Tables

Table 1.--Temperature and Precipitation

(Recorded in the period 1929-93 at St. George, Utah, and 1957-93 at Beaver Dam, Arizona)

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
	°F	°F	°F	°F	°F	Units	In	In	In	
ST. GEORGE										
January----	53.2	26.5	39.8	68	10	70	1.04	0.35	1.66	3
February---	60.1	31.3	45.7	76	15	181	0.94	0.35	1.59	3
March------	67.7	37.0	52.3	84	23	366	0.99	0.21	1.69	3
April------	77.1	44.0	60.6	92	30	594	0.48	0.12	0.81	1
May--------	86.0	52.0	69.0	100	37	871	0.41	0.11	0.77	1
June-------	95.9	60.0	77.9	109	45	1115	0.20	0.08	0.48	0
July-------	101.8	67.5	84.7	111	55	1363	.58	0.19	0.93	1
August-----	99.5	66.0	82.7	109	53	1291	0.70	0.19	1.16	1
September--	93.0	56.7	74.9	104	42	1007	0.56	0.13	1.08	1
October----	80.5	44.8	62.7	95	29	652	0.62	0.23	1.19	1
November---	64.7	33.0	48.9	81	19	256	0.68	0.23	1.19	1
December---	54.2	27.1	40.7	68	13	79	0.86	0.33	1.51	2
Yearly:										
Average---	77.8	45.5	61.7	---	---	---	---	---	---	---
Extreme---	117	-11	---	112	8	---	---	---	---	---
Total-----	---	---	---	---	---	7,845	8.05	5.65	10.01	18
BEAVER DAM										
January----	57.9	32.0	44.9	72	17	159	0.89	0.25	1.53	2
February---	64.9	36.5	50.7	82	21	272	0.83	0.37	1.46	2
March------	70.2	40.2	55.2	88	25	421	1.13	0.30	1.95	3
April------	79.5	45.8	62.6	96	30	599	0.38	0.12	0.73	1
May--------	89.6	54.5	72.0	105	38	856	0.43	0.07	0.75	1
June-------	100.5	63.1	81.8	114	49	1127	0.13	0.04	0.34	0
July-------	105.6	70.0	87.8	116	55	1363	0.56	0.17	1.02	1
August-----	103.1	69.5	86.3	114	55	1379	0.72	0.28	1.23	2
September--	95.8	61.5	78.7	108	46	1106	0.46	0.10	0.86	1
October----	83.2	50.0	66.6	100	31	740	0.64	0.22	1.27	1
November---	68.0	39.0	53.5	84	22	369	0.73	0.29	1.30	2
December---	58.4	31.6	45.0	72	16	166	0.57	0.13	1.06	1
Yearly:										
Average---	81.4	42.1	65.4	---	---	---	---	---	---	---
Extreme---	118	---	---	116	9	---	---	---	---	---
Total-----	---	---	---	---	---	8,558	7.46	4.52	9.19	17

* 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 (50 degrees F).

Table 2.--Average Annual Precipitation in the Arizona Strip District, Shivwits Resource Area

(Data are recorded in inches)

No.	Rain Gauge Name	Years Recorded	Fall (Oct.-Nov.)	Winter (Dec.-Feb.)	Spring (Mar.-May)	Summer (Jun.-Sep.)	Annual
01	Beaver Dam	1951-91	1.32	2.26	1.82	1.71	07.11
02	Seegmiller	1977-91	1.96	4.36	2.66	4.47	13.45
03	Gyp Pockets	1977-91	1.47	2.84	2.44	3.64	10.40
04	Littlefield	1977-91	3.29	6.57	4.37	5.68	19.92
05	Blackrock Sullivan	1977-91	2.91	7.11	3.83	6.64	20.49
06	Blackrock Larson	1977-91	2.94	7.49	4.40	6.55	21.39
07	Force Catchment	1977-91	1.53	3.30	2.40	4.10	11.33
08	Toquer Tank	1977-91	1.53	2.66	1.98	3.70	09.87
09	Cottonwood Overlook	1977-91	2.58	5.82	3.13	4.43	15.96
10	Mud Mountain	1977-91	2.23	5.21	2.74	3.92	14.10
11	Mustang	1977-91	2.50	5.36	3.14	4.01	15.00
12	Cottonwood Wash	1977-91	1.93	4.22	2.20	3.77	12.13
13	Sullivan Tank	1977-91	1.63	4.86	2.47	4.25	13.21
14	Holgate	1977-91	1.73	3.18	1.98	4.58	11.48
15	Marchant Tank	1977-91	1.62	3.02	2.22	3.86	10.72
16	Poverty	1977-91	2.51	5.41	2.96	4.82	15.70
17	Alcorn	1977-91	1.66	3.67	2.37	5.33	13.03
18	Lizard	1982-91	1.48	2.15	1.56	2.85	08.04
19	Pa's Pocket	1977-91	1.97	3.61	1.96	3.75	11.30
20	Salt House	1977-91	2.78	6.52	4.22	6.03	19.55
21	Wolfhole	1982-91	2.11	3.33	1.69	4.12	11.25
22	Pakoon	1978-91	1.05	2.68	1.32	1.95	07.00
25	Purgatory	1983-91	2.21	3.25	2.53	3.91	11.90
26	Bundyville	1987-91	1.55	1.88	2.31	4.27	10.01
29	Shivwits Plateau	1979-91	1.82	3.68	3.42	4.20	13.12

Table 3.--Freeze Dates in Spring and Fall

Probability	Temperature		
	24 oF or lower	28 oF or lower	32 oF or lower
ST. GEORGE, UTAH			
Last freezing temperature in spring:			
1 year in 10 later than--	March 16	April 2	April 19
2 years in 10 later than--	March 7	March 25	April 12
5 years in 10 later than--	Feb. 20	March 10	March 29
First freezing temperature in fall:			
1 year in 10 earlier than--	Nov. 4	Oct. 29	Oct. 19
2 years in 10 earlier than--	Nov. 10	Nov. 3	Oct. 24
5 years in 10 earlier than--	Nov. 23	Nov. 12	Nov. 2
BEAVER DAM, ARIZONA			
Last freezing temperature in spring:			
1 year in 10 later than--	Feb. 28	Mar. 27	April 23
2 years in 10 later than--	Feb. 20	Mar. 17	April 13
5 years in 10 later than--	Feb. 4	Feb. 29	March 26
First freezing temperature in fall:			
1 year in 10 earlier than--	Nov. 20	Nov. 9	Oct. 23
2 years in 10 earlier than--	Nov. 26	Nov. 13	Oct. 28
5 years in 10 earlier than--	Dec. 7	Nov. 22	Nov. 8

Table 4.--Growing Season

Probability	Daily minimum temperature during growing season		
	Higher than 24 oF	Higher than 28 oF	Higher than 32 oF
	Days	Days	Days
ST. GEORGE			
9 years in 10	234	209	188
8 years in 10	243	219	197
5 years in 10	261	237	214
2 years in 10	279	256	231
1 year in 10	289	265	240
BEAVER DAM			
9 years in 10	263	232	191
8 years in 10	273	242	202
5 years in 10	294	261	223
2 years in 10	315	281	243
1 year in 10	325	291	254

Table 5.--Acreage and Proportionate Extent of the Soils

Map symbol	Soil name	Acres	Percent
1	Akinville-Mokaac association, 2 to 20 percent slopes	3,156	0.2
2	Albers silty clay, 0 to 1 percent slopes	1,101	0.1
3	Arada family loamy fine sand, 1 to 10 percent slopes	5,560	0.4
4	Arizo gravelly sandy loam, 1 to 5 percent slopes, nonflooded	18,815	1.2
5	Arizo very gravelly sandy loam, 1 to 5 percent slopes, flooded	9,982	0.6
6	Badland	456	*
7	Bard family-Tonopah-Arada family association, 1 to 10 percent slopes	6,088	0.4
8	Barx fine sandy loam, 1 to 5 percent slopes	17,366	1.1
9	Barx-Strych complex, 1 to 10 percent slopes	2,696	0.2
10	Berzatic family-Rock outcrop-Goblin complex, 35 to 70 percent slopes	23,049	1.5
11	Bisoodi-Anasazi family complex, 1 to 8 percent slopes	8,603	0.6
12	Blind family-Shelley complex, 5 to 15 percent slopes, moist	3,208	0.2
13	Blind family-Shelley complex, 5 to 15 percent slopes, stony	11,942	0.8
14	Boquillas family-Showlow complex, 25 to 50 percent slopes	34,697	2.2
15	Carrizo complex, 1 to 5 percent slopes	1,189	0.1
16	Cave-Harrisburg-Grapevine complex, 1 to 15 percent slopes	20,992	1.4
17	Chic-Teesto-Rock outcrop complex, 1 to 30 percent slopes	1,998	0.1
18	Childers-Rizno association, 4 to 15 percent slopes	19,554	1.3
19	Dera very gravelly fine sandy loam, 1 to 10 percent slopes	4,576	0.3
20	Dermala family-Guy family-Rock outcrop complex, 10 to 40 percent slopes	27,473	1.8
21	Disterheff-Natank-Yumtheska complex, 2 to 15 percent slopes	58,048	3.8
22	Dutchman-McCullan complex, 1 to 10 percent slopes	14,173	0.9
23	Goblin gravelly fine sandy loam, 15 to 50 percent slopes	10,702	0.7
24	Goblin-Gyppocket complex, 2 to 10 percent slopes	2,745	0.2
25	Goesling loam, 1 to 5 percent slopes	4,013	0.3
26	Grapevine-Hobcan complex, 1 to 5 percent slopes	4,868	0.3
27	Grapevine-Shelley complex, 1 to 5 percent slopes	2,178	0.1
28	Gypill-Badland association, 10 to 70 percent slopes	9,563	0.6
29	Gypill fine sandy loam, 15 to 40 percent slopes	13,214	0.9
30	Gypill-Hobog complex, 6 to 35 percent slopes	18,435	1.2
31	Gypill very cobbly sandy loam, 15 to 40 percent slopes	6,654	0.4
32	Gypsiorthids-Gypsiorthids, shallow complex, 1 to 50 percent slopes	208	*
33	Havasupai very gravelly loam, 1 to 5 percent slopes	2,573	0.2
34	Hindu-Rock outcrop-Gypill complex, 35 to 70 percent slopes	97,114	6.3
35	Hobcan fine sandy loam, 1 to 5 percent slopes	1,904	0.1
36	Hobog-Grapevine complex, 2 to 35 percent slopes	3,454	0.2
37	Hobog-Grapevine complex, 2 to 35 percent slopes, moist	1,035	0.1
38	Hobog-Tidwell family complex, 8 to 35 percent slopes	29,342	1.9
39	Hobog very gravelly sandy loam, 5 to 30 percent slopes	14,666	0.9
40	Ivanpatch fine sandy loam, 1 to 5 percent slopes	4,052	0.3
41	Ives loam, 1 to 3 percent slopes	925	0.1
42	Katzine-Rock outcrop-Yumtheska complex, 35 to 70 percent slopes	6,917	0.4
43	Meadview-Cave complex, 2 to 30 percent slopes, stony	1,488	0.1
44	Meadview very gravelly sandy loam, 2 to 18 percent slopes	11,139	0.7
45	Mellenthin-Rock outcrop-Torriorthents complex , 10 to 70 percent slopes	187,726	12.1
46	Mellenthin-Strych complex, 4 to 25 percent slopes, cool	42,729	2.8
47	Mellenthin-Strych complex, 4 to 25 percent slopes, warm	13,104	0.8
48	Mellenthin-Tanbark complex, 5 to 50 percent slopes, cool	17,616	1.1
49	Mellethin-Tanbark complex, 5 to 50 percent slopes, dry	1,751	0.1
50	Mellenthin-Tanbark complex, 5 to 50 percent slopes, warm	6,240	0.4
51	Meriwhitica-Rock outcrop-Strych complex, 35 to 70 percent slopes	42,223	2.7
52	Meriwhitica-Rock outcrop-Strych complex, 35 to 70 percent slopes, warm	41,826	2.7
53	Mespun complex, 2 to 10 percent slopes	5,578	0.4
54	Moenkopie-Goblin complex, 5 to 50 percent slopes	26,364	1.7
55	Moenkopie-Pennell-Rock outcrop complex, 10 to 50 percent slopes	20,902	1.4
56	Nikey family-Ruesh family-Rock outcrop complex, 10 to 40 percent slopes	12,321	0.8
57	Nipton-Rock outcrop-Nickel family complex, 10 to 50 percent slopes	15,461	1.0
58	Nutter-Gyppocket complex, 2 to 20 percent slopes	9,593	0.6
59	Padilla silt loam, 1 to 5 percent slopes	3,994	0.3
60	Pocum-Childers-Ubank complex, 1 to 10 percent slopes	21,638	1.4
61	Pocum-Spenlo complex, 1 to 10 percent slopes	15,833	1.0
62	Pompeii family-Huevi complex, 2 to 15 percent slopes	3,187	0.2

See footnote at end of table.

Table 5.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
63	Radnik loam, 1 to 5 percent slopes	11,538	0.7
64	Riverwash-Torrifluvents complex, 1 to 3 percent slopes	4,026	0.3
65	Rizno-Bond-Rock outcrop complex, 4 to 25 percent slopes	9,942	0.6
66	Robroost fine sandy loam, 1 to 3 percent slopes	7,390	0.5
67	Ruesh very gravelly fine sandy loam, 3 to 20 percent slopes	5,467	0.4
68	Sedillo very cobbly loam, 1 to 8 percent slopes	1,077	0.1
69	Showlow-Thunderbird complex, 2 to 25 percent slopes	33,175	2.1
70	Showlow very cobbly clay loam, 1 to 15 percent slopes	2,556	0.2
71	Sponiker loam, 1 to 10 percent slopes	3,179	0.2
72	Springerville - delenbaw complex, 3 to 25 percent slopes	19,566	1.3
73	Strych very gravelly loam, 2 to 10 percent slopes	31,370	2.0
74	Tanbark family-Strych family-Rock outcrop complex, 10 to 40 percent slopes	56,648	3.7
75	Tanbark loam, 15 to 75 percent slopes	5,119	0.3
76	Tassi-Rizno complex, 5 to 35 percent slopes	32,582	2.1
77	Tonopah gravelly loamy fine sand, 1 to 10 percent slopes	6,319	0.4
78	Torriorthents-Calciorthids-Rock outcrop complex, 10 to 40 percent slopes	40,797	2.6
79	Tours silt loam, 1 to 3 percent slopes	3,593	0.2
80	Tsezhin family-Ashfork family-Rock outcrop complex, 10 to 70 percent slopes	18,317	1.2
81	Tsezhin very cobbly sandy loam, 5 to 15 percent slopes	1,278	0.1
82	Twist sandy loam, 2 to 10 percent slopes	5,750	0.4
83	Twist very cobbly loam, 1 to 8 percent slopes	785	0.1
84	Virgin Peak-Rock outcrop complex, 10 to 70 percent slopes	19,149	1.2
85	Whiskey silt loam, 1 to 4 percent slopes	3	*
86	Winkel-Rock outcrop complex, 2 to 35 percent slopes	10,349	0.7
87	Winkel-Rock outcrop complex, 2 to 35 percent slopes, moist	11,638	0.8
88	Winkel very gravelly loam, 2 to 25 percent slopes	13,892	0.9
89	Winkel very gravelly loam, 2 to 25 percent slopes, moist	8,453	0.5
90	Wutoma-Lozinta complex, 15 to 50 percent slopes	674	*
91	Yellowhorse family silty clay, 0 to 3 percent slopes	759	*
92	Yellowhorse-Luzena family complex, 1 to 10 percent slopes	17,575	1.1
93	Yumtheska-Katzine-Rock outcrop complex, 2 to 30 percent slopes	29,070	1.9
94	Yumtheska-Katzine-Rock outcrop complex, 5 to 50 percent slopes, moist	10,832	0.7
95	Yumtheska-Natank complex, 10 to 45 percent slopes	39,983	2.6
96	Yurm family-Meadview association, 15 to 40 percent slopes	11,665	0.8
97	Yurm family-Meadview association, 15 to 40 percent slopes, moist	5,434	0.4
98	Yurm family very gravelly loam, 15 to 35 percent slopes	31,883	2.1
99	Yurm family very gravelly loam, 15 to 35 percent slopes, moist	5,172	0.3
	Total	1,547,000	100.0

* Less than 0.1 percent.

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
1*:					
Akinville	Limy Upland, Deep 9-12" p.z.	Favorable	375	Big galleta	2
		Normal	250	Threeawn	1
		Unfavorable	125	Sand dropseed	1
				Fluffgrass	1
				Other annual forbs	3
				Creosotebush	50
				White ratany	8
				Anderson wolfberry	10
				Spiny hopsage	4
				Winterfat	2
				Cactus	2
				Banana yucca	1
Mokaac	Limy Upland, Deep 9-12" p.z.	Favorable	700	Bush muhly	5
		Normal	400	Big galleta	15
		Unfavorable	150	Sand dropseed	2
				Fluffgrass	2
				Indian ricegrass	2
				Other annual forbs	3
				Creosotebush	20
				Anderson wolfberry	5
				Mormon tea	5
				Winterfat	3
				Other shrubs	5
				Other perennial forbs	5
				Other annual grasses	5
2 Albers	Clay Upland 13-17" p.z.	Favorable	900	Western wheatgrass	15
		Normal	700	Bottlebrush squirreltail	15
		Unfavorable	500	Blue grama	15
				Other perennial grasses	10
				Other perennial forbs	5
				Fourwing saltbush	5
				Other shrubs	5
				Wyoming big sagebrush	15
3* Arada family	Coarse Sandy Loam, Limy 6-9" p.z.	Favorable	300	Big galleta	5
		Normal	200	Indian ricegrass	5
		Unfavorable	100	Creosotebush	25
				White bursage	35
				Rayless goldenhead	10
				Mormon tea	2
				Joshua-tree	2
				Other shrubs	5
4* Arizo	Limy Upland, Deep 6-9" p.z.	Favorable	350	Creosotebush	25
		Normal	200	White bursage	30
		Unfavorable	125	Indian ricegrass	2
				Big galleta	5
				White ratany	5
				Cactus	10
				Other shrubs	10

See footnote 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
5*---------- Arizo	Sandy Wash 6-9" p.z.----------	Favorable	400	Big galleta----------	5
		Normal	250	Red brome----------	5
		Unfavorable	125	Threeawn----------	1
				Sand dropseed----------	1
				Indian ricegrass----------	2
				Slim tridens----------	1
				Other annual grasses----------	10
				Desert globemallow----------	2
				Other annual forbs----------	2
				White burrobrush----------	20
				Creosotebush----------	20
				Mormon tea----------	3
				Other shrubs----------	10
7*:					
Bard family-------	Limy Upland 6-9" p.z.----------	Favorable	450	Other perennial grasses-------	3
		Normal	300	Other perennial forbs---------	4
		Unfavorable	175	Other annual forbs----------	2
				White bursage----------	30
				Creosotebush----------	15
				White ratany----------	10
				Turpentinebroom----------	4
				Cactus----------	5
				Other shrubs----------	10
				Big galleta----------	2
				Indian ricegrass----------	2
				Mormon tea----------	2
Tonopah----------	Limy Upland, Deep 6-9" p.z.---	Favorable	350	Big galleta----------	2
		Normal	250	Indian ricegrass----------	2
		Unfavorable	150	Other perennial grasses-------	2
				Other annual grasses----------	2
				Other perennial forbs---------	2
				Other annual forbs----------	2
				Creosotebush----------	30
				White bursage----------	30
				Rayless goldenhead----------	5
				Anderson wolfberry----------	3
				Other shrubs----------	5
				Mormon tea----------	3
Arada family------	Coarse Sandy Loam, Limy 6-9" p.z.	Favorable	300	Big galleta----------	5
		Normal	200	Indian ricegrass----------	5
		Unfavorable	100	Creosotebush----------	25
				White bursage----------	35
				Rayless goldenhead----------	10
				Mormon tea----------	2
				Joshua-tree----------	2
				Other shrubs----------	5
8---------- Barx	Loamy Upland, 10-14" p.z.-----	Favorable	1,000	Galleta----------	15
		Normal	750	Blue grama----------	5
		Unfavorable	500	Bottlebrush squirreltail------	10
				Indian ricegrass----------	10
				Western wheatgrass----------	5
				Other perennial forbs---------	5
				Wyoming big sagebrush---------	30
				Mormon tea----------	5
				Fourwing saltbush----------	5

See footnote 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
9*:					
Barx	Loamy Upland 10-14" p.z.	Favorable	1,000	Galleta	15
		Normal	750	Blue grama	5
		Unfavorable	500	Bottlebrush squirreltail	10
				Indian ricegrass	10
				Western wheatgrass	5
				Other perennial forbs	5
				Wyoming big sagebrush	30
				Fourwing saltbush	5
				Mormon tea	5
Strych	Loamy Upland 10-14" p.z.	Favorable	800	Mormon tea	2
		Normal	600	Other shrubs	5
		Unfavorable	400	Blue grama	10
				Galleta	5
				Bottlebrush squirreltail	5
				Other perennial grasses	5
				Big sagebrush	45
				Snakeweed	5
				Fourwing saltbush	5
10*:					
Berzatic family	Breaks 7-11" p.z.	Favorable	300	Galleta	5
		Normal	200	Needleandthread	5
		Unfavorable	100	Indian ricegrass	5
				Other perennial forbs	5
				Skunkbush sumac	5
				Rubber rabbitbrush	5
				Apacheplume	5
				Broom snakeweed	5
				Other shrubs	5
				Buckwheat	10
				Mormon tea	5
Rock outcrop.					
Goblin	Breaks, Gypsiferous 7-11" p.z.	Favorable	450	Gyp dropseed	2
		Normal	300	Galleta	5
		Unfavorable	200	Other perennial grasses	10
				Other perennial forbs	5
				Rubber rabbitbrush	5
				Mormon tea	15
				Bigelow sagebrush	2
				Buckwheat	3
				Fourwing saltbush	5
				Desert needlegrass	10
				Indian ricegrass	5
				Broom snakeweed	3
				Apacheplume	5

See footnote 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
11*:					
Bisoodi	Loamy Upland 10-14" p.z.	Favorable	600	Needleandthread	30
		Normal	400	Blue grama	10
		Unfavorable	300	Indian ricegrass	10
				Bottlebrush squirreltail	5
				Other perennial grasses	5
				Other perennial forbs	10
				Fourwing saltbush	5
				Winterfat	2
				Mormon tea	3
Anasazi family	Sandy Loam Upland, Calcareous 10-14" p.z.	Favorable	900	Indian ricegrass	25
		Normal	600	Needleandthread	15
		Unfavorable	400	Blue grama	5
				Galleta	5
				Bottlebrush squirreltail	5
				Big sagebrush	5
				Fourwing saltbush	5
				Mormon tea	10
12*:					
Blind family	Sandy Loam, Gravelly 9-12" p.z.	Favorable	550	Big galleta	3
		Normal	400	Indian ricegrass	2
		Unfavorable	300	Other perennial grasses	5
				Other perennial forbs	5
				Creosotebush	10
				White bursage	5
				Rayless goldenhead	5
				Anderson wolfberry	5
				Blackbrush	35
				White ratany	5
				Bush muhly	5
Shelley	Sandy Loam, Gravelly 9-12" p.z.	Favorable	400	Other perennial grasses	2
		Normal	300	Desert globemallow	1
		Unfavorable	200	Creosotebush	1
				Mormon tea	10
				Other shrubs	5
				Red brome	1
				Blackbrush	60
13*:					
Blind family	Cobbly Limy Upland, Deep 6-9" p.z.	Favorable	350	Big galleta	5
		Normal	250	Bush muhly	3
		Unfavorable	150	Indian ricegrass	3
				Other perennial grasses	2
				Other perennial forbs	2
				Other annual forbs	3
				Creosotebush	25
				White bursage	45

See footnote 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
13*:					
Shelley	Cobbly Limy Upland, Deep 6-9" p.z.	Favorable	350	Big galleta	5
		Normal	250	Other perennial grasses	5
		Unfavorable	150	Desert globemallow	1
				Creosotebush	20
				White bursage	30
				White ratany	5
				Rayless goldenhead	5
				Mormon tea	5
				Other shrubs	5
				Indian ricegrass	5
				Red brome	5
14*:					
Boquillas family	Basalt Slopes 13-17" p.z.	Favorable	700	Needleandthread	10
		Normal	500	New Mexico feathergrass	5
		Unfavorable	350	Sideoats grama	5
				Galleta	5
				Desert needlegrass	5
				Other perennial grasses	10
				Other perennial forbs	5
				Turbinella oak	5
				Colorado pinyon	5
				Utah juniper	30
				Big sagebrush	5
Showlow	Basalt Slopes 13-17" p.z.	Favorable	700	Muttongrass	5
		Normal	500	Blue grama	5
		Unfavorable	350	Other perennial forbs	5
				Utah juniper	25
				Colorado pinyon	5
				Big sagebrush	5
				Needleandthread	15
				Galleta	10
				Fourwing saltbush	2
				Black grama	10
15*:					
Carrizo	Sandy Wash 3-6" p.z.	Favorable	500	Bush muhly	5
		Normal	300	Big galleta	5
		Unfavorable	100	Other perennial forbs	5
				White burrobrush	15
				Creosotebush	10
				Catclaw acacia	5
				Other shrubs	10
Carrizo	Sandy Wash 3-6" p.z.	Favorable	500	Bush muhly	5
		Normal	300	Big galleta	5
		Unfavorable	100	Other perennial forbs	5
				White burrobrush	15
				Creosotebush	10
				Catclaw acacia	5
				Other shrubs	10

