-25
	5-16	Very stony clay, extremely stony clay, extremely stony sandy clay.	CH, GC, SC	A-7, A-2	40-65	25-70	25-70	25-60	20-55	60-70	35-45
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
136F*:											
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
136F*:											
Ruclick---------	0-2	Very cobbly silt loam.	GM, ML, GM-GC, CL-ML	A-4	20-55	60-70	55-65	50-65	40-60	25-35	5-10
	2-12	Very gravelly clay loam, very cobbly silty clay loam.	GC, CL	A-6	20-55	60-70	55-65	50-65	40-60	30-40	10-20
	12-34	Very cobbly clay, extremely cobbly clay, very cobbly silty clay.	GC, CL	A-7, A-2	30-60	45-80	40-75	35-75	30-70	40-50	15-25
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
137F*:											
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Snell----------	0-4	Very cobbly silt loam.	CL-ML, ML, CL	A-4	20-50	80-100	70-100	65-95	50-85	25-35	5-10
	4-9	Very cobbly silty clay loam.	ML, GM, SM, GC	A-6, A-2	20-50	45-80	35-70	30-70	30-65	35-40	10-15
	9-31	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-2, A-7	40-60	50-100	45-100	35-95	30-90	40-55	20-35
	31	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
138F*:											
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Snellby---------	0-6	Stony silt loam	ML	A-4	15-45	85-95	80-90	75-85	55-80	30-40	5-10
	6-10	Stony silty clay loam.	ML	A-6, A-7	15-45	85-95	80-90	75-90	70-85	35-45	10-15
	10-18	Very stony clay, very cobbly clay.	CL	A-7	45-65	75-95	70-90	65-90	55-85	40-50	20-25
	18-24	Very stony silty clay loam, very cobbly silty clay loam.	ML	A-6, A-7	45-65	75-95	70-90	65-90	60-85	35-45	10-15
	24	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
139F*:											
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Xeric Torriorthents--	0-16	Extremely channery loam.	GM	A-2	0-35	30-45	25-40	20-35	15-30	25-35	NP-5
	16-34	Variable---------	---	---	---	---	---	---	---	---	---
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
139F*:											
Darkcanyon------	0-7	Extremely channery loam.	GM-GC, GM	A-2	5-25	25-40	15-35	15-30	10-25	25-35	5-10
	7-30	Extremely channery clay loam, extremely channery loam.	GM	A-2	0-15	25-35	15-30	15-30	10-25	35-45	10-15
	30	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
140C*:											
Rockly----------	0-2	Very cobbly loam	GM	A-2, A-4	20-30	50-75	45-70	35-65	25-50	25-30	NP-5
	2-8	Very cobbly clay loam, extremely gravelly loam, extremely cobbly clay loam.	GM, GC	A-2, A-6, A-4	30-55	30-65	25-60	25-50	20-40	30-40	5-15
	8	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Gwinly----------	0-3	Very cobbly silt loam.	ML	A-4	25-45	75-95	70-90	65-90	60-85	25-30	NP-5
	3-8	Very cobbly silty clay loam.	GC	A-6, A-7	40-70	60-80	50-75	50-70	45-65	35-40	15-20
	8-17	Very cobbly clay, extremely cobbly clay.	CH, GC, SC	A-7	45-75	55-80	50-75	45-74	40-70	50-60	25-35
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
141D*, 141E*:											
Roostercomb-----	0-5	Extremely gravelly clay loam.	GC	A-2-6	15-30	30-40	25-30	20-30	15-25	35-40	15-20
	5-12	Extremely gravelly clay loam, very gravelly clay loam, extremely gravelly loam.	GC	A-2-6	5-15	30-45	25-40	20-40	15-30	30-40	10-20
	12-25	Extremely gravelly clay, extremely gravelly silty clay.	GC	A-2-7	5-30	30-40	25-35	20-35	20-30	40-55	15-30
	25-36	Extremely cobbly clay, very cobbly clay.	GC	A-2-7, A-7	40-55	45-60	40-55	35-55	30-50	45-55	20-30
	36	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
141D*, 141E*:											
Longbranch------	0-22	Silt loam--------	CL, CL-ML	A-4	0-5	95-100	85-100	80-100	75-90	25-30	5-10
	22-30	Gravelly clay loam, gravelly silty clay loam.	GC, CL, SC	A-6	0-15	65-75	60-70	55-65	45-60	30-40	10-20
	30-45	Very gravelly clay, very cobbly clay, very gravelly silty clay.	GC	A-7	15-55	50-60	45-55	40-50	35-50	45-55	20-30
	45-52	Extremely cobbly clay loam, extremely gravelly clay loam, extremely gravelly loam.	GM-GC, GC, SC	A-4, A-6	40-65	60-75	55-70	50-65	40-50	25-35	5-15
	52	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
142C*, 143D*, 143E*, 143F*:											
Ruckles--------	0-5	Very stony clay loam.	GC, CL, SC	A-6, A-7	25-55	60-80	50-75	40-75	35-60	35-45	15-25
	5-16	Very stony clay, extremely stony clay, extremely stony sandy clay.	CH, GC, SC	A-7, A-2	40-65	25-70	25-70	25-60	20-55	60-70	35-45
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Ruclick--------	0-2	Very cobbly silt loam.	GM, ML, GM-GC, CL-ML	A-4	20-55	60-70	55-65	50-65	40-60	25-35	5-10
	2-12	Very gravelly clay loam, very cobbly silty clay loam.	GC, CL	A-6	20-55	60-70	55-65	50-65	40-60	30-40	10-20
	12-34	Very cobbly clay, extremely cobbly clay, very cobbly silty clay.	GC, CL	A-7, A-2	30-60	45-80	40-75	35-75	30-70	40-50	15-25
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
144E*, 144F*:											
Ruckles---------	0-5	Very stony clay loam.	GC, CL, SC	A-6, A-7	25-55	60-80	50-75	40-75	35-60	35-45	15-25
	5-16	Very stony clay, extremely stony clay, extremely stony sandy clay.	CH, GC, SC	A-7, A-2	40-65	25-70	25-70	25-60	20-55	60-70	35-45
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
144E*, 144F*:											
Ruclick---------	0-2	Very cobbly silt loam.	GM, ML, GM-GC, CL-ML	A-4	20-55	60-70	55-65	50-65	40-60	25-35	5-10
	2-12	Very gravelly clay loam, very cobbly silty clay loam.	GC, CL	A-6	20-55	60-70	55-65	50-65	40-60	30-40	10-20
	12-34	Very cobbly clay, extremely cobbly clay, very cobbly silty clay.	GC, CL	A-7, A-2	30-60	45-80	40-75	35-75	30-70	40-50	15-25
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Snellby---------	0-6	Stony silt loam	ML	A-4	15-45	85-95	80-90	75-85	55-80	30-40	5-10
	6-10	Stony silty clay loam.	ML	A-6, A-7	15-45	85-95	80-90	75-90	70-85	35-45	10-15
	10-18	Very stony clay, very cobbly clay.	CL	A-7	45-65	75-95	70-90	65-90	55-85	40-50	20-25
	18-24	Very stony silty clay loam, very cobbly silty clay loam.	ML	A-6, A-7	45-65	75-95	70-90	65-90	60-85	35-45	10-15
	24	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
145D, 145E------- Ruclick	0-2	Very cobbly silt loam.	GM, ML, GM-GC, CL-ML	A-4	20-55	60-70	55-65	50-65	40-60	25-35	5-10
	2-12	Very gravelly clay loam, very cobbly silty clay loam.	GC, CL	A-6	20-55	60-70	55-65	50-65	40-60	30-40	10-20
	12-34	Very cobbly clay, extremely cobbly clay, very cobbly silty clay.	GC, CL	A-7, A-2	30-60	45-80	40-75	35-75	30-70	40-50	15-25
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
146D*, 146E*:											
Sag----------	0-22	Silt loam--------	ML	A-4	0-5	95-100	90-100	85-95	75-85	25-35	NP-10
	22-40	Silty clay loam, clay loam.	CL	A-6	0-15	85-100	80-100	75-95	65-85	35-40	15-20
	40-58	Extremely cobbly clay, very cobbly clay, extremely cobbly clay loam.	GC	A-2, A-7	45-75	35-65	20-55	20-50	15-45	40-65	20-45
	58	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
146D*, 146E*:											
Snell----------	0-4	Very cobbly silt loam.	CL-ML, ML, CL	A-4	20-50	80-100	70-100	65-95	50-85	25-35	5-10
	4-9	Very cobbly silty clay loam.	ML, GM, SM, GC	A-6, A-2	20-50	45-80	35-70	30-70	30-65	35-40	10-15
	9-31	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-2, A-7	40-60	50-100	45-100	35-95	30-90	40-55	20-35
	31	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
147D, 147E, 147F- Segundo	0-5	Very gravelly loam.	GM	A-4, A-2	0-15	35-75	30-70	25-65	20-50	30-40	5-10
	5-21	Very gravelly loam.	GM	A-4, A-2	0-20	35-70	30-65	25-60	20-50	30-40	5-10
	21-60	Very gravelly sandy loam, extremely gravelly loamy sand.	GM, SM	A-2	0-45	35-65	30-60	20-55	10-35	25-35	NP-5
148F---------- Sinker	0-15	Very channery loam.	GM-GC	A-2, A-1	0-10	45-55	35-50	30-45	20-35	20-30	5-10
	15-32	Extremely channery loam, very channery clay loam.	GC	A-2	0-15	30-55	20-50	20-45	15-35	30-40	10-15
	32-36	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
149D*, 149E*:											
Sinker----------	0-15	Very channery loam.	GM-GC	A-2, A-1	0-10	45-55	35-50	30-45	20-35	20-30	5-10
	15-32	Extremely channery loam, very channery clay loam.	GC	A-2	0-15	30-55	20-50	20-45	15-35	30-40	10-15
	32-36	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Chambeam--------	0-17	Very channery loam.	GM-GC	A-2, A-1	0-15	40-50	30-45	25-40	20-35	20-30	5-10
	17-45	Extremely channery loam, extremely channery clay loam, very channery loam.	GC, GP-GC	A-2	0-15	25-50	15-45	15-40	10-35	30-40	10-15
	45-49	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
150D, 150E, 150F- Sisley	0-8	Very channery loam.	GM	A-2, A-4	0-15	35-60	30-55	25-50	20-40	20-30	NP-5
	8-24	Extremely channery sandy loam, extremely channery silt loam, very channery loam.	GM	A-2, A-4	0-15	30-55	25-50	20-45	15-40	20-30	NP-5
	24	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
151D---------- Skullgulch	0-20	Silty clay loam	ML	A-6	0	90-100	75-90	70-90	65-85	35-40	10-15
	20-24	Clay loam, silty clay loam, loam.	CL-ML, CL	A-4, A-6	0	90-100	75-90	65-90	50-90	25-40	5-15
	24-39	Clay, silty clay	CH	A-7	0	95-100	85-100	80-100	75-95	55-65	30-40
	39-60	Clay loam, silty clay loam.	ML, CL	A-6	0	90-100	75-100	70-95	60-75	35-40	10-15
152F---------- Snaker	0-3	Channery loam----	ML, GM, SM	A-2, A-6, A-7	0-5	55-85	50-80	40-75	30-60	35-45	10-15
	3-16	Very channery loam, extremely channery loam.	GM	A-2	0-5	30-60	20-55	20-45	15-35	35-45	10-15
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
153E*:											
Snaker----------	0-3	Channery loam----	ML, GM, SM	A-2, A-6, A-7	0-5	55-85	50-80	40-75	30-60	35-45	10-15
	3-16	Very channery loam, extremely channery loam.	GM	A-2	0-5	30-60	20-55	20-45	15-35	35-45	10-15
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Darkcanyon------	0-7	Extremely channery loam.	GM-GC, GM	A-2	5-25	25-40	15-35	15-30	10-25	25-35	5-10
	7-30	Extremely channery clay loam, extremely channery loam.	GM	A-2	0-15	25-35	15-30	15-30	10-25	35-45	10-15
	30	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
154E*:											
Snaker----------	0-3	Channery loam----	ML, GM, SM	A-2, A-6, A-7	0-5	55-85	50-80	40-75	30-60	35-45	10-15
	3-16	Very channery loam, extremely channery loam.	GM	A-2	0-5	30-60	20-55	20-45	15-35	35-45	10-15
	16	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Darkcanyon------	0-7	Extremely channery loam.	GM-GC, GM	A-2	5-25	25-40	15-35	15-30	10-25	25-35	5-10
	7-30	Extremely channery clay loam, extremely channery loam.	GM	A-2	0-15	25-35	15-30	15-30	10-25	35-45	10-15
	30	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Xeric Torriorthents--	0-16	Extremely channery loam.	GM	A-2	0-35	30-45	25-40	20-35	15-30	25-35	NP-5
	16-34	Variable---------	---	---	---	---	---	---	---	---	---
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
155D*, 155E*:											
Snell----------	0-4	Very cobbly silt loam.	CL-ML, ML, CL	A-4	20-50	80-100	70-100	65-95	50-85	25-35	5-10
	4-9	Very cobbly silty clay loam.	ML, GM, SM, GC	A-6, A-2	20-50	45-80	35-70	30-70	30-65	35-40	10-15
	9-31	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-2, A-7	40-60	50-100	45-100	35-95	30-90	40-55	20-35
	31	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Ateron----------	0-6	Very stony loam	ML, GM	A-4	35-65	65-85	60-80	50-75	35-60	30-40	5-10
	6-12	Very cobbly silty clay loam, extremely gravelly clay loam.	GC	A-6, A-7, A-2	15-65	30-55	25-50	25-50	20-45	35-45	15-20
	12-17	Very cobbly clay, extremely cobbly clay.	GC, CL	A-7	30-70	50-75	45-70	40-70	35-65	40-50	20-30
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
156D*:											
Snell----------	0-4	Very cobbly silt loam.	CL-ML, ML, CL	A-4	20-50	80-100	70-100	65-95	50-85	25-35	5-10
	4-9	Very cobbly silty clay loam.	ML, GM, SM, GC	A-6, A-2	20-50	45-80	35-70	30-70	30-65	35-40	10-15
	9-31	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-2, A-7	40-60	50-100	45-100	35-95	30-90	40-55	20-35
	31	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
157F*:											
Snell----------	0-4	Very cobbly silt loam.	CL-ML, ML, CL	A-4	20-50	80-100	70-100	65-95	50-85	25-35	5-10
	4-9	Very cobbly silty clay loam.	ML, GM, SM, GC	A-6, A-2	20-50	45-80	35-70	30-70	30-65	35-40	10-15
	9-31	Very cobbly clay, extremely cobbly clay.	CL, CH, GC, SC	A-2, A-7	40-60	50-100	45-100	35-95	30-90	40-55	20-35
	31	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Sag----------	0-22	Silt loam--------	ML	A-4	0-5	95-100	90-100	85-95	75-85	25-35	NP-10
	22-40	Silty clay loam, clay loam.	CL	A-6	0-15	85-100	80-100	75-95	65-85	35-40	15-20
	40-58	Extremely cobbly clay, very cobbly clay, extremely cobbly clay loam.	GC	A-2, A-7	45-75	35-65	20-55	20-50	15-45	40-65	20-45
	58	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
158D, 158E------- Snellby	0-6	Stony silt loam	ML	A-4	15-45	85-95	80-90	75-85	55-80	30-40	5-10
	6-10	Stony silty clay loam.	ML	A-6, A-7	15-45	85-95	80-90	75-90	70-85	35-45	10-15
	10-18	Very stony clay, very cobbly clay.	CL	A-7	45-65	75-95	70-90	65-90	55-85	40-50	20-25
	18-24	Very stony silty clay loam, very cobbly silty clay loam.	ML	A-6, A-7	45-65	75-95	70-90	65-90	60-85	35-45	10-15
	24	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
159A*:											
Stanflow--------	0-2	Silt loam--------	ML	A-4	0	100	100	90-100	70-90	20-25	NP-5
	2-21	Silt loam--------	ML	A-4	0	100	100	90-100	70-90	20-25	NP-5
	21-28	Silt loam--------	ML	A-4	0	100	100	90-100	70-90	20-25	NP-5
	28-60	Silt loam, loam, gravelly silt loam.	ML	A-4	0	65-100	60-100	55-100	50-90	20-25	NP-5
Umapine---------	0-7	Silt loam--------	ML	A-4	0	95-100	95-100	95-100	75-95	20-30	NP-5
	7-30	Silt loam--------	ML	A-4	0	95-100	95-100	95-100	75-95	20-30	NP-5
	30-60	Silt loam--------	ML	A-4	0	95-100	95-100	95-100	75-95	20-30	NP-5
160E---------- Stavely	0-11	Coarse sandy loam	SM	A-2, A-4	0	90-100	90-100	45-65	30-45	---	NP
	11-40	Sandy loam, coarse sandy loam, gravelly coarse sandy loam.	SM	A-2, A-4	0-5	80-95	70-95	40-70	25-45	---	NP
	40-60	Gravelly loamy coarse sand, very gravelly coarse sand.	SM, GP-GM, SP-SM, GM	A-2, A-1	0-10	50-80	40-75	15-40	5-30	---	NP
161E, 161F------- Stices	0-3	Gravelly loam----	ML, GM	A-4	0-5	60-85	55-80	50-75	35-60	30-40	5-10
	3-21	Very gravelly loam.	GM	A-4, A-2, A-1	0-25	40-70	35-65	30-60	20-50	30-40	5-10
	21-60	Extremely gravelly sandy loam, extremely gravelly loamy sand.	GP-GM, GM	A-1	15-40	25-35	20-30	10-25	5-15	---	NP
162A*:											
Sumpley---------	0-14	Silt loam--------	ML	A-4	0	100	85-100	80-100	75-90	25-30	NP-5
	14-34	Loam, gravelly loam, gravelly sandy clay loam.	SC, SC-SM	A-4, A-6	0-5	75-95	70-85	55-70	35-50	25-35	5-15
	34-60	Extremely gravelly loamy sand, extremely gravelly sand, very gravelly loamy sand.	GP, GP-GM	A-1	15-30	20-45	15-40	5-20	0-10	10-20	NP-5