See footnote 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
16*:					
Cave	Limy Upland 6-9" p.z.	Favorable	400	Indian ricegrass	1
		Normal	200	Other perennial grasses	1
		Unfavorable	100	Creosotebush	15
				White bursage	30
				Mormon tea	10
				Anderson wolfberry	2
				Winterfat	2
				Other shrubs	10
				Big galleta	1
Harrisburg	Limy Upland 6-9" p.z.	Favorable	350	Other perennial grasses	5
		Normal	200	Creosotebush	40
		Unfavorable	100	White bursage	30
				Mormon tea	5
				Other shrubs	5
				Big galleta	3
				Indian ricegrass	2
Grapevine	Limy Upland, Deep 6-9" p.z.	Favorable	400	Big galleta	2
		Normal	300	Sand dropseed	2
		Unfavorable	150	Other perennial grasses	1
				Creosotebush	30
				Anderson wolfberry	1
				Mormon tea	1
				Fourwing saltbush	2
				Other shrubs	5
				White bursage	40
				Globemallow	2
17*:					
Chic	Cinder Upland 10-14" p.z.	Favorable	550	Galleta	20
		Normal	450	Sand dropseed	10
		Unfavorable	350	Black grama	5
				Indian ricegrass	5
				Bottlebrush squirreltail	5
				Stickyleaf low rabbitbush	20
				Mormon tea	5
Teesto	Basalt Upland 10-14" p.z.	Favorable	600	Galleta	25
		Normal	400	Blue grama	10
		Unfavorable	200	Other perennial grasses	10
				Other perennial forbs	5
				Stickyleaf low rabbitbush	15
				Other shrubs	5
				Bottlebrush squirreltail	5
				Mormon tea	5
Rock outcrop.					
18*:					
Childers	Shallow Upland, Calcareous 10-14" p.z.	Favorable	500	Other perennial forbs	3
		Normal	400	Blackbrush	55
		Unfavorable	300	Banana yucca	3
				Mormon tea	5
				Stansbury cliffrose	2
				Other shrubs	5
				Indian ricegrass	1
				Blue grama	2
				Black grama	1

See footnote 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
18*:					
Rizno	Shallow Sandy Loam, Calcareous 10-14" p.z.	Favorable	550	Desert needlegrass	5
		Normal	400	Other perennial forbs	5
		Unfavorable	300	Blackbrush	55
				Mormon tea	5
				Mexican cliffrose	5
				Banana yucca	5
				Snakeweed	5
				Other shrubs	5
				Galleta	2
				Sand dropseed	1
19 Dera	Sandy Loam Upland 7-11" p.z.	Favorable	650	Galleta	30
		Normal	500	Sand dropseed	5
		Unfavorable	350	Black grama	20
				Other perennial grasses	5
				Mormon tea	5
				Winterfat	2
				Other shrubs	7
				Globemallow	1
20*:					
Dermala family	Basalt Slopes 13-17" p.z.	Favorable	700	Needleandthread	15
		Normal	400	Black grama	5
		Unfavorable	300	Galleta	10
				Desert needlegrass	10
				Sideoats grama	5
				Prairie junegrass	5
				Other perennial grasses	5
				Other perennial forbs	2
				Mexican cliffrose	3
				Fourwing saltbush	2
				Other shrubs	5
				Utah juniper	10
				Colorado pinyon	5
				Wyoming big sagebrush	5
Guy family	Basalt Slopes 13-17" p.z.	Favorable	700	Needleandthread	15
		Normal	400	Black grama	5
		Unfavorable	300	Galleta	10
				Desert needlegrass	10
				Sideoats grama	5
				Prairie junegrass	5
				Other perennial grasses	5
				Other perennial forbs	2
				Mexican cliffrose	3
				Fourwing saltbush	2
				Other shrubs	5
				Utah juniper	10
				Colorado pinyon	5
				Wyoming big sagebrush	5
Rock outcrop.					

See footnote 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
21*:					
Disterheff	Clay Loam Upland, Gravelly--- (PIED, JUOS) 13-17" p.z.	Favorable	900	Western wheatgrass	10
		Normal	650	Muttongrass	10
		Unfavorable	550	Prairie junegrass	10
				Bottlebrush squirreltail	10
				Blue grama	20
				Galleta	5
				Utah juniper	15
				Colorado pinyon	5
				Big sagebrush	5
Natank	Clay Loam Upland, Gravelly---- (PIED, JUOS) 13-17" p.z.	Favorable	900	Western wheatgrass	10
		Normal	650	Muttongrass	10
		Unfavorable	550	Prairie junegrass	10
				Bottlebrush squirreltail	10
				Blue grama	20
				Galleta	5
				Utah juniper	15
				Colorado pinyon	5
				Big sagebrush	5
Yumtheska	Limestone Slopes (PIED, JUOS) 13-17" p.z.	Favorable	700	Blue grama	25
		Normal	550	Muttongrass	10
		Unfavorable	450	Prairie junegrass	10
				Bottlebrush squirreltail	5
				Other perennial forbs	5
				Mexican cliffrose	5
				Utah juniper	15
				Big sagebrush	5
				Singleleaf pinyon	10
22*:					
Dutchman	Gypsum Upland 7-11" p.z.	Favorable	700	Galleta	25
		Normal	550	Black grama	10
		Unfavorable	350	Sand dropseed	5
				Gyp dropseed	5
				Burrograss	5
				Other perennial forbs	2
				Fourwing saltbush	10
				Winterfat	3
				Mormon tea	3
				Other perennial grasses	5
McCullan	Gypsum Upland 7-11" p.z.	Favorable	650	Galleta	10
		Normal	550	Black grama	10
		Unfavorable	450	Burrograss	10
				Sand dropseed	1
				Gyp dropseed	15
				Other perennial forbs	3
				Banana yucca	5
				Mormon tea	10
				Fourwing saltbush	10
				Buckwheat	1
				Other shrubs	5
				Other perennial grasses	5

See footnote 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
23---------- Goblin	Gypsum Hills 7-11" p.z.-------	Favorable	350	Gyp dropseed----------	15
		Normal	250	Galleta----------	5
		Unfavorable	125	Other perennial grasses-------	2
				Other perennial forbs---------	5
				Cryptantha----------	3
				Rubber rabbitbrush----------	10
				Mormon tea----------	10
				Bigelow sagebrush----------	10
				Buckwheat----------	3
				Fourwing saltbush----------	5
				Other shrubs----------	15
24*:					
Goblin----------	Gypsum Hills 7-11" p.z.-------	Favorable	350	Gyp dropseed----------	15
		Normal	250	Galleta----------	5
		Unfavorable	125	Other perennial grasses-------	2
				Other perennial forbs---------	5
				Cryptantha----------	3
				Rubber rabbitbrush----------	10
				Mormon tea----------	10
				Bigelow sagebrush----------	10
				Buckwheat----------	3
				Fourwing saltbush----------	5
				Other shrubs----------	15
Gyppocket---------	Gypsum Upland 7-11" p.z.------	Favorable	750	Other perennial grasses-------	3
		Normal	600	Black grama----------	30
		Unfavorable	450	Gyp dropseed----------	5
				Other perennial forbs---------	2
				Mormon tea----------	15
				Banana yucca----------	5
				Fourwing saltbush----------	5
				Winterfat----------	3
				Anderson wolfberry----------	2
				Other annual forbs----------	2
25---------- Goesling	Loamy Upland, Gravelly-------- (PIED, JUOS) 13-17" p.z.	Favorable	900	Western wheatgrass----------	10
		Normal	700	Indian ricegrass----------	5
		Unfavorable	500	Needleandthread----------	5
				Fourwing saltbush----------	5
				Galleta----------	5
				Blue grama----------	15
				Muttongrass----------	5
				Bottlebrush squirreltail------	5
				Wyoming big sagebrush---------	15
26*:					
Grapevine---------	Limy Upland, Deep 6-9" p.z.	Favorable	400	Big galleta----------	2
		Normal	300	Sand dropseed----------	2
		Unfavorable	150	Other perennial grasses-------	1
				Creosotebush----------	30
				Anderson wolfberry----------	1
				Mormon tea----------	1
				Fourwing saltbush----------	2
				Other shrubs----------	5
				White bursage----------	40
				Globemallow----------	2

See footnote 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
26*:					
Hobcan	Loamy Wash, Gypsic 6-9" p.z.	Favorable	500	Big galleta	20
		Normal	325	Sand dropseed	15
		Unfavorable	200	Other annual forbs	2
				Creosotebush	35
				White bursage	3
				White ratany	2
				Anderson wolfberry	5
				Rayless goldenhead	1
				Fourwing saltbush	5
				Winterfat	2
				Cactus	1
27*:					
Grapevine	Limy Upland, Deep 6-9" p.z.	Favorable	400	Big galleta	2
		Normal	300	Sand dropseed	2
		Unfavorable	150	Other perennial grasses	1
				Creosotebush	30
				Anderson wolfberry	1
				Mormon tea	1
				Fourwing saltbush	2
				Other shrubs	5
				White bursage	40
				Globemallow	2
Shelley	Limy Upland, Deep 6-9" p.z.	Favorable	375	Big galleta	5
		Normal	225	Other perennial grasses	5
		Unfavorable	125	Creosotebush	30
				White bursage	45
				Rayless goldenhead	3
28*:					
Gypill	Gypsum Hills, Alkaline 6-9" p.z.	Favorable	250	Gyp dropseed	1
		Normal	150	Other perennial forbs	5
		Unfavorable	50	Other annual forbs	2
				Mormon tea	15
				Shadscale	50
				Other shrubs	5
				White burrobrush	5
Badland.					
29 Gypill	Gypsum Hills, Alkaline 6-9" p.z.	Favorable	250	Gyp dropseed	1
		Normal	150	Other perennial forbs	5
		Unfavorable	50	Other annual forbs	2
				Mormon tea	15
				Shadscale	50
				Other shrubs	5
				White burrobrush	5

See footnote 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
30*:					
Gypill	Gypsum Hills 6-9" p.z.	Favorable	150	Gyp dropseed	1
		Normal	100	Other perennial forbs	3
		Unfavorable	50	Other annual forbs	1
				Mormon tea	30
				Other shrubs	2
				White burrobrush	15
				Anderson wolfberry	10
				Fremont dalea	10
				Banana yucca	10
				Creosotebush	3
				Fourwing saltbush	1
Hobog	Limy Upland 6-9" p.z.	Favorable	450	Big galleta	1
		Normal	300	Indian ricegrass	1
		Unfavorable	200	Fluffgrass	1
				Other perennial grasses	1
				Other annual grasses	2
				Desert globemallow	2
				White bursage	35
				Creosotebush	25
				Mormon tea	5
				White ratany	2
				Winterfat	2
				Other shrubs	5
				Banana yucca	1
				Cactus	1
31 Gypill	Cobbly Gypsum Hills 6-9" p.z.	Favorable	450	Gyp dropseed	2
		Normal	350	Deserttrumpet	1
		Unfavorable	250	Mormon tea	15
				White bursage	15
				White ratany	5
				Banana yucca	5
				Anderson wolfberry	5
				Cactus	2
				Big galleta	25
				Other perennial grasses	5
				Other shrubs	10
32*:					
Gypisorthids	Gypsum Upland 7-11" p.z.	Favorable	650	Indian ricegrass	15
		Normal	550	Bottlebrush squirreltail	5
		Unfavorable	450	Galleta	25
				Black grama	5
				Gyp dropseed	10
				Shadscale	15
				Fourwing saltbush	10
				Mormon tea	5
				Other perennial grasses	10

See footnote 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
32*:					
Gypisorthids shallow	Gypsum Hills 7-11" p.z.	Favorable	450	Indian ricegrass	5
		Normal	350	Galleta	5
		Unfavorable	250	Gyp dropseed	15
				Shadscale	15
				Other perennial forbs	5
				Utah serviceberry	5
				Rubber rabbitbrush	5
				Stansbury cliffrose	5
				Bigelow sagebrush	10
33 Havasupai	Limy Upland 10-14" p.z.	Favorable	1,000	Needleandthread	20
		Normal	4,000	Blue grama	10
		Unfavorable	300	Indian ricegrass	10
				Bottlebrush squirreltail	5
				Other perennial grasses	5
				Other perennial forbs	10
				Desert needlegrass	10
				Sand dropseed	5
				Fourwing saltbush	5
				Big sagebrush	5
34*:					
Hindu	Limestone Hills 6-9" p.z.	Favorable	350	Bush muhly	5
		Normal	250	Big galleta	5
		Unfavorable	150	Threeawn	5
				Indian ricegrass	2
				Other perennial grasses	5
				Other perennial forbs	5
				Mormon tea	5
				Bush encelia	5
				White ratany	5
				Flattop buckwheat	2
				Creosotebush	3
				Other shrubs	25
Rock outcrop.					
Gypill	Gypsum Hills 6-9" p.z.	Favorable	150	Gyp dropseed	1
		Normal	100	Other perennial forbs	3
		Unfavorable	50	Other annual forbs	1
				Mormon tea	30
				Other shrubs	2
				White burrobrush	15
				Anderson wolfberry	10
				Fremont dalea	10
				Banana yucca	10
				Creosotebush	3
				Fourwing saltbush	1

See footnote 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
35---------- Hobcan	Loamy Wash, Gypsic 6-9" p.z.	Favorable	500	Big galleta----------	20
		Normal	325	Sand dropseed----------	15
		Unfavorable	200	Other annual forbs----------	2
				Creosotebush----------	35
				White bursage----------	3
				White ratany----------	2
				Anderson wolfberry----------	5
				Rayless goldenhead----------	1
				Fourwing saltbush----------	5
				Winterfat----------	2
				Cactus----------	1
36*:					
Hobog----------	Limy Upland 6-9" p.z.---------	Favorable	450	Big galleta----------	1
		Normal	300	Indian ricegrass----------	1
		Unfavorable	200	Fluffgrass----------	1
				Other perennial grasses-------	1
				Other annual grasses----------	2
				Desert globemallow----------	2
				White bursage----------	35
				Creosotebush----------	25
				Mormon tea----------	5
				White ratany----------	2
				Winterfat----------	2
				Other shrubs----------	5
				Banana yucca----------	1
				Cactus----------	1
Grapevine---------	Limy Upland, Deep 6-9" p.z.---	Favorable	400	Big galleta----------	2
		Normal	300	Sand dropseed----------	2
		Unfavorable	150	Other perennial grasses-------	1
				Creosotebush----------	30
				Anderson wolfberry----------	1
				Mormon tea----------	1
				Fourwing saltbush----------	2
				Other shrubs----------	5
				White bursage----------	40
				Globemallow----------	2
37*:					
Hobog----------	Shallow Upland 9-12" p.z.-----	Favorable	400	Big galleta----------	1
		Normal	300	Indian ricegrass----------	1
		Unfavorable	200	Fluffgrass----------	1
				Other perennial grasses-------	2
				Other annual grasses----------	2
				Desert globemallow----------	1
				Creosotebush----------	5
				Mormon tea----------	10
				Banana yucca----------	2
				Cactus----------	1
				Blackbrush----------	60

See footnote 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
37*:					
Grapevine	Sandy Loam, Gravelly 9-12" p.z.	Favorable	400	Big galleta	2
		Normal	300	Sand dropseed	2
		Unfavorable	200	Creosotebush	5
				Mormon tea	5
				Fourwing saltbush	1
				White bursage	1
				Blackbrush	65
				Banana yucca	5
38*:					
Hobog	Limy Upland 6-9" p.z.	Favorable	450	Big galleta	1
		Normal	300	Indian ricegrass	1
		Unfavorable	200	Fluffgrass	1
				Other perennial grasses	1
				Other annual grasses	2
				Desert globemallow	2
				White bursage	35
				Creosotebush	25
				Mormon tea	5
				White ratany	2
				Winterfat	2
				Other shrubs	5
				Banana yucca	1
				Cactus	1
Tidwell family	Limy Upland 6-9" p.z.	Favorable	300	Fluffgrass	2
		Normal	150	Other annual grasses	5
		Unfavorable	75	Other perennial forbs	5
				Creosotebush	20
				Mormon tea	15
				Cactus	2
				Bush encelia	2
				Anderson wolfberry	5
				Winterfat	5
				Other shrubs	5
				Big galleta	3
				Indian ricegrass	2
				White ratany	10
39 Hobog	Shallow Upland 9-12" p.z.	Favorable	400	Big galleta	1
		Normal	300	Indian ricegrass	1
		Unfavorable	200	Fluffgrass	1
				Other perennial grasses	2
				Other annual grasses	2
				Desert globemallow	1
				Creosotebush	5
				Mormon tea	10
				Banana yucca	2
				Cactus	1
				Blackbrush	60
40 Ivanpatch	Gypsum Fan 10-14" p.z.	Favorable	600	Galleta	35
		Normal	450	Gyp dropseed	10
		Unfavorable	300	Sand dropseed	5
				Fourwing saltbush	10
				Winterfat	10

See footnote 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
41---------- Ives	Loamy Bottom 7-11" p.z.-------	Favorable	1,100	Blue grama----------	20
		Normal	800	Galleta----------	15
		Unfavorable	500	Indian ricegrass----------	10
				Mat muhly----------	10
				Bottlebrush squirreltail------	5
				Western wheatgrass----------	5
				Other perennial grasses-------	10
				Other perennial forbs---------	5
				Winterfat----------	5
				Other shrubs----------	5
				Fourwing saltbush----------	10
42*:					
Katzine----------	Limestone Slopes (PIED, JUOS) 13-17" p.z.	Favorable	1,000	Prairie junegrass----------	2
		Normal	800	Other perennial grasses-------	2
		Unfavorable	500	Other perennial forbs---------	4
				Utah serviceberry----------	20
				Yellowleaf silktassel---------	20
				Mountain big sagebrush--------	5
				Other shrubs----------	5
				Singleleaf pinyon----------	10
				Gambel oak----------	10
				Muttongrass----------	2
				Blue grama----------	1
Rock outcrop.					
Yumtheska---------	Limestone Slopes (PIED, JUOS) 13-17" p.z.	Favorable	1,300	Blue grama----------	1
		Normal	1,100	Muttongrass----------	1
		Unfavorable	900	Prairie junegrass----------	1
				Bottlebrush squirreltail------	1
				Other perennial forbs---------	5
				Mexican cliffrose----------	5
				Utah juniper----------	5
				Singleleaf pinyon----------	10
				Silktassel----------	25
				Utah serviceberry----------	15
				Gambel oak----------	10
				Big sagebrush----------	5
43*:					
Meadview----------	Limy Upland, Deep 6-9" p.z.---	Favorable	350	Big galleta----------	2
		Normal	250	Indian ricegrass----------	2
		Unfavorable	150	Other perennial grasses-------	2
				Other annual grasses----------	2
				Other perennial forbs---------	2
				Other annual forbs----------	2
				Creosotebush----------	30
				White bursage----------	30
				Rayless goldenhead----------	5
				Anderson wolfberry----------	3
				Mormon tea----------	3
				Other shrubs----------	5

See footnote 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
43*:					
Cave	Limy Upland 6-9" p.z.	Favorable	450	Other perennial grasses	3
		Normal	300	Other perennial forbs	4
		Unfavorable	175	Other annual forbs	2
				White bursage	25
				Creosotebush	15
				White ratany	10
				Turpentinebroom	4
				Cactus	5
				Other shrubs	10
				Indian ricegrass	2
				Big galleta	1
				Mormon tea	5
44 Meadview	Limy Upland, Deep 6-9" p.z.	Favorable	400	Big galleta	5
		Normal	300	Other perennial grasses	5
		Unfavorable	200	Creosotebush	35
				White bursage	10
				Mormon tea	5
				White ratany	5
				Winterfat	5
				Other shrubs	10
				Indian ricegrass	2
45*:					
Mellenthin	Shallow Loamy 10-14" p.z.	Favorable	750	Blue grama	5
		Normal	500	Indian ricegrass	5
		Unfavorable	350	Galleta	5
				Bottlebrush squirreltail	5
				Other perennial grasses	10
				Other perennial forbs	5
				Big sagebrush	25
				Mexican cliffrose	5
				Mormon tea	10
				Other shrubs	5
				Utah juniper	5
Rock outcrop.					
Torriorthents	Breaks, Calcareous 10-14" p.z.	Favorable	700	Blue grama	20
		Normal	500	Bottlebrush squirreltail	10
		Unfavorable	300	Prairie junegrass	5
				Galleta	5
				Other perennial grasses	5
				Fourwing saltbush	5
				Mormon tea	3
				Apacheplume	2
				Other shrubs	5
				Wyoming big sagebrush	10

See footnote 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
46*:					
Mellenthin--------	Shallow Loamy 10-14" p.z.-----	Favorable	750	Blue grama----------	5
		Normal	500	Indian ricegrass----------	5
		Unfavorable	350	Galleta----------	5
				Bottlebrush squirreltail------	5
				Other perennial grasses-------	10
				Other perennial forbs---------	5
				Big sagebrush----------	25
				Mexican cliffrose----------	5
				Mormon tea----------	10
				Other shrubs----------	5
				Utah juniper----------	5
Strych----------	Loamy Upland 10-14" p.z.------	Favorable	800	Mormon tea----------	2
		Normal	600	Other shrubs----------	5
		Unfavorable	400	Blue grama----------	10
				Galleta----------	5
				Bottlebrush squirreltail------	5
				Other perennial grasses-------	5
				Big sagebrush----------	45
				Snakeweed----------	5
				Fourwing saltbush----------	5
47*:					
Mellenthin--------	Shallow Upland, Calcareous---- 10-14" p.z.	Favorable	700	Other perennial grasses-------	5
		Normal	500	Big sagebrush----------	5
		Unfavorable	350	Mexican cliffrose----------	5
				Mormon tea----------	10
				Other shrubs----------	5
				Desert needlegrass----------	5
				Blackbrush----------	50
				Banana yucca----------	5
Strych----------	Loamy Upland, Calcareous------ 10-14" p.z.	Favorable	600	Desert needlegrass----------	10
		Normal	450	Blackbrush----------	50
		Unfavorable	350	Banana yucca----------	5
				Mormon tea----------	5
				Other shrubs----------	10
				Apacheplume----------	5
48*:					
Mellenthin--------	Shallow Loamy 10-14" p.z.-----	Favorable	750	Blue grama----------	5
		Normal	500	Indian ricegrass----------	5
		Unfavorable	350	Galleta----------	5
				Bottlebrush squirreltail------	5
				Other perennial grasses-------	10
				Other perennial forbs---------	5
				Big sagebrush----------	25
				Mexican cliffrose----------	5
				Mormon tea----------	10
				Other shrubs----------	5
				Utah juniper----------	5

See footnote 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
48*:					
Tanbark	Gypsum Hills 10-14" p.z.	Favorable	350	Indian ricegrass	5
		Normal	250	Gyp dropseed	5
		Unfavorable	100	Threeawn	2
				Other perennial forbs	2
				Bigelow sagebrush	15
				Mormon tea	15
				Rubber rabbitbrush	15
				Fremont barberry	10
				Banana yucca	5
				Buckwheat	5
				Other shrubs	5
49*:					
Mellethin	Limy Upland 10-14" p.z.	Favorable	600	Blue grama	10
		Normal	400	Indian ricegrass	15
		Unfavorable	300	Galleta	5
				Bottlebrush squirreltail	5
				Other perennial grasses	10
				Other perennial forbs	2
				Big sagebrush	10
				Mexican cliffrose	5
				Mormon tea	5
				Other shrubs	3
				Utah juniper	5
				Needleandthread	15
Tanbark	Gypsum Hills 10-14" p.z.	Favorable	350	Indian ricegrass	5
		Normal	250	Gyp dropseed	5
		Unfavorable	100	Threeawn	2
				Other perennial forbs	2
				Bigelow sagebrush	15
				Mormon tea	15
				Rubber rabbitbrush	15
				Fremont barberry	10
				Banana yucca	5
				Buckwheat	5
				Other shrubs	5
50*:					
Mellenthin	Shallow Upland, Calcareous 10-14" p.z.	Favorable	700	Other perennial grasses	5
		Normal	500	Big sagebrush	5
		Unfavorable	350	Mexican cliffrose	5
				Mormon tea	10
				Other shrubs	5
				Desert needlegrass	5
				Blackbrush	50
				Banana yucca	5

See footnote 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
50*:					
Tanbark	Gypsum Hills, Calcareous 10-14" p.z.	Favorable	300	Indian ricegrass	1
		Normal	200	Gyp dropseed	5
		Unfavorable	100	Threeawn	1
				Other perennial forbs	10
				Bigelow sagebrush	15
				Mormon tea	5
				Rubber rabbitbrush	10
				Banana yucca	5
				Buckwheat	10
				Other shrubs	5
				Other perennial grasses	5
				Stansbury cliffrose	10
				Blackbrush	5
51*:					
Merwhitica	Breaks, Calcareous 10-14" p.z.	Favorable	850	Desert needlegrass	5
		Normal	700	Needleandthread	10
		Unfavorable	550	Indian ricegrass	10
				Black grama	5
				Other perennial grasses	3
				Banana yucca	2
				Mormon tea	5
				Other shrubs	5
				Utah juniper	5
				Colorado pinyon	5
				Muttongrass	10
				Blue grama	5
				Wyoming big sagebrush	10
Rock outcrop.					
Strych	Loamy Upland 10-14" p.z.	Favorable	800	Mormon tea	2
		Normal	600	Other shrubs	5
		Unfavorable	400	Blue grama	10
				Galleta	5
				Bottlebrush squirreltail	5
				Other perennial grasses	5
				Big sagebrush	45
				Snakeweed	5
				Fourwing saltbush	5
52*:					
Meriwhitica	Breaks, Calcareous 10-14" p.z.	Favorable	650	Desert needlegrass	10
		Normal	500	Needleandthread	2
		Unfavorable	350	Indian ricegrass	2
				Black grama	2
				Other perennial grasses	2
				Blackbrush	50
				Banana yucca	5
				Mormon tea	3
				Other shrubs	5
				Utah juniper	3
				Colorado pinyon	2
Rock outcrop.					

See footnote 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
52*:					
Strych	Loamy Upland, Calcareous 10-14" p.z.	Favorable	600	Desert needlegrass	10
		Normal	450	Blackbrush	50
		Unfavorable	350	Banana yucca	5
				Mormon tea	5
				Other shrubs	10
				Apacheplume	5
53*:					
Mespun	Sandy Upland 10-14" p.z.	Favorable	900	Sand dropseed	3
		Normal	600	Big sagebrush	5
		Unfavorable	400	Mormon tea	5
				Utah juniper	5
				Cactus	5
				Other shrubs	5
				Blue grama	15
				Bottlebrush squirreltail	3
				Indian ricegrass	10
				Needleandthread	5
				Galleta	10
				Sand sagebrush	10
				Sandhill muhly	3
Mespun	Sandy Loam Upland 10-14" p.z.	Favorable	900	Sand dropseed	5
		Normal	600	Big sagebrush	25
		Unfavorable	400	Mormon tea	5
				Bitterbrush	5
				Utah juniper	5
				Cactus	5
				Other shrubs	5
				Blue grama	10
				Bottlebrush squirreltail	3
				Indian ricegrass	10
				Needleandthread	5
54*:					
Moenkopie	Shallow Loamy 7-11" p.z.	Favorable	750	Indian ricegrass	10
		Normal	600	Needleandthread	10
		Unfavorable	450	Desert needlegrass	5
				Bottlebrush squirreltail	5
				Blue grama	5
				Galleta	5
				Other perennial grasses	5
				Winterfat	5
				Fourwing saltbush	5
				Mormon tea	5
Goblin	Gypsum Hills 7-11" p.z.	Favorable	350	Gyp dropseed	15
		Normal	250	Galleta	5
		Unfavorable	125	Other perennial grasses	2
				Other perennial forbs	5
				Cryptantha	3
				Rubber rabbitbrush	10
				Mormon tea	10
				Bigelow sagebrush	10
				Buckwheat	3
				Fourwing saltbush	5
				Other shrubs	15

See footnote 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
55*:					
Moenkopie	Shallow Loamy 7-11" p.z.	Favorable	750	Indian ricegrass	10
		Normal	600	Needleandthread	10
		Unfavorable	450	Desert needlegrass	5
				Bottlebrush squirreltail	5
				Blue grama	5
				Galleta	5
				Other perennial grasses	5
				Winterfat	5
				Fourwing saltbush	5
				Mormon tea	5
Pennell	Shallow Loamy 7-11" p.z.	Favorable	650	Galleta	20
		Normal	550	Sand dropseed	5
		Unfavorable	400	Black grama	10
				Bush muhly	5
				Indian ricegrass	3
				Other perennial grasses	5
				Mormon tea	10
				Fourwing saltbush	5
				Snakeweed	5
				Other shrubs	5
Rock outcrop.					
56*:					
Nikey family	Basalt Slopes 6-9" p.z.	Favorable	350	Big galleta	10
		Normal	250	Bush muhly	5
		Unfavorable	150	Other perennial grasses	5
				Other annual grasses	3
				Other perennial forbs	5
				Other annual forbs	2
				White bursage	20
				Creosotebush	2
				White ratany	5
				Other shrubs	15
				Mormon tea	5
Ruesh family	Basalt Slopes 6-9" p.z.	Favorable	350	Big galleta	10
		Normal	250	Bush muhly	5
		Unfavorable	150	Other perennial grasses	5
				Other annual grasses	3
				Other perennial forbs	5
				Other annual forbs	2
				White bursage	20
				Creosotebush	2
				White ratany	5
				Other shrubs	15
				Mormon tea	5
Rock outcrop.					

See footnote 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
57*:					
Nipton	Granitic Hills 9-12" p.z.	Favorable	700	Desert needlegrass	10
		Normal	500	Bush muhly	5
		Unfavorable	350	Black grama	5
				Threeawn	5
				Other perennial forbs	5
				Flattop buckwheat	10
				White ratany	10
				Banana yucca	10
				Turpentinebroom	5
				Mormon tea	5
Rock outcrop.					
Nickel family	Limy Upland 9-12" p.z.	Favorable	500	Big galleta	1
		Normal	400	Other perennial grasses	1
		Unfavorable	300	Other annual grasses	15
				Other perennial forbs	2
				Other annual forbs	3
				Creosotebush	15
				Mormon tea	15
				Anderson wolfberry	20
				Other shrubs	5
58*:					
Nutter	Gypsum Upland 7-11" p.z.	Favorable	900	Black grama	35
		Normal	700	Galleta	15
		Unfavorable	500	Gyp dropseed	5
				Burrograss	2
				Bush muhly	2
				Threeawn	1
				Other perennial forbs	2
				Mormon tea	10
				Fourwing saltbush	4
				Banana yucca	4
				Other perennial grasses	3
				Other shrubs	2
Gyppocket	Gypsum Upland 7-11" p.z.	Favorable	750	Other perennial grasses	3
		Normal	600	Black grama	30
		Unfavorable	450	Galleta	10
				Bush muhly	5
				Slim tridens	1
				Other perennial forbs	2
				Other annual forbs	2
				Mormon tea	15
				Banana yucca	5
				Fourwing saltbush	5
				Winterfat	3
				Anderson wolfberry	2
				Gyp dropseed	5

See footnote 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
59 Padilla	Clay Loam Upland 10-14" p.z.	Favorable	750	Blue grama	25
		Normal	500	Other perennial grasses	10
		Unfavorable	300	Winterfat	5
				Fourwing saltbush	5
				Western wheatgrass	15
				Bottlebrush squirreltail	10
				Wyoming big sagebrush	15
60*:					
Pocum	Shallow Upland, Calcareous 10-14" p.z.	Favorable	600	Bottlebrush squirreltail	1
		Normal	500	Indian ricegrass	1
		Unfavorable	400	Galleta	1
				Blackbrush	55
				Big sagebrush	5
				Mormon tea	5
				Banana yucca	5
				Stansbury cliffrose	1
				Utah juniper	2
				Singleleaf pinyon	1
Childers	Shallow Upland, Calcareous 10-14" p.z.	Favorable	500	Other perennial forbs	3
		Normal	400	Blackbrush	60
		Unfavorable	300	Banana yucca	3
				Stansbury cliffrose	2
				Other shrubs	5
				Galleta	2
				Blue grama	1
				Indian ricegrass	1
				Mormon tea	2
				Utah juniper	1
				Singleleaf pinyon	1
				Bottlebrush squirreltail	1
Ubank	Shallow Upland, Calcareous 10-14" p.z.	Favorable	500	Other perennial grasses	2
		Normal	350	Other perennial forbs	1
		Unfavorable	250	Other annual forbs	1
				Blackbrush	50
				Mormon tea	5
				Banana yucca	5
				Other shrubs	5
				Utah juniper	5
				Galleta	2
				Black grama	1
61*:					
Pocum	Basalt Upland 10-14" p.z.	Favorable	700	Bottlebrush squirreltail	5
		Normal	550	Indian ricegrass	5
		Unfavorable	400	Galleta	5
				Big sagebrush	20
				Mormon tea	5
				Stansbury cliffrose	10
				Utah juniper	3
				Singleleaf pinyon	2
				Blue grama	15
				Needleandthread	10
				Globemallow	5
				Rabbitbrush	5
				Apacheplume	5

See footnote 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
61*:					
Spenlo	Loamy Upland 10-14" p.z.	Favorable	1,000	Blue grama	20
		Normal	750	Galleta	10
		Unfavorable	500	Indian ricegrass	10
				Needleandthread	10
				Bottlebrush squirreltail	5
				Other perennial grasses	5
				Other perennial forbs	3
				Big sagebrush	15
				Fourwing saltbush	5
				Other shrubs	10
62*:					
Pompeii family	Limy Upland 3-6" p.z.	Favorable	800	Bush muhly	5
		Normal	250	Other perennial grasses	5
		Unfavorable	50	Other perennial forbs	10
				Creosotebush	40
				Triangle bursage	5
				Brittlebush	5
				White bursage	10
Huevi	Limy Upland, Deep 3-6" p.z.	Favorable	125	Other perennial grasses	5
		Normal	50	Other perennial forbs	5
		Unfavorable	25	Creosotebush	40
				White bursage	20
				Bush muhly	5
63 Radnik	Loamy Bottom 10-14" p.z.	Favorable	1,200	Western wheatgrass	10
		Normal	800	Indian ricegrass	10
		Unfavorable	400	Bottlebrush squirreltail	10
				Blue grama	10
				Galleta	20
				Other perennial grasses	5
				Other perennial forbs	5
				Fourwing saltbush	5
				Wyoming big sagebrush	5
				Other shrubs	5
64*:					
Riverwash.					
Torrifluvents	Sandy Wash 9-12" p.z.	Favorable	450	Big galleta	2
		Normal	350	Bush muhly	1
		Unfavorable	250	Other perennial grasses	2
				Other annual grasses	2
				Other perennial forbs	2
				Other annual forbs	3
				Creosotebush	20
				Mexican bladder-sage	5
				Turpentinebroom	5
				Sage	5
				Wooly bursage	5
				White burrobrush	5
				Other shrubs	10
				Catclaw acacia	5
				Mormon tea	5

See footnote 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
65*:					
Rizno	Shallow Sandy Loam, Calcareous 10-14" p.z.	Favorable	550	Desert needlegrass	5
		Normal	400	Other perennial forbs	5
		Unfavorable	300	Blackbrush	55
				Mormon tea	5
				Mexican cliffrose	5
				Banana yucca	5
				Snakeweed	5
				Other shrubs	5
				Galleta	2
				Sand dropseed	1
Bond	Shallow Sandy Loam, Calcareous 10-14" p.z.	Favorable	600	Sand dropseed	5
		Normal	400	Other perennial grasses	5
		Unfavorable	300	Other annual grasses	3
				Other annual forbs	5
				Blackbrush	45
				Mexican cliffrose	5
				Other shrubs	5
				Utah juniper	5
				Galleta	2
				Mormon tea	5
Rock outcrop.					
66 Robroost	Gypsum Fan 7-11" p.z.	Favorable	500	Galleta	30
		Normal	400	Indian ricegrass	3
		Unfavorable	250	Other perennial forbs	2
				Winterfat	15
				Fourwing saltbush	5
				Gyp dropseed	70
67 Ruesh	Gypsum Fan 7-11" p.z.	Favorable	400	Fluffgrass	1
		Normal	250	Other perennial forbs	2
		Unfavorable	150	Other annual forbs	1
				Mormon tea	15
				Fremont dalea	10
				Creosotebush	5
				Banana yucca	5
				White bursage	20
				White ratany	10
				Winterfat	3
				White burrobrush	1
				Big galleta	5
				Other perennial grasses	2
				Other shrubs	2
				Gyp dropseed	2

See footnote 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
68---------- Sedillo	Clay Loam Upland 10-14" p.z.--	Favorable	800	Indian ricegrass----------	10
		Normal	500	Western wheatgrass----------	10
		Unfavorable	300	Black grama----------	5
				Blue grama----------	15
				Galleta----------	5
				Other perennial grasses-------	5
				Other perennial forbs---------	5
				Fourwing saltbush----------	5
				Other shrubs----------	5
				Utah juniper----------	3
				Singleleaf pinyon----------	2
				Wyoming big sagebrush---------	18
69*:					
Showlow----------	Clay Loam Upland, Gravelly---- (PIED, JUOS) 13-17" p.z.	Favorable	500	Muttongrass----------	10
		Normal	350	Indian ricegrass----------	5
		Unfavorable	250	Bottlebrush squirreltail------	5
				Blue grama----------	5
				Other perennial forbs---------	5
				Mormon tea----------	5
				Cactus----------	5
				Utah juniper----------	40
				Colorado pinyon----------	5
				Big sagebrush----------	5
Thunderbird-------	Clay Loam Upland, Gravelly---- (PIED, JUOS) 13-17" p.z.	Favorable	500	Muttongrass----------	10
		Normal	350	Indian ricegrass----------	5
		Unfavorable	250	Bottlebrush squirreltail------	5
				Blue grama----------	5
				Other perennial forbs---------	5
				Mormon tea----------	5
				Cactus----------	5
				Utah juniper----------	40
				Colorado pinyon----------	5
				Big sagebrush----------	5
70---------- Showlow	Clay Loam Upland, Gravelly---- (PIED, JUOS) 13-17" p.z.	Favorable	800	Stansbury cliffrose----------	10
		Normal	500	Western wheatgrass----------	10
		Unfavorable	400	Bottlebrush squirreltail------	5
				Sideoats grama----------	5
				Other perennial forbs---------	5
				Big sagebrush----------	5
				Threeawn----------	5
				Cactus----------	5
				Whipple cholla----------	5
				Gambel oak----------	5
				Broom snakeweed----------	5
				Other perennial grasses-------	10
				Other shrubs----------	10
				Blue grama----------	5

See footnote 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
71---------- Sponiker	Loamy Terrace (PIPO) 17-25" p.z.	Favorable	1,100	Prairie junegrass----------	5
		Normal	800	Bottlebrush squirreltail------	5
		Unfavorable	600	Blue grama----------	5
				Other perennial grasses-------	5
				Other perennial forbs---------	5
				Big sagebrush----------	10
				New Mexico locust----------	5
				Gambel oak----------	10
				Other shrubs----------	5
				Utah juniper----------	15
				Colorado pinyon----------	5
				Ponderosa pine----------	5
72*:					
Springerville-----	Clay Loam Upland, Gravelly---- (PIED, JUOS) 13-17" p.z.	Favorable	600	Prairie junegrass----------	5
		Normal	400	Blue grama----------	5
		Unfavorable	300	Muttongrass----------	5
				Other perennial grasses-------	5
				Other perennial forbs---------	5
				Big sagebrush----------	20
				Stansbury cliffrose----------	2
				Other shrubs----------	10
				Singleleaf pinyon----------	10
				Utah juniper----------	10
				Sideoats grama----------	2
				Galleta----------	2
Delenbaw----------	Clay Loam Upland, Gravelly---- (PIED, JUOS) 13-17" p.z.	Favorable	1,200	Prairie junegrass----------	5
		Normal	1,000	Sideoats grama----------	5
		Unfavorable	800	Blue grama----------	5
				Galleta----------	5
				Penstemon----------	1
				Big sagebrush----------	20
				Utah serviceberry----------	10
				Utah juniper----------	15
				Singleleaf pinyon----------	10
				Gambel oak----------	5
				Stansbury cliffrose----------	1
				Muttongrass----------	2
73---------- Strych	Loamy Upland 10-14" p.z.------	Favorable	800	Mormon tea----------	2
		Normal	600	Other shrubs----------	5
		Unfavorable	400	Blue grama----------	10
				Galleta----------	5
				Bottlebrush squirreltail------	5
				Other perennial grasses-------	5
				Big sagebrush----------	45
				Snakeweed----------	5
				Fourwing saltbush----------	5

See footnote 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
74*:					
Tanbark family	Basalt Slopes, Calcareous 10-14" p.z.	Favorable	700	Other perennial grasses	5
		Normal	600	Blackbrush	25
		Unfavorable	450	Mormon tea	5
				Mexican cliffrose	5
				Other shrubs	5
				Utah juniper	15
				Singleleaf pinyon	10
				Galleta	2
				Blue grama	1
				Gyp dropseed	2
				Wyoming big sagebrush	20
Strych family	Basalt Slopes, Calcareous 10-14" p.z.	Favorable	700	Other perennial grasses	5
		Normal	600	Blackbrush	25
		Unfavorable	450	Mexican cliffrose	5
				Other shrubs	5
				Utah juniper	15
				Singleleaf pinyon	10
				Galleta	2
				Bottlebrush squirreltail	1
				Blue grama	1
				Wyoming big sagebrush	20
				Mormon tea	5
Rock outcrop.					
75 Tanbark	Gypsum Hills, Calcareous 10-14" p.z.	Favorable	300	Indian ricegrass	1
		Normal	200	Gyp dropseed	5
		Unfavorable	100	Threeawn	1
				Other perennial forbs	10
				Bigelow sagebrush	15
				Mormon tea	5
				Rubber rabbitbrush	10
				Banana yucca	5
				Buckwheat	10
				Other shrubs	5
				Other perennial grasses	5
				Stansbury cliffrose	10
				Blackbrush	5
76*:					
Tassi	Shallow Upland, Calcareous 10-14" p.z.	Favorable	500	Other perennial forbs	3
		Normal	400	Blackbrush	60
		Unfavorable	300	Banana yucca	3
				Mormon tea	5
				Mexican cliffrose	2
				Other shrubs	5
				Galleta	2
				Blue grama	1
				Indian ricegrass	1

See footnote 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
76*:					
Rizno	Shallow Sandy Loam, Calcareous 10-14" p.z.	Favorable	550	Desert needlegrass	5
		Normal	400	Other perennial forbs	5
		Unfavorable	300	Blackbrush	55
				Mormon tea	5
				Mexican cliffrose	5
				Banana yucca	5
				Snakeweed	5
				Other shrubs	5
				Galleta	2
				Sand dropseed	1
77 Tonopah	Limy Upland, Deep 6-9" p.z.	Favorable	350	Big galleta	2
		Normal	250	Indian ricegrass	2
		Unfavorable	150	Other perennial grasses	2
				Other annual grasses	2
				Other perennial forbs	2
				Other annual forbs	2
				Creosotebush	30
				White bursage	30
				Rayless goldenhead	5
				Anderson wolfberry	3
				Other shrubs	5
				Mormon tea	3
78*:					
Torriorthents	Basalt Slopes 6-9" p.z.	Favorable	650	Bush muhly	15
		Normal	500	Big galleta	10
		Unfavorable	350	Threeawn	15
				Sand dropseed	4
				Indian ricegrass	1
				Other perennial forbs	4
				Other annual forbs	1
				Creosotebush	8
				Range ratany	5
				White bursage	15
				Other shrubs	5
				Joshua-tree	5
				Desert needlegrass	3
				Mormon tea	10
Calciorthids	Limy Upland 6-9" p.z.	Favorable	400	Other perennial grasses	3
		Normal	275	Other perennial forbs	4
		Unfavorable	150	Other annual forbs	2
				White bursage	25
				Creosotebush	15
				White ratany	5
				Turpentinebroom	4
				Cactus	5
				Other shrubs	10
				Big galleta	2
				Black grama	2
				Mormon tea	5
				Desert needlegrass	1
Rock outcrop.					

See footnote 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
79---------- Tours	Clayey Bottom 7-11" p.z.------	Favorable	3,000	Sideoats grama----------	5
		Normal	2,500	Indian ricegrass----------	5
		Unfavorable	1,500	Blue grama----------	5
				Galleta----------	10
				Alkali sacaton----------	20
				Fourwing saltbush----------	15
				Western wheatgrass----------	15
				Vine mesquite----------	10
				Winterfat----------	5
80*:					
Tsezhin family----	Basalt Slopes 13-17" p.z.------	Favorable	1,100	Prairie junegrass----------	3
		Normal	900	Other perennial grasses-------	2
		Unfavorable	650	Other perennial forbs---------	2
				Turbinella oak----------	30
				Yellowleaf silktassel---------	15
				Pointleaf manzanita----------	10
				Utah serviceberry----------	3
				Other shrubs----------	5
				Utah juniper----------	5
				Singleleaf pinyon----------	3
				New Mexico locust----------	5
				Bottlebrush squirreltail------	1
				Gambel oak----------	3
Ashfork family----	Basalt Slopes 13-17" p.z.------	Favorable	1,100	Prairie junegrass----------	3
		Normal	900	Other perennial grasses-------	2
		Unfavorable	650	Other perennial forbs---------	2
				Turbinella oak----------	30
				Yellowleaf silktassel---------	15
				Pointleaf manzanita----------	10
				Utah serviceberry----------	3
				Other shrubs----------	5
				Utah juniper----------	5
				Singleleaf pinyon----------	3
				New Mexico locust----------	5
				Gambel oak----------	3
				Bottlebrush squirreltail------	1
Rock outcrop.					
81---------- Tsezhin	Loamy Upland 13-17" p.z.------	Favorable	1,400	Other annual grasses----------	10
		Normal	1,200	Other perennial forbs---------	1
		Unfavorable	900	Other annual forbs----------	1
				Desert ceanothus----------	20
				Pointleaf manzanita----------	20
				Turbinella oak----------	20
				Goldenweed----------	2
				Other shrubs----------	5
				Utah juniper----------	5
				Sideoats grama----------	1
				Black grama----------	1
				Desert needlegrass----------	1

See footnote 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
82 Twist	Sandy Loam Upland 7-11" p.z.	Favorable	900	Bottlebrush squirreltail	1
		Normal	600	Galleta	45
		Unfavorable	400	Black grama	5
				Sand dropseed	5
				Gyp dropseed	2
				Burrograss	5
				Other perennial forbs	3
				Other annual forbs	2
				Winterfat	5
				Mormon tea	5
				Fourwing saltbush	5
				Other perennial grasses	5
				Other shrubs	3
83 Twist	Clay Loam Upland 7-11" p.z.	Favorable	750	Galleta	35
		Normal	500	Indian ricegrass	10
		Unfavorable	300	Bottlebrush squirreltail	5
				Needleandthread	5
				Black grama	5
				Other perennial grasses	5
				Other annual grasses	3
				Other perennial forbs	5
				Mormon tea	3
				Winterfat	3
				Fourwing saltbush	2
				Cactus	5
84*:					
Virgin Peak	Granitic Hills 16-20" p.z.	Favorable	700	Desert needlegrass	5
		Normal	500	Prairie junegrass	5
		Unfavorable	300	Bottlebrush squirreltail	2
				Other perennial grasses	3
				Other annual grasses	1
				Other perennial forbs	2
				Turbinella oak	20
				Goldenweed	10
				Pointleaf manzanita	5
				Other shrubs	10
				Singleleaf pinyon	15
				Sideoats grama	2
				Buckbrush	3
				Silktassel	3
Rock outcrop.					
85 Whiskey	Loamy Upland, Gravelly (PIED, JUOS) 13-17" p.z.	Favorable	900	Blue grama	20
		Normal	650	Needleandthread	15
		Unfavorable	550	Galleta	10
				Winterfat	5
				Fourwing saltbush	5
				Mormon tea	5
				Mexican cliffrose	5
				Utah juniper	10