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
162A*:											
Stovepipe-------	0-13	Silt loam--------	ML	A-4	0	100	85-100	80-100	75-90	25-30	NP-5
	13-24	Silt loam--------	CL-ML, ML	A-4	0	100	80-100	80-100	70-90	25-35	5-10
	24-60	Extremely gravelly loamy sand, extremely gravelly sand, very gravelly loamy sand.	GP, GP-GM	A-1	15-30	20-45	15-40	5-20	0-10	10-20	NP-5
163D, 163E------- Taterpa	0-13	Loam----------	CL-ML, CL	A-4, A-6	0	90-100	85-100	75-90	55-65	20-30	5-15
	13-34	Gravelly loam, sandy loam, loam.	CL-ML, SC-SM	A-4	0	80-100	70-100	60-85	45-60	15-25	NP-10
	34-49	Gravelly sandy loam, gravelly loamy sand.	SM	A-1	0	70-90	55-85	35-50	10-20	10-20	NP-10
	49	Weathered bedrock	---	---	---	---	---	---	---	---	---
164D*:											
Tolo----------	0-15	Silt loam--------	ML	A-4, A-5	0	100	100	90-100	85-90	30-45	NP-5
	15-29	Silt loam--------	ML	A-4, A-5	0	100	100	90-100	85-90	30-45	NP-5
	29-56	Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy clay loam.	SC	A-2, A-6, A-4	0-30	60-80	45-75	25-60	15-40	25-40	5-20
Crackler--------	0-17	Gravelly silt loam.	ML, GM	A-4	0-10	70-85	60-80	55-80	40-70	30-40	NP-5
	17-34	Very cobbly silty clay loam, very gravelly clay loam.	GC, CL	A-6, A-2	30-50	35-70	25-60	20-60	15-55	30-40	10-20
	34-54	Extremely gravelly clay loam, extremely gravelly silty clay loam.	GC	A-2	5-30	25-45	20-40	20-40	15-35	30-40	10-20
	54	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
165D*:											
Tolo----------	0-15	Silt loam--------	ML	A-4, A-5	0	100	100	90-100	85-90	30-45	NP-5
	15-29	Silt loam--------	ML	A-4, A-5	0	100	100	90-100	85-90	30-45	NP-5
	29-56	Gravelly sandy loam, gravelly sandy clay loam, very gravelly sandy clay loam.	SC	A-2, A-6, A-4	0-30	60-80	45-75	25-60	15-40	25-40	5-20
Dogtown---------	0-11	Gravelly loam----	CL, SC	A-6	0-15	90-100	55-75	50-75	35-55	25-35	10-20
	11-41	Very gravelly sandy loam.	SC-SM, SC, SM	A-2, A-1	0-5	90-100	35-85	25-45	15-25	15-25	NP-10
	41-67	Very gravelly loamy sand.	SM, SP-SM	A-1	0-5	85-100	25-55	15-40	5-20	10-20	NP-10
	67	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
166D, 166E------- Top	0-9	Silt loam--------	ML	A-4	0	100	100	90-100	80-90	30-35	5-10
	9-20	Silty clay, clay, silty clay loam.	CL	A-7	0-5	95-100	90-100	85-100	75-95	40-50	15-25
	20-48	Clay loam, silty clay loam, cobbly silty clay.	ML, CL	A-6, A-7	0-15	70-100	65-100	60-100	50-80	35-50	10-25
	48	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
167D*, 167E*:											
Top----------	0-9	Silt loam--------	ML	A-4	0	100	100	90-100	80-90	30-35	5-10
	9-20	Silty clay, clay, silty clay loam.	CL	A-7	0-5	95-100	90-100	85-100	75-95	40-50	15-25
	20-48	Clay loam, silty clay loam, cobbly silty clay.	ML, CL	A-6, A-7	0-15	70-100	65-100	60-100	50-80	35-50	10-25
	48	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
McGarr----------	0-4	Very stony loam	ML	A-4	50-60	90-100	75-95	70-95	60-85	30-40	NP-10
	4-29	Gravelly loam, gravelly clay loam, gravelly silty clay loam.	CL, SC	A-6	0-20	80-100	75-85	65-85	45-80	30-40	10-20
	29	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
168C---------- Typic Xerorthents	0-99	Extremely cobbly loamy sand.	GP	A-1	70-85	20-40	15-35	10-25	0-10	---	NP
169C, 169D------- Ukiah	0-2	Silty clay loam	ML	A-7	0	100	100	95-100	85-95	40-50	15-20
	2-28	Clay, silty clay.	CH	A-7	0-5	90-100	85-100	75-100	65-95	50-60	25-35
	28-36	Silty clay loam, loam.	ML	A-6, A-7	0-5	90-100	90-100	85-100	80-95	35-45	10-15
	36	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
170A---------- Umapine	0-7	Silt loam--------	ML	A-4	0	95-100	95-100	95-100	75-95	20-30	NP-5
	7-30	Silt loam--------	ML	A-4	0	95-100	95-100	95-100	75-95	20-30	NP-5
	30-60	Silt loam--------	ML	A-4	0	95-100	95-100	95-100	75-95	20-30	NP-5
171B, 171C------- Virtue	0-7	Silt loam--------	ML	A-4	0	100	90-100	90-100	85-95	30-40	NP-10
	7-25	Silty clay loam, silt loam.	CL	A-6	0	100	100	95-100	85-95	35-40	15-20
	25-29	Loam----------	CL	A-6	0	95-100	95-100	90-95	75-80	30-35	10-15
	29-42	Indurated material.	---	---	---	---	---	---	---	---	---
	42-60	Very gravelly loam, very gravelly sandy loam, gravelly sandy loam.	GM, SM, SC-SM, GM-GC	A-2, A-4	0-10	40-80	30-75	20-65	15-50	15-25	NP-10

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
172B, 172C------- Virtue	0-7	Very gravelly silt loam.	GM	A-4, A-2	0-5	40-55	35-50	30-50	25-45	30-40	NP-10
	7-25	Silty clay loam, silt loam.	CL	A-6	0	100	100	95-100	85-95	35-40	15-20
	25-29	Loam----------	CL	A-6	0	95-100	95-100	90-95	75-80	30-35	10-15
	29-42	Indurated material.	---	---	---	---	---	---	---	---	---
	42-60	Very gravelly loam, very gravelly sandy loam, gravelly sandy loam.	GM, SM, SC-SM, GM-GC	A-2, A-4	0-10	40-80	30-75	20-65	15-50	15-25	NP-10
173C---------- Wahstal	0-4	Very cobbly loam	GC, CL	A-6	45-55	65-80	55-75	50-70	40-55	30-35	10-15
	4-12	Very cobbly clay loam.	GC, CL	A-6, A-7	45-55	65-80	55-75	50-70	45-65	35-45	15-20
	12-18	Extremely cobbly clay, extremely cobbly silty clay, very cobbly clay.	GC	A-7, A-2	55-65	50-65	40-60	35-55	30-50	55-65	30-40
	18-23	Indurated material.	---	---	---	---	---	---	---	---	---
	23-60	Extremely cobbly sandy loam, extremely cobbly loamy sand.	GM	A-1	55-65	40-50	30-50	20-35	10-20	15-25	NP-5
174B---------- Webfoot	0-6	Silt loam--------	ML	A-4	0	90-100	80-100	80-100	70-90	25-30	NP-5
	6-25	Gravelly loam, gravelly sandy loam.	SM, SC, SC-SM	A-4	0-5	75-90	70-80	50-70	35-50	15-25	NP-10
	25-60	Very gravelly sandy loam, extremely gravelly loamy sand, extremely gravelly sand.	GP, GP-GM	A-1	15-30	20-45	15-40	10-30	0-10	10-20	NP-5
175A---------- Wingdale	0-11	Silt loam--------	ML	A-4	0	100	100	90-100	80-95	25-35	NP-5
	11-34	Silt loam, silty clay loam.	ML	A-4	0	100	100	90-100	80-95	25-40	NP-10
	34-60	Silty clay loam, silt loam, gravelly silty clay loam.	ML, GM, SM	A-4	0	60-100	55-100	50-100	40-90	25-40	NP-10
176A---------- Wingville	0-8	Silt loam--------	ML	A-4	0	100	100	90-100	80-95	25-35	NP-5
	8-53	Silt loam, silty clay loam.	ML	A-4	0	100	100	90-100	80-95	25-35	NP-5
	53-60	Silt loam, gravelly silt loam, silty clay loam.	ML, GM	A-4	0	60-100	55-100	50-100	40-90	25-40	NP-10
177E---------- Xeric Torriorthents	0-3	Silt loam--------	ML	A-4	0-5	90-100	85-100	75-95	60-90	25-35	NP-5
	3-7	Silt loam, silty clay loam, clay loam.	ML	A-4	0-5	90-100	85-100	75-95	60-90	30-40	5-10
	7	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments >3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
178F*:											
Xeric Torriorthents--	0-11	Extremely stony loam.	GM	A-1	60-90	30-50	25-45	20-40	10-25	---	NP
	11-24	Variable---------	---	---	---	---	---	---	---	---	---
	24	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop----	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

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

TABLE 15.--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
1D, 1F---------- Anatone	0-8	10-20	1.20-1.30	0.6-2.0	0.08-0.10	6.1-7.3	<2	Low-------	0.10	1	8	2-3
	8-16	10-30	1.20-1.30	0.6-2.0	0.09-0.12	6.1-7.3	<2	Low-------	0.10			
	16	---	---	---	---	---	---	----------	----			
2E*, 2F*:												
Anatone---------	0-8	10-20	1.20-1.30	0.6-2.0	0.08-0.10	6.1-7.3	<2	Low-------	0.10	1	8	2-3
	8-16	10-30	1.20-1.30	0.6-2.0	0.09-0.12	6.1-7.3	<2	Low-------	0.10			
	16	---	---	---	---	---	---	----------	----			
Segundo---------	0-5	10-20	1.30-1.50	0.6-2.0	0.08-0.12	6.6-7.3	<2	Low-------	0.20	5	6	2-3
	5-21	10-20	1.30-1.50	0.6-2.0	0.08-0.12	6.6-7.3	<2	Low-------	0.20			
	21-60	5-15	1.40-1.60	2.0-6.0	0.05-0.10	6.6-7.3	<2	Low-------	0.17			
3F---------- Angelpeak	0-12	5-10	0.65-0.85	0.6-2.0	0.16-0.24	6.1-6.5	<2	Low-------	0.32	3	6	2-5
	12-27	10-20	0.75-0.85	0.6-2.0	0.12-0.16	6.1-6.5	<2	Low-------	0.43			
	27-58	10-20	1.30-1.50	2.0-6.0	0.04-0.10	6.1-7.3	<2	Low-------	0.32			
	58	---	---	---	---	---	---	----------	----			
4B, 4C---------- Applegate	0-11	18-27	1.10-1.30	0.6-2.0	0.19-0.21	6.6-7.3	<2	Low-------	0.32	5	6	1-3
	11-28	27-40	1.20-1.35	0.2-0.6	0.17-0.20	6.1-6.5	<2	Moderate	0.37			
	28-60	35-50	1.30-1.50	0.06-0.2	0.13-0.16	5.6-6.5	<2	High------	0.32			
5C---------- Aridic Haploxerolls	0-10	10-27	1.20-1.40	0.6-2.0	0.08-0.12	6.6-7.3	<2	Low-------	0.20	5	5	1-3
	10-60	---	---	---	---	---	<2	----------	----			
6C, 7D, 7E------- Ateron	0-6	15-25	1.20-1.30	0.6-2.0	0.09-0.11	6.6-7.3	<2	Low-------	0.24	1	8	1-2
	6-12	30-40	1.30-1.40	0.2-0.6	0.08-0.12	6.6-7.3	<2	Moderate	0.15			
	12-17	40-50	1.30-1.40	0.06-0.2	0.08-0.12	6.6-7.3	<2	High------	0.15			
	17	---	---	---	---	---	---	----------	----			
8C*, 9D*, 9E*:												
Ateron----------	0-6	27-35	1.20-1.30	0.2-0.6	0.08-0.10	6.6-7.3	<2	Moderate	0.17	1	8	1-2
	6-12	30-40	1.30-1.40	0.2-0.6	0.08-0.12	6.6-7.3	<2	Moderate	0.15			
	12-17	40-50	1.30-1.40	0.06-0.2	0.08-0.12	6.6-7.3	<2	High------	0.15			
	17	---	---	---	---	---	---	----------	----			
Roostercomb-----	0-5	27-35	1.30-1.40	0.2-0.6	0.05-0.09	6.6-7.3	<2	Moderate	0.20	2	8	1-3
	5-12	27-35	1.30-1.40	0.2-0.6	0.05-0.09	6.6-7.3	<2	Moderate	0.20			
	12-25	25-35	1.30-1.40	0.2-0.6	0.06-0.11	6.6-7.8	<2	Moderate	0.20			
	25-36	40-50	1.20-1.40	0.06-0.2	0.04-0.09	6.6-7.8	<2	High------	0.17			
	36	---	---	---	---	---	---	----------	----			
10C*:												
Bakeoven--------	0-2	15-27	1.25-1.35	0.6-2.0	0.04-0.06	6.6-7.8	<2	Low-------	0.05	1	8	1-3
	2-8	20-30	1.30-1.40	0.2-0.6	0.04-0.07	6.6-7.8	<2	Low-------	0.05			
	8	---	---	---	---	---	---	----------	----			
Ruckles---------	0-5	27-35	1.35-1.40	0.2-0.6	0.10-0.14	6.6-7.8	<2	Moderate	0.17	1	8	1-2
	5-16	40-60	1.35-1.40	0.06-0.2	0.07-0.11	6.6-7.8	<2	High------	0.05			
	16	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
11A, 11B--------- Baker	0-8	10-18	1.10-1.30	0.6-2.0	0.19-0.21	6.6-7.8	<2	Low-------	0.37	2	5	2-3
	8-16	10-18	1.10-1.30	0.6-2.0	0.16-0.20	6.6-8.4	<2	Low-------	0.55			
	16-31	10-18	1.10-1.30	0.6-2.0	0.14-0.17	7.4-9.0	<2	Low-------	0.55			
	31-39	---	---	<0.06	0.0	---	---	----------	----			
	39-60	0-15	1.20-1.30	0.6-6.0	0.0	7.4-7.8	<2	Low-------	0.10			
12A, 12B--------- Baker	0-8	10-18	1.10-1.30	0.6-2.0	0.19-0.21	6.6-7.8	<2	Low-------	0.37	2	5	2-3
	8-16	10-18	1.10-1.30	0.6-2.0	0.16-0.20	6.6-8.4	<2	Low-------	0.43			
	16-31	10-18	1.10-1.30	0.6-2.0	0.16-0.20	7.4-9.0	<2	Low-------	0.43			
	31-39	---	---	<0.06	0.0	---	---	----------	----			
	39-60	0-15	1.20-1.40	0.06-6.0	0.0	7.4-7.8	<2	Low-------	0.10			
13A---------- Baldock	0-6	10-18	1.25-1.40	0.6-2.0	0.19-0.21	7.9-8.4	<2	Low-------	0.32	5	4L	1-2
	6-36	18-27	1.20-1.40	0.6-2.0	0.16-0.21	7.4-8.4	<2	Moderate	0.32			
	36-60	10-27	1.25-1.50	0.6-2.0	0.13-0.21	7.4-8.4	<2	Low-------	0.17			
14D, 14E, 14F---- Baldridge	0-14	10-20	1.20-1.40	0.6-2.0	0.08-0.15	6.6-7.3	<2	Low-------	0.17	5	8	1-3
	14-47	10-20	1.20-1.40	0.6-2.0	0.06-0.12	6.6-7.3	<2	Low-------	0.20			
	47-60	10-22	1.20-1.40	2.0-6.0	0.04-0.10	6.6-7.3	<2	Low-------	0.20			
15A---------- Balm	0-2	10-18	1.30-1.50	0.6-2.0	0.12-0.16	7.9-8.4	<2	Low-------	0.20	3	4L	2-4
	2-30	10-18	1.30-1.50	0.6-2.0	0.13-0.18	6.6-8.4	<2	Low-------	0.37			
	30-60	0-5	1.40-1.60	>20	0.02-0.05	6.6-7.3	<2	Low-------	0.02			
16B, 16C, 16D---- Barnard	0-7	18-25	1.10-1.30	0.6-2.0	0.19-0.21	6.1-7.3	<2	Low-------	0.37	2	6	1-3
	7-14	27-35	1.30-1.40	0.6-2.0	0.19-0.21	6.6-7.8	<2	Moderate	0.37			
	14-22	35-50	1.35-1.50	0.06-0.2	0.14-0.17	6.6-7.8	<2	High------	0.32			
	22-30	---	---	---	0.0	---	---	----------	----			
	30-60	10-15	1.30-1.50	2.0-6.0	0.0	7.4-8.4	<2	Low-------	0.17			
17C---------- Barnard	0-9	18-25	1.10-1.30	0.6-2.0	0.13-0.19	6.6-7.3	<2	Low-------	0.32	2	8	1-3
	9-17	27-35	1.20-1.40	0.2-0.6	0.14-0.20	6.6-7.3	<2	Moderate	0.37			
	17-32	35-50	1.30-1.50	0.06-0.2	0.14-0.17	7.4-8.4	<2	High------	0.32			
	32-47	---	---	---	0.0	---	---	----------	----			
	47-60	10-15	1.30-1.50	2.0-6.0	0.0	7.4-8.4	<2	Low-------	0.17			
18B---------- Benderly	0-16	5-10	1.30-1.50	2.0-6.0	0.08-0.11	6.6-7.3	<2	Low-------	0.15	2	3	1-2
	16-60	5-10	1.40-1.60	>20	0.03-0.05	7.4-7.8	<2	Low-------	0.05			
19E---------- Boiler	0-6	20-27	1.20-1.40	0.6-2.0	0.12-0.16	6.1-7.3	<2	Moderate	0.20	4	6	2-5
	6-13	27-35	1.30-1.40	0.2-0.6	0.10-0.15	6.1-7.3	<2	Moderate	0.15			
	13-49	45-60	1.20-1.40	0.06-0.2	0.06-0.10	6.6-7.3	<2	High------	0.17			
	49	---	---	---	---	---	---	----------	----			
20D---------- Bouldrock	0-6	10-18	1.10-1.30	0.6-2.0	0.14-0.18	6.6-7.3	<2	Low-------	0.49	2	5	.5-1
	6-32	5-15	1.40-1.60	2.0-6.0	0.09-0.13	6.1-6.5	<2	Low-------	0.43			
	32	---	---	---	---	---	---	----------	----			
21E*:												
Bouldrock-------	0-6	10-18	1.10-1.30	0.6-2.0	0.14-0.18	6.6-7.3	<2	Low-------	0.49	2	5	.5-1
	6-32	5-15	1.40-1.60	2.0-6.0	0.09-0.13	6.1-6.5	<2	Low-------	0.43			
	32	---	---	---	---	---	---	----------	----			
Bouldrock-------	0-9	10-18	1.20-1.40	0.6-2.0	0.05-0.14	6.6-7.3	<2	Low-------	0.37	2	8	.5-1
	9-25	5-15	1.40-1.60	2.0-6.0	0.09-0.13	6.1-6.5	<2	Low-------	0.49			
	25-29	0-10	1.40-1.60	6.0-20	0.05-0.07	6.1-6.5	<2	Low-------	0.43			
	29	---	---	---	---	---	---	----------	----			
22E*, 22F*:												
Bouldrock-------	0-9	10-18	1.20-1.40	0.6-2.0	0.05-0.14	6.6-7.3	<2	Low-------	0.37	2	8	.5-1
	9-25	5-15	1.40-1.60	2.0-6.0	0.09-0.13	6.1-6.5	<2	Low-------	0.49			
	25-29	0-10	1.40-1.60	6.0-20	0.05-0.07	6.1-6.5	<2	Low-------	0.43			
	29	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
22E*, 22F*:												
Kilmerque-------	0-5	10-20	1.00-1.20	0.6-2.0	0.14-0.17	6.1-7.3	<2	Low-------	0.24	2	5	3-5
	5-16	10-18	1.00-1.20	0.6-2.0	0.11-0.15	6.1-7.3	<2	Low-------	0.20			
	16-26	5-15	1.20-1.40	2.0-6.0	0.07-0.10	6.1-7.3	<2	Low-------	0.15			
	26	---	---	---	---	---	---	----------	----			
23A---------- Boyce	0-29	20-27	1.20-1.35	0.6-2.0	0.19-0.21	7.4-8.4	<2	Moderate	0.37	3	6	2-5
	29-60	0-5	1.30-1.40	6.0-20	0.03-0.08	6.6-7.8	<2	Low-------	0.02			
24D, 24E, 24F---- Brannan	0-14	15-25	0.75-0.85	0.6-2.0	0.10-0.15	6.6-7.3	<2	Low-------	0.24	3	6	2-4
	14-48	15-30	1.30-1.45	0.6-2.0	0.08-0.14	6.6-7.3	<2	Low-------	0.15			
	48	---	---	---	---	---	---	----------	----			
25C*, 26D*:												
Brownlee--------	0-10	12-20	1.40-1.60	0.6-2.0	0.16-0.18	5.6-7.3	<2	Low-------	0.32	3	5	2-4
	10-30	20-35	1.40-1.70	0.2-0.6	0.14-0.21	5.6-7.3	<2	Moderate	0.32			
	30-42	10-20	1.50-1.70	2.0-6.0	0.07-0.13	6.1-7.3	<2	Low-------	0.28			
	42	---	---	---	---	---	---	----------	----			
Shangland-------	0-8	10-18	1.20-1.30	0.6-2.0	0.15-0.18	6.1-7.3	<2	Low-------	0.37	2	5	2-3
	8-16	10-18	1.20-1.30	2.0-6.0	0.10-0.15	6.1-7.3	<2	Low-------	0.37			
	16-24	5-15	1.20-1.30	6.0-20	0.07-0.12	6.1-7.3	<2	Low-------	0.43			
	24	---	---	---	---	---	---	----------	----			
27C, 28D, 29D---- Brownscombe	0-12	15-25	1.10-1.30	0.6-2.0	0.17-0.21	6.1-7.3	<2	Low-------	0.32	2	6	2-4
	12-18	30-35	1.10-1.30	2.0-6.0	0.10-0.15	6.6-7.3	<2	Low-------	0.28			
	18-25	35-45	1.20-1.40	0.2-0.6	0.13-0.18	6.6-8.4	<2	High------	0.24			
	25	---	---	---	---	---	---	----------	----			
30E*:												
Brownscombe-----	0-12	15-25	1.10-1.30	0.6-2.0	0.17-0.21	6.1-7.3	<2	Low-------	0.32	2	6	2-4
	12-18	30-35	1.10-1.30	2.0-6.0	0.10-0.15	6.6-7.3	<2	Low-------	0.28			
	18-25	35-45	1.20-1.40	0.2-0.6	0.13-0.18	6.6-8.4	<2	High------	0.24			
	25	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
31A---------- Burkemont	0-25	27-35	1.20-1.30	0.2-0.6	0.12-0.14	>9.0	4-8	Moderate	0.43	3	4L	.5-1
	25-46	40-60	1.30-1.50	0.06-0.2	0.14-0.17	7.9-9.0	<2	High------	0.28			
	46-60	30-40	1.20-1.35	0.2-0.6	0.16-0.18	8.5-9.0	<2	Moderate	0.32			
32A---------- Burntriver	0-11	15-25	1.10-1.30	0.6-2.0	0.17-0.21	6.6-7.8	<2	Low-------	0.43	5	5	1-2
	11-26	20-30	1.20-1.40	0.2-0.6	0.12-0.19	7.4-7.8	<2	Moderate	0.37			
	26-51	35-40	1.20-1.40	0.2-0.6	0.12-0.19	7.4-7.8	<2	Moderate	0.37			
	51-88	25-35	1.30-1.60	0.2-0.6	0.09-0.14	7.4-7.8	<2	Moderate	0.17			
33C---------- Burntriver	0-11	15-25	1.10-1.30	0.6-2.0	0.12-0.17	6.6-7.8	<2	Low-------	0.32	5	5	1-2
	11-26	20-30	1.20-1.40	0.2-0.6	0.12-0.19	7.4-7.8	<2	Moderate	0.37			
	26-51	35-40	1.20-1.40	0.2-0.6	0.12-0.19	7.4-7.8	<2	Moderate	0.37			
	51-88	25-35	1.30-1.60	0.2-0.6	0.09-0.14	7.4-7.8	<2	Moderate	0.17			
34D*, 34E*:												
Campcreek-------	0-8	20-27	1.10-1.30	0.6-2.0	0.10-0.14	6.6-7.3	<2	Low-------	0.28	2	8	2-3
	8-15	20-35	1.20-1.35	0.2-0.6	0.19-0.21	6.6-7.3	<2	Low-------	0.37			
	15-65	50-60	1.20-1.40	0.06-0.2	0.14-0.16	7.4-8.4	<2	High------	0.24			
34D*, 34E*:												
Skullgulch------	0-20	20-27	1.10-1.30	0.2-0.6	0.15-0.19	7.4-7.8	<2	Low-------	0.32	3	6	2-5
	20-24	20-35	1.30-1.40	0.2-0.6	0.15-0.19	7.4-7.8	<2	Low-------	0.28			
	24-39	50-60	1.20-1.40	0.06-0.2	0.13-0.17	7.4-7.8	<2	High------	0.24			
	39-60	27-35	1.30-1.40	0.2-0.6	0.15-0.19	7.9-8.4	<2	Moderate	0.28			

See footnote at end of table.

TABLE 15.--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
35A---------- Catherine	0-30	18-27	1.25-1.35	0.6-2.0	0.19-0.21	6.1-7.3	<2	Low--------	0.28	5	6	4-10
	30-48	18-35	1.25-1.40	0.6-2.0	0.19-0.21	7.4-7.8	<2	Low--------	0.37			
	48-60	12-18	1.25-1.40	0.6-2.0	0.12-0.16	7.4-7.8	<2	Low--------	0.28			
36C*, 37D*:												
Clovercreek-----	0-6	15-25	1.10-1.25	0.6-2.0	0.07-0.11	6.6-7.3	<2	Low--------	0.15	1	8	2-3
	6-16	27-35	1.20-1.40	0.2-0.6	0.09-0.12	6.6-7.3	<2	Moderate	0.15			
	16	---	---	---	---	---	---	----------	----			
Keating---------	0-8	10-20	1.10-1.30	0.6-2.0	0.15-0.18	6.6-7.3	<2	Low--------	0.32	2	5	2-4
	8-12	27-35	1.10-1.30	0.6-2.0	0.17-0.20	6.6-7.3	<2	Moderate	0.28			
	12-22	35-50	1.20-1.40	0.06-0.2	0.12-0.17	6.6-7.3	<2	High-------	0.24			
	22	---	---	---	---	---	---	----------	----			
38E*, 38F*:												
Copperfield-----	0-8	10-18	1.10-1.30	0.6-2.0	0.08-0.13	6.6-7.3	<2	Low--------	0.24	5	8	3-5
	8-19	18-27	1.10-1.30	0.6-2.0	0.08-0.13	6.6-7.3	<2	Low--------	0.24			
	19-42	27-35	1.20-1.30	0.2-0.6	0.05-0.13	6.1-7.3	<2	Moderate	0.20			
	42-60	35-50	1.20-1.40	0.06-0.2	0.04-0.10	6.1-7.3	<2	High-------	0.17			
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
39D*, 39E*:												
Crackler--------	0-17	5-10	0.65-0.85	0.6-2.0	0.18-0.33	6.1-6.5	<2	Low--------	0.32	3	6	2-5
	17-34	27-35	1.30-1.40	0.2-0.6	0.10-0.14	6.6-7.3	<2	Moderate	0.20			
	34-54	27-35	1.20-1.40	0.2-0.6	0.09-0.12	6.6-7.3	<2	Moderate	0.15			
	54	---	---	---	---	---	---	----------	----			
Rouen----------	0-16	5-10	0.65-0.85	0.6-2.0	0.18-0.33	6.1-7.3	<2	Low--------	0.32	2	5	2-5
	16-31	25-35	1.20-1.40	0.2-0.6	0.07-0.16	6.1-7.3	<2	Moderate	0.15			
	31	---	---	---	---	---	---	----------	----			
40A---------- Cumulic Haploxerolls	0-11	10-25	1.20-1.40	0.6-2.0	0.15-0.20	6.6-7.8	<2	Low--------	0.32	5	6	2-3
	11-60	---	---	---	---	---	<2	----------	----			
41A*:												
Damore----------	0-12	18-27	1.10-1.30	0.6-2.0	0.19-0.23	6.6-7.3	<2	Low--------	0.32	5	6	4-10
	12-34	30-45	1.20-1.35	0.2-0.6	0.17-0.21	6.6-7.3	<2	Moderate	0.28			
	34-60	45-60	1.30-1.50	0.06-0.2	0.11-0.17	7.4-8.4	<2	High-------	0.24			
Silvies---------	0-17	18-27	1.00-1.10	0.6-2.0	0.21-0.23	6.6-7.3	<2	Moderate	0.32	5	6	4-10
	17-29	35-60	1.10-1.30	0.06-0.2	0.13-0.21	6.6-7.3	<2	High-------	0.20			
	29-60	45-60	1.10-1.30	0.06-0.2	0.13-0.16	6.6-7.3	<2	High-------	0.24			
42D*:												
Derringer-------	0-6	20-27	1.20-1.40	0.6-2.0	0.08-0.14	6.1-7.3	<2	Moderate	0.24	2	8	2-4
	6-26	27-40	1.30-1.40	0.2-0.6	0.05-0.15	6.1-7.3	<2	Moderate	0.17			
	26-36	40-50	1.20-1.40	0.06-0.2	0.04-0.12	6.1-7.3	<2	High-------	0.17			
	36	---	---	---	---	---	---	----------	----			
Harlow----------	0-4	27-35	1.15-1.35	0.6-2.0	0.09-0.13	6.6-7.3	<2	Moderate	0.10	1	8	2-5
	4-12	27-35	1.25-1.45	0.2-0.6	0.09-0.13	6.6-7.3	<2	Moderate	0.10			
	12-18	35-50	1.30-1.50	0.06-0.2	0.05-0.10	6.6-7.3	<2	High-------	0.10			
	18	---	---	---	---	---	---	----------	----			
43E*:												
Dogtown---------	0-11	10-20	1.00-1.20	0.6-2.0	0.12-0.17	6.1-7.3	<2	Low--------	0.28	5	5	2-4
	11-41	5-15	1.40-1.60	2.0-6.0	0.07-0.11	6.1-6.5	<2	Low--------	0.32			
	41-67	5-10	1.40-1.60	2.0-6.0	0.04-0.07	5.6-6.5	<2	Low--------	0.32			
	67	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
43E*:												
Dogtown---------	0-18	10-20	1.00-1.20	0.6-2.0	0.08-0.14	6.1-7.3	<2	Low--------	0.28	3	8	2-4
	18-31	5-15	1.40-1.60	2.0-6.0	0.06-0.10	6.1-6.5	<2	Low--------	0.32			
	31-54	5-10	1.40-1.60	6.0-20	0.03-0.06	5.6-6.5	<2	Low--------	0.28			
	54	---	---	---	---	---	---	----------	----			
44F---------- Dogtown	0-18	10-20	1.00-1.20	0.6-2.0	0.08-0.14	6.1-7.3	<2	Low--------	0.28	3	8	2-4
	18-31	5-15	1.40-1.60	2.0-6.0	0.06-0.10	6.1-6.5	<2	Low--------	0.32			
	31-54	5-10	1.40-1.60	6.0-20	0.03-0.06	5.6-6.5	<2	Low--------	0.28			
	54	---	---	---	---	---	---	----------	----			
45C, 46D, 46E, 47D, 47E-------- Durkee	0-7	15-25	1.10-1.30	0.6-2.0	0.11-0.14	6.6-7.3	<2	Low--------	0.24	2	7	2-4
	7-10	27-40	1.10-1.30	0.6-2.0	0.15-0.20	6.6-7.3	<2	Moderate	0.32			
	10-17	40-60	1.20-1.40	0.06-0.2	0.11-0.18	6.6-8.4	<2	High-------	0.28			
	17-22	30-40	1.20-1.40	0.2-0.6	0.15-0.20	7.4-9.0	<2	Moderate	0.32			
	22	---	---	---	---	---	---	----------	----			
48F---------- Eaglecap	0-16	10-20	0.85-0.95	0.6-2.0	0.06-0.14	6.1-6.5	<2	Low--------	0.24	5	8	1-4
	16-28	5-15	1.40-1.60	2.0-6.0	0.07-0.12	6.1-6.5	<2	Low--------	0.24			
	28-60	5-10	1.40-1.60	2.0-6.0	0.03-0.07	5.6-6.5	<2	Low--------	0.17			
49D, 49E--------- Emily	0-8	15-25	1.15-1.40	0.6-2.0	0.18-0.21	6.1-7.3	<2	Low--------	0.28	5	6	2-3
	8-29	25-35	1.25-1.30	0.6-2.0	0.09-0.12	6.1-7.3	<2	Low--------	0.20			
	29-60	20-30	1.30-1.45	0.6-2.0	0.04-0.08	6.1-7.3	<2	Low--------	0.15			
50C, 51D, 51E---- Encina	0-4	18-27	1.15-1.35	0.6-2.0	0.13-0.17	6.6-7.3	<2	Low--------	0.28	4	6	1-2
	4-12	35-50	1.20-1.30	0.06-0.2	0.15-0.19	6.6-7.8	<2	High-------	0.32			
	12-42	18-35	1.25-1.35	0.6-2.0	0.17-0.21	7.9-9.0	<2	Low--------	0.37			
	42-60	15-25	1.35-1.55	0.6-2.0	0.06-0.09	7.9-8.4	<2	Low--------	0.20			
52E*:												
Fivebit---------	0-3	10-20	1.30-1.50	0.6-2.0	0.05-0.13	6.1-7.3	<2	Low--------	0.15	1	8	4-7
	3-12	20-30	1.20-1.50	0.2-0.6	0.06-0.14	6.1-7.3	<2	Moderate	0.20			
	12-18	25-35	1.20-1.50	0.2-0.6	0.06-0.15	6.1-7.3	<2	Moderate	0.20			
	18	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
53B---------- Glasgow	0-12	15-25	1.10-1.30	0.6-2.0	0.19-0.21	6.6-7.3	<2	Low--------	0.37	2	5	1-2
	12-24	35-55	1.20-1.40	0.06-0.2	0.14-0.16	6.6-8.4	<2	High-------	0.37			
	24	---	---	---	---	---	---	----------	----			
54B---------- Goodrich	0-12	8-18	1.10-1.20	0.6-6.0	0.09-0.12	6.6-7.8	<2	Low--------	0.28	5	6	1-2
	12-40	8-18	1.10-1.20	0.6-2.0	0.06-0.10	7.4-7.8	<2	Low--------	0.17			
	40-60	8-10	1.10-1.20	2.0-6.0	0.06-0.09	7.4-7.8	<2	Low--------	0.10			
55B*:												
Goodrich--------	0-12	8-18	1.10-1.20	0.6-6.0	0.09-0.12	6.6-7.8	<2	Low--------	0.28	5	6	1-2
	12-40	8-18	1.10-1.20	0.6-2.0	0.06-0.10	7.4-7.8	<2	Low--------	0.17			
	40-60	8-10	1.10-1.20	2.0-6.0	0.06-0.09	7.4-7.8	<2	Low--------	0.10			
Benderly--------	0-16	5-10	1.30-1.50	2.0-6.0	0.08-0.11	6.6-7.3	<2	Low--------	0.15	2	3	1-2
	16-60	5-10	1.40-1.60	>20	0.03-0.05	7.4-7.8	<2	Low--------	0.05			
56C, 57D, 58D---- Greenscombe	0-11	15-27	1.10-1.25	0.6-2.0	0.16-0.18	6.6-7.8	<2	Low--------	0.24	2	5	2-3
	11-19	20-35	1.20-1.40	0.6-2.0	0.14-0.16	6.6-7.8	<2	Moderate	0.28			
	19-30	15-30	1.20-1.40	0.6-2.0	0.10-0.15	6.6-7.8	<2	Low--------	0.28			
	30	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
59D*, 59E*, 59F*:												
Gwinly----------	0-3	18-27	1.15-1.35	0.6-2.0	0.06-0.11	6.6-7.8	<2	Low--------	0.17	1	8	2-5
	3-8	27-40	1.15-1.35	0.2-0.6	0.06-0.11	6.6-7.3	<2	Moderate	0.17			
	8-17	40-50	1.20-1.30	0.06-0.2	0.05-0.10	6.6-7.3	<2	High-------	0.15			
	17	---	---	---	---	---	---	----------	----			
Immig----------	0-7	15-25	1.10-1.30	0.2-0.6	0.10-0.17	6.1-7.3	<2	Low--------	0.17	2	8	1-3
	7-12	30-40	1.20-1.30	0.06-0.2	0.10-0.17	6.1-7.3	<2	Moderate	0.17			
	12-26	40-55	1.20-1.40	0.06-0.2	0.05-0.11	6.1-7.3	<2	High-------	0.05			
	26	---	---	---	---	---	---	----------	----			
60D*, 60E*, 60F*:												
Gwinly----------	0-3	18-27	1.15-1.35	0.6-2.0	0.06-0.11	6.6-7.8	<2	Low--------	0.17	1	8	2-5
	3-8	27-40	1.15-1.35	0.2-0.6	0.06-0.11	6.6-7.3	<2	Moderate	0.17			
	8-17	40-50	1.20-1.30	0.06-0.2	0.05-0.10	6.6-7.3	<2	High-------	0.15			
	17	---	---	---	---	---	---	----------	----			
Immig----------	0-7	15-25	1.10-1.30	0.2-0.6	0.10-0.17	6.1-7.3	<2	Low--------	0.17	2	8	1-3
	7-12	30-40	1.20-1.30	0.06-0.2	0.10-0.17	6.1-7.3	<2	Moderate	0.17			
	12-26	40-55	1.20-1.40	0.06-0.2	0.05-0.11	6.1-7.3	<2	High-------	0.05			
	26	---	---	---	---	---	---	----------	----			
Snell----------	0-4	20-27	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Low--------	0.17	2	8	2-4
	4-9	27-35	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Moderate	0.17			
	9-31	40-50	1.30-1.40	0.2-0.6	0.06-0.10	5.6-7.3	<2	High-------	0.10			
	31	---	---	---	---	---	---	----------	----			
61D*:												
Gwinly----------	0-3	18-27	1.15-1.35	0.6-2.0	0.06-0.11	6.6-7.8	<2	Low--------	0.17	1	8	2-5
	3-8	27-40	1.15-1.35	0.2-0.6	0.06-0.11	6.6-7.3	<2	Moderate	0.17			
	8-17	40-50	1.20-1.30	0.06-0.2	0.05-0.10	6.6-7.3	<2	High-------	0.15			
	17	---	---	---	---	---	---	----------	----			
Rockly----------	0-2	20-27	1.25-1.35	0.6-2.0	0.06-0.08	6.1-7.3	<2	Low--------	0.10	1	8	1-3
	2-8	20-30	1.30-1.40	0.6-2.0	0.06-0.11	6.1-7.3	<2	Low--------	0.10			
	8	---	---	---	---	---	---	----------	----			
62A---------- Haines	0-3	10-18	1.10-1.30	0.6-2.0	0.15-0.17	>9.0	4-8	Low--------	0.49	5	4L	.5-1
	3-43	10-18	1.10-1.30	0.6-2.0	0.16-0.19	7.4-8.4	<2	Moderate	0.43			
	43-60	25-35	1.30-1.40	0.2-0.6	0.10-0.18	7.4-8.4	<2	Moderate	0.37			
63A---------- Halfway	0-34	60-70	1.10-1.30	<0.06	0.12-0.15	6.6-7.3	<2	High-------	0.17	5	4	2-4
	34-60	35-60	1.10-1.30	<0.06	0.12-0.15	6.6-7.8	<2	High-------	0.20			
64C---------- Hall Ranch	0-6	16-22	0.90-1.10	0.6-2.0	0.11-0.16	6.1-7.3	<2	Low--------	0.28	2	8	2-5
	6-26	18-27	1.00-1.20	0.6-2.0	0.11-0.16	6.1-7.3	<2	Low--------	0.24			
	26-37	20-35	1.10-1.40	0.2-0.6	0.06-0.20	6.6-7.3	<2	Moderate	0.20			
	37	---	---	---	---	---	---	----------	----			
65D---------- Hankins	0-9	20-27	1.20-1.40	0.6-2.0	0.18-0.23	6.1-7.3	<2	Moderate	0.37	3	6	1-5
	9-47	45-60	1.35-1.45	0.06-0.2	0.09-0.15	6.6-7.3	<2	High-------	0.20			
	47	---	---	---	---	---	---	----------	----			
66D---------- Hankins	0-9	20-27	1.20-1.30	0.6-2.0	0.10-0.14	6.1-7.3	<2	Moderate	0.24	5	8	2-5
	9-17	27-35	1.20-1.40	0.2-0.6	0.14-0.19	6.1-7.3	<2	Moderate	0.20			
	17-60	45-60	1.35-1.45	0.06-0.2	0.11-0.16	6.6-7.3	<2	High-------	0.24			
67C*:												
Hankins---------	0-9	20-27	1.20-1.40	0.6-2.0	0.18-0.23	6.1-7.3	<2	Moderate	0.37	3	6	2-5
	9-47	45-60	1.35-1.45	0.06-0.2	0.09-0.15	6.6-7.3	<2	High-------	0.20			
	47	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
67C*:												
Hankins---------	0-9	20-27	1.20-1.30	0.6-2.0	0.10-0.14	6.1-7.3	<2	Moderate	0.24	5	8	2-5
	9-17	27-35	1.20-1.40	0.2-0.6	0.14-0.19	6.1-7.3	<2	Moderate	0.20			
	17-60	45-60	1.35-1.45	0.06-0.2	0.11-0.16	6.6-7.3	<2	High------	0.24			
68C---------- Harlow	0-4	27-35	1.15-1.35	0.6-2.0	0.09-0.13	6.6-7.3	<2	Moderate	0.10	1	8	2-5
	4-12	27-35	1.25-1.45	0.2-0.6	0.09-0.13	6.6-7.3	<2	Moderate	0.10			
	12-18	35-50	1.30-1.50	0.06-0.2	0.05-0.10	6.6-7.3	<2	High------	0.10			
	18	---	---	---	---	---	---	----------	----			
69E*:												
Harlow----------	0-4	27-35	1.15-1.35	0.6-2.0	0.09-0.13	6.6-7.3	<2	Moderate	0.10	1	8	2-5
	4-12	27-35	1.25-1.45	0.2-0.6	0.09-0.13	6.6-7.3	<2	Moderate	0.10			
	12-18	35-50	1.30-1.50	0.06-0.2	0.05-0.10	6.6-7.3	<2	High------	0.10			
	18	---	---	---	---	---	---	----------	----			
Derringer-------	0-6	20-27	1.20-1.40	0.6-2.0	0.08-0.14	6.1-7.3	<2	Moderate	0.24	2	8	2-4
	6-26	27-40	1.30-1.40	0.2-0.6	0.05-0.15	6.1-7.3	<2	Moderate	0.17			
	26-36	40-50	1.20-1.40	0.06-0.2	0.04-0.12	6.1-7.3	<2	High------	0.17			
	36	---	---	---	---	---	---	----------	----			
70A---------- Hershal	0-16	12-18	1.10-1.30	0.6-2.0	0.17-0.20	6.6-7.3	<2	Low-------	0.28	3	5	3-5
	16-24	7-12	1.30-1.50	0.6-2.0	0.15-0.17	6.6-7.3	<2	Low-------	0.49			
	24-60	0-5	1.30-1.50	>20	0.03-0.05	6.6-7.3	<2	Low-------	0.05			
71B, 71C--------- Hibbard	0-9	20-27	1.20-1.35	0.2-0.6	0.19-0.21	6.6-7.3	<2	Low-------	0.43	2	6	1-3
	9-28	45-60	1.20-1.40	0.06-0.2	0.12-0.16	7.4-7.8	<2	High------	0.24			
	28-34	30-40	1.30-1.40	0.2-0.6	0.19-0.21	7.9-8.4	<2	Moderate	0.43			
	34-60	---	---	---	---	---	---	----------	----			
72C---------- Hibbard	0-9	27-35	1.20-1.35	0.2-0.6	0.14-0.19	6.6-7.3	<2	Moderate	0.28	2	8	1-3
	9-28	45-60	1.20-1.40	0.06-0.2	0.12-0.16	7.4-7.8	<2	High------	0.24			
	28-34	30-40	1.30-1.40	0.2-0.6	0.19-0.21	7.9-8.4	<2	Moderate	0.43			
	34-60	---	---	---	---	---	---	----------	----			
73B*:												
Hibbard---------	0-9	27-35	1.20-1.35	0.2-0.6	0.14-0.19	6.6-7.3	<2	Moderate	0.28	2	8	1-3
	9-28	45-60	1.20-1.40	0.06-0.2	0.12-0.16	7.4-7.8	<2	High------	0.24			
	28-34	30-40	1.30-1.40	0.2-0.6	0.19-0.21	7.9-8.4	<2	Moderate	0.43			
	34-60	---	---	---	---	---	---	----------	----			
Rockly----------	0-3	15-27	1.20-1.40	0.6-2.0	0.08-0.12	6.6-7.3	<2	Low-------	0.24	1	8	2-3
	3-9	15-27	1.20-1.40	0.6-2.0	0.08-0.12	6.6-7.3	<2	Low-------	0.20			
	9-60	---	---	---	---	---	---	----------	----			
74D*, 74E*:												
Highhorn--------	0-9	5-15	0.85-0.95	0.6-2.0	0.09-0.15	5.6-6.0	<2	Low-------	0.20	3	8	2-4
	9-32	27-35	0.95-1.20	0.2-0.6	0.09-0.16	6.1-6.5	<2	Moderate	0.15			
	32-43	27-35	1.20-1.40	0.2-0.6	0.07-0.13	6.6-7.3	<2	Moderate	0.10			
	43	---	---	---	---	---	---	----------	----			
Huntrock--------	0-12	10-20	0.85-0.95	0.6-2.0	0.09-0.15	6.1-6.5	<2	Low-------	0.20	2	8	2-4
	12-25	27-35	0.95-1.20	0.2-0.6	0.08-0.12	6.6-7.3	<2	Moderate	0.10			
	25-35	27-35	1.20-1.40	0.2-0.6	0.07-0.12	6.6-7.3	<2	Moderate	0.10			
	35	---	---	---	---	---	---	----------	----			
75D---------- Hudspeth	0-7	27-35	1.20-1.30	0.2-0.6	0.09-0.15	6.1-7.3	<2	Moderate	0.20	2	8	3-5
	7-34	50-60	1.20-1.40	0.06-0.2	0.06-0.11	6.1-7.3	<2	High------	0.15			
	34	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
76D*, 76E*:												
Hudspeth--------	0-7	27-35	1.20-1.30	0.2-0.6	0.09-0.15	6.1-7.3	<2	Moderate	0.20	2	8	3-5
	7-34	50-60	1.20-1.40	0.06-0.2	0.06-0.11	6.1-7.3	<2	High------	0.15			
	34	---	---	---	---	---	---	----------	----			
Morningstar-----	0-6	20-27	1.20-1.40	0.6-2.0	0.06-0.10	6.1-7.3	<2	Moderate	0.17	5	8	4-7
	6-23	27-35	1.30-1.40	0.2-0.6	0.06-0.12	6.1-7.3	<2	Moderate	0.15			
	23-46	20-35	1.30-1.40	0.2-0.6	0.05-0.11	6.1-7.3	<2	Moderate	0.15			
	46-60	15-25	1.30-1.50	0.6-2.0	0.04-0.10	6.1-7.3	<2	Low-------	0.17			
77F*:												
Huntrock--------	0-12	10-20	0.85-0.95	0.6-2.0	0.09-0.15	6.1-6.5	<2	Low-------	0.20	2	8	2-4
	12-25	27-35	0.95-1.20	0.2-0.6	0.08-0.12	6.6-7.3	<2	Moderate	0.10			
	25-35	27-35	1.20-1.40	0.2-0.6	0.07-0.12	6.6-7.3	<2	Moderate	0.10			
	35	---	---	---	---	---	---	----------	----			
Highhorn--------	0-9	5-15	0.85-0.95	0.6-2.0	0.09-0.15	5.6-6.0	<2	Low-------	0.20	3	8	2-4
	9-32	27-35	0.95-1.20	0.2-0.6	0.09-0.16	6.1-6.5	<2	Moderate	0.15			
	32-43	27-35	1.20-1.40	0.2-0.6	0.07-0.13	6.6-7.3	<2	Moderate	0.10			
	43	---	---	---	---	---	---	----------	----			
78E*:												
Hyall----------	0-3	30-40	1.30-1.40	0.2-0.6	0.09-0.17	6.6-7.3	<2	Moderate	0.10	3	8	2-3
	3-26	40-60	1.30-1.45	0.06-0.2	0.06-0.13	6.6-7.8	<2	High------	0.17			
	26-60	10-30	1.60-1.70	0.06-0.2	0.04-0.07	6.6-7.8	<2	Low-------	0.05			
Badland---------	0-60	---	---	---	---	---	---	----------	----	---	---	---
79D*, 80E*:												
Hyall----------	0-3	30-40	1.30-1.40	0.2-0.6	0.09-0.17	6.6-7.3	<2	Moderate	0.10	3	8	2-3
	3-26	40-60	1.30-1.45	0.06-0.2	0.06-0.13	6.6-7.8	<2	High------	0.17			
	26-60	10-30	1.60-1.70	0.06-0.2	0.04-0.07	6.6-7.8	<2	Low-------	0.05			
Simas----------	0-14	12-27	1.10-1.20	0.6-2.0	0.13-0.20	6.6-7.3	<2	Low-------	0.32	2	8	2-5
	14-48	50-60	1.10-1.30	0.06-0.2	0.09-0.16	7.9-8.4	<2	High------	0.20			
	48-60	35-50	1.10-1.30	0.06-0.2	0.09-0.13	7.9-9.0	<2	High------	0.20			
81C---------- Immig	0-7	15-25	1.10-1.30	0.2-0.6	0.17-0.20	6.1-7.3	<2	Low-------	0.37	2	6	1-3
	7-12	30-40	1.20-1.30	0.06-0.2	0.10-0.17	6.1-7.3	<2	Moderate	0.17			
	12-26	40-55	1.20-1.40	0.06-0.2	0.05-0.11	6.1-7.3	<2	High------	0.05			
	26	---	---	---	---	---	---	----------	----			
82C---------- Immig	0-7	15-25	1.10-1.30	0.2-0.6	0.10-0.17	6.1-7.3	<2	Low-------	0.17	2	8	1-3
	7-12	30-40	1.20-1.30	0.06-0.2	0.10-0.17	6.1-7.3	<2	Moderate	0.17			
	12-26	40-55	1.20-1.40	0.06-0.2	0.05-0.11	6.1-7.3	<2	High------	0.05			
	26	---	---	---	---	---	---	----------	----			
83D, 83E, 83F---- Inkler	0-12	10-20	0.85-0.95	0.6-2.0	0.10-0.16	6.6-7.3	<2	Low-------	0.28	5	8	2-4
	12-23	10-20	0.85-0.95	0.6-2.0	0.10-0.16	6.6-7.3	<2	Low-------	0.28			
	23-62	15-25	1.20-1.40	0.6-2.0	0.08-0.16	6.6-7.3	<2	Low-------	0.24			
84D---------- Jett	0-24	20-27	1.00-1.20	0.6-2.0	0.19-0.21	7.4-8.4	<2	Low-------	0.24	5	4L	2-4
	24-60	18-27	1.10-1.35	0.6-2.0	0.19-0.21	7.4-8.4	<2	Low-------	0.43			
85D---------- Keating	0-8	10-20	1.10-1.30	0.6-2.0	0.15-0.18	6.6-7.3	<2	Low-------	0.32	2	5	2-4
	8-12	27-35	1.10-1.30	0.6-2.0	0.17-0.20	6.6-7.3	<2	Moderate	0.28			
	12-22	35-50	1.20-1.40	0.06-0.2	0.12-0.17	6.6-7.3	<2	High------	0.24			
	22	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
86D, 86E--------- Kilmerque	0-5	10-20	1.00-1.20	0.6-2.0	0.14-0.17	6.1-7.3	<2	Low--------	0.24	2	5	3-5
	5-16	10-18	1.00-1.20	0.6-2.0	0.11-0.15	6.1-7.3	<2	Low--------	0.20			
	16-26	5-15	1.20-1.40	2.0-6.0	0.07-0.10	6.1-7.3	<2	Low--------	0.15			
	26	---	---	---	---	---	---	----------	----			
87D, 87E--------- Klicker	0-5	12-25	1.20-1.30	0.6-2.0	0.15-0.17	6.1-7.3	<2	Low--------	0.24	2	6	2-4
	5-13	18-27	1.20-1.30	0.6-2.0	0.10-0.14	6.1-6.5	<2	Low--------	0.10			
	13-36	18-35	1.25-1.40	0.2-0.6	0.10-0.13	6.1-6.5	<2	Moderate	0.15			
	36	---	---	---	---	---	---	----------	----			
88D*:												
Klicker---------	0-5	12-25	1.20-1.30	0.6-2.0	0.15-0.17	6.1-7.3	<2	Low--------	0.24	2	6	2-4
	5-13	18-27	1.20-1.30	0.6-2.0	0.10-0.14	6.1-6.5	<2	Low--------	0.10			
	13-36	18-35	1.25-1.40	0.2-0.6	0.10-0.13	6.1-6.5	<2	Moderate	0.15			
	36	---	---	---	---	---	---	----------	----			
Anatone---------	0-8	10-20	1.20-1.30	0.6-2.0	0.08-0.10	6.1-7.3	<2	Low--------	0.10	1	8	2-3
	8-16	10-30	1.20-1.30	0.6-2.0	0.09-0.12	6.1-7.3	<2	Low--------	0.10			
	16	---	---	---	---	---	---	----------	----			
89D*, 89E*:												
Klicker---------	0-5	12-25	1.20-1.30	0.6-2.0	0.15-0.17	6.1-7.3	<2	Low--------	0.24	2	6	2-4
	5-13	18-27	1.20-1.30	0.6-2.0	0.10-0.14	6.1-6.5	<2	Low--------	0.10			
	13-36	18-35	1.25-1.40	0.2-0.6	0.10-0.13	6.1-6.5	<2	Moderate	0.15			
	36	---	---	---	---	---	---	----------	----			
Fivebit---------	0-3	10-20	1.30-1.50	0.6-2.0	0.05-0.13	6.1-7.3	<2	Low--------	0.15	1	8	4-7
	3-12	20-30	1.20-1.50	0.2-0.6	0.06-0.14	6.1-7.3	<2	Moderate	0.20			
	12-18	25-35	1.20-1.50	0.2-0.6	0.06-0.15	6.1-7.3	<2	Moderate	0.20			
	18	---	---	---	---	---	---	----------	----			
90B, 90C--------- Ladd	0-16	18-22	1.50-1.60	0.6-2.0	0.16-0.21	6.1-7.3	<2	Low--------	0.32	5	6	2-4
	16-65	18-35	1.40-1.60	0.2-0.6	0.14-0.21	6.1-7.3	<2	Moderate	0.32			
91A---------- La Grande	0-39	18-27	1.30-1.45	0.6-2.0	0.19-0.21	7.9-8.4	<2	Low--------	0.28	5	6	4-7
	39-60	5-20	1.30-1.50	0.6-2.0	0.12-0.16	6.1-8.4	<2	Low--------	0.24			
92A---------- Langrell	0-7	8-18	1.30-1.40	0.6-2.0	0.12-0.16	6.6-7.3	<2	Low--------	0.17	3	6	2-4
	7-20	8-18	1.30-1.40	0.6-2.0	0.10-0.14	6.6-7.3	<2	Low--------	0.20			
	20-34	8-18	1.35-1.45	0.6-2.0	0.05-0.08	6.6-7.3	<2	Low--------	0.10			
	34-60	8-18	1.40-1.50	2.0-6.0	0.04-0.07	6.6-7.8	<2	Low--------	0.05			
93A---------- Langrell	0-7	8-18	1.30-1.40	0.6-2.0	0.12-0.16	6.6-7.3	<2	Low--------	0.17	3	8	2-4
	7-20	8-18	1.30-1.40	0.6-2.0	0.10-0.14	6.6-7.3	<2	Low--------	0.20			
	20-34	8-18	1.35-1.45	0.6-2.0	0.05-0.08	6.6-7.3	<2	Low--------	0.10			
	34-60	8-18	1.40-1.50	2.0-6.0	0.04-0.07	6.6-7.3	<2	Low--------	0.05			
94C---------- Legler	0-9	15-25	1.35-1.45	0.6-2.0	0.21-0.24	6.6-7.3	<2	Low--------	0.55	5	6	.5-1
	9-19	15-25	1.40-1.45	0.6-2.0	0.14-0.18	6.6-7.3	<2	Low--------	0.43			
	19-49	18-35	1.35-1.40	0.6-2.0	0.14-0.23	7.9-8.4	2-4	Moderate	0.43			
	49-60	24-45	1.30-1.40	0.2-2.0	0.09-0.23	7.9-8.4	2-4	High------	0.37			