See footnote 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
86*:					
Winkel	Limy Upland 6-9" p.z.	Favorable	450	Mormon tea	5
		Normal	300	Joshua-tree	5
		Unfavorable	175	Other shrubs	10
				Indian ricegrass	1
				Big galleta	1
				Desert needlegrass	1
				Creosotebush	20
				White bursage	20
				White ratany	5
				Wolfberry	5
				Other perennial forbs	5
Rock outcrop.					
87*:					
Winkel	Shallow Upland 9-12" p.z.	Favorable	400	Blackbrush	55
		Normal	300	Mormon tea	10
		Unfavorable	200	Banana yucca	15
				Joshua-tree	5
				Other shrubs	5
				Indian ricegrass	1
				Big galleta	1
				Desert needlegrass	1
Rock outcrop.					
88 Winkel	Limy Upland 6-9" p.z.	Favorable	450	Mormon tea	5
		Normal	300	Joshua-tree	5
		Unfavorable	175	Other shrubs	10
				Indian ricegrass	1
				Big galleta	1
				Desert needlegrass	1
				Creosotebush	20
				White bursage	20
				White ratany	5
				Wolfberry	5
				Other perennial forbs	5
89 Winkel	Shallow Upland 9-12" p.z.	Favorable	400	Blackbrush	55
		Normal	300	Mormon tea	10
		Unfavorable	200	Banana yucca	15
				Joshua-tree	5
				Other shrubs	5
				Indian ricegrass	1
				Big galleta	1
				Desert needlegrass	1
90*:					
Wutoma	Cinder Hills (PIED, JUOS) 13-17" p.z.	Favorable	1,100	Sideoats grama	5
		Normal	700	Bottlebrush squirreltail	5
		Unfavorable	300	Blue grama	5
				Needleandthread	1
				Galleta	5
				Muttongrass	10
				Fourwing saltbush	10
				Big sagebrush	15
				Mormon tea	15

See footnote 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
90*:					
Lozinta	Cinder Hills (PIED, JUOS) 13-17" p.z.	Favorable	1,100	Sideoats grama	5
		Normal	700	Bottlebrush squirreltail	5
		Unfavorable	300	Blue grama	5
				Needleandthread	1
				Galleta	5
				Muttongrass	10
				Fourwing saltbush	10
				Big sagebrush	15
				Mormon tea	15
91* Yellowhorse family	Meadow 17-25" p.z.	Favorable	1,200	Western wheatgrass	20
		Normal	1,000	Muttongrass	15
		Unfavorable	800	Bottlebrush squirreltail	15
				Spike muhly	5
				Other perennial forbs	5
				Utah juniper	5
				Colorado pinyon	5
				Big sagebrush	2
				Arizona fescue	5
				Black sagebrush	1
92*:					
Yellowhorse	Basalt Upland (PIPO) 17-25" p.z.	Favorable	900	Prairie junegrass	10
		Normal	700	Bottlebrush squirreltail	10
		Unfavorable	500	Western wheatgrass	5
				Blue grama	5
				Penstemon	5
				Big sagebrush	15
				Utah juniper	10
				Singleleaf pinyon	10
				Utah serviceberry	5
				Gambel oak	5
				Mexican cliffrose	5
Luzena family	Basalt Upland (PIPO) 17-25" p.z.	Favorable	700	Bottlebrush squirreltail	10
		Normal	500	Western wheatgrass	5
		Unfavorable	300	Blue grama	5
				Other perennial grasses	5
				Other perennial forbs	5
				Big sagebrush	15
				Utah serviceberry	5
				Mexican cliffrose	5
				Other shrubs	5
				Utah juniper	10
				Colorado pinyon	5
				Other trees	5
				Prairie junegrass	10
93*:					
Yumtheska	Limestone Slopes (PIED, JUOS) 13-17" p.z.	Favorable	700	Blue grama	25
		Normal	550	Muttongrass	10
		Unfavorable	450	Prairie junegrass	10
				Bottlebrush squirreltail	5
				Other perennial forbs	5
				Mexican cliffrose	5
				Utah juniper	15
				Big sagebrush	5
				Singleleaf pinyon	10
				Utah serviceberry	2

See footnote 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
93*:					
Katzine	Loamy Upland, Gravelly (PIED, JUOS) 13-17" p.z.	Favorable	350	Prairie junegrass	5
		Normal	200	Other perennial grasses	5
		Unfavorable	100	Other perennial forbs	5
				Utah serviceberry	5
				Other shrubs	5
				Mountain big sagebrush	10
				Colorado pinyon	10
				Muttongrass	10
				Blue grama	10
				Utah juniper	5
				Wyoming big sagebrush	20
Rock outcrop.					
94*:					
Yumtheska	Limestone Slopes (PIED, JUOS) 13-17" p.z.	Favorable	1,300	Blue grama	1
		Normal	1,100	Muttongrass	1
		Unfavorable	900	Prairie junegrass	1
				Bottlebrush squirreltail	1
				Other perennial forbs	5
				Mexican cliffrose	5
				Utah juniper	5
				Colorado pinyon	10
				Silktassel	25
				Utah serviceberry	15
				Gambel oak	10
				Big sagebrush	5
Katzine	Limestone Slopes (PIED, JUOS) 13-17" p.z.	Favorable	1,000	Prairie junegrass	2
		Normal	800	Other perennial grasses	2
		Unfavorable	500	Other perennial forbs	4
				Utah serviceberry	20
				Yellowleaf silktassel	20
				Mountain big sagebrush	5
				Other shrubs	5
				Singleleaf pinyon	10
				Gambel oak	10
				Muttongrass	2
				Blue grama	1
Rock outcrop.					
95*:					
Yumtheska	Limestone Slopes (PIED, JUOS) 13-17" p.z.	Favorable	700	Blue grama	25
		Normal	550	Muttongrass	10
		Unfavorable	450	Prairie junegrass	10
				Bottlebrush squirreltail	5
				Other perennial forbs	5
				Mexican cliffrose	5
				Utah juniper	15
				Big sagebrush	5
				Singleleaf pinyon	10

See footnote 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
95*:					
Natank	Clay Loam Upland, Gravelly (PIED, JUOS) 13-17" p.z.	Favorable	900	Western wheatgrass	10
		Normal	650	Muttongrass	10
		Unfavorable	550	Prairie junegrass	10
				Bottlebrush squirreltail	10
				Blue grama	20
				Galleta	5
				Utah juniper	15
				Colorado pinyon	5
				Big sagebrush	5
96*:					
Yurm family	Limy Upland 6-9" p.z.	Favorable	450	Other perennial grasses	3
		Normal	300	Other perennial forbs	4
		Unfavorable	175	Other annual forbs	2
				White bursage	30
				Creosotebush	15
				White ratany	10
				Turpentinebroom	4
				Cactus	5
				Other shrubs	10
				Big galleta	1
				Desert needlegrass	2
				Mormon tea	5
Meadview	Limy Upland, Deep 6-9" p.z.	Favorable	400	Big galleta	5
		Normal	300	Other perennial grasses	5
		Unfavorable	200	Creosotebush	35
				White bursage	10
				Mormon tea	5
				White ratany	5
				Winterfat	5
				Other shrubs	10
				Indian ricegrass	2
97*:					
Yurm family	Shallow Upland 9-12" p.z.	Favorable	400	Other shrubs	5
		Normal	300	Big galleta	1
		Unfavorable	200	Desert needlegrass	1
				Mormon tea	10
				Blackbrush	55
				Banana yucca	10
Meadview	Sandy Loam, Gravelly 9-12" p.z.	Favorable	400	Big galleta	1
		Normal	300	Other perennial grasses	5
		Unfavorable	200	Creosotebush	2
				Mormon tea	5
				Other shrubs	5
				Indian ricegrass	1
				Blackbrush	60

See footnote 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
98*---------- Yurm family	Limy Upland 6-9" p.z.---------	Favorable	450	Other perennial grasses-------	3
		Normal	300	Other perennial forbs---------	4
		Unfavorable	175	Other annual forbs----------	2
				White bursage----------	30
				Creosotebush----------	15
				White ratany----------	10
				Turpentinebroom----------	4
				Cactus----------	5
				Other shrubs----------	10
				Big galleta----------	1
				Mormon tea----------	5
				Desert needlegrass----------	2
99*---------- Yurm family	Shallow Upland 9-12" p.z.-----	Favorable	400	Creosotebush----------	2
		Normal	300	Other shrubs----------	5
		Unfavorable	200	Big galleta----------	1
				Mormon tea----------	10
				Desert needlegrass----------	1
				Blackbrush----------	55
				Banana yucca----------	10

* 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	Ordination symbol	Management concerns: Erosion hazard	Equipment limitation	Seedling mortality	Windthrow hazard	Plant competition	Potential productivity: Common trees	Site index	Productivity class*	Trees to plant
14**:										
Boquillas family	1R	Severe	Severe	Moderate	Slight	Severe	Utah juniper	40	1	
Showlow.	1R	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper	50	0	
20**:										
Dermala family	08	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper	40	0	Utah juniper, pinyon.
							Pinyon	40	0	
Guy family	0R	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper	40	0	Utah juniper, pinyon.
							Pinyon	40	0	
Rock outcrop.										
21**:										
Disterheff	2C	Slight	Slight	Moderate	Slight	Moderate	Utah juniper	50	2	Utah juniper, pinyon.
							Pinyon	50	2	
Natank	1C	Slight	Slight	Moderate	Slight	Moderate	Utah juniper	50	0	
Yumtheska	1R	Moderate	Moderate	Moderate	Moderate	Moderate	Utah juniper	50	0	Utah juniper,
							Singleleaf pinyon	50	0	singleleaf pinyon.
25 Goesling	2A	Slight	Slight	Slight	Slight	Moderate	Utah juniper	75	2	Utah juniper,
							Singleleaf pinyon	75	2	singleleaf pinyon.
69**:										
Showlow	1X	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper	50	0	
Thunderbird	1X	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper	50	0	
							Pinyon	50	0	
70 Showlow	1R	Severe	Severe	Moderate	Slight	Severe	Utah juniper	50	2	
							Utah juniper	40	1	
							Pinyon	---	--	
71 Sponiker	4A	Slight	Slight	Moderate	Slight	Moderate	Ponderosa pine	65	4	Ponderosa pine.
							Utah juniper	---	--	
							Pinyon	---	--	

See footnote at end of table.

Table 7.--Woodland Management and Productivity--Continued

Soil name and map symbol	Ordination symbol	Management concerns: Erosion hazard	Equipment limitation	Seedling mortality	Windthrow hazard	Plant competition	Potential productivity: Common trees	Site index	Productivity class*	Trees to plant
72**:										
Springerville	1C	Slight	Slight	Moderate	Slight	Moderate	Singleleaf pinyon	80	1	Singleleaf pinyon, Utah juniper, Gambel oak, New Mexico locust.
							Utah juniper	80	1	
Delenbaw	2R	Moderate	Moderate	Slight	--------	Moderate	Singleleaf pinyon	49	2	Singleleaf pinyon, Utah juniper, Gambel oak, New Mexico locust.
							Utah juniper	---	--	
90**:										
Wutoma	0R	Severe	Moderate	Slight	--------	Moderate	Utah juniper	20	0	Colorado pinyon.
							Pinyon	---	--	
Lozinta	0R	Severe	Moderate	Slight	--------	Moderate	Utah juniper	20	0	
92**:										
Yellowhorse	3C	Slight	Slight	Slight	Moderate	Slight	Ponderosa pine	70	3	Ponderosa pine.
Luzena family	4D	Slight	Moderate	Moderate	Moderate	Moderate	Ponderosa pine	70	4	Ponderosa pine.
							Utah juniper	---	--	
							Pinyon	---	--	
							Gambel oak	---	--	
93**:										
Yumtheska	1R	Moderate	Moderate	Moderate	Moderate	Moderate	Utah juniper	50	0	Utah juniper, Colorado pinyon.
							Colorado pinyon	50	0	
Katzine.	1C	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper	60	0	Utah juniper, Colorado pinyon.
							Colorado pinyon	60	0	
Rock outcrop.										
95**:										
Yumtheska	1R	Moderate	Moderate	Moderate	Moderate	Moderate	Utah juniper	50	0	Utah juniper, singleleaf pinyon.
							Singleleaf pinyon	50	0	
Natank	1C	Slight	Slight	Moderate	Slight	Moderate	Utah juniper	50	0	Utah juniper, singleleaf pinyon.

* Productivity class is the yield in cubic meters per hectare per year calculated at the age of culmination of mean annual increment for fully stocked natural stands.

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

Table 8.--Woodland Understory Vegetation

(Only the soils suitable for production of commercial trees are listed)

Soil name and map symbol	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation	Composition
		Lb/acre		Pct
14*:				
Boquillas family--	Favorable	700	Utah juniper	30
	Normal	500	Needleandthread	10
	Unfavorable	350	New Mexico feathergrass	5
			Sideoats grama	5
			Galleta	5
			Desert needlegrass	5
			Turbinella oak	5
			Colorado pinyon	5
			Big sagebrush	5
Showlow.	Favorable	700	Muttongrass	5
	Normal	500	Blue grama	5
	Unfavorable	350	Other perennial forbs	5
			Utah juniper	25
			Colorado pinyon	5
			Big sagebrush	5
			Needleandthread	15
			Galleta	10
			Fourwing saltbush	2
			Black grama	10
20*:				
Dermala family----	Favorable	700	Needleandthread	15
	Normal	400	Galleta	10
	Unfavorable	300	Desert needlegrass	10
			Utah juniper	10
			Black grama	5
			Sideoats grama	5
			Prairie junegrass	5
			Colorado pinyon	5
			Wyoming big sagebrush	5
Guy family--------	Favorable	700	Needleandthread	15
	Normal	400	Galleta	10
	Unfavorable	300	Desert needlegrass	10
			Utah juniper	10
			Black grama	5
			Sideoats grama	5
			Prairie junegrass	5
			Colorado pinyon	5
			Wyoming big sagebrush	5
Rock outcrop.				
21*:				
Disterheff--------	Favorable	900	Blue grama	20
	Normal	650	Utah juniper	15
	Unfavorable	550	Western wheatgrass	10
			Muttongrass	10
			Prairie junegrass	10
			Bottlebrush squirreltail	10
			Galleta	5
			Colorado pinyon	5
			Big sagebrush	5

See footnote at end of table.

Table 8.--Woodland Understory Vegetation--Continued

Soil name and map symbol	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation	Composition
		Lb/acre		Pct
21*:				
Natank	Favorable	900	Blue grama	20
	Normal	650	Utah juniper	15
	Unfavorable	550	Western wheatgrass	10
			Muttongrass	10
			Prairie junegrass	10
			Bottlebrush squirreltail	10
			Galleta	5
			Colorado pinyon	5
			Big sagebrush	5
Yumtheska	Favorable	700	Blue grama	25
	Normal	550	Utah juniper	15
	Unfavorable	450	Muttongrass	10
			Prairie junegrass	10
			Singleleaf pinyon	10
			Bottlebrush squirreltail	5
			Mexican cliffrose	5
			Big sagebrush	5
25 Goesling	Favorable	900	Blue grama	15
	Normal	700	Wyoming big sagebrush	15
	Unfavorable	500	Western wheatgrass	10
			Indian ricegrass	5
			Needleandthread	5
			Fourwing saltbush	5
			Galleta	5
			Muttongrass	5
			Bottlebrush squirreltail	5
69*:				
Showlow	Favorable	500	Utah juniper	40
	Normal	350	Muttongrass	10
	Unfavorable	250	Indian ricegrass	5
			Bottlebrush squirreltail	5
			Blue grama	5
			Mormon tea	5
			Cactus	5
			Colorado pinyon	5
			Big sagebrush	5
Thunderbird	Favorable	500	Utah juniper	40
	Normal	350	Muttongrass	10
	Unfavorable	250	Indian ricegrass	5
			Bottlebrush squirreltail	5
			Blue grama	5
			Mormon tea	5
			Cactus	5
			Colorado pinyon	5
			Big sagebrush	5

See footnote at end of table.

Table 8.--Woodland Understory Vegetation--Continued

Soil name and map symbol	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation	Composition
		Lb/acre		Pct
70---------- Showlow	Favorable	800	Stansbury cliffrose----------	10
	Normal	500	Western wheatgrass----------	10
	Unfavorable	400	Bottlebrush squirreltail----------	5
			Sideoats grama----------	5
			Big sagebrush----------	5
			Threeawn----------	5
			Cactus----------	5
			Whipple cholla----------	5
			Gambel oak----------	5
			Broom snakeweed----------	5
			Blue grama----------	5
71---------- Sponiker	Favorable	1,100	Utah juniper----------	15
	Normal	800	Big sagebrush----------	10
	Unfavorable	600	Gambel oak----------	10
			Prairie junegrass----------	5
			Bottlebrush squirreltail----------	5
			Blue grama----------	5
			New Mexico locust----------	5
			Colorado pinyon----------	5
			Ponderosa pine----------	5
72*:				
Springerville-----	Favorable	600	Big sagebrush----------	20
	Normal	400	Singleleaf pinyon----------	10
	Unfavorable	300	Utah juniper----------	10
			Prairie junegrass----------	5
			Blue grama----------	5
			Muttongrass----------	5
Delenbaw----------	Favorable	1,200	Big sagebrush----------	20
	Normal	1,000	Utah juniper----------	15
	Unfavorable	800	Utah serviceberry----------	10
			Singleleaf pinyon----------	10
			Prairie junegrass----------	5
			Sideoats grama----------	5
			Blue grama----------	5
			Galleta----------	5
			Gambel oak----------	5
90*:				
Wutoma----------	Favorable	1,100	Big sagebrush----------	15
	Normal	700	Mormon tea----------	15
	Unfavorable	300	Muttongrass----------	10
			Fourwing saltbush----------	10
			Sideoats grama----------	5
			Bottlebrush squirreltail----------	5
			Blue grama----------	5
			Galleta----------	5
Lozinta----------	Favorable	1,100	Big sagebrush----------	15
	Normal	700	Mormon tea----------	15
	Unfavorable	300	Muttongrass----------	10
			Fourwing saltbush----------	10
			Sideoats grama----------	5
			Bottlebrush squirreltail----------	5
			Blue grama----------	5
			Galleta----------	5

See footnote at end of table.

Table 8.--Woodland Understory Vegetation--Continued

Soil name and map symbol	Total production: Kind of year	Total production: Dry weight	Characteristic vegetation	Composition
		Lb/acre		Pct
92*:				
Yellowhorse	Favorable	900	Big sagebrush	15
	Normal	700	Prairie junegrass	10
	Unfavorable	500	Bottlebrush squirreltail	10
			Utah juniper	10
			Singleleaf pinyon	10
			Western wheatgrass	5
			Blue grama	5
			Penstemon	5
			Utah serviceberry	5
			Gambel oak	5
			Mexican cliffrose	5
Luzena family	Favorable	700	Mountain big sagebrush	15
	Normal	500	Bottlebrush squirreltail	10
	Unfavorable	300	Utah juniper	10
			Prairie junegrass	10
			Western wheatgrass	5
			Blue grama	5
			Utah serviceberry	5
			Mexican cliffrose	5
			Colorado pinyon	5
93*:				
Yumtheska	Favorable	700	Blue grama	25
	Normal	550	Utah juniper	15
	Unfavorable	450	Muttongrass	10
			Prairie junegrass	10
			Singleleaf pinyon	10
			Bottlebrush squirreltail	5
			Mexican cliffrose	5
			Big sagebrush	5
Katzine.	Favorable	350	Prairie junegrass	5
	Normal	200	Other perennial grasses	5
	Unfavorable	100	Other perennial forbs	5
			Utah serviceberry	5
			Other shrubs	5
			Mountain big sagebrush	10
			Colorado pinyon	10
			Muttongrass	10
			Blue grama	10
			Utah juniper	5
			Wyoming big sagebrush	20
Rock outcrop.				
95*:				
Yumtheska	Favorable	700	Blue grama	25
	Normal	550	Utah juniper	15
	Unfavorable	450	Muttongrass	10
			Prairie junegrass	10
			Singleleaf pinyon	10
			Bottlebrush squirreltail	5
			Mexican cliffrose	5
			Big sagebrush	5

See footnote at end of table.

Table 8.--Woodland Understory Vegetation--Continued

Soil name and map symbol	Total production		Characteristic vegetation	Composition
	Kind of year	Dry weight		
		Lb/acre		Pct
95*:				
Natank	Favorable	900	Blue grama	20
	Normal	650	Utah juniper	15
	Unfavorable	550	Western wheatgrass	10
			Muttongrass	10
			Prairie junegrass	10
			Bottlebrush squirreltail	10
			Galleta	5
			Colorado pinyon	5
			Big sagebrush	5

* 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	Golf fairways
1*:					
Akinville	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Severe: small stones.	Severe: small stones.
Mokaac	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Moderate: large stones, too sandy.	Severe: large stones, droughty.
2 Albers	Moderate: percs slowly, too clayey.	Moderate: too clayey, percs slowly.	Moderate: too clayey, percs slowly.	Moderate: too clayey.	Severe: too clayey.
3* Arada family	Moderate: too sandy.	Moderate: too sandy.	Moderate: slope, too sandy.	Moderate: too sandy.	Moderate: droughty.
4* Arizo	Moderate: small stones.	Moderate: small stones.	Severe: small stones.	Slight	Severe: droughty.
5* Arizo	Severe: flooding, small stones.	Severe: small stones.	Severe: small stones.	Severe: small stones.	Severe: small stones, droughty.
6* Badland	Severe: slope, depth to rock, excess salt.	Severe: slope, excess salt, depth to rock.	Severe: slope, depth to rock, excess salt.	Severe: slope.	Severe: excess salt, slope, depth to rock.
7*:					
Bard family	Severe: cemented pan.	Severe: cemented pan.	Severe: small stones, cemented pan.	Slight	Severe: cemented pan.
Tonopah	Moderate: small stones, too sandy.	Moderate: too sandy, small stones.	Severe: small stones.	Moderate: too sandy.	Severe: droughty.
Arada family	Moderate: too sandy.	Moderate: too sandy.	Moderate: slope, too sandy.	Moderate: too sandy.	Moderate: droughty.
8 Barx	Slight	Slight	Moderate: slope, small stones.	Slight	Slight.
9*:					
Barx	Moderate: small stones, dusty.	Moderate: small stones, dusty.	Severe: small stones.	Moderate: dusty.	Moderate: small stones.
Strych	Severe: small stones.	Severe: small stones.	Severe: small stones.	Moderate: dusty.	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	Golf fairways
10*:					
Berzatic family	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope, small stones.	Severe: small stones, large stones, droughty.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
Goblin	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
11*:					
Bisoodi	Severe: depth to rock.	Severe: depth to rock.	Severe: small stones, depth to rock.	Moderate: dusty.	Severe: depth to rock.
Anasazi family	Slight	Slight	Moderate: slope, small stones, depth to rock.	Slight	Moderate: depth to rock.
12*:					
Blind family	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Moderate: large stones.	Moderate: small stones, large stones, droughty.
Shelley	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Severe: small stones.	Severe: small stones, droughty.
13*:					
Blind family	Moderate: slope, large stones, small stones.	Moderate: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Slight	Severe: droughty.
Shelley	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Severe: small stones.	Severe: small stones, droughty.
14*:					
Boquillas family	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.	Severe: large stones, slope.
Showlow	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.	Severe: small stones, large stones, slope.
15*:					
Carrizo	Severe: flooding, small stones.	Severe: small stones.	Severe: small stones.	Moderate: too sandy.	Severe: small stones, droughty.

See footnote at end of table.

Table 9.--Recreational Development--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
15*:					
Carrizo	Severe: flooding, large stones, small stones.	Severe: large stones, small stones.	Severe: large stones, small stones.	Moderate: large stones, too sandy.	Severe: small stones, large stones, droughty.
16*:					
Cave	Severe: cemented pan.	Severe: cemented pan.	Severe: small stones, cemented pan.	Slight	Severe: cemented pan.
Harrisburg	Moderate: slope, small stones.	Moderate: slope, small stones.	Severe: slope, small stones.	Slight	Moderate: small stones, slope, cemented pan.
Grapevine	Moderate: slope, small stones.	Moderate: slope, small stones.	Severe: slope, small stones.	Slight	Moderate: small stones, large stones, droughty.
17*:					
Chic	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones.	Severe: small stones, droughty, slope.
Teesto	Severe: large stones, small stones, depth to rock.	Severe: large stones, small stones, depth to rock.	Severe: large stones, slope, small stones.	Moderate: large stones, dusty.	Severe: small stones, large stones, droughty.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Moderate: slope.	Severe: depth to rock.
18*:					
Childers	Severe: cemented pan.	Severe: cemented pan.	Severe: slope, small stones, cemented pan.	Moderate: dusty.	Severe: cemented pan.
Rizno	Severe: small stones, depth to rock.	Severe: small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Slight	Severe: small stones, depth to rock.
19 Dera	Severe: small stones.	Severe: small stones.	Severe: small stones.	Severe: small stones.	Severe: small stones.
20*:					
Dermala family	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope.	Severe: small stones, large stones, slope.
Guy family	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope.	Severe: small stones, 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	Golf fairways
20*:					
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
21*:					
Disterheff	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Slight	Severe: small stones.
Natank	Severe: small stones.	Severe: small stones.	Severe: small stones.	Moderate: dusty.	Severe: small stones.
Yumtheska	Severe: small stones, depth to rock.	Severe: small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Slight	Severe: small stones, depth to rock.
22*:					
Dutchman	Slight	Slight	Moderate: slope, small stones.	Slight	Moderate: droughty.
McCullan	Moderate: small stones.	Moderate: small stones.	Severe: small stones.	Slight	Moderate: small stones.
23 Goblin	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
24*:					
Goblin	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, small stones, depth to rock.	Slight	Severe: depth to rock.
Gyppocket	Severe: large stones, small stones.	Severe: large stones, small stones.	Severe: large stones, slope, small stones.	Moderate: large stones.	Severe: small stones, droughty.
25 Goesling	Moderate: dusty.	Moderate: dusty.	Moderate: slope, dusty.	Moderate: dusty.	Slight.
26*:					
Grapevine	Moderate: small stones.	Moderate: small stones.	Severe: small stones.	Slight	Moderate: small stones, large stones, droughty.
Hobcan	Severe: flooding.	Moderate: dusty.	Moderate: slope, dusty.	Moderate: dusty.	Slight.
27*:					
Grapevine	Moderate: small stones.	Moderate: small stones.	Severe: small stones.	Slight	Moderate: small stones, large stones, droughty.