95C---------- Legler	0-7	15-25	1.25-1.35	2.0-6.0	0.12-0.15	7.4-7.8	<2	Low--------	0.28	5	6	1-2
	7-10	15-25	1.40-1.45	0.6-2.0	0.14-0.18	6.6-7.3	<2	Low--------	0.43			
	10-39	18-35	1.35-1.40	0.6-2.0	0.14-0.23	7.9-8.4	2-4	Moderate	0.43			
	39-60	24-45	1.30-1.40	0.2-2.0	0.09-0.23	7.9-8.4	2-4	High------	0.37			
96E, 96F--------- Lickskillet	0-6	10-20	1.30-1.50	2.0-6.0	0.06-0.09	6.6-8.4	<2	Low--------	0.15	1	8	1-2
	6-10	20-30	1.30-1.50	0.6-2.0	0.08-0.12	6.6-8.4	<2	Low--------	0.15			
	10-18	20-30	1.30-1.50	0.6-2.0	0.08-0.12	7.4-8.4	<2	Low--------	0.15			
	18	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
97E*:												
Lickskillet-----	0-5	15-25	1.25-1.35	0.6-2.0	0.08-0.14	6.1-7.3	<2	Low-------	0.24	1	8	1-2
	5-17	23-33	1.30-1.40	0.6-2.0	0.06-0.14	6.6-7.3	<2	Low-------	0.24			
	17	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
98C---------- Lookout	0-9	15-27	1.20-1.30	0.6-2.0	0.14-0.20	6.6-7.3	<2	Low-------	0.32	2	6	1-2
	9-24	40-60	1.30-1.40	0.06-0.2	0.10-0.14	7.4-8.4	2-4	High------	0.20			
	24-45	---	---	---	0.0	---	---	----------	----			
	45	---	---	---	---	---	---	----------	----			
99C---------- Lookout	0-15	15-27	1.10-1.30	0.6-2.0	0.11-0.17	6.6-7.3	<2	Low-------	0.28	2	8	1-3
	15-26	40-55	1.30-1.40	0.06-0.2	0.10-0.14	7.4-8.4	2-4	High------	0.20			
	26-37	---	---	---	0.0	---	---	----------	----			
	37	---	---	---	---	---	---	----------	----			
100D---------- Lostbasin	0-5	20-27	1.10-1.30	0.6-2.0	0.06-0.11	6.6-7.3	<2	Low-------	0.15	2	8	1-3
	5-28	25-35	1.10-1.30	0.6-2.0	0.04-0.09	6.6-7.3	<2	Low-------	0.10			
	28	---	---	---	---	---	---	----------	----			
101E*:												
Lostbasin-------	0-5	20-27	1.10-1.30	0.6-2.0	0.06-0.11	6.6-7.3	<2	Low-------	0.15	2	8	1-3
	5-28	25-35	1.10-1.30	0.6-2.0	0.04-0.09	6.6-7.3	<2	Low-------	0.10			
	28	---	---	---	---	---	---	----------	----			
Xerorthents-----	0-14	10-25	1.10-1.25	2.0-6.0	0.10-0.15	6.6-7.8	<2	Low-------	0.28	2	5	1-3
	14-29	---	---	---	0.0	---	---	----------	----			
	29	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
102C, 103D, 103E, 103F---------- Lovline	0-20	18-27	1.20-1.40	0.6-2.0	0.10-0.13	6.6-7.3	<2	Low-------	0.20	2	7	2-4
	20-38	18-35	1.20-1.40	0.6-2.0	0.10-0.15	6.6-7.3	<2	Low-------	0.20			
	38	---	---	---	---	---	---	----------	----			
104D---------- Marack	0-12	10-20	1.10-1.20	0.6-2.0	0.19-0.21	6.6-7.3	<2	Low-------	0.43	3	6	1-3
	12-25	40-50	1.20-1.40	0.06-0.2	0.12-0.16	6.6-7.8	<2	High------	0.28			
	25-34	27-40	1.20-1.30	0.2-0.6	0.17-0.21	7.9-8.4	<2	Moderate	0.37			
	34-47	10-20	1.40-1.60	2.0-6.0	0.09-0.18	7.9-8.4	<2	Low-------	0.32			
	47	---	---	---	---	---	---	----------	----			
105C, 106D------- Marack	0-12	20-30	1.20-1.30	0.2-0.6	0.12-0.19	6.6-7.3	<2	Moderate	0.28	3	8	1-3
	12-25	40-50	1.20-1.40	0.06-0.2	0.12-0.16	6.6-7.8	<2	High------	0.28			
	25-34	27-40	1.20-1.30	0.2-0.6	0.17-0.21	7.9-8.4	<2	Moderate	0.37			
	34-47	10-20	1.40-1.60	2.0-6.0	0.09-0.18	7.9-8.4	<2	Low-------	0.32			
	47	---	---	---	---	---	---	----------	----			
107C*:												
Marack----------	0-12	20-30	1.20-1.30	0.2-0.6	0.12-0.19	6.6-7.3	<2	Moderate	0.28	3	8	1-3
	12-25	40-50	1.20-1.40	0.06-0.2	0.12-0.16	6.6-7.8	<2	High------	0.28			
	25-34	27-40	1.20-1.30	0.2-0.6	0.17-0.21	7.9-8.4	<2	Moderate	0.37			
	34-47	10-20	1.40-1.60	2.0-6.0	0.09-0.18	7.9-8.4	<2	Low-------	0.32			
	47	---	---	---	---	---	---	----------	----			
107C*:												
Marack----------	0-12	10-20	1.10-1.20	0.6-2.0	0.19-0.21	6.6-7.3	<2	Low-------	0.43	3	6	1-3
	12-25	40-50	1.20-1.40	0.06-0.2	0.12-0.16	6.6-7.8	<2	High------	0.28			
	25-34	27-40	1.20-1.30	0.2-0.6	0.17-0.21	7.9-8.4	<2	Moderate	0.37			
	34-47	10-20	1.40-1.60	2.0-6.0	0.09-0.18	7.9-8.4	<2	Low-------	0.32			
	47	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
108D*:												
Marack----------	0-12	20-30	1.20-1.30	0.2-0.6	0.12-0.19	6.6-7.3	<2	Moderate	0.28	3	8	1-3
	12-25	40-50	1.20-1.40	0.06-0.2	0.12-0.16	6.6-7.8	<2	High------	0.28			
	25-34	27-40	1.20-1.30	0.2-0.6	0.17-0.21	7.9-8.4	<2	Moderate	0.37			
	34-47	10-20	1.40-1.60	2.0-6.0	0.09-0.18	7.9-8.4	<2	Low-------	0.32			
	47	---	---	---	---	---	---	----------	----			
Badland---------	0-60	---	---	---	---	---	---	----------	----	---	---	---
109C---------- McEwen	0-12	15-25	1.35-1.55	0.6-2.0	0.20-0.25	6.6-7.3	<2	Low-------	0.32	5	6	1-3
	12-43	27-35	1.40-1.65	0.2-0.6	0.15-0.18	6.6-7.3	<2	Moderate	0.28			
	43-60	15-25	1.50-1.65	2.0-6.0	0.04-0.10	6.6-7.3	<2	Low-------	0.05			
110D---------- McEwen	0-12	15-25	1.35-1.55	0.6-2.0	0.15-0.19	6.6-7.3	<2	Low-------	0.28	5	6	1-3
	12-43	27-35	1.40-1.65	0.2-0.6	0.15-0.18	6.6-7.3	<2	Moderate	0.28			
	43-60	15-25	1.50-1.65	2.0-6.0	0.04-0.10	6.6-7.3	<2	Low-------	0.05			
111D*, 111E*:												
McGarr----------	0-4	20-27	1.20-1.40	0.2-0.6	0.12-0.19	6.1-7.3	<2	Low-------	0.20	2	8	3-5
	4-29	25-35	1.20-1.40	0.2-0.6	0.12-0.19	6.1-7.3	<2	Moderate	0.24			
	29	---	---	---	---	---	---	----------	----			
Kahler----------	0-5	15-27	1.25-1.35	0.6-2.0	0.13-0.20	5.6-7.3	<2	Low-------	0.37	5	6	1-4
	5-13	20-30	1.25-1.35	0.6-2.0	0.15-0.21	5.6-7.3	<2	Moderate	0.37			
	13-60	18-35	1.30-1.40	0.2-0.6	0.13-0.20	5.6-7.3	<2	Moderate	0.37			
112D---------- Morningstar	0-6	20-27	1.20-1.40	0.6-2.0	0.06-0.10	6.1-7.3	<2	Moderate	0.17	5	8	4-7
	6-23	27-35	1.30-1.40	0.2-0.6	0.06-0.12	6.1-7.3	<2	Moderate	0.15			
	23-46	20-35	1.30-1.40	0.2-0.6	0.05-0.11	6.1-7.3	<2	Moderate	0.15			
	46-60	15-25	1.30-1.50	0.6-2.0	0.04-0.10	6.1-7.3	<2	Low-------	0.17			
113D, 113E------- Nagle	0-18	15-25	1.10-1.30	0.6-2.0	0.19-0.21	6.6-7.8	<2	Low-------	0.32	5	6	2-3
	18-34	27-35	1.20-1.40	0.2-0.6	0.19-0.21	7.9-9.0	<2	Moderate	0.28			
	34-60	27-35	1.20-1.40	0.2-0.6	0.11-0.15	8.5-9.0	<2	Moderate	0.24			
114C, 115D, 116D- North Powder	0-12	15-25	1.10-1.30	0.6-2.0	0.16-0.18	6.1-7.3	<2	Low-------	0.24	2	5	1-2
	12-22	18-35	1.30-1.40	0.2-2.0	0.17-0.19	6.6-7.3	<2	Moderate	0.28			
	22-28	15-30	1.30-1.40	0.2-2.0	0.14-0.17	7.9-8.4	<2	Low-------	0.24			
	28	---	---	---	---	---	---	----------	----			
117D*:												
North Powder----	0-12	15-25	1.10-1.30	0.6-2.0	0.16-0.18	6.1-7.3	<2	Low-------	0.24	2	5	1-2
	12-22	18-35	1.30-1.40	0.2-2.0	0.17-0.19	6.6-7.3	<2	Moderate	0.28			
	22-28	15-30	1.30-1.40	0.2-2.0	0.14-0.17	7.9-8.4	<2	Low-------	0.24			
	28	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
118C, 119D------- Oxman	0-4	18-27	1.10-1.30	0.6-2.0	0.19-0.21	7.4-8.4	<2	Low-------	0.32	2	6	.5-1
	4-11	18-35	1.10-1.40	0.6-2.0	0.17-0.21	7.4-8.4	<2	Low-------	0.37			
	11-29	15-27	1.20-1.40	0.6-2.0	0.17-0.21	7.4-8.4	<2	Low-------	0.37			
	29	---	---	---	---	---	---	----------	----			
120D*:												
Oxman----------	0-4	18-27	1.10-1.30	0.6-2.0	0.19-0.21	7.4-8.4	<2	Low-------	0.32	2	6	.5-1
	4-11	18-35	1.10-1.40	0.6-2.0	0.17-0.21	7.4-8.4	<2	Low-------	0.37			
	11-29	15-27	1.20-1.40	0.6-2.0	0.17-0.21	7.4-8.4	<2	Low-------	0.37			
	29	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
120D*:												
Xeric Torriorthents--	0-3	10-25	1.20-1.40	0.6-2.0	0.15-0.20	6.6-7.8	<2	Low-------	0.37	1	6	1-2
	3-7	10-35	1.20-1.40	0.2-2.0	0.15-0.20	6.6-7.8	<2	Moderate	0.37			
	7	---	---	---	---	---	---	----------	----			
121E, 121F------- Piersonte	0-15	10-20	1.10-1.30	0.6-2.0	0.10-0.13	6.6-7.3	<2	Low-------	0.15	5	8	3-5
	15-60	18-30	1.10-1.30	0.6-2.0	0.05-0.10	6.6-7.3	<2	Low-------	0.15			
122C, 123D, 124D- Poall	0-9	10-20	1.10-1.20	0.6-2.0	0.15-0.17	7.4-8.4	<2	Low-------	0.43	5	3	1-2
	9-25	35-50	1.25-1.35	0.06-0.2	0.15-0.20	7.9-8.4	<2	High------	0.17			
	25-60	10-25	1.20-1.30	0.6-2.0	0.13-0.17	7.9-9.0	<2	Low-------	0.32			
125D*:												
Poall----------	0-9	10-20	1.10-1.20	0.6-2.0	0.15-0.17	7.4-8.4	<2	Low-------	0.43	5	3	1-2
	9-25	35-50	1.25-1.35	0.06-0.2	0.15-0.20	7.9-8.4	<2	High------	0.17			
	25-60	10-25	1.20-1.30	0.6-2.0	0.13-0.17	7.9-9.0	<2	Low-------	0.32			
Xeric Torriorthents--	0-3	10-25	1.20-1.40	0.6-2.0	0.15-0.20	6.6-7.8	<2	Low-------	0.37	1	6	1-2
	3-7	10-35	1.20-1.40	0.2-2.0	0.15-0.20	6.6-7.8	<2	Moderate	0.37			
	7	---	---	---	---	---	---	----------	----			
126A, 127A------- Powval	0-13	10-18	1.25-1.35	0.6-2.0	0.18-0.25	7.4-8.4	<2	Low-------	0.37	5	5	1-3
	13-41	10-18	1.30-1.40	0.6-2.0	0.18-0.25	7.4-8.4	<2	Low-------	0.37			
	41-60	10-18	1.40-1.60	0.6-2.0	0.16-0.23	7.4-8.4	<2	Low-------	0.37			
128B---------- Pritchard	0-12	27-35	1.20-1.35	0.2-0.6	0.16-0.21	6.6-7.3	<2	Moderate	0.32	2	6	3-5
	12-52	50-60	1.20-1.40	0.06-0.2	0.14-0.17	7.4-7.8	<2	High------	0.28			
	52-68	30-40	1.30-1.40	0.2-0.6	0.14-0.21	7.4-7.8	<2	Moderate	0.43			
129B---------- Rastus	0-4	20-27	1.10-1.30	0.6-2.0	0.06-0.10	6.6-7.3	<2	Low-------	0.20	2	8	2-4
	4-12	27-35	1.20-1.30	0.2-0.6	0.15-0.18	6.6-7.3	<2	Moderate	0.24			
	12-24	50-60	1.20-1.40	0.06-0.2	0.10-0.16	6.6-7.8	<2	High------	0.24			
	24-37	---	---	---	0.0	---	---	----------	----			
	37-60	5-15	1.40-1.60	6.0-20	0.0	6.6-7.8	<2	Low-------	0.10			
130E, 130F------- Redcliff	0-8	15-25	1.40-1.45	0.6-2.0	0.10-0.14	7.4-7.8	<2	Low-------	0.20	2	6	1-2
	8-22	20-35	1.35-1.45	0.6-2.0	0.08-0.14	7.4-7.8	<2	Low-------	0.17			
	22-31	15-30	1.35-1.45	0.6-2.0	0.06-0.10	7.4-8.4	<2	Low-------	0.10			
	31	---	---	---	---	---	---	----------	----			
131C*:												
Ridley----------	0-9	15-25	1.10-1.30	0.6-2.0	0.19-0.21	6.6-7.3	<2	Low-------	0.37	3	6	3-5
	9-24	20-40	1.20-1.35	0.2-0.6	0.19-0.21	6.6-7.3	<2	Moderate	0.43			
	24-42	50-60	1.20-1.40	0.06-0.2	0.14-0.16	7.4-7.8	<2	High------	0.28			
	42-68	27-40	1.20-1.35	0.2-0.6	0.15-0.21	7.9-8.4	<2	Moderate	0.43			
Keating---------	0-8	10-20	1.10-1.30	0.6-2.0	0.15-0.18	6.6-7.3	<2	Low-------	0.32	2	5	2-4
	8-12	27-35	1.10-1.30	0.6-2.0	0.17-0.20	6.6-7.3	<2	Moderate	0.28			
	12-22	35-50	1.20-1.40	0.06-0.2	0.12-0.17	6.6-7.3	<2	High------	0.24			
	22	---	---	---	---	---	---	----------	----			
132A*---------- Riverwash	0-6	0-1	---	>6.0	0.01-0.02	---	<2	Low-------	----	---	8	<.1
	6-60	0-1	---	>6.0	0.02-0.03	---	<2	Low-------	----			
133C*:												
Robinette-------	0-13	15-27	1.10-1.30	0.6-2.0	0.19-0.21	6.6-7.3	<2	Low-------	0.43	3	6	2-4
	13-44	27-35	1.20-1.30	0.6-2.0	0.19-0.21	6.6-7.3	<2	Moderate	0.37			
	44-53	40-60	1.20-1.40	0.06-0.2	0.04-0.09	6.6-7.3	<2	High------	0.05			
	53	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
133C*:												
Gwinly----------	0-3	18-27	1.15-1.35	0.6-2.0	0.06-0.11	6.6-7.8	<2	Low--------	0.17	1	8	2-5
	3-8	27-40	1.15-1.35	0.2-0.6	0.06-0.11	6.6-7.3	<2	Moderate	0.17			
	8-17	40-50	1.20-1.30	0.06-0.2	0.05-0.10	6.6-7.3	<2	High------	0.15			
	17	---	---	---	---	---	---	----------	----			
134F*:												
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
Lostbasin-------	0-5	20-27	1.10-1.30	0.6-2.0	0.06-0.11	6.6-7.3	<2	Low--------	0.15	2	8	1-3
	5-28	25-35	1.10-1.30	0.6-2.0	0.04-0.09	6.6-7.3	<2	Low--------	0.10			
	28	---	---	---	---	---	---	----------	----			
Xerorthents-----	0-14	10-25	1.10-1.25	2.0-6.0	0.10-0.15	6.6-7.8	<2	Low--------	0.28	2	5	1-3
	14-29	---	---	---	0.0	---	---	----------	----			
	29	---	---	---	---	---	---	----------	----			
135F*:												
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
Ruckles---------	0-5	27-35	1.35-1.40	0.2-0.6	0.10-0.14	6.6-7.8	<2	Moderate	0.17	1	8	1-2
	5-16	40-60	1.35-1.40	0.06-0.2	0.07-0.11	6.6-7.8	<2	High------	0.05			
	16	---	---	---	---	---	---	----------	----			
136F*:												
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
Ruclick---------	0-2	20-27	1.10-1.30	0.6-2.0	0.09-0.13	6.6-7.3	<2	Low--------	0.24	2	8	1-3
	2-12	27-40	1.20-1.40	0.2-0.6	0.09-0.13	6.6-7.8	<2	Moderate	0.24			
	12-34	40-50	1.20-1.40	0.06-0.2	0.06-0.12	6.6-8.4	<2	High------	0.20			
	34	---	---	---	---	---	---	----------	----			
137F*:												
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
Snell----------	0-4	20-27	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Low--------	0.17	2	8	2-4
	4-9	27-35	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Moderate	0.17			
	9-31	40-50	1.30-1.40	0.2-0.6	0.06-0.10	5.6-7.3	<2	High------	0.10			
	31	---	---	---	---	---	---	----------	----			
138F*:												
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
Snellby---------	0-6	20-27	1.10-1.20	0.6-2.0	0.13-0.17	6.6-7.8	<2	Low--------	0.24	2	8	1-2
	6-10	27-40	1.20-1.30	0.2-0.6	0.13-0.17	6.6-7.8	<2	Moderate	0.24			
	10-18	40-60	1.25-1.40	0.06-0.2	0.10-0.13	7.4-8.4	<2	High------	0.20			
	18-24	27-40	1.25-1.40	0.2-0.6	0.10-0.13	7.4-8.4	<2	Moderate	0.20			
	24	---	---	---	---	---	---	----------	----			
139F*:												
Rock outcrop----	0-60	---	---	---	---	---	<2	----------	----	---	---	---
Xeric Torriorthents--	0-16	10-25	1.10-1.25	2.0-6.0	0.10-0.15	6.6-7.8	<2	Low--------	0.28	2	5	.5-2
	16-34	---	---	---	0.0	---	<2	----------	----			
	34	---	---	---	---	---	---	----------	----			
139F*:												
Darkcanyon------	0-7	20-27	1.10-1.30	0.6-2.0	0.04-0.07	6.6-7.3	<2	Low--------	0.15	2	8	1-3
	7-30	25-35	1.10-1.30	0.6-2.0	0.04-0.08	6.6-7.8	<2	Low--------	0.15			
	30	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
140C*:												
Rockly----------	0-2	20-27	1.25-1.35	0.6-2.0	0.06-0.08	6.1-7.3	<2	Low--------	0.10	1	8	1-3
	2-8	20-30	1.30-1.40	0.6-2.0	0.06-0.11	6.1-7.3	<2	Low--------	0.10			
	8	---	---	---	---	---	---	----------	----			
Gwinly----------	0-3	18-27	1.15-1.35	0.6-2.0	0.06-0.11	6.6-7.8	<2	Low--------	0.17	1	8	2-5
	3-8	27-40	1.15-1.35	0.2-0.6	0.06-0.11	6.6-7.3	<2	Moderate	0.17			
	8-17	40-50	1.20-1.30	0.06-0.2	0.05-0.10	6.6-7.3	<2	High-------	0.15			
	17	---	---	---	---	---	---	----------	----			
141D*, 141E*:												
Roostercomb-----	0-5	27-35	1.30-1.40	0.2-0.6	0.05-0.09	6.6-7.3	<2	Moderate	0.20	2	8	1-3
	5-12	27-35	1.30-1.40	0.2-0.6	0.05-0.09	6.6-7.3	<2	Moderate	0.20			
	12-25	25-35	1.30-1.40	0.2-0.6	0.06-0.11	6.6-7.8	<2	Moderate	0.20			
	25-36	40-50	1.20-1.40	0.06-0.2	0.04-0.09	6.6-7.8	<2	High-------	0.17			
	36	---	---	---	---	---	---	----------	----			
Longbranch------	0-22	10-18	1.10-1.30	0.6-2.0	0.16-0.21	6.6-7.3	<2	Low--------	0.37	3	5	3-5
	22-30	27-35	1.30-1.40	0.2-0.6	0.11-0.15	6.6-7.3	<2	Moderate	0.28			
	30-45	40-50	1.20-1.40	0.06-0.2	0.04-0.09	6.6-7.8	<2	High-------	0.17			
	45-52	20-30	1.20-1.30	0.2-0.6	0.06-0.10	7.4-8.4	<2	Moderate	0.24			
	52	---	---	---	---	---	---	----------	----			
142C*, 143D*, 143E*, 143F*:												
Ruckles--------	0-5	27-35	1.35-1.40	0.2-0.6	0.10-0.14	6.6-7.8	<2	Moderate	0.17	1	8	1-2
	5-16	40-60	1.35-1.40	0.06-0.2	0.07-0.11	6.6-7.8	<2	High-------	0.05			
	16	---	---	---	---	---	---	----------	----			
Ruclick--------	0-2	20-27	1.10-1.30	0.6-2.0	0.09-0.13	6.6-7.3	<2	Low--------	0.24	2	8	1-3
	2-12	27-40	1.20-1.40	0.2-0.6	0.09-0.13	6.6-7.8	<2	Moderate	0.24			
	12-34	40-50	1.20-1.40	0.06-0.2	0.06-0.12	6.6-8.4	<2	High-------	0.20			
	34	---	---	---	---	---	---	----------	----			
144E*, 144F*:												
Ruckles---------	0-5	27-35	1.35-1.40	0.2-0.6	0.10-0.14	6.6-7.8	<2	Moderate	0.17	1	8	1-2
	5-16	40-60	1.35-1.40	0.06-0.2	0.07-0.11	6.6-7.8	<2	High-------	0.05			
	16	---	---	---	---	---	---	----------	----			
Ruclick---------	0-2	20-27	1.10-1.30	0.6-2.0	0.09-0.13	6.6-7.3	<2	Low--------	0.24	2	8	1-3
	2-12	27-40	1.20-1.40	0.2-0.6	0.09-0.13	6.6-7.8	<2	Moderate	0.24			
	12-34	40-50	1.20-1.40	0.06-0.2	0.06-0.12	6.6-8.4	<2	High-------	0.20			
	34	---	---	---	---	---	---	----------	----			
Snellby---------	0-6	20-27	1.10-1.20	0.6-2.0	0.13-0.17	6.6-7.8	<2	Low--------	0.24	2	8	1-2
	6-10	27-40	1.20-1.30	0.2-0.6	0.13-0.17	6.6-7.8	<2	Moderate	0.24			
	10-18	40-60	1.25-1.40	0.06-0.2	0.10-0.13	7.4-8.4	<2	High-------	0.20			
	18-24	27-40	1.25-1.40	0.2-0.6	0.10-0.13	7.4-8.4	<2	Moderate	0.20			
	24	---	---	---	---	---	---	----------	----			
145D, 145E------- Ruclick	0-2	20-27	1.10-1.30	0.6-2.0	0.09-0.13	6.6-7.3	<2	Low--------	0.24	2	8	1-3
	2-12	27-40	1.20-1.40	0.2-0.6	0.09-0.13	6.6-7.8	<2	Moderate	0.24			
	12-34	40-50	1.20-1.40	0.06-0.2	0.06-0.12	6.6-8.4	<2	High-------	0.20			
	34	---	---	---	---	---	---	----------	----			
146D*, 146E*:												
Sag----------	0-22	15-27	1.10-1.30	0.6-2.0	0.19-0.21	6.1-7.3	<2	Low--------	0.43	3	6	2-4
	22-40	27-35	1.20-1.30	0.6-2.0	0.16-0.19	6.1-7.3	<2	Moderate	0.37			
	40-58	35-60	1.20-1.40	0.06-0.2	0.04-0.08	6.1-7.3	<2	High-------	0.05			
	58	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
146D*, 146E*:												
Snell----------	0-4	20-27	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Low--------	0.17	2	8	2-4
	4-9	27-35	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Moderate	0.17			
	9-31	40-50	1.30-1.40	0.2-0.6	0.06-0.10	5.6-7.3	<2	High-------	0.10			
	31	---	---	---	---	---	---	----------	----			
147D, 147E, 147F- Segundo	0-5	10-20	1.30-1.50	0.6-2.0	0.08-0.12	6.6-7.3	<2	Low--------	0.20	5	6	2-3
	5-21	10-20	1.30-1.50	0.6-2.0	0.08-0.12	6.6-7.3	<2	Low--------	0.20			
	21-60	5-15	1.40-1.60	2.0-6.0	0.05-0.10	6.6-7.3	<2	Low--------	0.17			
148F---------- Sinker	0-15	15-25	1.10-1.30	0.6-2.0	0.06-0.11	6.6-7.3	<2	Low--------	0.15	2	8	2-4
	15-32	20-30	1.10-1.30	0.6-2.0	0.04-0.09	6.6-7.3	<2	Low--------	0.10			
	32	---	---	---	---	---	---	----------	----			
149D*, 149E*:												
Sinker----------	0-15	15-25	1.10-1.30	0.6-2.0	0.06-0.11	6.6-7.3	<2	Low--------	0.15	2	8	2-4
	15-32	20-30	1.10-1.30	0.6-2.0	0.04-0.09	6.6-7.3	<2	Low--------	0.10			
	32	---	---	---	---	---	---	----------	----			
Chambeam--------	0-17	15-25	1.10-1.30	0.6-2.0	0.06-0.11	6.1-6.5	<2	Low--------	0.15	3	8	2-4
	17-45	20-30	1.10-1.30	0.6-2.0	0.04-0.09	6.6-7.3	<2	Low--------	0.10			
	45	---	---	---	---	---	---	----------	----			
150D, 150E, 150F- Sisley	0-8	10-18	1.20-1.40	0.6-2.0	0.09-0.12	6.6-7.3	<2	Low--------	0.20	2	8	2-4
	8-24	10-18	1.20-1.40	0.6-2.0	0.07-0.12	6.6-7.3	<2	Low--------	0.20			
	24	---	---	---	---	---	---	----------	----			
151D---------- Skullgulch	0-20	27-35	1.30-1.40	0.2-0.6	0.15-0.19	7.4-7.8	<2	Moderate	0.32	3	6	2-5
	20-24	20-35	1.30-1.40	0.2-0.6	0.15-0.19	7.4-7.8	<2	Low--------	0.28			
	24-39	50-60	1.20-1.40	0.06-0.2	0.13-0.17	7.4-7.8	<2	High-------	0.24			
	39-60	27-35	1.30-1.40	0.2-0.6	0.15-0.19	7.9-8.4	<2	Moderate	0.28			
152F---------- Snaker	0-3	15-20	1.10-1.25	2.0-6.0	0.11-0.15	6.6-7.3	<2	Low--------	0.20	1	8	1-3
	3-16	15-20	1.10-1.25	6.0-20.0	0.08-0.11	6.6-7.8	<2	Low--------	0.20			
	16	---	---	---	---	---	---	----------	----			
153E*:												
Snaker----------	0-3	15-20	1.10-1.25	2.0-6.0	0.11-0.15	6.6-7.3	<2	Low--------	0.20	1	8	1-3
	3-16	15-20	1.10-1.25	6.0-20.0	0.08-0.11	6.6-7.8	<2	Low--------	0.20			
	16	---	---	---	---	---	---	----------	----			
Darkcanyon------	0-7	20-27	1.10-1.30	0.6-2.0	0.04-0.07	6.6-7.3	<2	Low--------	0.15	2	8	1-3
	7-30	25-35	1.10-1.30	0.6-2.0	0.04-0.08	6.6-7.8	<2	Low--------	0.15			
	30	---	---	---	---	---	---	----------	----			
154E*:												
Snaker----------	0-3	15-20	1.10-1.25	2.0-6.0	0.11-0.15	6.6-7.3	<2	Low--------	0.20	1	8	1-3
	3-16	15-20	1.10-1.25	6.0-20.0	0.08-0.11	6.6-7.8	<2	Low--------	0.20			
	16	---	---	---	---	---	---	----------	----			
Darkcanyon------	0-7	20-27	1.10-1.30	0.6-2.0	0.04-0.07	6.6-7.3	<2	Low--------	0.15	2	8	1-3
	7-30	25-35	1.10-1.30	0.6-2.0	0.04-0.08	6.6-7.8	<2	Low--------	0.15			
	30	---	---	---	---	---	---	----------	----			
154E*:												
Xeric Torriorthents--	0-16	10-25	1.10-1.25	2.0-6.0	0.10-0.15	6.6-7.8	<2	Low--------	0.28	2	5	.5-2
	16-34	---	---	---	0.0	---	<2	----------	----			
	34	---	---	---	---	---	---	----------	----			

See footnote at end of table.

TABLE 15.--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
155D*, 155E*:												
Snell----------	0-4	20-27	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Low--------	0.17	2	8	2-4
	4-9	27-35	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Moderate	0.17			
	9-31	40-50	1.30-1.40	0.2-0.6	0.06-0.10	5.6-7.3	<2	High------	0.10			
	31	---	---	---	---	---	---	----------	----			
Ateron----------	0-6	15-25	1.20-1.30	0.6-2.0	0.09-0.11	6.6-7.3	<2	Low--------	0.24	1	8	1-2
	6-12	30-40	1.30-1.40	0.2-0.6	0.08-0.12	6.6-7.3	<2	Moderate	0.15			
	12-17	40-50	1.30-1.40	0.06-0.2	0.08-0.12	6.6-7.3	<2	High------	0.15			
	17	---	---	---	---	---	---	----------	----			
156D*:												
Snell----------	0-4	20-27	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Low--------	0.17	2	8	2-4
	4-9	27-35	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Moderate	0.17			
	9-31	40-50	1.30-1.40	0.2-0.6	0.06-0.10	5.6-7.3	<2	High------	0.10			
	31	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	---	---	---	---	---	----------	----	---	---	---
157F*:												
Snell----------	0-4	20-27	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Low--------	0.17	2	8	2-4
	4-9	27-35	1.25-1.35	0.6-2.0	0.08-0.12	5.6-7.3	<2	Moderate	0.17			
	9-31	40-50	1.30-1.40	0.2-0.6	0.06-0.10	5.6-7.3	<2	High------	0.10			
	31	---	---	---	---	---	---	----------	----			
Sag----------	0-22	15-27	1.10-1.30	0.6-2.0	0.19-0.21	6.1-7.3	<2	Low--------	0.43	3	6	2-4
	22-40	27-35	1.20-1.30	0.6-2.0	0.16-0.19	6.1-7.3	<2	Moderate	0.37			
	40-58	35-60	1.20-1.40	0.06-0.2	0.04-0.08	6.1-7.3	<2	High------	0.05			
	58	---	---	---	---	---	---	----------	----			
158D, 158E------- Snellby	0-6	20-27	1.10-1.20	0.6-2.0	0.13-0.17	6.6-7.8	<2	Low--------	0.24	2	8	1-2
	6-10	27-40	1.20-1.30	0.2-0.6	0.13-0.17	6.6-7.8	<2	Moderate	0.24			
	10-18	40-60	1.25-1.40	0.06-0.2	0.10-0.13	7.4-8.4	<2	High------	0.20			
	18-24	27-40	1.25-1.40	0.2-0.6	0.10-0.13	7.4-8.4	<2	Moderate	0.20			
	24	---	---	---	---	---	---	----------	----			
159A*:												
Stanflow--------	0-2	10-15	1.20-1.30	0.6-2.0	0.03-0.04	>9.0	>16	Low--------	0.43	5	4L	1-2
	2-21	10-15	1.25-1.35	0.6-2.0	0.15-0.17	>9.0	2-4	Low--------	0.43			
	21-28	10-15	1.30-1.40	0.06-0.2	0.15-0.17	8.5-9.0	2-4	Low--------	0.28			
	28-60	10-20	1.30-1.40	0.6-2.0	0.14-0.18	7.9-9.0	<2	Low--------	0.28			
Umapine---------	0-7	10-15	1.30-1.40	0.6-2.0	0.18-0.20	>9.0	>16	Low--------	0.37	5	4L	.5-1
	7-30	10-20	1.30-1.40	0.6-2.0	0.18-0.21	>9.0	8-16	Low--------	0.43			
	30-60	10-20	1.30-1.40	0.6-2.0	0.18-0.21	>9.0	4-8	Low--------	0.43			
160E---------- Stavely	0-11	5-10	1.40-1.50	2.0-6.0	0.08-0.11	6.1-7.3	<2	Low--------	0.15	5	3	1-2
	11-40	5-10	1.50-1.60	2.0-6.0	0.06-0.13	6.1-7.3	<2	Low--------	0.28			
	40-60	5-10	1.55-1.65	2.0-6.0	0.03-0.07	6.1-7.3	<2	Low--------	0.10			
161E, 161F------- Stices	0-3	10-20	0.65-0.85	2.0-6.0	0.11-0.14	6.6-7.3	<2	Low--------	0.20	5	5	2-4
	3-21	10-20	0.65-0.85	2.0-6.0	0.08-0.11	6.1-7.3	<2	Low--------	0.20			
	21-60	5-15	1.30-1.50	2.0-6.0	0.04-0.08	6.6-7.3	<2	Low--------	0.17			
162A*:												
Sumpley---------	0-14	5-10	1.10-1.30	0.6-2.0	0.17-0.21	7.4-8.4	<2	Low--------	0.37	3	5	4-10
	14-34	20-27	1.30-1.40	0.6-2.0	0.11-0.17	6.6-7.8	<2	Moderate	0.20			
	34-60	0-10	1.40-1.60	6.0-20.0	0.03-0.06	6.6-7.8	<2	Low--------	0.05			
Stovepipe-------	0-13	5-10	1.10-1.30	0.6-2.0	0.17-0.21	6.6-7.3	<2	Low--------	0.43	3	6	4-10
	13-24	10-18	1.20-1.40	0.6-2.0	0.16-0.21	6.6-7.8	<2	Low--------	0.37			
	24-60	0-10	1.40-1.60	6.0-20.0	0.03-0.06	7.4-7.8	<2	Low--------	0.05			