See footnote at end of table.

Table 9.--Recreational Development--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
27*:					
Shelley	Severe: small stones.	Severe: small stones.	Severe: small stones.	Severe: small stones.	Severe: small stones, droughty.
28*:					
Gypill	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
Badland	Severe: slope, depth to rock, excess salt.	Severe: slope, excess salt, depth to rock.	Severe: slope, depth to rock, excess salt.	Severe: slope.	Severe: excess salt, slope, depth to rock.
29 Gypill	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
30*:					
Gypill	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Moderate: slope.	Severe: slope, depth to rock.
Hobog	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: small stones, slope, depth to rock.
31 Gypill	Severe: slope, large stones, depth to rock.	Severe: slope, large stones, depth to rock.	Severe: large stones, slope, small stones.	Severe: large stones, slope.	Severe: large stones, slope, depth to rock.
32*:					
Gypisorthids	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Gypisorthids, shallow	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
33 Havasupai	Severe: small stones, cemented pan.	Severe: small stones, cemented pan.	Severe: small stones, cemented pan.	Moderate: dusty.	Severe: small stones, droughty, cemented pan.
34*:					
Hindu	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones.	Severe: small stones, droughty, slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
Gypill	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.

See footnote at end of table.

Table 9.--Recreational Development--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
35 Hobcan	Slight	Slight	Moderate: slope.	Slight	Slight.
36*:					
Hobog	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: small stones, slope, depth to rock.
Grapevine	Moderate: small stones.	Moderate: small stones.	Severe: small stones.	Slight	Moderate: small stones, large stones, droughty.
37*:					
Hobog	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: small stones, slope, depth to rock.
Grapevine	Moderate: small stones.	Moderate: small stones.	Severe: slope, small stones.	Slight	Moderate: small stones, large stones, droughty.
38*:					
Hobog	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: small stones, slope, depth to rock.
Tidwell family	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: small stones, slope, depth to rock.
39 Hobog	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: small stones, slope, depth to rock.
40 Ivanpatch	Slight	Slight	Moderate: slope, small stones.	Slight	Slight.
41 Ives	Severe: flooding.	Moderate: flooding, dusty.	Severe: flooding.	Moderate: flooding, dusty.	Severe: flooding.
42*:					
Katzine	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Severe: slope.	Severe: droughty, slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.

See footnote at end of table.

Table 9.--Recreational Development--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
42*:					
Yumtheska	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: small stones, slope, depth to rock.
43*:					
Meadview	Severe: slope.	Severe: slope.	Severe: large stones, slope, small stones.	Moderate: slope.	Severe: droughty, slope.
Cave	Severe: cemented pan.	Severe: cemented pan.	Severe: slope, small stones.	Slight	Severe: cemented pan.
44 Meadview	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Slight	Severe: small stones, droughty.
45*:					
Mellenthin	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: small stones.	Severe: small stones, slope, depth to rock.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
Torriorthents	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
46*, 47*:					
Mellenthin	Severe: small stones, depth to rock.	Severe: small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: small stones.	Severe: small stones, depth to rock.
Strych	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Moderate: dusty.	Severe: small stones.
48*:					
Mellenthin	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: small stones.	Severe: small stones, slope, depth to rock.
Tanbark	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
49*:					
Mellethin	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: small stones.	Severe: small stones, slope, depth to rock.

See footnote at end of table.

Table 9.--Recreational Development--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
49*:					
Tanbark	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
50*:					
Mellenthin	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: small stones.	Severe: small stones, slope, depth to rock.
Tanbark	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
51*:					
Merwhitica	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: small stones, slope, depth to rock.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
Strych	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.	Severe: small stones, slope.
52*:					
Meriwhitica	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: small stones, slope, depth to rock.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
Strych	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.	Severe: small stones, slope.
53*:					
Mespun	Severe: too sandy.	Severe: too sandy.	Severe: slope, too sandy.	Severe: too sandy.	Moderate: droughty.
Mespun	Severe: too sandy.	Severe: too sandy.	Severe: too sandy.	Severe: too sandy.	Moderate: droughty.
54*:					
Moenkopie	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: slope, depth to rock.
Goblin	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: slope, depth to rock.

See footnote at end of table.

Table 9.--Recreational Development--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
55*:					
Moenkopie	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: slope, depth to rock.
Pennell	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: slope, depth to rock.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
56*:					
Nikey family	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope, small stones.	Severe: slope.	Severe: large stones, droughty, slope.
Ruesh family	Severe: slope, large stones.	Severe: slope, large stones.	Severe: large stones, slope.	Severe: large stones, slope.	Severe: large stones, slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
57*:					
Nipton	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: small stones, slope, depth to rock.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
Nickel family	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Moderate: large stones, slope.	Severe: small stones, slope.
58*:					
Nutter	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Moderate: dusty.	Severe: small stones.
Gyppocket	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Slight	Severe: small stones, droughty.
59 Padilla	Moderate: dusty.	Moderate: dusty.	Moderate: slope, small stones, dusty.	Moderate: dusty.	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	Golf fairways
60*:					
Pocum	Severe: cemented pan.	Severe: cemented pan.	Severe: small stones, cemented pan.	Slight	Severe: cemented pan.
Childers	Severe: large stones, small stones, cemented pan.	Severe: large stones, small stones, cemented pan.	Severe: large stones, slope, small stones.	Moderate: large stones.	Severe: small stones, large stones, cemented pan.
Ubank	Moderate: small stones.	Moderate: small stones.	Severe: small stones.	Slight	Moderate: small stones.
61*:					
Pocum	Severe: cemented pan.	Severe: cemented pan.	Severe: small stones, cemented pan.	Slight	Severe: cemented pan.
Spenlo	Moderate: dusty.	Moderate: dusty.	Moderate: slope, dusty.	Moderate: dusty.	Slight.
62*:					
Pompeii family	Severe: small stones, cemented pan.	Severe: small stones, cemented pan.	Severe: small stones, cemented pan.	Slight	Severe: small stones, cemented pan.
Huevi	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Slight	Severe: small stones, droughty.
63 Radnik	Severe: flooding.	Moderate: dusty.	Moderate: slope, flooding, dusty.	Moderate: dusty.	Moderate: flooding.
64*:					
Riverwash	Severe: flooding, wetness, depth to rock.	Severe: wetness, depth to rock.	Severe: wetness, flooding, depth to rock.	Severe: wetness.	Severe: wetness, flooding, depth to rock.
Torrifluvents	Severe: flooding, wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.
65*:					
Rizno	Severe: small stones, depth to rock.	Severe: small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Slight	Severe: small stones, depth to rock.
Bond	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, small stones, depth to rock.	Slight	Severe: depth to rock.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Slight	Severe: depth to rock.

See footnote at end of table.

Table 9.--Recreational Development--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
66 Robroost	Slight	Slight	Moderate: slope, small stones.	Slight	Slight.
67 Ruesh	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Slight	Severe: small stones.
68 Sedillo	Severe: large stones.	Severe: large stones.	Severe: large stones, small stones.	Moderate: large stones, dusty.	Severe: large stones.
69*:					
Showlow	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Moderate: large stones.	Severe: large stones.
Thunderbird	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Severe: large stones.	Severe: large stones.
70 Showlow	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Severe: large stones.	Severe: large stones.
71 Sponiker	Slight	Slight	Moderate: slope, small stones.	Slight	Slight.
72*:					
Springerville	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Moderate: large stones.	Severe: large stones.
Delenbaw	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Moderate: large stones, dusty.	Severe: large stones.
73 Strych	Severe: small stones.	Severe: small stones.	Severe: slope, small stones.	Moderate: dusty.	Severe: small stones.
74*:					
Tanbark family	Severe: slope, large stones, depth to rock.	Severe: slope, large stones, depth to rock.	Severe: large stones, slope, small stones.	Severe: slope.	Severe: large stones, slope, depth to rock.
Strych family	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: large stones, slope.	Severe: small stones, large stones, slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.

See footnote at end of table.

Table 9.--Recreational Development--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
75 Tanbark	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
76*:					
Tassi	Severe: small stones, cemented pan.	Severe: small stones, cemented pan.	Severe: slope, small stones, cemented pan.	Moderate: dusty.	Severe: small stones, cemented pan.
Rizno	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Moderate: slope.	Severe: small stones, slope, depth to rock.
77 Tonopah	Moderate: small stones, too sandy.	Moderate: too sandy, small stones.	Severe: small stones.	Moderate: too sandy.	Severe: droughty.
78*:					
Torriorthents	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
Calciorthids	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope, depth to rock.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
79 Tours	Severe: flooding.	Moderate: dusty.	Moderate: slope, flooding, dusty.	Moderate: dusty.	Moderate: flooding.
80*:					
Tsezhin family	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope.	Severe: small stones, large stones, slope.
Ashfork family	Severe: slope, large stones, small stones.	Severe: slope, large stones, small stones.	Severe: large stones, slope, small stones.	Severe: slope.	Severe: small stones, large stones, slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
81 Tsezhin	Severe: large stones.	Severe: large stones.	Severe: large stones, slope, small stones.	Moderate: large stones.	Severe: large stones.
82 Twist	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.	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	Golf fairways
83 Twist	Severe: large stones.	Severe: large stones.	Severe: large stones, small stones.	Moderate: large stones, dusty.	Severe: large stones.
84*:					
Virgin Peak	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: small stones, slope, depth to rock.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
85 Whiskey	Slight	Slight	Moderate: slope, small stones.	Slight	Slight.
86*, 87*:					
Winkel	Severe: small stones, cemented pan.	Severe: small stones, cemented pan.	Severe: slope, small stones, cemented pan.	Moderate: dusty.	Severe: small stones, droughty.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Moderate: slope.	Severe: depth to rock.
88, 89 Winkel	Severe: small stones, cemented pan.	Severe: small stones, cemented pan.	Severe: slope, small stones, cemented pan.	Moderate: dusty.	Severe: small stones, droughty.
90*:					
Wutoma	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones, slope.
Lozinta	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.	Severe: small stones, slope.
91* Yellowhorse family	Severe: flooding.	Moderate: wetness, too clayey, percs slowly.	Moderate: too clayey, wetness.	Moderate: too clayey.	Severe: too clayey.
92*:					
Yellowhorse	Severe: percs slowly.	Severe: percs slowly.	Severe: large stones, small stones.	Moderate: large stones.	Moderate: small stones, large stones.
Luzena family	Severe: large stones, small stones, depth to rock.	Severe: large stones, small stones, depth to rock.	Severe: large stones, small stones.	Moderate: large stones.	Severe: small stones, large stones, depth to rock.

See footnote at end of table.

Table 9.--Recreational Development--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
93*:					
Yumtheska	Severe: small stones, depth to rock.	Severe: small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Slight	Severe: small stones, depth to rock.
Katzine	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Moderate: slope.	Severe: small stones, slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Moderate: slope.	Severe: depth to rock.
94*:					
Yumtheska	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: small stones, slope, depth to rock.
Katzine	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: small stones, droughty, slope.
Rock outcrop	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: slope.	Severe: depth to rock.
95*:					
Yumtheska	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope, small stones, depth to rock.	Severe: slope.	Severe: small stones, slope, depth to rock.
Natank	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Moderate: slope, dusty.	Severe: small stones, slope.
96*, 97*:					
Yurm family	Severe: slope, large stones, cemented pan.	Severe: slope, large stones, cemented pan.	Severe: large stones, slope, small stones.	Moderate: large stones, slope.	Severe: large stones, slope, cemented pan.
Meadview	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope, small stones.	Severe: slope.	Severe: small stones, droughty, slope.
98*, 99* Yurm family	Severe: slope, small stones, cemented pan.	Severe: slope, small stones, cemented pan.	Severe: slope, small stones, cemented pan.	Severe: slope.	Severe: small stones, slope, cemented pan.

* 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
1*:						
Akinville	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.	Severe: small stones.
Mokaac	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope, shrink-swell.	Severe: slope.	Moderate: slope.	Severe: large stones, droughty.
2 Albers	Severe: cutbanks cave.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Severe: too clayey.
3* Arada family	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight	Moderate: droughty.
4* Arizo	Severe: cutbanks cave.	Slight	Slight	Slight	Slight	Severe: droughty.
5* Arizo	Severe: cutbanks cave.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: small stones, droughty.
6* Badland	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: excess salt, slope, depth to rock.
7*:						
Bard family	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.
Tonopah	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight	Severe: droughty.
Arada family	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight	Moderate: droughty.
8 Barx	Slight	Slight	Moderate: shrink-swell.	Slight	Slight	Slight.
9*:						
Barx	Slight	Slight	Slight	Slight	Slight	Moderate: small stones.
Strych	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight	Severe: small stones.
10*:						
Berzatic family	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, 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
10*:						
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: depth to rock.
Goblin----------	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
11*:						
Bisoodi----------	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.
Anasazi family---	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: slope, depth to rock.	Moderate: depth to rock, frost action.	Moderate: depth to rock.
12*:						
Blind family-----	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.	Moderate: small stones, large stones, droughty.
Shelley----------	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.	Severe: small stones, droughty.
13*:						
Blind family-----	Severe: cutbanks cave.	Moderate: slope, large stones.	Moderate: slope, large stones.	Severe: slope.	Moderate: slope, large stones.	Severe: droughty.
Shelley----------	Severe: cutbanks cave.	Moderate: slope, large stones.	Moderate: slope, large stones.	Severe: slope.	Moderate: slope, large stones.	Severe: small stones, droughty.
14*:						
Boquillas family-	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: large stones, slope.
Showlow----------	Severe: slope.	Severe: shrink-swell, slope.	Severe: slope.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength, slope.	Severe: small stones, large stones, slope.
15*:						
Carrizo----------	Severe: cutbanks cave.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: small stones, droughty.
Carrizo----------	Severe: cutbanks cave.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: small stones, large stones, droughty.
16*:						
Cave----------	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.

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
16*:						
Harrisburg	Severe: cemented pan.	Moderate: slope, cemented pan.	Severe: cemented pan.	Severe: slope.	Moderate: cemented pan, slope.	Moderate: small stones, slope, cemented pan.
Grapevine	Moderate: slope.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.	Moderate: small stones, large stones, droughty.
17*:						
Chic	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
Teesto	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Severe: small stones, large stones, droughty.
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: depth to rock.
18*:						
Childers	Severe: depth to rock, cemented pan.	Moderate: slope, depth to rock, cemented pan.	Severe: depth to rock, cemented pan.	Severe: slope.	Moderate: depth to rock, cemented pan, slope.	Severe: cemented pan.
Rizno	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Severe: small stones, depth to rock.
19 Dera	Slight	Slight	Slight	Moderate: slope.	Slight	Severe: small stones.
20*:						
Dermala family	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, large stones, slope.
Guy family	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: 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: depth to rock.
21*:						
Disterheff	Moderate: too clayey.	Severe: shrink-swell.	Moderate: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	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
21*:						
Natank	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: slope, depth to rock.	Moderate: depth to rock, frost action.	Severe: small stones.
Yumtheska	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Severe: small stones, depth to rock.
22*:						
Dutchman	Slight	Slight	Slight	Moderate: slope.	Slight	Moderate: droughty.
McCullan	Slight	Slight	Moderate: shrink-swell.	Moderate: slope.	Slight	Moderate: small stones.
23 Goblin	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
24*:						
Goblin	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: slope, depth to rock.	Moderate: depth to rock.	Severe: depth to rock.
Gyppocket	Moderate: large stones.	Moderate: large stones.	Moderate: large stones.	Moderate: slope, large stones.	Moderate: large stones.	Severe: small stones, droughty.
25 Goesling	Slight	Moderate: shrink-swell.	Moderate: shrink-swell.	Moderate: shrink-swell.	Severe: low strength.	Slight.
26*:						
Grapevine	Slight	Slight	Slight	Slight	Slight	Moderate: small stones, large stones, droughty.
Hobcan	Slight	Severe: flooding.	Severe: flooding.	Severe: flooding.	Moderate: flooding.	Slight.
27*:						
Grapevine	Slight	Slight	Slight	Slight	Slight	Moderate: small stones, large stones, droughty.
Shelley	Severe: cutbanks cave.	Slight	Slight	Slight	Slight	Severe: small stones, droughty.
28*:						
Gypill	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
Badland	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: excess salt, 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
29---------- Gypill	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
30*:						
Gypill----------	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
Hobog----------	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.
31---------- Gypill	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: large stones, slope, depth to rock.
32*:						
Gypisorthids-----	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Gypisorthids, shallow---------	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
33---------- Havasupai	Severe: cemented pan, cutbanks cave.	Moderate: cemented pan.	Severe: cemented pan.	Moderate: cemented pan.	Moderate: cemented pan.	Severe: small stones, droughty, cemented pan.
34*:						
Hindu----------	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, droughty, 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: depth to rock.
Gypill----------	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
35---------- Hobcan	Slight---------	Slight---------	Slight---------	Slight---------	Slight---------	Slight.
36*, 37*:						
Hobog----------	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.
Grapevine--------	Slight---------	Slight---------	Slight---------	Moderate: slope.	Slight---------	Moderate: small stones, large stones, 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
38*:						
Hobog	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.
Tidwell family	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.
39 Hobog	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.
40 Ivanpatch	Slight	Slight	Slight	Slight	Slight	Slight.
41 Ives	Moderate: flooding.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: flooding.
42*:						
Katzine	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: droughty, 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: depth to rock.
Yumtheska	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.
43*:						
Meadview	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: droughty, slope.
Cave	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.
44 Meadview	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.	Severe: small stones, droughty.
45*:						
Mellenthin	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.
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: depth to rock.
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: 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
46*, 47*:						
Mellenthin	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Severe: small stones, depth to rock.
Strych	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight	Severe: small stones.
48*:						
Mellenthin	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.
Tanbark	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
49*:						
Mellethin	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.
Tanbark	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
50*:						
Mellenthin	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.
Tanbark	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
51*:						
Merwhitica	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.
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: depth to rock.
Strych	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
52*:						
Meriwhitica	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.
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: 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
52*:						
Strych	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
53*:						
Mespun	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight	Moderate: droughty.
Mespun	Severe: cutbanks cave.	Slight	Slight	Slight	Slight	Moderate: droughty.
54*:						
Moenkopie	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.
Goblin	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
55*:						
Moenkopie	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.
Pennell	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.
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: depth to rock.
56*:						
Nikey family	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: large stones, droughty, slope.
Ruesh family	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: 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: depth to rock.
57*:						
Nipton	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.
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: depth to rock.
Nickel family	Severe: slope.	Severe: slope.	Severe: 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
58*:						
Nutter	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.	Severe: small stones.
Gypsocket	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.	Severe: small stones, droughty.
59 Padilla	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Slight.
60*:						
Pocum	Severe: depth to rock, cemented pan.	Moderate: depth to rock, cemented pan.	Severe: depth to rock, cemented pan.	Moderate: slope, depth to rock, cemented pan.	Moderate: depth to rock, cemented pan.	Severe: cemented pan.
Childers	Severe: depth to rock, cemented pan.	Moderate: depth to rock, cemented pan.	Severe: depth to rock, cemented pan.	Moderate: slope, depth to rock, cemented pan.	Moderate: depth to rock, cemented pan.	Severe: small stones, large stones, cemented pan.
Ubank	Slight	Slight	Slight	Moderate: slope.	Slight	Moderate: small stones.
61*:						
Pocum	Severe: depth to rock, cemented pan.	Moderate: depth to rock, cemented pan.	Severe: depth to rock, cemented pan.	Moderate: slope, depth to rock, cemented pan.	Moderate: depth to rock, cemented pan.	Severe: cemented pan.
Spenlo	Slight	Moderate: shrink-swell.	Moderate: shrink-swell.	Moderate: shrink-swell.	Moderate: shrink-swell, low strength.	Slight.
62*:						
Pompeii family	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: small stones, cemented pan.
Huevi	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.	Severe: small stones, droughty.
63 Radnik	Moderate: flooding.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Moderate: flooding.
64*:						
Riverwash	Severe: depth to rock, wetness.	Severe: flooding, wetness, depth to rock.	Severe: flooding, wetness, depth to rock.	Severe: flooding, wetness, depth to rock.	Severe: depth to rock, wetness, flooding.	Severe: wetness, flooding, depth to rock.
Torrifluvents	Severe: depth to rock, wetness.	Severe: flooding, wetness.	Severe: flooding, wetness, depth to rock.	Severe: flooding, wetness.	Severe: wetness, flooding.	Severe: wetness.

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
65*:						
Rizno	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Severe: small stones, depth to rock.
Bond	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Severe: depth to rock.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Severe: depth to rock.
66 Robroost	Severe: cutbanks cave.	Slight	Slight	Slight	Slight	Slight.
67 Ruesh	Moderate: slope.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.	Severe: small stones.
68 Sedillo	Moderate: large stones.	Moderate: large stones.	Moderate: large stones.	Moderate: slope, large stones.	Moderate: frost action, large stones.	Severe: large stones.
69*:						
Showlow	Moderate: too clayey, slope.	Severe: shrink-swell.	Moderate: slope, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength.	Severe: large stones.
Thunderbird	Severe: depth to rock.	Severe: shrink-swell.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength.	Severe: large stones.
70 Showlow	Moderate: too clayey, slope.	Moderate: shrink-swell, slope.	Moderate: slope, shrink-swell.	Severe: slope.	Severe: low strength.	Severe: large stones.
71 Sponiker	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Slight.
72*:						
Springerville	Severe: cutbanks cave.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Severe: large stones.
Delenbaw	Moderate: too clayey, large stones, slope.	Severe: shrink-swell.	Moderate: slope, shrink-swell, large stones.	Severe: shrink-swell, slope.	Severe: shrink-swell, low strength.	Severe: large stones.
73 Strych	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight	Severe: small stones.
74*:						
Tanbark family	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: 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
74*:						
Strych family	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: 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: depth to rock.
75 Tanbark	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
76*:						
Tassi	Severe: depth to rock, cemented pan.	Moderate: slope, depth to rock, cemented pan.	Severe: depth to rock, cemented pan.	Severe: slope.	Moderate: depth to rock, cemented pan, slope.	Severe: small stones, cemented pan.
Rizno	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.
77 Tonopah	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight	Severe: droughty.
78*:						
Torriorthents	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, depth to rock.
Calciorthids	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: slope.	Severe: slope, 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: depth to rock.
79 Tours	Moderate: flooding.	Severe: flooding.	Severe: flooding.	Severe: flooding.	Severe: low strength, flooding.	Moderate: flooding.
80*:						
Tsezhin family	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, large stones, slope.
Ashfork family	Severe: depth to rock, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Severe: low strength, 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: 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
81---------- Tsezhin	Moderate: large stones, slope.	Moderate: slope, large stones.	Moderate: slope, large stones.	Severe: slope.	Moderate: slope, large stones.	Severe: large stones.
82---------- Twist	Slight---------	Slight---------	Slight---------	Moderate: slope.	Slight---------	Slight.
83---------- Twist	Slight---------	Slight---------	Slight---------	Moderate: slope.	Slight---------	Severe: large stones.
84*:						
Virgin Peak------	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.
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: depth to rock.
85---------- Whiskey	Slight---------	Slight---------	Slight---------	Slight---------	Slight---------	Slight.
86*, 87*:						
Winkel----------	Severe: depth to rock, cemented pan.	Severe: cemented pan.	Severe: depth to rock, cemented pan.	Severe: cemented pan.	Severe: cemented pan.	Severe: small stones, droughty.
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: depth to rock.
88, 89---------- Winkel	Severe: depth to rock, cemented pan.	Severe: cemented pan.	Severe: depth to rock, cemented pan.	Severe: slope, cemented pan.	Severe: cemented pan.	Severe: small stones, droughty.
90*:						
Wutoma----------	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
Lozinta----------	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, slope.
91*---------- Yellowhorse family	Severe: cutbanks cave, wetness.	Severe: flooding, shrink-swell.	Severe: flooding, wetness, shrink-swell.	Severe: flooding, shrink-swell.	Severe: shrink-swell, low strength, flooding.	Severe: too clayey.
92*:						
Yellowhorse------	Severe: depth to rock.	Severe: shrink-swell.	Severe: depth to rock, shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Moderate: small stones, large stones.
Luzena family----	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, low strength.	Severe: small stones, large 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
93*:						
Yumtheska	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Severe: small stones, depth to rock.
Katzine	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small 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: depth to rock.
94*:						
Yumtheska	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.
Katzine	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, 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: depth to rock.
95*:						
Yumtheska	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.
Natank	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: small stones, slope.
96*, 97*:						
Yurm family	Severe: cemented pan, slope.	Severe: slope, cemented pan.	Severe: cemented pan, slope.	Severe: slope, cemented pan.	Severe: cemented pan, slope.	Severe: large stones, slope, cemented pan.
Meadview	Severe: cutbanks cave, slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: small stones, droughty, slope.
98*, 99* Yurm family	Severe: cemented pan, slope.	Severe: slope, cemented pan.	Severe: cemented pan, slope.	Severe: slope, cemented pan.	Severe: cemented pan, slope.	Severe: small stones, slope, cemented pan.

* 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
1*:					
Akinville	Moderate: depth to rock, percs slowly, slope.	Severe: seepage, slope.	Severe: seepage.	Severe: seepage.	Poor: small stones.
Mokaac	Severe: percs slowly, poor filter.	Severe: seepage, slope.	Severe: depth to rock.	Moderate: slope.	Fair: slope.
2 Albers	Severe: percs slowly.	Slight	Severe: depth to rock.	Slight	Poor: hard to pack.
3* Arada family	Severe: poor filter.	Severe: seepage.	Severe: depth to rock.	Slight	Fair: too sandy, thin layer.
4* Arizo	Severe: poor filter.	Severe: seepage.	Severe: depth to rock.	Slight	Poor: seepage, small stones.
5* Arizo	Severe: flooding, poor filter.	Severe: seepage, flooding.	Severe: flooding, depth to rock.	Severe: flooding.	Poor: seepage, small stones.
6* 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.
7*:					
Bard family	Severe: cemented pan.	Severe: seepage, cemented pan.	Severe: depth to rock, cemented pan.	Slight	Poor: cemented pan.
Tonopah	Severe: poor filter.	Severe: seepage.	Severe: depth to rock.	Slight	Poor: seepage, small stones.
Arada family	Severe: poor filter.	Severe: seepage.	Severe: depth to rock.	Slight	Fair: too sandy, thin layer.
8 Barx	Severe: percs slowly.	Severe: seepage.	Severe: depth to rock.	Slight	Good.
9*:					
Barx	Moderate: depth to rock, percs slowly.	Severe: seepage.	Severe: depth to rock.	Slight	Good.
Strych	Moderate: depth to rock, percs slowly.	Severe: seepage.	Severe: depth to rock.	Slight	Poor: seepage, 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
10*:					
Berzatic family	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, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
Goblin	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
11*:					
Bisoodi	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Poor: depth to rock.
Anasazi family	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Poor: depth to rock.
12*:					
Blind family	Moderate: depth to rock, percs slowly, slope.	Severe: seepage, slope.	Severe: depth to rock.	Moderate: slope.	Poor: small stones.
Shelley	Severe: poor filter.	Severe: seepage, slope.	Severe: too sandy.	Moderate: slope.	Poor: seepage, too sandy, small stones.
13*:					
Blind family	Moderate: depth to rock, percs slowly, slope.	Severe: seepage, slope, large stones.	Severe: depth to rock, large stones.	Moderate: slope.	Poor: small stones.
Shelley	Severe: poor filter.	Severe: seepage, slope.	Severe: depth to rock, too sandy.	Moderate: slope.	Poor: seepage, too sandy, small stones.
14*:					
Boquillas family	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, hard to pack, slope.
Showlow	Severe: percs slowly, slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: large stones, slope.
15*:					
Carrizo	Severe: flooding, poor filter.	Severe: seepage, flooding.	Severe: flooding, depth to rock, too sandy.	Severe: flooding.	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
15*:					
Carrizo	Severe: flooding, poor filter.	Severe: seepage, flooding.	Severe: flooding, depth to rock, too sandy.	Severe: flooding.	Poor: seepage, too sandy, small stones.
16*:					
Cave	Severe: cemented pan.	Severe: cemented pan.	Severe: depth to rock, cemented pan.	Slight	Poor: cemented pan.
Harrisburg	Severe: cemented pan.	Severe: seepage, cemented pan, slope.	Severe: depth to rock, cemented pan.	Moderate: slope.	Poor: cemented pan.
Grapevine	Moderate: depth to rock, percs slowly, slope.	Severe: slope.	Severe: depth to rock.	Moderate: slope.	Fair: slope.
17*:					
Chic	Severe: poor filter, slope.	Severe: seepage, slope.	Severe: depth to rock, slope, too acid.	Severe: slope.	Poor: seepage, small stones, slope.
Teesto	Severe: depth to rock.	Severe: depth to rock, slope, large stones.	Severe: depth to rock, large stones.	Moderate: slope.	Poor: depth to rock.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
18*:					
Childers	Severe: depth to rock, cemented pan.	Severe: depth to rock, cemented pan, slope.	Severe: depth to rock.	Moderate: slope.	Poor: depth to rock, small stones.
Rizno	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Moderate: slope.	Poor: depth to rock.
19 Dera	Moderate: depth to rock, percs slowly.	Severe: seepage.	Severe: depth to rock.	Slight	Poor: small stones.
20*:					
Dermala family	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, large stones, slope.
Guy family	Severe: depth to rock, slope.	Severe: 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
20*:					
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
21*:					
Disterheff	Severe: percs slowly.	Moderate: slope.	Severe: depth to rock.	Slight	Fair: too clayey, small stones.
Natank	Severe: depth to rock, percs slowly.	Severe: depth to rock.	Severe: depth to rock.	Slight	Poor: depth to rock, small stones.
Yumtheska	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, small stones.
22*:					
Dutchman	Moderate: depth to rock, percs slowly.	Severe: seepage.	Severe: depth to rock.	Slight	Good.
McCullan	Moderate: depth to rock.	Severe: seepage.	Severe: depth to rock.	Severe: seepage.	Good.
23 Goblin	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
24*:					
Goblin	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Slight	Poor: depth to rock.
Gyppocket	Moderate: depth to rock, large stones.	Severe: seepage, large stones.	Severe: depth to rock, large stones.	Slight	Poor: seepage, small stones.
25 Goesling	Severe: percs slowly.	Moderate: slope.	Severe: depth to rock.	Slight	Good.
26*:					
Grapevine	Moderate: depth to rock, percs slowly.	Moderate: seepage, slope.	Severe: depth to rock.	Slight	Good.
Hobcan	Moderate: flooding, depth to rock, percs slowly.	Moderate: seepage, slope.	Severe: depth to rock.	Moderate: flooding.	Good.
27*:					
Grapevine	Moderate: depth to rock, percs slowly.	Moderate: seepage, slope.	Severe: depth to rock.	Slight	Good.
Shelley	Slight	Severe: seepage.	Moderate: too sandy.	Slight	Poor: seepage, 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
28*:					
Gypill	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, 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.
29 Gypill	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
30*:					
Gypill	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Hobog	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, seepage, small stones.
31 Gypill	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
32*:					
Gypisorthids	Severe: slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: slope.
Gypisorthids, shallow	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
33 Havasupai	Severe: cemented pan.	Severe: seepage, cemented pan.	Severe: depth to rock.	Slight	Poor: cemented pan, seepage, small stones.
34*:					
Hindu	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
Gypill	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
35 Hobcan	Moderate: depth to rock, percs slowly.	Moderate: seepage, slope.	Severe: depth to rock.	Slight	Good.

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
36*, 37*:					
Hobog	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, seepage, small stones.
Grapevine	Moderate: depth to rock, percs slowly.	Moderate: seepage, slope.	Severe: depth to rock.	Slight	Good.
38*:					
Hobog	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, seepage, small stones.
Tidwell family	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
39 Hobog	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, seepage, small stones.
40 Ivanpatch	Moderate: depth to rock, percs slowly.	Moderate: seepage, slope.	Severe: depth to rock.	Slight	Good.
41 Ives	Severe: flooding.	Severe: flooding.	Severe: flooding, depth to rock.	Severe: flooding.	Good.
42*:					
Katzine	Severe: slope.	Severe: seepage, slope, large stones.	Severe: depth to rock, seepage, slope.	Severe: seepage, slope.	Poor: small stones, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
Yumtheska	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.
43*:					
Meadview	Severe: slope.	Severe: seepage, slope, large stones.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: small stones, slope.
Cave	Severe: cemented pan.	Severe: cemented pan.	Severe: depth to rock, cemented pan.	Slight	Poor: cemented pan.

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
44---------- Meadview	Moderate: depth to rock, percs slowly, slope.	Severe: seepage, slope.	Severe: depth to rock.	Moderate: slope.	Poor: seepage, small stones.
45*:					
Mellenthin---------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
Rock outcrop-------	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
Torriorthents------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
46*, 47*:					
Mellenthin---------	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Moderate: slope.	Poor: depth to rock, small stones.
Strych----------	Moderate: depth to rock, percs slowly.	Severe: seepage, slope.	Severe: depth to rock.	Slight----------	Poor: seepage, small stones.
48*:					
Mellenthin---------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
Tanbark----------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
49*:					
Mellethin----------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
Tanbark----------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
50*:					
Mellenthin---------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, small stones, slope.
Tanbark----------	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
51*:					
Merwhitica	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
Strych	Severe: slope.	Severe: seepage, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: seepage, small stones, slope.
52*:					
Meriwhitica	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
Strych	Severe: slope.	Severe: seepage, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: seepage, small stones, slope.
53*:					
Mespun	Severe: poor filter.	Severe: seepage.	Severe: depth to rock.	Slight	Poor: thin layer.
Mespun	Severe: poor filter.	Severe: seepage.	Severe: depth to rock.	Slight	Poor: thin layer.
54*:					
Moenkopie	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Goblin	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
55*:					
Moenkopie	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Pennell	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	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
56*:					
Nikey family	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.
Ruesh family	Severe: depth to rock, poor filter, 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.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
57*:					
Nipton	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
Nickel family	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.
58*:					
Nutter	Moderate: slope.	Severe: seepage, slope.	Moderate: slope.	Moderate: slope.	Poor: seepage, small stones.
Gyppocket	Severe: poor filter.	Severe: seepage, slope.	Severe: depth to rock.	Moderate: slope.	Poor: seepage, small stones.
59 Padilla	Severe: percs slowly.	Moderate: slope.	Severe: depth to rock.	Slight	Poor: hard to pack.
60*:					
Pocum	Severe: depth to rock, cemented pan.	Severe: seepage, depth to rock, cemented pan.	Severe: depth to rock.	Slight	Poor: depth to rock.
Childers	Severe: depth to rock, cemented pan.	Severe: depth to rock, cemented pan, slope.	Severe: depth to rock, large stones.	Slight	Poor: depth to rock, small stones.
Ubank	Moderate: depth to rock, percs slowly.	Moderate: seepage, slope.	Severe: depth to rock.	Slight	Fair: small stones.
61*:					
Pocum	Severe: depth to rock, cemented pan.	Severe: seepage, depth to rock, cemented pan.	Severe: depth to rock.	Slight	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
61*:					
Spenlo	Severe: percs slowly.	Moderate: slope.	Severe: depth to rock.	Slight	Good.
62*:					
Pompeii family	Severe: cemented pan.	Severe: cemented pan.	Severe: depth to rock, cemented pan.	Slight	Poor: cemented pan.
Huevi	Severe: poor filter.	Severe: seepage, slope.	Severe: depth to rock.	Moderate: slope.	Poor: seepage, small stones.
63 Radnik	Severe: flooding.	Severe: flooding.	Severe: flooding, depth to rock.	Severe: flooding.	Good.
64*:					
Riverwash	Severe: flooding, depth to rock, wetness.	Severe: depth to rock, flooding, wetness.	Severe: flooding, depth to rock, wetness.	Severe: flooding, depth to rock, wetness.	Poor: depth to rock, wetness.
Torrifluvents	Severe: flooding, depth to rock, wetness.	Severe: depth to rock, flooding, wetness.	Severe: flooding, depth to rock, wetness.	Severe: flooding, wetness.	Poor: depth to rock, wetness.
65*:					
Rizno	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Moderate: slope.	Poor: depth to rock.
Bond	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Moderate: slope.	Poor: depth to rock.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock.
66 Robroost	Moderate: depth to rock, percs slowly.	Severe: seepage.	Severe: depth to rock.	Slight	Fair: thin layer.
67 Ruesh	Moderate: depth to rock, slope.	Severe: seepage, slope.	Severe: depth to rock.	Moderate: slope.	Poor: large stones.
68 Sedillo	Severe: percs slowly.	Severe: large stones.	Severe: depth to rock, large stones.	Slight	Poor: small stones.
69*:					
Showlow	Severe: percs slowly.	Severe: slope.	Severe: depth to rock.	Moderate: slope.	Poor: large stones.
Thunderbird	Severe: depth to rock, percs slowly.	Severe: depth to rock, slope.	Severe: depth to rock.	Moderate: slope.	Poor: depth to rock, 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
70---------- Showlow	Severe: percs slowly.	Severe: slope.	Severe: depth to rock.	Moderate: slope.	Fair: small stones, slope.
71---------- Sponiker	Severe: percs slowly.	Moderate: slope, large stones.	Severe: depth to rock, too clayey.	Slight----------	Poor: too clayey, hard to pack, small stones.
72*:					
Springerville------	Severe: percs slowly.	Moderate: depth to rock, slope.	Severe: depth to rock.	Slight----------	Poor: hard to pack.
Delenbaw----------	Severe: percs slowly.	Severe: slope, large stones.	Severe: depth to rock, large stones.	Moderate: slope.	Poor: small stones.
73---------- Strych	Moderate: depth to rock, percs slowly.	Severe: seepage.	Severe: depth to rock.	Slight----------	Poor: seepage, small stones.
74*:					
Tanbark family-----	Severe: depth to rock, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Strych family------	Severe: depth to rock, percs slowly, slope.	Severe: seepage, depth to rock, slope.	Severe: depth to rock, slope, large stones.	Severe: slope.	Poor: depth to rock, small stones, slope.
Rock outcrop-------	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
75---------- Tanbark	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
76*:					
Tassi----------	Severe: depth to rock, cemented pan.	Severe: depth to rock, cemented pan, slope.	Severe: depth to rock.	Moderate: slope.	Poor: depth to rock.
Rizno----------	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
77---------- Tonopah	Severe: poor filter.	Severe: seepage.	Severe: depth to rock.	Slight----------	Poor: seepage, small stones.
78*:					
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
78*:					
Calciorthids	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
79 Tours	Severe: flooding, percs slowly.	Severe: flooding.	Severe: flooding, depth to rock.	Severe: flooding.	Good.
80*:					
Tsezhin family	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, small stones, slope.
Ashfork family	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, hard to pack, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
81 Tsezhin	Severe: percs slowly.	Severe: seepage, slope, large stones.	Severe: depth to rock, large stones.	Moderate: slope.	Poor: small stones.
82 Twist	Severe: percs slowly.	Severe: seepage.	Severe: depth to rock.	Slight	Fair: thin layer.
83 Twist	Severe: percs slowly.	Moderate: seepage, slope.	Severe: depth to rock.	Slight	Fair: large stones.
84*:					
Virgin Peak	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: depth to rock, seepage, slope.	Severe: depth to rock, slope.	Poor: depth to rock, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
85 Whish ey	Moderate: depth to rock, percs slowly.	Moderate: seepage, slope.	Severe: depth to rock.	Slight	Good.
86*, 87*:					
Winkel	Severe: depth to rock, cemented pan.	Severe: depth to rock, cemented pan, slope.	Severe: depth to rock, cemented pan.	Slight	Poor: depth to rock, large 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
86*, 87*:					
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
88, 89 Winkel	Severe: depth to rock, cemented pan.	Severe: depth to rock, cemented pan, slope.	Severe: depth to rock, cemented pan.	Moderate: slope.	Poor: depth to rock, large stones.
90*:					
Wutoma	Severe: slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: small stones, slope.
Lozinta	Severe: slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: small stones, slope.
91* Yellowhorse family	Severe: flooding, wetness, percs slowly.	Severe: flooding.	Severe: flooding, depth to rock, wetness.	Severe: flooding, wetness.	Poor: too clayey, hard to pack.
92*:					
Yellowhorse	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.
Luzena family	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock, too clayey.	Severe: depth to rock.	Poor: depth to rock, too clayey, hard to pack.
93*:					
Yumtheska	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, small stones.
Katzine	Severe: slope.	Severe: slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: small stones, slope.
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
94*:					
Yumtheska	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.
Katzine	Severe: slope.	Severe: seepage, slope, large stones.	Severe: depth to rock, 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
94*:					
Rock outcrop	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Severe: depth to rock.	Poor: depth to rock, slope.
95*:					
Yumtheska	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.
Natank	Severe: depth to rock, percs slowly, slope.	Severe: depth to rock, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: depth to rock, hard to pack, slope.
96*, 97*:					
Yurm family	Severe: cemented pan, slope.	Severe: cemented pan, slope, large stones.	Severe: depth to rock, cemented pan, slope.	Severe: slope.	Poor: cemented pan, small stones, slope.
Meadview	Severe: slope.	Severe: seepage, slope.	Severe: depth to rock, slope.	Severe: slope.	Poor: seepage, small stones, slope.
98*, 99* Yurm family	Severe: cemented pan, slope.	Severe: cemented pan, slope.	Severe: depth to rock, cemented pan, slope.	Severe: slope.	Poor: cemented pan, small stones, 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
1*:				
Akinville	Good	Probable	Probable	Poor: small stones, area reclaim.
Mokaac	Fair: shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: too sandy, small stones.
2 Albers	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
3* Arada family	Good	Probable	Probable	Fair: too sandy, small stones, area reclaim.
4*, 5* Arizo	Good	Probable	Probable	Poor: small stones, area reclaim.
6* Badland	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
7*:				
Bard family	Poor: cemented pan.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
Tonopah	Good	Probable	Probable	Poor: small stones, area reclaim.
Arada family	Good	Probable	Probable	Fair: too sandy, small stones, area reclaim.
8 Barx	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones.
9*:				
Barx	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: small stones, area reclaim.
Strych	Good	Probable	Probable	Poor: small stones, area reclaim.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
10*:				
Berzatic family	Poor: depth to rock, large stones, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
Goblin	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
11*:				
Bisoodi	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
Anasazi family	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Fair: depth to rock, small stones, thin layer.
12*:				
Blind family	Good	Probable	Probable	Poor: small stones, area reclaim.
Shelley	Good	Probable	Probable	Poor: too sandy, small stones, area reclaim.
13*:				
Blind family	Fair: large stones.	Probable	Probable	Poor: small stones, area reclaim.
Shelley	Fair: large stones.	Probable	Improbable: thin layer.	Poor: small stones, area reclaim.
14*:				
Boquillas family	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
Showlow	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
15*:				
Carrizo	Good	Probable	Probable	Poor: too sandy, small stones, area reclaim.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
15*:				
Carrizo	Good	Probable	Probable	Poor: too sandy, small stones, area reclaim.
16*:				
Cave	Poor: cemented pan.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
Harrisburg	Poor: cemented pan.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
Grapevine	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
17*:				
Chic	Fair: slope.	Improbable: small stones.	Probable	Poor: small stones, area reclaim, slope.
Teesto	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
Rock outcrop	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
18*:				
Childers	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
Rizno	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
19 Dera	Good	Probable	Probable	Poor: small stones, area reclaim.
20*:				
Dermala family	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones, slope.
Guy family	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
21*:				
Disterheff	Fair: shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones.
Natank	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones.
Yumtheska	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
22*:				
Dutchman	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: small stones.
McCullan	Fair: shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
23 Goblin	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
24*:				
Goblin	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock.
Gyppocket	Fair: large stones.	Probable	Probable	Poor: small stones, area reclaim.
25 Goesling	Poor: low strength.	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones.
26*:				
Grapevine	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
Hobcan	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: small stones.
27*:				
Grapevine	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
Shelley	Good	Probable	Probable	Poor: small stones, area reclaim.
28*:				
Gypill	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
Badland	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
29 Gypill	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
30*:				
Gypill	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
Hobog	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones, slope.
31 Gypill	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, large stones, slope.
32*:				
Gypisorthids	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: slope.
Gypisorthids, shallow	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
33 Havasupai	Good	Probable	Probable	Poor: cemented pan, small stones, area reclaim.
34*:				
Hindu	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.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
Gypill	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
35 Hobcan	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: small stones.
36*, 37*:				
Hobog	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones, slope.
Grapevine	Good	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
38*:				
Hobog	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones, slope.
Tidwell family	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
39 Hobog	Poor: depth to rock.	Improbable: thin layer.	Improbable: thin layer.	Poor: depth to rock, small stones, slope.
40 Ivanpatch	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: small stones.
41 Ives	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: small stones.
42*:				
Katzine	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
Yumtheska	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
43*:				
Meadview	Fair: large stones, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Cave	Poor: cemented pan.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
44 Meadview	Good	Probable	Probable	Poor: small stones, area reclaim.
45*:				
Mellenthin	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
45*:				
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
Torriorthents	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
46*, 47*:				
Mellenthin	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
Strych	Good	Probable	Probable	Poor: small stones, area reclaim.
48*:				
Mellenthin	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Tanbark	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
49*:				
Mellethin	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Tanbark	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
50*:				
Mellenthin	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Tanbark	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
51*:				
Merwhitica	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.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
51*:				
Strych	Poor: slope.	Probable	Probable	Poor: small stones, area reclaim, slope.
52*:				
Meriwhitica	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.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
Strych	Poor: slope.	Probable	Probable	Poor: small stones, area reclaim, slope.
53*:				
Mespun	Good	Probable	Probable	Fair: too sandy, thin layer.
Mespun	Good	Probable	Probable	Fair: too sandy, thin layer.
54*:				
Moenkopie	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Goblin	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
55*:				
Moenkopie	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Pennell	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
56*:				
Nikey family	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Ruesh family	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: large stones, slope.
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.]
57*:				
Nipton	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.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
Nickel family	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
58*:				
Nutter	Good	Probable	Probable	Poor: small stones, area reclaim.
Gyppocket	Good	Probable	Probable	Poor: small stones, area reclaim.
59 Padilla	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
60*:				
Pocum	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
Childers	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
Ubank	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones.
61*:				
Pocum	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
61*:				
Spenlo	Fair: shrink-swell.	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones.
62*:				
Pompeii family	Poor: cemented pan.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
Huevi	Good	Improbable: small stones.	Probable	Poor: small stones, area reclaim.
63 Radnik	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: small stones.
64*:				
Riverwash	Poor: depth to rock, wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, wetness.
Torrifluvents	Poor: depth to rock, wetness.	Improbable: excess fines.	Improbable: excess fines.	Poor: thin layer, wetness.
65*:				
Rizno	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
Bond	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock.
Rock outcrop	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim.
66 Robroost	Good	Probable	Probable	Fair: small stones, area reclaim.
67 Ruesh	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim.
68 Sedillo	Fair: large stones.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim.
69*:				
Showlow	Fair: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
Thunderbird	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
70 Showlow	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
71 Sponiker	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, area reclaim.
72*:				
Springerville	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
Delenbaw	Fair: shrink-swell, large stones.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, large stones, area reclaim.
73 Strych	Good	Probable	Probable	Poor: small stones, area reclaim.
74*:				
Tanbark family	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Strych family	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
75 Tanbark	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
76*:				
Tassi	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
Rizno	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
77 Tonopah	Good	Probable	Probable	Poor: small stones, area reclaim.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
78*:				
Torriorthents	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
Calciorthids	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, slope.
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
79 Tours	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey.
80*:				
Tsezhin family	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Ashfork family	Poor: depth to rock, low strength, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, area reclaim, slope.
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
81 Tsezhin	Fair: large stones.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim.
82 Twist	Fair: thin layer.	Improbable: excess fines.	Improbable: excess fines.	Fair: too clayey, small stones.
83 Twist	Good	Improbable: excess fines.	Improbable: excess fines.	Poor: area reclaim, small stones.
84*:				
Virgin Peak	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.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
85 Whiskey	Good	Improbable: excess fines.	Improbable: excess fines.	Fair: small stones.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
86*, 87*:				
Winkel	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
Rock outcrop	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
88, 89 Winkel	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones.
90*:				
Wutoma	Poor: thin layer, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
Lozinta	Poor: thin layer, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, slope.
91* Yellowhorse family	Poor: shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
92*:				
Yellowhorse	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey.
Luzena family	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, too clayey, small stones.
93*:				
Yumtheska	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones.
Katzine	Fair: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Rock outcrop	Poor: depth to rock.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
94*:				
Yumtheska	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.

See footnote at end of table.