See footnote at end of table.

TABLE 15.--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
163D, 163E------- Taterpa	0-13	10-18	1.10-1.30	0.6-2.0	0.14-0.18	6.6-7.3	<2	Low-------	0.37	3	5	2-4
	13-34	10-15	1.40-1.60	2.0-6.0	0.13-0.18	6.1-6.5	<2	Low-------	0.43			
	34-49	5-10	1.40-1.60	2.0-6.0	0.08-0.12	6.1-6.5	<2	Low-------	0.24			
	49	---	---	---	---	---	---	----------	----			
164D*:												
Tolo----------	0-15	5-15	0.70-0.85	0.6-2.0	0.24-0.30	5.6-7.3	<2	Low-------	0.43	5	5	2-5
	15-29	5-15	0.70-0.85	0.6-2.0	0.24-0.30	5.6-7.3	<2	Low-------	0.43			
	29-60	18-30	0.95-1.20	0.2-0.6	0.08-0.10	5.6-7.3	<2	Moderate	0.17			
Crackler--------	0-17	5-10	0.65-0.85	0.6-2.0	0.18-0.33	6.1-6.5	<2	Low-------	0.32	3	6	2-5
	17-34	27-35	1.30-1.40	0.2-0.6	0.10-0.14	6.6-7.3	<2	Moderate	0.20			
	34-54	27-35	1.20-1.40	0.2-0.6	0.09-0.12	6.6-7.3	<2	Moderate	0.15			
	54	---	---	---	---	---	---	----------	----			
165D*:												
Tolo----------	0-15	5-15	0.70-0.85	0.6-2.0	0.24-0.30	5.6-7.3	<2	Low-------	0.43	5	5	2-5
	15-29	5-15	0.70-0.85	0.6-2.0	0.24-0.30	5.6-7.3	<2	Low-------	0.43			
	29-60	18-30	0.95-1.20	0.2-0.6	0.08-0.10	5.6-7.3	<2	Moderate	0.17			
Dogtown---------	0-11	10-20	1.00-1.20	0.6-2.0	0.12-0.17	6.1-7.3	<2	Low-------	0.28	3	8	2-4
	11-41	5-15	1.40-1.60	2.0-6.0	0.07-0.11	6.1-6.5	<2	Low-------	0.32			
	41-67	5-10	1.40-1.60	2.0-6.0	0.04-0.07	5.6-6.5	<2	Low-------	0.32			
	67	---	---	---	---	---	---	----------	----			
166D, 166E------- Top	0-9	18-27	1.10-1.25	0.6-2.0	0.19-0.21	6.1-7.3	<2	Low-------	0.32	3	6	1-3
	9-20	35-45	1.30-1.45	0.2-0.6	0.15-0.21	6.1-7.3	<2	High------	0.37			
	20-48	27-45	1.20-1.40	0.2-0.6	0.11-0.21	6.1-7.3	<2	Moderate	0.32			
	48	---	---	---	---	---	---	----------	----			
167D*, 167E*:												
Top----------	0-9	18-27	1.10-1.25	0.6-2.0	0.19-0.21	6.1-7.3	<2	Low-------	0.32	3	6	1-3
	9-20	35-45	1.30-1.45	0.2-0.6	0.15-0.21	6.1-7.3	<2	High------	0.37			
	20-48	27-45	1.20-1.40	0.2-0.6	0.11-0.21	6.1-7.3	<2	Moderate	0.32			
	48	---	---	---	---	---	---	----------	----			
McGarr----------	0-4	20-27	1.20-1.40	0.2-0.6	0.12-0.19	6.1-7.3	<2	Low-------	0.20	2	8	3-5
	4-29	25-35	1.20-1.40	0.2-0.6	0.12-0.19	6.1-7.3	<2	Moderate	0.24			
	29	---	---	---	---	---	---	----------	----			
168C---------- Typic Xerorthents	0-99	0-5	1.40-1.60	>20.0	0.03-0.05	6.6-7.8	<2	Low-------	0.10	5	8	.5-1
169C, 169D------- Ukiah	0-2	30-40	1.20-1.30	0.06-0.2	0.18-0.20	6.1-7.3	<2	Moderate	0.32	2	4	1-3
	2-28	50-60	1.35-1.40	<0.06	0.14-0.16	6.1-7.3	<2	High------	0.28			
	28-36	25-35	1.35-1.45	0.06-0.2	0.19-0.21	6.6-8.4	<2	Moderate	0.32			
	36	---	---	---	---	---	---	----------	----			
170A---------- Umapine	0-7	10-15	1.30-1.40	0.6-2.0	0.18-0.20	>9.0	>16	Low-------	0.37	5	4L	.5-1
	7-30	10-20	1.30-1.40	0.6-2.0	0.18-0.21	>9.0	8-16	Low-------	0.43			
	30-60	10-20	1.30-1.40	0.6-2.0	0.18-0.21	>9.0	4-8	Low-------	0.43			
171B, 171C------- Virtue	0-7	10-20	1.10-1.20	0.6-2.0	0.19-0.21	6.6-7.3	<2	Low-------	0.32	2	5	1-3
	7-25	25-35	1.10-1.20	0.2-0.6	0.19-0.21	6.6-8.4	<2	Moderate	0.49			
	25-29	20-27	1.20-1.40	0.2-0.6	0.14-0.17	7.4-8.4	<2	Moderate	0.49			
	29-42	---	---	---	0.0	---	---	----------	----			
	42-60	5-15	1.20-1.30	2.0-6.0	0.0	7.4-8.4	<2	Low-------	0.05			

See footnote at end of table.

TABLE 15.--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
172B, 172C------- Virtue	0-7	10-20	1.20-1.30	0.6-2.0	0.08-0.11	6.6-7.3	<2	Low-------	0.28	2	5	1-3
	7-25	25-35	1.10-1.20	0.2-0.6	0.19-0.21	6.6-8.4	<2	Moderate	0.49			
	25-29	20-27	1.20-1.40	0.2-0.6	0.14-0.17	7.4-8.4	<2	Moderate	0.49			
	29-42	---	---	---	0.0	---	---	----------	----			
	42-60	5-15	1.20-1.30	2.0-6.0	0.0	7.4-8.4	<2	Low-------	0.05			
173C---------- Wahstal	0-4	20-27	1.10-1.30	0.6-2.0	0.06-0.10	6.1-7.3	<2	Low-------	0.20	1	8	2-4
	4-12	27-35	1.20-1.30	0.2-0.6	0.07-0.12	6.1-7.3	<2	Moderate	0.20			
	12-18	50-60	1.20-1.40	0.06-0.2	0.04-0.08	6.1-7.3	<2	High------	0.15			
	18-23	---	---	---	0.0	---	---	----------	----			
	23-60	5-15	1.40-1.60	6.0-20.0	0.0	6.6-7.8	<2	Low-------	0.10			
174B---------- Webfoot	0-6	10-18	1.10-1.30	0.6-2.0	0.17-0.21	7.4-8.4	<2	Low-------	0.37	4	5	4-10
	6-25	5-15	1.30-1.50	2.0-6.0	0.10-0.14	7.4-8.4	<2	Low-------	0.24			
	25-60	0-10	1.40-1.60	6.0-20.0	0.03-0.07	6.6-7.8	<2	Low-------	0.10			
175A---------- Wingdale	0-11	18-27	1.20-1.30	0.6-2.0	0.18-0.20	7.9-9.0	<2	Low-------	0.28	5	4L	4-6
	11-34	22-35	1.25-1.35	0.2-2.0	0.20-0.22	7.4-8.4	<2	Low-------	0.37			
	34-60	18-35	1.25-1.35	0.2-2.0	0.17-0.20	7.4-7.8	<2	Low-------	0.32			
176A---------- Wingville	0-8	18-27	1.20-1.30	0.6-2.0	0.20-0.22	7.4-8.4	<2	Low-------	0.28	5	5	3-5
	8-53	22-35	1.25-1.35	0.2-2.0	0.20-0.22	7.4-8.4	<2	Low-------	0.37			
	53-60	18-35	1.25-1.35	0.2-2.0	0.17-0.20	6.6-7.3	<2	Moderate	0.32			
177E---------- Xeric Torriorthents	0-3	10-25	1.20-1.40	0.6-2.0	0.15-0.20	6.6-7.8	<2	Low-------	0.37	1	6	1-2
	3-7	10-35	1.20-1.40	0.2-2.0	0.15-0.20	6.6-7.8	<2	Moderate	0.37			
	7	---	---	---	---	---	---	----------	----			
178F*:												
Xeric Torriorthents--	0-11	10-20	1.20-1.40	2.0-6.0	0.05-0.10	6.6-7.8	<2	Low-------	0.20	2	8	.5-1
	11-24	---	---	---	---	---	---	----------	----			
	24	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	---	---	---	---	<2	----------	----	---	---	---

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

TABLE 16.--WATER FEATURES

("Flooding" and "water table" and terms such as "rare," "brief," "apparent," and "perched" are explained in the text. The symbol < means less than; > means more than. Absence of an entry indicates that the feature is not a concern or that data were not estimated)

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
1D, 1F Anatone	D	None	---	---	>6.0	---	---
2E*, 2F*:							
Anatone	D	None	---	---	>6.0	---	---
Segundo	B	None	---	---	>6.0	---	---
3F Angelpeak	B	None	---	---	>6.0	---	---
4B, 4C Applegate	C	None	---	---	>6.0	---	---
5C Aridic Haploxerolls	B	None	---	---	>6.0	---	---
6C, 7D, 7E Ateron	D	None	---	---	>6.0	---	---
8C*, 9D*, 9E*:							
Ateron	D	None	---	---	>6.0	---	---
Roostercomb	C	None	---	---	>6.0	---	---
10C*:							
Bakeoven	D	None	---	---	>6.0	---	---
Ruckles	D	None	---	---	>6.0	---	---
11A, 11B, 12A, 12B Baker	C	None	---	---	>6.0	---	---
13A Baldock	D	Occasional	Brief	Feb-May	0-1.5	Apparent	Feb-May
14D, 14E, 14F Baldridge	B	None	---	---	>6.0	---	---
15A Balm	D	Rare	---	---	1.0-2.0	Apparent	Jan-Jun
16B, 16C, 16D, 17C Barnard	C	None	---	---	>6.0	---	---
18B Benderly	A	None	---	---	>6.0	---	---
19E Boiler	C	None	---	---	>6.0	---	---
20D Bouldrock	B	None	---	---	>6.0	---	---
21E*:							
Bouldrock	B	None	---	---	>6.0	---	---

See footnote at end of table.

TABLE 16.--WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
21E*:							
Bouldrock	B	None	---	---	>6.0	---	---
22E*, 22F*:							
Bouldrock	B	None	---	---	>6.0	---	---
Kilmerque	C	None	---	---	>6.0	---	---
23A Boyce	D	Rare	---	---	0.5-2.0	Apparent	Mar-Sep
24D, 24E, 24F Brannan	B	None	---	---	>6.0	---	---
25C*, 26D*:							
Brownlee	B	None	---	---	>6.0	---	---
Shangland	B	None	---	---	>6.0	---	---
27C, 28D, 29D Brownscombe	C	None	---	---	>6.0	---	---
30E*:							
Brownscombe	C	None	---	---	>6.0	---	---
Rock outcrop	D	None	---	---	>6.0	---	---
31A Burkemont	C	Rare	---	---	1.0-2.0	Apparent	Feb-May
32A, 33C Burntriver	B	None	---	---	>6.0	---	---
34D*, 34E*:							
Campcreek	C	None	---	---	>6.0	---	---
Skullgulch	C	None	---	---	>6.0	---	---
35A Catherine	C	Rare	---	---	1.5-4.0	Apparent	Dec-Jun
36C*, 37D*:							
Clovercreek	C	None	---	---	>6.0	---	---
Keating	C	None	---	---	>6.0	---	---
38E*, 38F*:							
Copperfield	B	None	---	---	>6.0	---	---
Rock outcrop	D	None	---	---	>6.0	---	---
39D*, 39E*:							
Crackler	B	None	---	---	>6.0	---	---
Rouen	B	None	---	---	>6.0	---	---
40A Cumulic Haploxerolls	B	Occasional	Brief	Jan-Mar	2.0-4.0	Apparent	Jan-Apr
41A*:							
Damore	C	Occasional	Very brief	Mar-Jun	1.0-2.0	Apparent	Mar-Jun

See footnote at end of table.