Table 12.--Construction Materials--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
94*:				
Katzine	Poor: slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: small stones, area reclaim, slope.
Rock outcrop	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, area reclaim, slope.
95*:				
Yumtheska	Poor: depth to rock, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: depth to rock, small stones, slope.
Natank	Poor: depth to rock, shrink-swell, low strength.	Improbable: excess fines.	Improbable: excess fines.	Poor: too clayey, small stones, slope.
96*, 97*:				
Yurm family	Poor: cemented pan.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones, slope.
Meadview	Poor: slope.	Probable	Probable	Poor: small stones, area reclaim, slope.
98*, 99* Yurm family	Poor: cemented pan, slope.	Improbable: excess fines.	Improbable: excess fines.	Poor: cemented pan, small stones, 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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
1*:							
Akinville	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope	Slope, droughty.
Mokaac	Severe: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Slope	Too arid, slope, droughty.
2 Albers	Slight	Moderate: hard to pack.	Severe: no water.	Deep to water	Slow intake, percs slowly.	Percs slowly	Too arid, percs slowly.
3* Arada family	Severe: seepage.	Severe: seepage, piping.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Too sandy, soil blowing.	Too arid, droughty.
4* Arizo	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Too sandy	Too arid, droughty.
5* Arizo	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, flooding.	Too sandy	Too arid, droughty.
6* Badland	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, depth to rock, excess salt.	Slope, depth to rock.	Slope, excess salt, depth to rock.
7*:							
Bard family	Severe: cemented pan.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Cemented pan, soil blowing.	Too arid, droughty, cemented pan.
Tonopah	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Too sandy, soil blowing.	Too arid, droughty.
Arada family	Severe: seepage.	Severe: seepage, piping.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Too sandy, soil blowing.	Too arid, 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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
8---------- Barx	Severe: seepage.	Moderate: piping.	Severe: no water.	Deep to water	Slope, soil blowing.	Soil blowing---	Too arid.
9*:							
Barx----------	Severe: seepage.	Severe: piping.	Severe: no water.	Deep to water	Slope---------	Favorable------	Too arid.
Strych----------	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Favorable------	Too arid, droughty.
10*:							
Berzatic family--	Severe: depth to rock, slope.	Severe: large stones.	Severe: no water.	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.	Slight---------	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
Goblin----------	Severe: depth to rock, slope, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope, depth to rock.
11*:							
Bisoodi----------	Severe: depth to rock.	Severe: piping.	Severe: no water.	Deep to water	Slope, depth to rock.	Depth to rock	Too arid, depth to rock.
Anasazi family---	Moderate: seepage, depth to rock, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Depth to rock, soil blowing.	Too arid, depth to rock.
12*:							
Blind family-----	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope, large stones.	Too arid, large stones, slope.
Shelley----------	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Slope, too sandy.	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
13*:							
Blind family	Severe: seepage, slope.	Severe: seepage, large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Too arid, large stones, slope.
Shelley	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones, too sandy.	Too arid, large stones, slope.
14*:							
Boquillas family	Severe: slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, percs slowly.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Showlow	Severe: slope.	Slight	Severe: no water.	Deep to water	Slope, percs slowly.	Slope, percs slowly.	Too arid, slope, percs slowly.
15*:							
Carrizo	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Large stones, too sandy.	Too arid, large stones, droughty.
15*:							
Carrizo	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Large stones, too sandy.	Too arid, large stones, droughty.
16*:							
Cave	Severe: cemented pan.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, cemented pan.	Cemented pan	Too arid, droughty.
Harrisburg	Severe: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, cemented pan.	Slope, cemented pan.	Too arid, slope, cemented pan.
Grapevine	Severe: slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, droughty, soil blowing.	Slope, soil blowing.	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
17*:							
Chic	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, too acid.	Slope	Too arid, slope, droughty.
Teesto	Severe: depth to rock, slope.	Severe: large stones.	Severe: no water.	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.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
18*:							
Childers	Severe: cemented pan, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock, cemented pan.	Too arid, slope, droughty.
Rizno	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
19 Dera	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Favorable	Too arid, droughty.
20*:							
Dermala family	Severe: slope.	Moderate: piping, large stones.	Severe: no water.	Deep to water	Slope, large stones, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Guy family	Severe: slope, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
21*:							
Disterheff	Moderate: slope.	Slight	Severe: no water.	Deep to water	Slope, percs slowly.	Favorable	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
21*:							
Natank	Moderate: seepage, depth to rock, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, percs slowly, depth to rock.	Depth to rock	Too arid, depth to rock.
Yumtheska	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
22*:							
Dutchman	Severe: seepage.	Severe: piping.	Severe: no water.	Deep to water	Slope, droughty, soil blowing.	Soil blowing	Too arid, droughty.
McCullan	Severe: seepage.	Moderate: seepage, piping.	Severe: no water.	Deep to water	Slope	Favorable	Favorable.
23 Goblin	Severe: depth to rock, slope, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope, depth to rock.
24*:							
Goblin	Severe: depth to rock, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Depth to rock, soil blowing.	Too arid, depth to rock.
Gyppocket	Severe: seepage.	Severe: seepage, large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Large stones	Too arid, large stones.
25 Goesling	Moderate: slope.	Moderate: piping.	Severe: no water.	Deep to water	Slope, erodes easily.	Erodes easily	Too arid, erodes easily.
26*:							
Grapevine	Moderate: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, droughty, soil blowing.	Soil blowing	Too arid, 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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
26*:							
Hobcan	Moderate: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, soil blowing, erodes easily.	Erodes easily, soil blowing.	Too arid, erodes easily.
27*:							
Grapevine	Moderate: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, droughty, soil blowing.	Soil blowing	Too arid, droughty.
Shelley	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Too sandy	Too arid, droughty.
28*:							
Gypill	Severe: depth to rock, slope, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope, depth to rock.
Badland	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, depth to rock, excess salt.	Slope, depth to rock.	Slope, excess salt, depth to rock.
29 Gypill	Severe: depth to rock, slope, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope, depth to rock.
30*:							
Gypill	Severe: depth to rock, slope, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope, depth to rock.
Hobog	Severe: depth to rock, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
31 Gypill	Severe: depth to rock, slope, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
32*:							
Gypisorthids	Severe: slope.	Slight	Severe: no water.	Deep to water	Slope	Slope	Too arid, slope.
Gypisorthids, shallow	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
33 Havasupai	Severe: seepage, cemented pan.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, cemented pan.	Cemented pan	Too arid, droughty, cemented pan.
34*:							
Hindu	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
Gypill	Severe: depth to rock, slope, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope, depth to rock.
35 Hobcan	Moderate: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, soil blowing.	Soil blowing	Too arid.
36*, 37*:							
Hobog	Severe: depth to rock, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Grapevine	Moderate: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, droughty, soil blowing.	Soil blowing	Too arid, droughty.
38*:							
Hobog	Severe: depth to rock, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
38*:							
Tidwell family	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
39 Hobog	Severe: depth to rock, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
40 Ivanpatch	Moderate: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, soil blowing.	Soil blowing	Too arid.
41 Ives	Mcderate: seepage.	Severe: piping.	Severe: no water.	Deep to water	Erodes easily, flooding.	Erodes easily	Too arid, erodes easily.
42*:							
Katzine	Severe: seepage, slope.	Severe: seepage, large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Large stones, slope, droughty.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
Yumtheska	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
43*:							
Meadview	Severe: slope.	Severe: seepage, large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Too arid, large stones, slope.
Cave	Severe: cemented pan.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, cemented pan.	Large stones, cemented pan.	Too arid, large stones.
44 Meadview	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
45*:							
Mellenthin	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
Torriorthents	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
46*, 47*:							
Mellenthin	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Strych	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Favorable	Too arid, droughty.
48*:							
Mellenthin	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Tanbark	Severe: depth to rock, slope, seepage.	Severe: piping.	Severe: no water.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
49*:							
Mellethin	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Tanbark	Severe: depth to rock, slope, seepage.	Severe: piping.	Severe: no water.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
50*:							
Mellenthin	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
50*:							
Tanbark----------	Severe: depth to rock, slope, seepage.	Severe: piping.	Severe: no water.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
51*:							
Merwhitica-------	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Rock outcrop-----	Severe: depth to rock, slope.	Slight---------	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
Strych----------	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope----------	Too arid, slope, droughty.
52*:							
Meriwhitica------	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Rock outcrop-----	Severe: depth to rock, slope.	Slight---------	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
Strych----------	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope----------	Too arid, slope, droughty.
53*:							
Mespun----------	Severe: seepage.	Severe: seepage, piping.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Soil blowing---	Too arid, droughty.
Mespun----------	Severe: seepage.	Severe: seepage, piping.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Soil blowing---	Too arid, droughty.
54*:							
Moenkopie--------	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, 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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
54*:							
Goblin	Severe: depth to rock, slope, seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope, depth to rock.
55*:							
Moenkopie	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope, depth to rock.
Pennell	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
56*:							
Nikey family	Severe: seepage, slope.	Moderate: thin layer, large stones.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Ruesh family	Severe: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
57*:							
Nipton	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
Nickel family	Severe: seepage, slope.	Moderate: thin layer, large stones.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
58*:							
Nutter	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope	Too arid, slope, droughty.
Gyppocket	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope, too sandy.	Too arid, slope, droughty.
59 Padilla	Moderate: slope.	Moderate: hard to pack.	Severe: no water.	Deep to water	Slope, percs slowly, erodes easily.	Erodes easily, percs slowly.	Too arid, erodes easily, percs slowly.
60*:							
Pocum	Severe: seepage, cemented pan.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Depth to rock, cemented pan.	Too arid, droughty.
Childers	Severe: cemented pan.	Severe: large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Too arid, large stones.
Ubank	Moderate: seepage, slope.	Slight	Severe: no water.	Deep to water	Slope, soil blowing.	Soil blowing	Too arid.
61*:							
Pocum	Severe: seepage, cemented pan.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Depth to rock, cemented pan.	Too arid, droughty.
Spenlo	Slight	Moderate: piping.	Severe: no water.	Deep to water	Erodes easily	Erodes easily	Too arid, erodes easily.
62*:							
Pompeii family	Severe: cemented pan.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, cemented pan.	Cemented pan	Too arid, droughty, cemented pan.
Huevi	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
63 Radnik	Moderate: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope, flooding.	Favorable	Too arid.
64*:							
Riverwash	Severe: depth to rock.	Severe: thin layer, wetness.	Severe: depth to rock.	Depth to rock, flooding.	Wetness, depth to rock, flooding.	Depth to rock, wetness.	Wetness, depth to rock.
Torrifluvents	Moderate: depth to rock.	Severe: thin layer, wetness.	Severe: depth to rock.	Depth to rock, flooding.	Wetness, depth to rock, flooding.	Depth to rock, wetness.	Too arid, wetness, depth to rock.
65*:							
Rizno	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Bond	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, soil blowing, depth to rock.	Slope, depth to rock, soil blowing.	Too arid, slope, depth to rock.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
66 Robroost	Severe: seepage.	Moderate: thin layer.	Severe: no water.	Deep to water	Soil blowing	Soil blowing	Too arid.
67 Ruesh	Severe: seepage, slope.	Moderate: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope	Too arid, slope, droughty.
68 Sedillo	Moderate: seepage, slope.	Severe: large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Large stones	Too arid, large stones, droughty.
69*:							
Showlow	Severe: slope.	Slight	Severe: no water.	Deep to water	Slope, percs slowly.	Slope, percs slowly.	Too arid, slope, percs slowly.
Thunderbird	Severe: slope.	Moderate: thin layer, hard to pack.	Severe: no water.	Deep to water	Slope, percs slowly, depth to rock.	Slope, depth to rock, percs slowly.	Too arid, 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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
70 Showlow	Severe: slope.	Slight	Severe: no water.	Deep to water	Slope, percs slowly.	Slope, percs slowly.	Too arid, slope, percs slowly.
71 Sponiker	Moderate: slope.	Severe: hard to pack.	Severe: no water.	Deep to water	Slope, percs slowly.	Large stones, percs slowly.	Large stones, percs slowly.
72*:							
Springerville	Moderate: depth to rock, slope.	Moderate: thin layer, hard to pack.	Severe: no water.	Deep to water	Slope, percs slowly.	Percs slowly	Too arid, percs slowly.
Delenbaw	Severe: slope.	Severe: large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones, percs slowly.	Too arid, large stones, slope.
73 Strych	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Favorable	Too arid, droughty.
74*:							
Tanbark family	Severe: depth to rock, slope, seepage.	Severe: piping.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
Strych family	Severe: slope, seepage.	Severe: large stones.	Severe: no water.	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.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
75 Tanbark	Severe: depth to rock, slope, seepage.	Severe: piping.	Severe: no water.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
76*:							
Tassi	Severe: cemented pan, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, depth to rock, cemented pan.	Slope, depth to rock, cemented pan.	Too arid, 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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
76*:							
Rizno	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Too arid, slope, droughty.
77 Tonopah	Severe: seepage.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty, fast intake.	Too sandy, soil blowing.	Too arid, droughty.
78*:							
Torriorthents	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
Calciorthids	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, depth to rock.	Slope, depth to rock.	Too arid, slope, depth to rock.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
79 Tours	Slight	Moderate: thin layer, piping.	Severe: no water.	Deep to water	Erodes easily, flooding.	Erodes easily	Too arid, erodes easily.
80*:							
Tsezhin family	Severe: slope, seepage.	Severe: large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
Ashfork family	Severe: slope.	Moderate: thin layer, hard to pack.	Severe: no water.	Deep to water	Slope, percs slowly, depth to rock.	Slope, depth to rock, percs slowly.	Too arid, slope, depth to rock.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
81 Tsezhin	Severe: seepage, slope.	Severe: large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
82 Twist	Severe: seepage.	Severe: thin layer.	Severe: no water.	Deep to water	Slope	Favorable	Too arid.
83 Twist	Moderate: seepage, slope.	Severe: piping.	Severe: no water.	Deep to water	Slope	Favorable	Too arid.
84*:							
Virgin Peak	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
85 Whiskey	Moderate: seepage.	Severe: piping.	Severe: no water.	Deep to water	Soil blowing	Soil blowing	Favorable.
86*, 87*:							
Winkel	Severe: cemented pan.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Large stones, depth to rock.	Too arid, large stones.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
88, 89 Winkel	Severe: cemented pan, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones, depth to rock.	Too arid, large stones, slope.
90*:							
Wutoma	Severe: slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty.	Slope	Slope, droughty.
Lozinta	Severe: slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty.	Slope	Slope, droughty.
91* Yellowhorse family	Moderate: depth to rock.	Moderate: hard to pack, wetness.	Severe: slow refill.	Percs slowly, flooding.	Wetness, slow intake, percs slowly.	Wetness, percs slowly.	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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
92*:							
Yellowhorse	Moderate: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, percs slowly, depth to rock.	Depth to rock, percs slowly.	Depth to rock, percs slowly.
Luzena family	Severe: depth to rock.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, percs slowly,	Depth to rock, percs slowly.	Depth to rock, percs slowly.
93*:							
Yumtheska	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
Katzine	Severe: slope.	Moderate: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope	Slope, droughty.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
94*:							
Yumtheska	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
Katzine	Severe: seepage, slope.	Severe: seepage, large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones.	Large stones, slope, droughty.
Rock outcrop	Severe: depth to rock, slope.	Slight	Severe: no water.	Deep to water	Slope, depth to rock, rooting depth.	Slope, depth to rock.	Slope, depth to rock, rooting depth.
95*:							
Yumtheska	Severe: depth to rock, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, depth to rock.	Slope, depth to rock.	Slope, droughty, depth to rock.
Natank	Severe: slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, percs slowly, depth to rock.	Slope, depth to rock, percs slowly.	Too arid, 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	Aquifer-fed excavated ponds	Features affecting-- Drainage	Irrigation	Terraces and diversions	Grassed waterways
96*, 97*:							
Yurm family------	Severe: cemented pan, slope.	Severe: large stones.	Severe: no water.	Deep to water	Slope, large stones, droughty.	Slope, large stones, cemented pan.	Too arid, large stones, slope.
Meadview---------	Severe: seepage, slope.	Severe: seepage.	Severe: no water.	Deep to water	Slope, droughty.	Slope----------	Too arid, slope, droughty.
98*, 99*---------- Yurm family	Severe: cemented pan, slope.	Severe: thin layer.	Severe: no water.	Deep to water	Slope, droughty, cemented pan.	Slope, cemented pan.	Too arid, slope, droughty.

* 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	Frag- ments > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
1*:												
Akinville----	0-2	Very gravelly fine sandy loam.	GM, GP-GM, GM-GC	A-1	0-5	5-15	45-50	30-50	20-40	10-20	15-25	NP-5
	2-32	Very gravelly loam, very gravelly sandy loam.	GM, GP-GM, GM-GC	A-1, A-2	0-5	5-15	45-50	30-50	20-45	10-30	15-25	NP-5
	32-48	Very gravelly loam, very gravelly sandy loam.	GM, GP-GM, GM-GC	A-1, A-2	0-5	5-15	45-50	30-50	20-45	10-30	15-25	NP-5
	48-60	Extremely gravelly loamy sand, extremely gravelly sandy loam.	GP-GM, GP	A-1	0-5	5-15	45-50	30-50	10-20	0-10	0-10	NP
Mokaac-------	0-3	Very cobbly loamy fine sand.	SP-SM, SM	A-1, A-2	5-10	25-35	60-80	55-75	30-55	10-20	<15	NP
	3-10	Gravelly loamy fine sand.	SP-SM, SM	A-1	0	5-10	65-75	60-70	30-50	10-20	<15	NP
	10-26	Very gravelly sand, extremely gravelly sand.	GP, GP-GM	A-1	0	5-20	35-45	30-40	15-30	2-5	0-0	NP
	26-32	Loamy fine sand.	SM, SP-SM	A-1, A-2	0	0	80-90	75-85	40-65	10-25	<15	NP
	32-41	Very gravelly loamy coarse sand.	GM, GP-GM	A-1	0	0-10	40-55	35-50	20-40	5-15	<15	NP
	41-60	Clay loam, loam.	CL-ML, CL, SC, SC-SM	A-4, A-6	0	0	80-95	75-90	60-75	45-60	20-35	5-15
2---------- Albers	0-2	Silty clay----	CL, CH	A-7	0	0	100	95-100	90-100	85-95	45-55	20-30
	2-47	Clay, silty clay.	CL, CH	A-7	0	0	100	95-100	90-100	75-95	45-60	25-40
	47-60	Clay----------	CL, CH	A-7	0	0	100	95-100	90-100	75-95	45-60	25-40
3*---------- Arada family	0-3	Loamy fine sand.	SM	A-1	0	0	100	90-100	40-50	15-25	0-0	NP
	3-26	Loamy sand----	SM	A-1	0	0	100	90-100	40-50	15-25	0-0	NP
	26-49	Loamy sand----	SM	A-1	0	0	100	90-100	40-50	15-25	0-0	NP
	49-60	Gravelly loamy coarse sand.	SM, SP-SM	A-1	0	0	60-80	55-75	30-50	8-20	0-0	NP
4*---------- Arizo	0-3	Gravelly sandy loam.	SC-SM, SM	A-1, A-2	0	0-5	60-80	55-75	30-50	15-30	15-20	NP-5
	3-60	Stratified @ to very gravelly loamy sand.	GM, GP-GM, SM, SP-SM	A-1	0	5-15	35-60	30-55	15-40	5-15	5-10	NP-4