TABLE 16.--WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
41A*:							
Silvies	D	Occasional	Very brief	Mar-Jun	+1-2.0	Apparent	May-Jul
42D*:							
Derringer	C	None	---	---	>6.0	---	---
Harlow	D	None	---	---	>6.0	---	---
43E*:							
Dogtown	B	None	---	---	>6.0	---	---
Dogtown	B	None	---	---	>6.0	---	---
44F Dogtown	B	None	---	---	>6.0	---	---
45C, 46D, 46E, 47D, 47E Durkee	C	None	---	---	>6.0	---	---
48F Eaglecap	B	None	---	---	>6.0	---	---
49D, 49E Emily	B	None	---	---	>6.0	---	---
50C, 51D, 51E Encina	B	None	---	---	>6.0	---	---
52E*:							
Fivebit	D	None	---	---	>6.0	---	---
Rock outcrop	D	None	---	---	>6.0	---	---
53B Glasgow	C	None	---	---	>6.0	---	---
54B Goodrich	B	None	---	---	>6.0	---	---
55B*:							
Goodrich	B	None	---	---	>6.0	---	---
Benderly	A	None	---	---	>6.0	---	---
56C, 57D, 58D Greenscombe	B	None	---	---	>6.0	---	---
59D*, 59E*, 59F*:							
Gwinly	D	None	---	---	>6.0	---	---
Immig	C	None	---	---	>6.0	---	---
60D*, 60E*, 60F*:							
Gwinly	D	None	---	---	>6.0	---	---
Immig	C	None	---	---	>6.0	---	---
Snell	C	None	---	---	>6.0	---	---
61D*:							
Gwinly	D	None	---	---	>6.0	---	---

See footnote at end of table.

TABLE 16.--WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
61D*:							
Rockly	D	None	---	---	>6.0	---	---
62A Haines	C	Rare	---	---	1.0-2.0	Apparent	Feb-May
63A Halfway	D	None	---	---	3.0-5.0	Apparent	Mar-Jun
64C Hall Ranch	C	None	---	---	>6.0	---	---
65D, 66D Hankins	C	None	---	---	>6.0	---	---
67C*:							
Hankins	C	None	---	---	>6.0	---	---
Hankins	C	None	---	---	>6.0	---	---
68C Harlow	D	None	---	---	>6.0	---	---
69E*:							
Harlow	D	None	---	---	>6.0	---	---
Derringer	C	None	---	---	>6.0	---	---
70A Hershal	D	Rare	---	---	0.5-1.5	Apparent	Mar-Jun
71B, 71C, 72C Hibbard	C	None	---	---	>6.0	---	---
73B*:							
Hibbard	C	None	---	---	>6.0	---	---
Rockly	D	None	---	---	>6.0	---	---
74D*, 74E*:							
Highhorn	B	None	---	---	>6.0	---	---
Huntrock	B	None	---	---	>6.0	---	---
75D Hudspeth	C	None	---	---	>6.0	---	---
76D*, 76E*:							
Hudspeth	C	None	---	---	>6.0	---	---
Morningstar	B	None	---	---	>6.0	---	---
77F*:							
Huntrock	B	None	---	---	>6.0	---	---
Highhorn	B	None	---	---	>6.0	---	---
78E*:							
Hyall	C	None	---	---	>6.0	---	---
Badland	D	None	---	---	>6.0	---	---

See footnote at end of table.

TABLE 16.--WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
79D*, 80E*:							
Hyall	C	None	---	---	>6.0	---	---
Simas	C	None	---	---	>6.0	---	---
81C, 82C Immig	C	None	---	---	>6.0	---	---
83D, 83E, 83F Inkler	B	None	---	---	>6.0	---	---
84D Jett	B	Rare	---	---	4.0-6.0	Apparent	Feb-Apr
85D Keating	C	None	---	---	>6.0	---	---
86D, 86E Kilmerque	C	None	---	---	>6.0	---	---
87D, 87E Klicker	C	None	---	---	>6.0	---	---
88D*:							
Klicker	C	None	---	---	>6.0	---	---
Anatone	D	None	---	---	>6.0	---	---
89D*, 89E*:							
Klicker	C	None	---	---	>6.0	---	---
Fivebit	D	None	---	---	>6.0	---	---
90B, 90C Ladd	B	None	---	---	>6.0	---	---
91A La Grande	B	Rare	---	---	5.0-6.0	Apparent	Mar-May
92A, 93A Langrell	B	Rare	---	---	>6.0	---	---
94C, 95C Legler	B	Rare	---	---	>6.0	---	---
96E, 96F Lickskillet	C	None	---	---	>6.0	---	---
97E*:							
Lickskillet	D	None	---	---	>6.0	---	---
Rock outcrop	D	None	---	---	>6.0	---	---
98C, 99C Lookout	C	None	---	---	>6.0	---	---
100D Lostbasin	C	None	---	---	>6.0	---	---
101E*:							
Lostbasin	C	None	---	---	>6.0	---	---

See footnote at end of table.

TABLE 16.--WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
101E*:							
Xerorthents	B	None	---	---	>6.0	---	---
Rock outcrop	D	None	---	---	>6.0	---	---
102C, 103D, 103E, 103F--Lovline	C	None	---	---	>6.0	---	---
104D, 105C, 106D--Marack	C	None	---	---	>6.0	---	---
107C*:							
Marack	C	None	---	---	>6.0	---	---
Marack	C	None	---	---	>6.0	---	---
108D*:							
Marack	C	None	---	---	>6.0	---	---
Badland	D	None	---	---	>6.0	---	---
109C, 110D--McEwen	B	None	---	---	>6.0	---	---
111D*, 111E*:							
McGarr	C	None	---	---	>6.0	---	---
Kahler	B	None	---	---	>6.0	---	---
112D--Morningstar	B	None	---	---	>6.0	---	---
113D, 113E--Nagle	B	None	---	---	>6.0	---	---
114C, 115D, 116D--North Powder	C	None	---	---	>6.0	---	---
117D*:							
North Powder	C	None	---	---	>6.0	---	---
Rock outcrop	D	None	---	---	>6.0	---	---
118C, 119D--Oxman	B	None	---	---	>6.0	---	---
120D*:							
Oxman	B	None	---	---	>6.0	---	---
Xeric Torriorthents	D	None	---	---	>6.0	---	---
121E, 121F--Piersonte	A	None	---	---	>6.0	---	---
122C, 123D, 124D--Poall	C	None	---	---	>6.0	---	---
125D*:							
Poall	C	None	---	---	>6.0	---	---
Xeric Torriorthents	D	None	---	---	>6.0	---	---

See footnote at end of table.

TABLE 16.--WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
126A, 127A Powval	B	None	---	---	4.0-6.0	Apparent	Feb-May
128B Pritchard	C	None	---	---	>6.0	---	---
129B Rastus	C	None	---	---	>6.0	---	---
130E, 130F Redcliff	C	None	---	---	>6.0	---	---
131C*:							
Ridley	C	None	---	---	>6.0	---	---
Keating	C	None	---	---	>6.0	---	---
132A* Riverwash	D	Frequent	Long to very long.	Oct-Jul	0-2.0	Apparent	Jan-Dec
133C*:							
Robinette	B	None	---	---	>6.0	---	---
Gwinly	D	None	---	---	>6.0	---	---
134F*:							
Rock outcrop	D	None	---	---	>6.0	---	---
Lostbasin	C	None	---	---	>6.0	---	---
Xerorthents	B	None	---	---	>6.0	---	---
135F*:							
Rock outcrop	D	None	---	---	>6.0	---	---
Ruckles	D	None	---	---	>6.0	---	---
136F*:							
Rock outcrop	D	None	---	---	>6.0	---	---
Ruclick	C	None	---	---	>6.0	---	---
137F*:							
Rock outcrop	D	None	---	---	>6.0	---	---
Snell	C	None	---	---	>6.0	---	---
138F*:							
Rock outcrop	D	None	---	---	>6.0	---	---
Snellby	C	None	---	---	>6.0	---	---
139F*:							
Rock outcrop	D	None	---	---	>6.0	---	---
Xeric Torriorthents	B	None	---	---	>6.0	---	---
Darkcanyon	C	None	---	---	>6.0	---	---
140C*:							
Rockly	D	None	---	---	>6.0	---	---

See footnote at end of table.

TABLE 16.--WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
140C*:							
Gwinly	D	None	---	---	>6.0	---	---
141D*, 141E*:							
Roostercomb	C	None	---	---	>6.0	---	---
Longbranch	C	None	---	---	>6.0	---	---
142C*, 143D*, 143E*, 143F*:							
Ruckles	D	None	---	---	>6.0	---	---
Ruclick	C	None	---	---	>6.0	---	---
144E*, 144F*:							
Ruckles	D	None	---	---	>6.0	---	---
Ruclick	C	None	---	---	>6.0	---	---
Snellby	C	None	---	---	>6.0	---	---
145D, 145E Ruclick	C	None	---	---	>6.0	---	---
146D*, 146E*:							
Sag	B	None	---	---	>6.0	---	---
Snell	C	None	---	---	>6.0	---	---
147D, 147E, 147F Segundo	B	None	---	---	>6.0	---	---
148F Sinker	C	None	---	---	>6.0	---	---
149D*, 149E*:							
Sinker	C	None	---	---	>6.0	---	---
Chambeam	B	None	---	---	>6.0	---	---
150D, 150E, 150F Sisley	B	None	---	---	>6.0	---	---
151D Skullgulch	C	None	---	---	>6.0	---	---
152F Snaker	D	None	---	---	>6.0	---	---
153E*:							
Snaker	D	None	---	---	>6.0	---	---
Darkcanyon	C	None	---	---	>6.0	---	---
154E*:							
Snaker	D	None	---	---	>6.0	---	---
Darkcanyon	C	None	---	---	>6.0	---	---
Xeric Torriorthents	B	None	---	---	>6.0	---	---

See footnote at end of table.

TABLE 16.--WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
155D*, 155E*:							
Snell	C	None	---	---	>6.0	---	---
Ateron	D	None	---	---	>6.0	---	---
156D*:							
Snell	C	None	---	---	>6.0	---	---
Rock outcrop	D	None	---	---	>6.0	---	---
157F*:							
Snell	C	None	---	---	>6.0	---	---
Sag	B	None	---	---	>6.0	---	---
158D, 158E Snellby	C	None	---	---	>6.0	---	---
159A*:							
Stanflow	C	None	---	---	2.0-4.0	Apparent	Feb-May
Umapine	D	Rare	---	---	1.0-2.0	Apparent	Feb-May
160E Stavely	B	None	---	---	>6.0	---	---
161E, 161F Stices	B	None	---	---	>6.0	---	---
162A*:							
Sumpley	C	Occasional	Very brief	Mar-Jun	1.0-2.0	Apparent	Mar-Jun
Stovepipe	D	Occasional	Brief	Mar-Jun	0.5-1.5	Apparent	Mar-Jun
163D, 163E Taterpa	B	None	---	---	>6.0	---	---
164D*:							
Tolo	B	None	---	---	>6.0	---	---
Crackler	B	None	---	---	>6.0	---	---
165D*:							
Tolo	B	None	---	---	>6.0	---	---
Dogtown	B	None	---	---	>6.0	---	---
166D, 166E Top	C	None	---	---	>6.0	---	---
167D*, 167E*:							
Top	C	None	---	---	>6.0	---	---
McGarr	C	None	---	---	>6.0	---	---
168C Typic Xerorthents	A	None	---	---	3.0-6.0	Apparent	Jan-Jun
169C, 169D Ukiah	D	None	---	---	>6.0	---	---

See footnote at end of table.

TABLE 16.--WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table		
		Frequency	Duration	Months	Depth	Kind	Months
					Ft		
170A Umapine	D	Rare	---	---	1.0-2.0	Apparent	Feb-May
171B, 171C, 172B, 172C Virtue	C	None	---	---	>6.0	---	---
173C Wahstal	D	None	---	---	>6.0	---	---
174B Webfoot	C	Rare	---	---	1.0-2.0	Apparent	Mar-Jun
175A Wingdale	D	Occasional	Brief	Jan-Apr	0-1.5	Apparent	Mar-May
176A Wingville	D	Rare	---	---	1.5-3.0	Apparent	Mar-May
177E Xeric Torriorthents	D	None	---	---	>6.0	---	---
178F*:							
Xeric Torriorthents	A	None	---	---	>6.0	---	---
Rock outcrop	D	None	---	---	>6.0	---	---

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

TABLE 17.--SOIL FEATURES

(The symbol < means less than; > means more than. Absence of an entry indicates that the feature is not a concern or that data were not estimated)

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
1D, 1F Anatone	10-20	Hard	---	---	Moderate	Moderate	Low.
2E*, 2F*:							
Anatone	10-20	Hard	---	---	Moderate	Moderate	Low.
Segundo	>60	---	---	---	Moderate	Low	Low.
3F Angelpeak	40-60	Hard	---	---	Moderate	Low	Moderate.
4B, 4C Applegate	>60	---	---	---	Moderate	Moderate	Moderate.
5C Aridic Haploxerolls	>60	---	---	---	Moderate	Moderate	Low.
6C, 7D, 7E Ateron	10-20	Hard	---	---	Moderate	Moderate	Low.
8C*, 9D*, 9E*:							
Ateron	10-20	Hard	---	---	Moderate	Moderate	Low.
Roostercomb	20-40	Hard	---	---	Moderate	Moderate	Low.
10C*:							
Bakeoven	4-10	Hard	---	---	Moderate	Moderate	Low.
Ruckles	10-20	Hard	---	---	Moderate	Moderate	Low.
11A, 11B, 12A, 12B Baker	>60	---	20-40	Thin	Moderate	High	Low.
13A Baldock	>60	---	---	---	High	High	Low.
14D, 14E, 14F Baldridge	>60	---	---	---	Moderate	Moderate	Low.
15A Balm	>60	---	---	---	Moderate	High	Low.
16B, 16C, 16D, 17C Barnard	>60	---	20-40	Thick	Moderate	High	Low.
18B Benderly	>60	---	---	---	Low	Moderate	Low.
19E Boiler	40-60	Soft	---	---	Moderate	Moderate	Low.
20D Bouldrock	20-40	Soft	---	---	Moderate	Low	Moderate.
21E*:							
Bouldrock	20-40	Soft	---	---	Moderate	Low	Moderate.

See footnote at end of table.

TABLE 17.--SOIL FEATURES--Continued

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
21E*:							
Bouldrock	20-40	Soft	---	---	Moderate	Low	Moderate.
22E*, 22F*:							
Bouldrock	20-40	Soft	---	---	Moderate	Low	Moderate.
Kilmerque	20-40	Soft	---	---	Moderate	Moderate	Low.
23A Boyce	>60	---	---	---	High	High	Low.
24D, 24E, 24F Brannan	40-60	Hard	---	---	High	Low	Low.
25C*, 26D*:							
Brownlee	40-60	Soft	---	---	Moderate	Moderate	Moderate.
Shangland	20-40	Soft	---	---	Moderate	Moderate	Low.
27C, 28D, 29D Brownscombe	20-40	Soft	---	---	Moderate	Moderate	Low.
30E*:							
Brownscombe	20-40	Soft	---	---	Moderate	Moderate	Low.
Rock outcrop	0	Hard	---	---	---	---	---
31A Burkemont	>60	---	---	---	High	High	Low.
32A, 33C Burntriver	>60	---	---	---	Moderate	High	Low.
34D*, 34E*:							
Campcreek	>60	---	---	---	Moderate	High	Low.
Skullgulch	>60	---	---	---	Moderate	High	Low.
35A Catherine	>60	---	---	---	High	Moderate	Low.
36C*, 37D*:							
Clovercreek	14-20	Hard	---	---	Moderate	Moderate	Low.
Keating	20-40	Hard	---	---	Moderate	Moderate	Low.
38E*, 38F*:							
Copperfield	>60	---	---	---	Moderate	Moderate	Low.
Rock outcrop	0	Hard	---	---	---	---	---
39D*, 39E*:							
Crackler	40-60	Hard	---	---	Moderate	Moderate	Low.
Rouen	20-40	Hard	---	---	Moderate	Moderate	Low.
40A Cumulic Haploxerolls	>60	---	---	---	Moderate	Moderate	Low.
41A*:							
Damore	>60	---	---	---	Moderate	High	Low.

See footnote at end of table.

TABLE 17.--SOIL FEATURES--Continued

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
41A*:							
Silvies	>60	---	---	---	High	Moderate	Low.
42D*:							
Derringer	20-40	Soft	---	---	Moderate	Moderate	Low.
Harlow	10-20	Hard	---	---	Moderate	Moderate	Low.
43E*:							
Dogtown	>60	---	---	---	Moderate	Low	Moderate.
Dogtown	40-60	Soft	---	---	Moderate	Low	Moderate.
44F Dogtown	40-60	Soft	---	---	Moderate	Low	Moderate.
45C, 46D, 46E, 47D, 47E Durkee	20-40	Hard	---	---	Moderate	High	Low.
48F Eaglecap	>60	---	---	---	Moderate	Moderate	Low.
49D, 49E Emily	>60	---	---	---	Moderate	Low	Low.
50C, 51D, 51E Encina	>60	---	---	---	Moderate	Low	Low.
52E*:							
Fivebit	10-20	Hard	---	---	Moderate	Moderate	Low.
Rock outcrop	0	Hard	---	---	---	---	---
53B Glasgow	20-40	Hard	---	---	Moderate	High	Low.
54B Goodrich	>60	---	---	---	Moderate	Moderate	Low.
55B*:							
Goodrich	>60	---	---	---	Moderate	Moderate	Low.
Benderly	>60	---	---	---	Low	Moderate	Low.
56C, 57D, 58D Greenscombe	20-40	Soft	---	---	Moderate	Moderate	Low.
59D*, 59E*, 59F*:							
Gwinly	10-20	Hard	---	---	Moderate	Moderate	Low.
Immig	20-40	Hard	---	---	Moderate	Moderate	Low.
60D*, 60E*, 60F*:							
Gwinly	10-20	Hard	---	---	Moderate	Moderate	Low.
Immig	20-40	Hard	---	---	Moderate	Moderate	Low.
Snell	20-40	Hard	---	---	Moderate	Moderate	Moderate.
61D*:							
Gwinly	10-20	Hard	---	---	Moderate	Moderate	Low.

See footnote at end of table.

TABLE 17.--SOIL FEATURES--Continued

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
61D*:							
Rockly	5-10	Hard	---	---	Moderate	Moderate	Low.
62A Haines	>60	---	---	---	High	High	Low.
63A Halfway	>60	---	---	---	Moderate	High	Low.
64C Hall Ranch	20-40	Soft	---	---	Moderate	Moderate	Low.
65D Hankins	40-60	Soft	---	---	Moderate	Moderate	Low.
66D Hankins	>60	---	---	---	Moderate	Moderate	Low.
67C*:							
Hankins	40-60	Soft	---	---	Moderate	Moderate	Low.
Hankins	>60	---	---	---	Moderate	Moderate	Low.
68C Harlow	10-20	Hard	---	---	Moderate	Moderate	Low.
69E*:							
Harlow	10-20	Hard	---	---	Moderate	Moderate	Low.
Derringer	20-40	Soft	---	---	Moderate	Moderate	Low.
70A Hershal	>60	---	---	---	High	Moderate	Low.
71B, 71C, 72C Hibbard	>60	---	20-40	Thick	Moderate	High	Low.
73B*:							
Hibbard	>60	---	20-40	Thick	Moderate	High	Low.
Rockly	>60	---	6-12	Thick	Moderate	Moderate	Low.
74D*, 74E*:							
Highhorn	40-60	Hard	---	---	Moderate	Moderate	Moderate.
Huntrock	20-40	Hard	---	---	Moderate	Moderate	Low.
75D Hudspeth	20-40	Hard	---	---	Moderate	Moderate	Low.
76D*, 76E*:							
Hudspeth	20-40	Hard	---	---	Moderate	Moderate	Low.
Morningstar	>60	---	---	---	Moderate	Moderate	Low.
77F*:							
Huntrock	20-40	Hard	---	---	Moderate	Moderate	Low.
Highhorn	40-60	Hard	---	---	Moderate	Moderate	Moderate.

See footnote at end of table.

TABLE 17.--SOIL FEATURES--Continued

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
78E*:							
Hyall	>60	---	---	---	Moderate	Moderate	Low.
Badland	0-3	Soft	---	---	---	---	---
79D*, 80E*:							
Hyall	>60	---	---	---	Moderate	Moderate	Low.
Simas	>60	---	---	---	Low	High	Low.
81C, 82C Immig	20-40	Hard	---	---	Moderate	Moderate	Low.
83D, 83E, 83F Inkler	>60	---	---	---	Moderate	Moderate	Low.
84D Jett	>60	---	---	---	High	High	Low.
85D Keating	20-40	Hard	---	---	Moderate	Moderate	Low.
86D, 86E Kilmerque	20-40	Soft	---	---	Moderate	Moderate	Low.
87D, 87E Klicker	20-40	Hard	---	---	Moderate	Moderate	Low.
88D*:							
Klicker	20-40	Hard	---	---	Moderate	Moderate	Low.
Anatone	10-20	Hard	---	---	Moderate	Moderate	Low.
89D*, 89E*:							
Klicker	20-40	Hard	---	---	Moderate	Moderate	Low.
Fivebit	10-20	Hard	---	---	Moderate	Moderate	Low.
90B, 90C Ladd	>60	---	---	---	Moderate	Moderate	Low.
91A La Grande	>60	---	---	---	High	High	Low.
92A, 93A Langrell	>60	---	---	---	Moderate	Moderate	Low.
94C, 95C Legler	>60	---	---	---	Moderate	Moderate	Low.
96E, 96F Lickskillet	10-20	Hard	---	---	Moderate	Moderate	Low.
97E*:							
Lickskillet	12-20	Hard	---	---	Moderate	Moderate	Low.
Rock outcrop	0	Hard	---	---	---	---	-
98C, 99C Lookout	30-50	Hard	20-40	Thick	Low	High	Low.

See footnote at end of table.

TABLE 17.--SOIL FEATURES--Continued

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
100D Lostbasin	20-40	Hard	---	---	Moderate	Moderate	Low.
101E*:							
Lostbasin	20-40	Hard	---	---	Moderate	Moderate	Low.
Xerorthents	5-60	Hard	---	---	Moderate	Moderate	Low.
Rock outcrop	0	Hard	---	---	---	---	---
102C, 103D, 103E, 103F Lovline	20-40	Hard	---	---	Moderate	Moderate	Low.
104D, 105C, 106D Marack	40-60	Soft	---	---	Moderate	High	Low.
107C*:							
Marack	40-60	Soft	---	---	Moderate	High	Low.
Marack	40-60	Soft	---	---	Moderate	High	Low.
108D*:							
Marack	40-60	Soft	---	---	Moderate	High	Low.
Badland	0-3	Soft	---	---	---	---	---
109C, 110D McEwen	>60	---	---	---	Moderate	Moderate	Low.
111D*, 111E*:							
McGarr	20-40	Hard	---	---	Moderate	Moderate	Low.
Kahler	>60	---	---	---	Moderate	Moderate	Moderate
112D Morningstar	>60	---	---	---	Moderate	Moderate	Low.
113D, 113E Nagle	>60	---	---	---	Moderate	High	Low.
114C, 115D, 116D North Powder	20-40	Soft	---	---	Moderate	High	Low.
117D*:							
North Powder	20-40	Soft	---	---	Moderate	High	Low.
Rock outcrop	0	Hard	---	---	---	---	---
118C, 119D Oxman	20-40	Soft	---	---	Moderate	Moderate	Low.
120D*:							
Oxman	20-40	Soft	---	---	Moderate	Moderate	Low.
Xeric Torriorthents	3-20	Soft	---	---	Moderate	Moderate	Low.
121E, 121F Piersonte	>60	---	---	---	Moderate	Low	Low.
122C, 123D, 124D Poall	>60	---	---	---	Low	High	Low.

See footnote at end of table.

TABLE 17.--SOIL FEATURES--Continued

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
125D*:							
Poall	>60	---	---	---	Low	High	Low.
Xeric Torriorthents	3-20	Soft	---	---	Moderate	Moderate	Low.
126A, 127A Powval	>60	---	---	---	High	High	Low.
128B Pritchard	>60	---	---	---	Moderate	Moderate	Low.
129B Rastus	>60	---	20-30	Thick	Moderate	Moderate	Low.
130E, 130F Redcliff	20-40	Hard	---	---	Moderate	High	Low.
131C*:							
Ridley	>60	---	---	---	Moderate	High	Low.
Keating	20-40	Hard	---	---	Moderate	Moderate	Low.
132A* Riverwash	>60	---	---	---	---	---	---
133C*:							
Robinette	40-60	Hard	---	---	Moderate	Moderate	Low.
Gwinly	10-20	Hard	---	---	Moderate	Moderate	Low.
134F*:							
Rock outcrop	0	Hard	---	---	---	---	---
Lostbasin	20-40	Hard	---	---	Moderate	Moderate	Low.
Xerorthents	5-60	Hard	---	---	Moderate	Moderate	Low.
135F*:							
Rock outcrop	0	Hard	---	---	---	---	---
Ruckles	10-20	Hard	---	---	Moderate	Moderate	Low.
136F*:							
Rock outcrop	0	Hard	---	---	---	---	---
Ruclick	20-40	Hard	---	---	Low	Moderate	Low.
137F*:							
Rock outcrop	0	Hard	---	---	---	---	---
Snell	20-40	Hard	---	---	Moderate	Moderate	Moderate.
138F*:							
Rock outcrop	0	Hard	---	---	---	---	---
Snellby	20-40	Hard	---	---	High	High	Low.
139F*:							
Rock outcrop	0	Hard	---	---	---	---	---
Xeric Torriorthents	8-40	Hard	---	---	Moderate	Moderate	Low.

See footnote at end of table.

TABLE 17.--SOIL FEATURES--Continued

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
139F*:							
Darkcanyon	20-40	Hard	---	---	Low	Moderate	Low.
140C*:							
Rockly	5-10	Hard	---	---	Moderate	Moderate	Low.
Gwinly	10-20	Hard	---	---	Moderate	Moderate	Low.
141D*, 141E*:							
Roostercomb	20-40	Hard	---	---	Moderate	Moderate	Low.
Longbranch	40-60	Hard	---	---	Moderate	Moderate	Low.
142C*, 143D*, 143E*, 143F*:							
Ruckles	10-20	Hard	---	---	Moderate	Moderate	Low.
Ruclick	20-40	Hard	---	---	Low	Moderate	Low.
144E*, 144F*:							
Ruckles	10-20	Hard	---	---	Moderate	Moderate	Low.
Ruclick	20-40	Hard	---	---	Low	Moderate	Low.
Snellby	20-40	Hard	---	---	High	High	Low.
145D, 145E Ruclick	20-40	Hard	---	---	Low	Moderate	Low.
146D*, 146E*:							
Sag	40-60	Hard	---	---	Moderate	Moderate	Low.
Snell	20-40	Hard	---	---	Moderate	Moderate	Moderate.
147D, 147E, 147F Segundo	>60	---	---	---	Moderate	Low	Low.
148F Sinker	20-40	Hard	---	---	Moderate	Moderate	Low.
149D*, 149E*:							
Sinker	20-40	Hard	---	---	Moderate	Moderate	Low.
Chambeam	40-60	Hard	---	---	Moderate	Moderate	Low.
150D, 150E, 150F Sisley	20-40	Hard	---	---	Moderate	Low	Low.
151D Skullgulch	>60	---	---	---	Moderate	High	Low.
152F Snaker	10-20	Hard	---	---	Low	Moderate	Low.
153E*:							
Snaker	10-20	Hard	---	---	Low	Moderate	Low.
Darkcanyon	20-40	Hard	---	---	Low	Moderate	Low.
154E*:							
Snaker	10-20	Hard	---	---	Low	Moderate	Low.

See footnote at end of table.

TABLE 17.--SOIL FEATURES--Continued

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
154E*:							
Darkcanyon	20-40	Hard	---	---	Low	Moderate	Low.
Xeric Torriorthents	8-60	Hard	---	---	Moderate	Moderate	Low.
155D*, 155E*:							
Snell	20-40	Hard	---	---	Moderate	Moderate	Moderate.
Ateron	10-20	Hard	---	---	Moderate	Moderate	Low.
156D*:							
Snell	20-40	Hard	---	---	Moderate	Moderate	Moderate.
Rock outcrop	0	Hard	---	---	---	---	---
157F*:							
Snell	20-40	Hard	---	---	Moderate	Moderate	Moderate.
Sag	40-60	Hard	---	---	Moderate	Moderate	Low.
158D, 158E Snellby	20-40	Hard	---	---	High	High	Low.
159A*:							
Stanflow	>60	---	---	---	Moderate	High	Low.
Umapine	>60	---	---	---	High	High	Low.
160E Stavely	>60	---	---	---	Moderate	Moderate	Low.
161E, 161F Stices	>60	---	---	---	Moderate	Low	Moderate.
162A*:							
Sumpley	>60	---	---	---	Moderate	High	Low.
Stovepipe	>60	---	---	---	High	High	Low.
163D, 163E Taterpa	40-60	Soft	---	---	Moderate	Low	Low.
164D*:							
Tolo	>60	---	---	---	High	Moderate	Moderate.
Crackler	40-60	Hard	---	---	Moderate	Moderate	Low.
165D*:							
Tolo	>60	---	---	---	High	Moderate	Moderate.
Dogtown	40-60	Soft	---	---	Moderate	Low	Moderate.
166D, 166E Top	40-60	Hard	---	---	Moderate	High	Low.
167D*, 167E*:							
Top	40-60	Hard	---	---	Moderate	High	Low.
McGarr	20-40	Hard	---	---	Moderate	Moderate	Low.

See footnote at end of table.

TABLE 17.--SOIL FEATURES--Continued

Soil name and map symbol	Bedrock		Cemented pan		Potential frost action	Risk of corrosion	
	Depth	Hardness	Depth	Hardness		Uncoated steel	Concrete
	In		In				
168C Typic Xerorthents	>60	---	---	---	Low	Low	Low.
169C, 169D Ukiah	20-40	Soft	---	---	Low	High	Low.
170A Umapine	>60	---	---	---	High	High	Low.
171B, 171C, 172B, 172C Virtue	>60	---	20-40	Thin	Moderate	High	Low.
173C Wahstal	>60	---	10-20	Thick	Moderate	Moderate	Low.
174B Webfoot	>60	---	---	---	Moderate	High	Low.
175A Wingdale	>60	---	---	---	High	High	Low.
176A Wingville	>60	---	---	---	High	High	Low.
177E Xeric Torriorthents	3-20	Soft	---	---	Moderate	Moderate	Low.
178F*:							
Xeric Torriorthents	10-60	Hard	---	---	Low	Moderate	Low.
Rock outcrop	0	Hard	---	---	---	---	---

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

TABLE 18.--CLASSIFICATION OF THE SOILS

Soil name	Family or higher taxonomic class
Anatone	Loamy-skeletal, mixed, frigid Lithic Haploxerolls
Angelpeak	Ashy over loamy-skeletal, mixed Typic Vitricryands
Applegate	Fine, montmorillonitic, mesic Ultic Argixerolls
Aridic Haploxerolls	Mesic Aridic Haploxerolls
Ateron	Clayey-skeletal, montmorillonitic, frigid Lithic Argixerolls
Bakeoven	Loamy-skeletal, mixed, mesic Lithic Haploxerolls
Baker	Coarse-loamy, mixed, mesic Orthidic Durixerolls
Baldock	Fine-loamy, mixed (calcareous), mesic Typic Haplaquepts
Baldridge	Loamy-skeletal, mixed, frigid Pachic Haploxerolls
Balm	Coarse-loamy over sandy or sandy-skeletal, mixed, mesic Fluvaquentic Haploxerolls
Barnard	Fine, montmorillonitic, mesic Aridic Durixerolls
Benderly	Sandy-skeletal, mixed, mesic Entic Haploxerolls
Boiler	Clayey-skeletal, montmorillonitic, frigid Ultic Palexerolls
Bouldrock	Coarse-loamy, mixed, frigid Typic Xerochrepts
Boyce	Fine-silty over sandy or sandy-skeletal, mixed, mesic Cumulic Haplaquolls
Brannan	Ashy over loamy-skeletal, mixed, frigid Typic Vitrixerands
Brownlee	Fine-loamy, mixed, mesic Ultic Argixerolls
Brownscombe	Fine, montmorillonitic, mesic Aridic Argixerolls
Burkemont	Fine, montmorillonitic (calcareous), mesic Typic Halaquepts
Burntriver	Fine-loamy, mixed, frigid Xerollic Camborthids
Campcreek	Fine, montmorillonitic, frigid Typic Palexerolls
Catherine	Fine-silty, mixed, mesic Cumulic Haplaquolls
Chambeam	Loamy-skeletal, mixed, frigid Pachic Haploxerolls
Clovercreek	Loamy-skeletal, mixed, mesic Lithic Argixerolls
Copperfield	Loamy-skeletal, mixed, mesic Pachic Argixerolls
Crackler	Ashy over loamy-skeletal, mixed, frigid Typic Vitrixerands
Cumulic Haploxerolls	Cumulic Haploxerolls
Damore	Fine, montmorillonitic, frigid Fluvaquentic Haploxerolls
Darkcanyon	Loamy-skeletal, mixed, mesic Xerollic Camborthids
Derringer	Clayey-skeletal, montmorillonitic, frigid Typic Argixerolls
Dogtown	Loamy-skeletal, mixed, frigid Ultic Haploxerolls
Durkee	Fine, montmorillonitic, frigid Calcic Argixerolls
Eaglecap	Loamy-skeletal, mixed Typic Vitricryands
Emily	Loamy-skeletal, mixed, mesic Pachic Ultic Haploxerolls
Encina	Fine, montmorillonitic, mesic Aridic Calcic Argixerolls
Fivebit	Loamy-skeletal, mixed, frigid Lithic Ultic Haploxerolls
Glasgow	Fine, montmorillonitic, mesic Xerollic Haplargids
Goodrich	Coarse-loamy, mixed, mesic Entic Haploxerolls
Greenscombe	Fine-loamy, mixed, mesic Typic Haploxerolls
Gwinly	Clayey-skeletal, montmorillonitic, mesic Lithic Argixerolls
Haines	Coarse-silty, mixed (calcareous), mesic Typic Haplaquepts
Halfway	Very fine, montmorillonitic, mesic Chromic Pelloxererts
Hall Ranch	Fine-loamy, mixed, frigid Ultic Haploxerolls
Hankins	Fine, montmorillonitic, frigid Ultic Palexerolls
Harlow	Clayey-skeletal, montmorillonitic, frigid Lithic Argixerolls
Hershal	Coarse-silty over sandy or sandy-skeletal, mixed, mesic Cumulic Haplaquolls
Hibbard	Fine, montmorillonitic, mesic Abruptic Durixerolls
Highhorn	Loamy-skeletal, mixed, frigid Vitrandic Xerochrepts
Hudspeth	Clayey-skeletal, montmorillonitic, frigid Ultic Palexerolls
Huntrock	Loamy-skeletal, mixed, frigid Vitrandic Xerochrepts
Hyall	Clayey-skeletal, montmorillonitic, mesic Aridic Argixerolls
Immig	Clayey-skeletal, montmorillonitic, mesic Typic Argixerolls
Inkler	Loamy-skeletal, mixed, frigid Andic Xerochrepts
Jett	Fine-silty, mixed, mesic Cumulic Haploxerolls
Kahler	Fine-loamy, mixed, frigid Pachic Ultic Haploxerolls
Keating	Fine, montmorillonitic, mesic Typic Argixerolls
Kilmerque	Coarse-loamy, mixed, frigid Ultic Haploxerolls
Klicker	Loamy-skeletal, mixed, frigid Ultic Argixerolls
Ladd	Fine-loamy, mixed, mesic Typic Argixerolls
*La Grande	Fine-silty, mixed, mesic Pachic Haploxerolls
Langrell	Loamy-skeletal, mixed, mesic Pachic Haploxerolls
Legler	Fine-loamy, mixed, mesic Xerollic Camborthids

See footnote at end of table.

TABLE 18.--CLASSIFICATION OF THE SOILS--Continued

Soil name	Family or higher taxonomic class
Lickskillet	Loamy-skeletal, mixed, mesic Lithic Haploxerolls
Longbranch	Clayey-skeletal, montmorillonitic, frigid Pachic Argixerolls
Lookout	Fine, montmorillonitic, mesic Abruptic Xerollic Durargids
Lostbasin	Loamy-skeletal, mixed, frigid Typic Xerochrepts
Lovline	Fine-loamy, mixed, mesic Aridic Haploxerolls
Marack	Fine, montmorillonitic, frigid Aridic Calcic Argixerolls
McEwen	Fine-loamy, mixed, frigid Vitrandic Haploxeralfs
McGarr	Fine-loamy, mixed, frigid Pachic Ultic Haploxerolls
Morningstar	Loamy-skeletal, mixed, frigid Ultic Argixerolls
Nagle	Fine-loamy, mixed, frigid Pachic Argixerolls
North Powder	Fine-loamy, mixed, mesic Xerollic Camborthids
Oxman	Fine-loamy, mixed, mesic Xerollic Camborthids
Piersonte	Loamy-skeletal, mixed, frigid Pachic Ultic Haploxerolls
Poall	Fine, montmorillonitic, mesic Xerollic Paleargids
Powval	Coarse-silty, mixed, mesic Pachic Haploxerolls
Pritchard	Fine, montmorillonitic, mesic Typic Palexerolls
Rastus	Fine, montmorillonitic, frigid Typic Durixerolls
Redcliff	Loamy-skeletal, mixed, mesic Aridic Haploxerolls
Ridley	Fine, montmorillonitic, mesic Pachic Palexerolls
Robinette	Fine-loamy, mixed, mesic Pachic Argixerolls
Rockly	Loamy-skeletal, mixed, mesic Lithic Haploxerolls
Roostercomb	Clayey-skeletal, montmorillonitic, frigid Typic Argixerolls
Rouen	Ashy over loamy-skeletal, mixed, frigid Typic Vitrixerands
Ruckles	Clayey-skeletal, montmorillonitic, mesic Lithic Argixerolls
Ruclick	Clayey-skeletal, montmorillonitic, mesic Aridic Argixerolls
Sag	Fine-loamy, mixed, frigid Pachic Argixerolls
Segundo	Loamy-skeletal, mixed, frigid Typic Xerochrepts
Shangland	Coarse-loamy, mixed, mesic Ultic Haploxerolls
Silvies	Fine, montmorillonitic Cumulic Cryaquolls
Simas	Fine, montmorillonitic, mesic Aridic Palexerolls
Sinker	Loamy-skeletal, mixed, frigid Pachic Haploxerolls
Sisley	Loamy-skeletal, mixed, frigid Typic Xerorthents
Skullgulch	Fine, montmorillonitic, frigid Pachic Palexerolls
Snaker	Loamy-skeletal, mixed, nonacid, mesic Lithic Xeric Torriorthents
Snell	Clayey-skeletal, montmorillonitic, frigid Pachic Argixerolls
Snellby	Clayey-skeletal, montmorillonitic, frigid Aridic Argixerolls
Stanflow	Coarse-silty, mixed (calcareous), mesic Typic Halaquepts
Stavely	Coarse-loamy, mixed, frigid Typic Xerochrepts
Stices	Ashy-skeletal, frigid Typic Vitrixerands
Stovepipe	Coarse-silty over sandy or sandy-skeletal, mixed Typic Cryaquolls
Sumpley	Fine-loamy over sandy or sandy-skeletal, mixed, frigid Aquic Haploxerolls
Taterpa	Coarse-lo ny, mixed, frigid Pachic Haploxerolls
Tolo	Ashy over loamy, mixed, frigid Alfic Vitrixerands
Top	Fine, montmorillonitic, frigid Pachic Ultic Argixerolls
Typic Xerorthents	Typic Xerorthents
Ukiah	Fine, montmorillonitic, mesic Vertic Argixerolls
Umapine	Coarse-silty, mixed (calcareous), mesic Typic Halaquepts
Virtue	Fine-silty, mixed, mesic Xerollic Durargids
Wahstal	Clayey-skeletal, montmorillonitic, frigid, shallow Typic Durixerolls
Webfoot	Loamy-skeletal, mixed, frigid Pachic Haploxerolls
Wingdale	Fine-silty, mixed (calcareous), mesic Cumulic Haplaquolls
Wingville	Fine-silty, mixed, mesic Pachic Haploxerolls
Xeric Torriorthents	Mesic Xeric Torriorthents
Xerorthents	Frigid Xerorthents

* The soil is a taxadjunct to the series. See text for a description of those characteristics of the soil that are outside the range of the series.

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