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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
5*---------- Arizo	0-10	Very gravelly sandy loam.	GM, GM-GC, GP-GM	A-1	0	0-5	30-55	25-50	20-40	10-20	15-20	NP-5
	10-60	Stratified loamy sand to very gravelly loamy sand.	GM, GP-GM, SM, SP-SM	A-1	0	5-15	35-60	30-55	15-40	5-15	5-10	NP-4
6*---------- Badland	0-1	Variable------	---	---	---	---	---	---	---	---	---	---
	1-60	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
7*:												
Bard family--	0-2	Gravelly loamy sand.	SM, SP-SM	A-1, A-2	0	0	70-80	65-75	30-55	10-15	0-10	NP
	2-5	Loamy sand----	SM, SP-SM	A-1, A-2	0	0	85-100	80-95	40-70	10-20	0-10	NP
	5-17	Gravelly sandy loam.	SM, SC-SM	A-1, A-2	0	0	70-80	65-75	40-50	20-30	5-15	NP-5
	17-60	Indurated-----	---	---	---	---	---	---	---	---	---	---
Tonopah------	0-3	Gravelly loamy fine sand.	SP-SM, SM	A-1, A-2	0	0	70-80	65-75	30-55	10-20	10-15	NP-4
	3-8	Gravelly loamy fine sand.	SP-SM, SM	A-1, A-2	0	0	70-80	65-75	30-55	10-20	10-15	NP-4
	8-60	Very gravelly loamy sand, very gravelly loamy fine sand.	GP-GM, GM	A-1	0	0	40-55	35-50	20-40	5-15	10-15	NP-4
Arada family-	0-2	Loamy sand----	SM	A-1	0	0	100	90-100	40-50	15-25	0-0	NP
	2-26	Loamy sand----	SM	A-1	0	0	100	90-100	40-50	15-25	0-0	NP
	26-49	Loamy sand----	SM	A-1	0	0	100	90-100	40-50	15-25	0-0	NP
	49-60	Gravelly loamy coarse sand.	SM, SP-SM	A-1	0	0	60-80	55-75	30-50	8-20	0-0	NP
8---------- Barx	0-1	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-95	80-90	55-75	30-45	5-15	NP-5
	1-5	Clay loam-----	CL	A-6	0	0	85-95	80-90	70-90	55-70	25-35	10-15
	5-21	Clay loam-----	CL	A-6	0	0	85-95	80-90	70-90	55-70	25-35	10-15
	21-33	Loam----------	CL-ML, CL, SC-SM, SC	A-4	0	0	85-95	80-90	65-85	35-60	15-25	5-10
	33-50	Clay loam-----	CL	A-6	0	0	85-95	80-90	70-90	55-70	25-35	10-15
	50-60	Sandy loam----	SM, SC-SM	A-1, A-2	0	0	85-95	80-90	45-60	20-30	5-15	NP-5
9*:												
Barx---------	0-1	Gravelly loam	SC-SM, SC, GM-GC, GC	A-2, A-4	0	0	60-80	55-75	45-65	30-50	15-25	5-10
	1-3	Loam----------	CL-ML, CL, SC-SM, SC	A-4	0	0	85-95	80-90	65-85	35-60	15-25	5-10
	3-12	Clay loam-----	CL	A-6	0	0	85-95	80-90	70-90	55-70	25-35	10-15
	12-24	Clay loam-----	CL	A-6	0	0	85-95	80-90	70-90	55-70	25-35	10-15
	24-42	Loam----------	CL-ML, CL, SC-SM, SC	A-4	0	0	85-95	80-90	65-85	35-60	15-25	5-10
	42-60	Gravelly sandy loam.	SM, SC-SM, GM, GM-GC	A-1	0	0	60-80	55-75	30-50	15-25	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
9*:												
Strych-------	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	2-7	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	7-45	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	45-60	Very gravelly loamy sand.	GP-GM, SP-SM	A-1	0	0-10	40-55	35-50	20-35	5-10	0-0	NP
10*:												
Berzatic family------	0-2	Extremely cobbly loam.	GP-GC, GC, GM-GC	A-1, A-2	10-15	50-60	25-40	20-35	15-30	10-20	20-30	5-10
	2-6	Extremely cobbly loam.	GP-GC, GC, GM-GC	A-1, A-2	10-15	50-60	25-40	20-35	15-30	10-20	20-30	5-10
	6	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Goblin-------	0-1	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2, A-4	0	0-5	60-80	60-75	55-65	25-40	15-20	NP-5
	1-10	Fine sandy loam, gypsiferous material.	SM, SC-SM	A-4	0	0-5	95-100	90-100	65-85	35-50	15-20	NP-5
	10	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
11*:												
Bisoodi------	0-1	Channery loam	SM, SC-SM, GM, GM-GC	A-4	0	0-5	75-85	65-75	55-70	40-50	15-25	5-10
	1-6	Loam----------	SC-SM, SC, CL-ML, CL	A-4	0	0-5	85-95	80-95	70-90	45-60	15-25	5-10
	6-17	Loam----------	SC-SM, SC, CL-ML, CL	A-4	0	0-5	85-95	80-95	70-90	45-60	15-25	5-10
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Anasazi family------	0-1	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-95	80-90	60-75	30-45	10-15	NP-5
	1-12	Fine sandy loam, loam.	CL-ML, SC-SM	A-4	0	0	85-95	80-90	65-80	40-55	15-20	4-7
	12-34	Loam----------	CL-ML, SC-SM	A-4	0	0	85-95	80-90	70-85	45-65	15-20	4-7
	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
12*:												
Blind family-	0-3	Very cobbly sandy loam.	GM, GM-GC, SM, SC-SM	A-1	15-20	20-30	55-65	50-60	20-35	15-20	5-15	NP-5
	3-16	Very cobbly loam.	GM-GC, GC	A-2, A-4	15-20	20-30	55-65	50-60	40-55	25-40	15-25	5-10
	16-28	Very gravelly sandy clay loam.	GM-GC, GC, GP-GC	A-1, A-2	0-5	0-10	40-55	35-50	30-45	10-25	25-35	5-15
	28-50	Very cobbly sandy loam.	GM, GM-GC, SM, SC-SM	A-1	15-20	20-30	55-65	50-60	30-35	15-20	5-15	NP-5
	50-60	Very cobbly loamy sand.	SP-SM	A-1	15-20	20-30	55-65	50-60	25-45	5-10	0-0	NP
Shelley------	0-2	Very gravelly loamy sand.	GP-GM, SP-SM	A-1	0	0-10	35-55	30-50	20-35	5-10	10-15	NP-4
	2-13	Very gravelly loamy sand.	GP-GM, SP-SM	A-1	0	0-10	35-55	30-50	20-35	5-10	10-15	NP-4
	13-33	Very gravelly sand.	SP, GP	A-1	0	0-10	35-55	30-50	15-35	2-5	0-0	NP
	33-60	Stratified sand to gravel.	SP, GP	A-1	0	0-10	35-55	30-50	15-35	2-5	0-0	NP
13*:												
Blind family-	0-3	Very stony sandy loam.	SM, SC-SM, GM, GM-GC	A-1	25-35	10-20	55-65	50-60	30-40	15-25	5-15	NP-5
	3-16	Very cobbly loam.	GM-GC, GC	A-2, A-4	5-15	25-40	55-65	50-60	40-55	25-40	15-25	5-10
	16-28	Very cobbly sandy clay loam.	GM-GC, GC, SC-SM, SC	A-1, A-2	5-15	25-40	55-65	50-60	40-55	20-30	25-35	5-15
	28-50	Very cobbly sandy loam.	SM, SC-SM, GM, GM-GC	A-1	5-15	25-40	55-65	50-60	30-40	15-25	5-15	NP-5
	50-60	Very cobbly loamy sand.	SP-SM, SM	A-1	5-15	25-40	55-65	50-60	25-45	5-15	0-0	NP
Shelley------	0-2	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0-15	0-15	35-55	30-50	20-35	10-20	15-20	NP-5
	2-8	Gravelly sandy loam.	SM, SC-SM	A-1	0	5-10	60-70	55-65	35-45	15-25	15-20	NP-5
	8-30	Extremely cobbly loamy coarse sand.	GP-GM	A-1	15-20	35-45	35-45	30-40	10-20	5-8	0-0	NP
	30-60	Very gravelly coarse sand.	GP, GP-GM	A-1	0	5-10	35-45	30-40	5-15	2-5	0-0	NP
14*:												
Boquillas family------	0-3	Extremely cobbly clay loam.	GC, SC	A-6, A-6	0-5	55-65	55-75	50-70	45-70	35-45	30-40	10-20
	3-13	Gravelly clay	CL, CH	A-7	0	0-10	70-80	65-75	60-75	50-70	40-55	20-35
	13-23	Gravelly clay loam, gravelly clay.	CL, CH, GC, SC	A-7	0	0-10	70-80	65-75	55-75	45-70	40-55	20-35
	23	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
14*:												
Showlow------	0-1	Extremely cobbly clay loam.	GC	A-2, A-6, A-7	5-10	50-60	50-60	40-50	35-50	30-40	30-45	10-20
	1-23	Clay----------	CL, CH	A-6, A-7	0	0	90-100	90-100	75-90	65-85	35-55	20-35
	23-38	Stony clay----	CL, CH	A-6, A-7	10-15	10-15	80-90	75-85	70-85	55-70	35-55	20-35
	38-60	Very cobbly clay.	GC	A-6, A-7	0-5	40-50	60-70	50-60	45-60	35-45	35-55	20-35
15*:												
Carrizo------	0-3	Very gravelly loamy sand.	GP-GM, SP-SM	A-1	0	5-20	40-60	35-55	20-40	5-10	0-0	NP
	3-60	Stratified very gravelly coarse sand to loamy sand.	GP, GP-GM, SP, SP-SM	A-1	0	5-20	40-60	35-55	20-40	3-10	0-0	NP
Carrizo------	0-4	Very cobbly loamy sand.	GP-GM, SP-SM	A-1	0-5	30-40	50-60	45-55	20-40	5-10	0-0	NP
	4-60	Stratified very gravelly coarse sand to loamy sand.	GP, GP-GM, SP, SP-SM	A-1	0	5-20	40-60	35-55	20-40	3-10	0-0	NP
16*:												
Cave---------	0-2	Gravelly fine sandy loam.	SM, SC-SM	A-1, A-2	0	0	60-80	55-75	40-65	15-35	15-20	NP-5
	2-11	Gravelly fine sandy loam.	SM, SC-SM	A-1, A-2	0	0	60-80	55-75	40-65	15-35	15-20	NP-5
	11-60	Indurated-----	---	---	---	---	---	---	---	---	---	---
Harrisburg---	0-2	Gravelly fine sandy loam.	SC-SM, SM, GM-GC, GM	A-2	0	0	60-80	55-75	40-60	25-35	15-25	NP-5
	2-18	Fine sandy loam.	SC-SM, SM	A-4	0	0	90-100	85-95	60-80	35-45	15-25	NP-5
	18-26	Gravelly fine sandy loam.	SC-SM, SM, GM-GC, GM	A-2	0	0	60-80	55-75	40-60	25-35	15-25	NP-5
	26-60	Indurated-----	---	---	---	---	---	---	---	---	---	---
Grapevine----	0-4	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2	0	0-10	65-75	60-70	40-60	25-35	15-25	NP-5
	4-25	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-100	80-95	55-80	30-40	15-25	NP-5
	25-60	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-100	80-95	55-80	30-40	15-25	NP-5
17*:												
Chic---------	0-2	Extremely gravelly loam.	GP-GC, GC, GM-GC	A-1, A-2	0	0-10	20-30	15-25	15-25	10-15	15-25	5-10
	2-9	Very gravelly loam.	GC, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-45	20-35	15-25	5-10
	9-27	Extremely gravelly loam, extremely gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	0-10	20-30	15-25	10-20	5-15	10-20	NP-6
	27-60	Cinders-------	GP	A-1	0	0-10	0-10	0-5	0	0	0-0	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	Frag- ments > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
17*:												
Teesto-------	0-2	Very cobbly loam.	GM-GC, GC	A-2, A-4	0-5	20-40	50-70	45-65	35-60	25-45	20-30	5-10
	2-10	Very cobbly loam.	GM-GC, GC	A-2, A-4	0-5	20-40	50-70	45-65	35-60	25-45	20-30	5-10
	10	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
18*:												
Childers-----	0-3	Gravelly loam	GM-GC, GC, SC-SM, SC	A-2, A-4	0	0-5	60-80	55-75	45-90	30-45	15-25	5-10
	3-16	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-40	20-30	15-25	5-10
	16-22	Indurated-----	---	---	---	---	---	---	---	---	---	---
	22	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rizno--------	0-1	Very channery sandy loam.	SM, SP-SM, GM, GP-GM	A-1	0	0-10	50-60	40-50	25-35	10-20	15-20	NP-5
	1-6	Channery sandy loam, channery loam.	SM, SC-SM, GM, GM-GC	A-2, A-4	0	0	55-85	50-75	35-65	25-45	15-25	NP-7
	6	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
19---------- Dera	0-2	Very gravelly fine sandy loam.	GM, GM-GC, GP-GM	A-1	0	0	40-60	30-50	20-40	10-25	15-20	NP-5
	2-9	Gravelly loam	SM, SC-SM, GM, GM-GC	A-2, A-4	0	0	60-85	50-75	40-55	25-45	20-25	NP-7
	9-42	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0	40-60	30-50	20-40	15-30	20-25	NP-7
	42-60	Very gravelly sandy loam.	GM, GP-GM, SM, SP-SM	A-1	0	0	40-60	30-50	20-35	10-20	15-20	NP-4
20*:												
Dermala family------	0-2	Very cobbly loam.	GM-GC, GC	A-2, A-4	0-10	20-40	50-70	45-65	35-60	25-45	20-30	5-10
	2-8	Very cobbly clay loam, very cobbly loam.	GC	A-2, A-4, A-6, A-7	0-10	20-40	50-70	45-65	40-60	30-45	20-45	7-20
	8-24	Cobbly clay loam, cobbly loam.	CL, SC	A-4, A-6, A-7	0	20-30	75-90	70-85	60-85	45-65	20-45	7-20
	24-38	Cobbly clay loam, cobbly loam.	CL, SC	A-4, A-6, A-7	0	20-30	75-90	70-85	60-85	45-65	20-45	7-20
	38-60	Cobbly loam, cobbly clay loam.	CL, SC	A-4, A-6, A-7	0	20-30	75-90	70-85	60-80	45-65	20-45	7-20

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 > 10 inches	Fragments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
20*:												
Guy family---	0-4	Very cobbly loam.	SC-SM, SC, GM-GC, GC	A-2, A-4	0-10	20-40	50-70	45-65	35-60	25-45	20-30	5-10
	4-8	Cobbly loam, cobbly clay loam.	SC-SM, SC, CL-ML, CL	A-4, A-6	0	20-30	75-90	70-85	60-80	45-60	20-35	5-15
	8-28	Gravelly loam, gravelly sandy loam.	SC-SM, SC, GM-GC, GC	A-1, A-2, A-4	0	0-10	60-75	55-70	40-60	20-45	15-30	5-10
	28-40	Weathered bedrock, gypsiferous material.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
21*:												
Disterheff---	0-2	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0	40-55	35-50	30-50	20-35	20-30	NP-10
	2-5	Clay loam-----	CL	A-6	0	0	90-100	85-95	75-95	60-75	30-40	10-20
	5-14	Gravelly clay	GC, SC, CL, CH	A-7	0	0	60-80	55-75	50-75	40-65	45-60	25-40
	14-32	Clay----------	CL, CH	A-7	0	0	90-100	90-100	75-100	65-90	45-60	25-40
	32-41	Gravelly clay	GC, SC, CL, CH	A-7	0	0	60-80	55-75	50-75	40-65	45-60	25-40
	41-60	Gravelly clay loam.	SC, GC	A-6	0	0	55-80	55-75	50-75	35-50	30-40	10-20
Natank-------	0-1	Very gravelly loam.	GC, GC-SM	A-2	0	0-5	45-65	35-50	30-45	20-40	15-25	5-10
	1-3	Clay loam-----	CL	A-4, A-6	0	0	95-100	85-95	80-95	60-75	30-40	10-20
	3-16	Clay----------	CH, CL	A-6, A-7	0	0	95-100	85-95	75-95	65-85	40-55	20-35
	16-25	Cobbly clay loam.	CL, SC	A-4, A-6	0	15-25	70-90	65-85	60-80	50-65	30-40	10-20
	25-37	Cobbly loam---	CL, CL-ML, SC, SC-SM	A-4	0	15-25	70-90	65-85	55-80	40-55	15-25	5-10
	37	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Yumtheska----	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	2-14	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	14	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
22*:												
Dutchman-----	0-2	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	80-95	75-90	50-75	30-50	15-25	NP-5
	2-20	Fine sandy loam, sandy loam, loam.	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0	80-95	75-90	55-85	20-55	15-30	NP-7
	20-33	Fine sandy loam, sandy loam.	SM, SC-SM	A-2, A-4	0	0	80-95	75-90	55-75	20-40	15-25	NP-5
	33-60	Fine sandy loam, sandy loam.	SM, SC-SM	A-2, A-4	0	0	80-95	75-90	55-75	20-40	15-25	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
22*:												
McCullan-----	0-1	Gravelly loam	SM, GM, GM-GC, SC-SM	A-2, A-4	0	0	55-80	50-75	40-65	25-45	20-30	NP-7
	1-6	Fine sandy loam, sandy loam, loam.	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0	80-95	75-90	55-85	20-55	15-30	NP-7
	6-25	Fine sandy loam, sandy loam.	SM, SC-SM	A-2, A-4	0	0	80-95	75-90	55-75	20-40	15-25	NP-5
	25-41	Fine sandy loam, sandy loam.	SM, SC-SM	A-2, A-4	0	0	80-95	75-90	55-75	20-40	15-25	NP-5
	41-60	Sandy loam----	SM, SC-SM	A-2	0	0	80-95	75-90	45-60	25-35	15-25	NP-5
23---------- Goblin	0-1	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2, A-4	0	0-5	60-80	60-75	55-65	25-40	15-20	NP-5
	1-10	Fine sandy loam, gypsiferous material.	SM, SC-SM	A-4	0	0-5	95-100	90-100	65-85	35-50	15-20	NP-5
	10	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
24*:												
Goblin-------	0-1	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2, A-4	0	0-5	60-80	60-75	55-65	25-40	15-20	NP-5
	1-14	Fine sandy loam, gypsiferous material.	SM, SC-SM	A-4	0	0-5	95-100	90-100	65-85	35-50	15-20	NP-5
	14	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
Gyppocket----	0-2	Very cobbly sandy loam.	GM, SM, GM-GC, SC-SM	A-1, A-2	0	20-30	55-70	40-60	25-40	12-30	15-25	NP-5
	2-12	Very cobbly loam.	GC, SC, GM-GC, SC-SM	A-1, A-2, A-4	0	20-30	55-70	40-60	35-55	20-40	20-30	5-10
	12-22	Very cobbly sandy loam.	SM, SC-SM, GM, GM-GC	A-1, A-2	0	40-50	60-75	45-65	25-45	15-35	15-25	NP-5
	22-60	Extremely cobbly gypsiferous material.	GP, GP-GM	A-1	0	30-45	30-45	20-35	10-25	1-10	0-15	NP
25---------- Goesling	0-2	Loam----------	CL-ML, CL, SC, SC-SM	A-4	0	0	95-100	95-100	75-95	50-65	20-30	5-10
	2-9	Loam----------	CL-ML, CL	A-4	0	0	95-100	90-100	75-90	55-65	20-30	5-10
	9-33	Clay loam-----	CL	A-4, A-6	0	0	95-100	90-100	80-95	60-75	30-40	10-20
	33-60	Clay loam-----	CL	A-4, A-6	0	0	95-100	90-100	80-95	60-75	30-40	10-20
26*:												
Grapevine----	0-4	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2	0	0-10	65-75	60-70	40-60	25-35	15-25	NP-5
	4-13	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-100	80-95	55-80	30-40	15-25	NP-5
	13-60	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-100	80-95	55-80	30-40	15-25	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 > 10 inches	Fragments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
26*:												
Hobcan-------	0-1	Very fine sandy loam.	CL-ML, ML	A-4	0	0	95-100	95-100	80-95	50-65	15-25	NP-5
	1-8	Very fine sandy loam, fine sandy loam.	SM, ML, SC-SM, CL-ML	A-4	0	0	95-100	80-95	70-90	45-60	15-25	NP-5
	8-15	Very fine sandy loam, fine sandy loam.	SM, ML, SC-SM, CL-ML	A-4	0	0	95-100	80-95	70-90	45-60	15-25	NP-5
	15-51	Loam----------	SM, ML, CL-ML, SC-SM	A-4	0	0	95-100	80-95	70-90	45-65	15-25	NP-5
	51-60	Very fine sandy loam, fine sandy loam.	SM, ML, SC-SM, CL-ML	A-4	0	0	95-100	80-95	70-90	45-60	15-25	NP-5
27*:												
Grapevine----	0-4	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2	0	0-10	65-75	60-70	40-60	25-35	15-25	NP-5
	4-60	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-100	80-95	55-80	30-40	15-25	NP-5
Shelley------	0-2	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	0-10	35-55	30-50	20-35	10-20	15-20	NP-5
	2-11	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	0-10	35-55	30-50	20-35	10-20	15-20	NP-5
	11-17	Very gravelly loamy sand.	GP-GM	A-1	0	0-10	35-55	30-50	20-35	5-10	0-15	NP
	17-60	Very gravelly loamy sand.	GP-GM	A-1	0	0-10	35-55	30-50	20-35	5-10	0-15	NP
28*:												
Gypill-------	0-2	Fine sandy loam.	SM, SC-SM	A-4	0	0	90-100	90-100	65-85	35-50	15-25	NP-5
	2-6	Gypsiferous material, sandy loam, loam.	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0	90-100	90-100	55-95	30-75	15-25	NP-5
	6-10	Weathered bedrock, gypsiferous material.	---	---	---	---	---	---	---	---	---	---
	10-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Badland------	0-1	Variable------	---	---	---	---	---	---	---	---	---	---
	1-60	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
29---------- Gypill	0-2	Fine sandy loam.	SM, SC-SM	A-4	0	0	90-100	90-100	65-85	35-50	15-25	NP-5
	2-6	Gypsiferous material, sandy loam, loam.	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0	90-100	90-100	55-95	30-75	15-25	NP-5
	6-10	Weathered bedrock, gypsiferous material.	---	---	---	---	---	---	---	---	---	---
	10-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
30*:												
Gypill-------	0-2	Fine sandy loam.	SM, SC-SM	A-4	0	0	90-100	90-100	65-85	35-50	15-25	NP-5
	2-12	Gypsiferous material, sandy loam, loam.	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0	90-100	90-100	55-95	30-75	15-25	NP-5
	12-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Hobog--------	0-2	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	20-30	10-20	10-20	NP-6
	2-12	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	20-30	10-20	10-20	NP-6
	12	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
31---------- Gypill	0-2	Very cobbly sandy loam.	SM, SC-SM	A-1, A-2, A-4	0-10	50-65	70-95	60-85	40-65	20-45	15-25	NP-5
	2-10	Sandy loam, loam, gypsiferous material.	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0-5	90-100	85-95	50-90	30-70	15-25	NP-7
	10-18	Weathered bedrock, gypsiferous material.	---	---	---	---	---	---	---	---	---	---
	18-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
32*:												
Gypisorthids-	0-60	Variable------	---	---	---	---	---	---	---	---	---	---
Gypisorthids,	0-7	Variable------	---	---	---	---	---	---	---	---	---	---
	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
33---------- Havasupai	0-2	Very gravelly loam.	GC, GM-GC	A-1, A-2	0	0	40-55	35-50	30-45	20-35	20-30	5-10
	2-14	Very gravelly loam.	GC, GM-GC	A-1, A-2	0	0	40-55	35-50	30-45	20-35	20-30	5-10
	14-18	Indurated-----	---	---	---	---	---	---	---	---	---	---
	18-48	Cemented, very gravelly coarse sandy loam.	GM, GP-GM, GM-GC	A-1	0	0	40-55	35-50	15-30	10-20	5-15	NP-5
	48-60	Very gravelly loamy coarse sand.	GP-GM, GM	A-1	0	0	40-55	35-50	10-25	5-15	10-15	NP-4
34*:												
Hindu--------	0-1	Extremely gravelly loam.	GP-GC, GM-GC, GC	A-1, A-2	0	0-10	20-30	15-25	10-20	10-15	15-25	5-10
	1-7	Extremely gravelly loam.	GP-GC, GM-GC, GC	A-1, A-2	0	0-10	20-30	15-25	10-20	10-15	15-25	5-10
	7	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Gypill-------	0-2	Fine sandy loam.	SM, SC-SM	A-4	0	0	90-100	90-100	65-85	35-50	15-25	NP-5
	2-6	Gypsiferous material, sandy loam, loam.	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0	90-100	90-100	55-95	30-75	15-25	NP-5
	6-60	Weathered bedrock, gypsiferous material.	---	---	---	---	---	---	---	---	---	---
35---------- Hobcan	0-2	Fine sandy loam.	CL-ML, ML, SC-SM, SM	A-4	0	0	95-100	95-100	65-85	40-55	15-25	NP-5
	2-14	Very fine sandy loam, fine sandy loam.	SM, ML, SC-SM, CL-ML	A-4	0	0	95-100	80-95	70-90	45-60	15-25	NP-5
	14-19	Very fine sandy loam, fine sandy loam.	SM, ML, SC-SM, CL-ML	A-4	0	0	95-100	80-95	70-90	45-60	15-25	NP-5
	19-60	Very fine sandy loam, fine sandy loam.	SM, ML, SC-SM, CL-ML	A-4	0	0	95-100	80-95	70-90	45-60	15-25	NP-5
36*:												
Hobog--------	0-2	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	20-30	10-20	10-20	NP-6
	2-12	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	20-30	10-20	10-20	NP-6
	12	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
36*:												
Grapevine----	0-2	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2	0	0-10	65-75	60-70	40-60	25-35	15-25	NP-5
	2-35	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-100	80-95	55-80	30-40	15-25	NP-5
	35-60	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-100	80-95	55-80	30-40	15-25	NP-5
37*:												
Hobog--------	0-2	Very gravelly fine sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	25-35	10-20	10-20	NP-6
	2-12	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	20-30	10-20	10-20	NP-6
	12	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Grapevine----	0-2	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2	0	0-10	65-75	60-70	40-60	25-35	15-25	NP-5
	2-35	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-100	80-95	55-80	30-40	15-25	NP-5
	35-60	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-100	80-95	55-80	30-40	15-25	NP-5
38*:												
Hobog--------	0-4	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	20-30	10-20	10-20	NP-6
	4-19	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	20-30	10-20	10-20	NP-6
	19	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Tidwell family------	0-2	Very gravelly fine sandy loam.	GM, GM-GC, SM, SC-SM	A-1	0	0-10	45-60	40-50	30-50	15-20	15-25	NP-5
	2-6	Gravelly loam	SC, SC-SM	A-2, A-4	0	0-10	70-80	60-75	55-65	30-45	20-30	5-10
	6	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
39---------- Hobog	0-4	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	20-30	10-20	10-20	NP-6
	4-19	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	10-20	40-50	35-45	20-30	10-20	10-20	NP-6
	19	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
40---------- Ivanpatch	0-2	Fine sandy loam.	SM	A-4	0	0	95-100	85-100	65-85	40-50	10-15	NP-4
	2-11	Loam----------	ML, CL-ML	A-4	0	0	95-100	85-100	75-95	50-65	15-25	NP-7
	11-60	Loam----------	ML, CL-ML	A-4	0	0	95-100	85-100	75-95	50-65	15-25	NP-7
41---------- Ives	0-2	Loam----------	CL-ML, CL	A-4	0	0	90-100	90-100	76-95	50-70	20-30	5-10
	2-60	Stratified fine sandy loam to loam.	SM, SC-SM, ML, CL-ML	A-4	0	0	90-100	90-100	65-90	40-70	15-30	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
42*:												
Katzine------	0-1	Very gravelly loam.	GM, GC, GM-GC, SC-SM	A-1, A-2	0	0-5	40-55	35-50	30-45	20-25	20-30	NP-10
	1-10	Very cobbly loam.	GM, SM, GM-GC, SC-SM	A-2, A-4	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
	10-60	Very cobbly sandy loam.	SM, SC-SM, GM, GM-GC	A-1	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Yumtheska----	0-1	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	1-10	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	10	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
43*:												
Meadview-----	0-5	Very stony sandy loam.	SM, SC-SM, GM, GM-GC	A-1, A-2	25-35	10-20	60-80	55-75	30-50	15-30	15-20	NP-5
	5-19	Very cobbly sandy loam.	SM, SC-SM, GM, GM-GC	A-1, A-2	5-10	30-40	60-80	55-75	30-50	15-30	15-20	NP-5
	19-60	Very cobbly sandy loam.	SM, SC-SM, GM, GM-GC	A-1, A-2	5-10	30-40	60-80	55-75	30-50	15-30	15-20	NP-5
Cave---------	0-2	Stony sandy loam.	SM, SC-SM	A-2, A-4	15-25	5-10	75-90	70-85	50-60	30-40	15-20	NP-5
	2-9	Cobbly fine sandy loam.	SM, SC-SM	A-2, A-4	5-10	15-25	80-90	75-85	50-70	30-40	15-20	NP-5
	9-60	Indurated-----	---	---	---	---	---	---	---	---	---	---
44---------- Meadview	0-2	Very gravelly sandy loam.	GM, GM-GC, GP-GM	A-1	0	0-10	40-55	35-50	20-35	10-20	15-20	NP-5
	2-6	Very gravelly sandy loam, very gravelly fine sandy loam.	GM, GM-GC, GP-GM	A-1	0	0-10	40-55	35-50	20-35	10-20	15-20	NP-5
	6-50	Very gravelly sandy loam.	GM, GM-GC, GP-GM	A-1	0	0-10	40-55	35-50	20-35	10-20	15-20	NP-5
	50-60	Very gravelly loamy sand.	GP-GM, SP-SM	A-1	0	0-10	40-55	35-50	20-35	5-10	0-0	NP
45*:												
Mellenthin---	0-2	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	2-10	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	10	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Torriorthents	0-40	Variable------	---	---	---	---	---	---	---	---	---	---
	40	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
46*, 47*:												
Mellenthin---	0-2	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	2-17	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Strych-------	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	2-24	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	24-48	Extremely gravelly loam.	GP-GM, GM, GM-GC	A-1, A-2	0	0-10	20-30	15-25	15-25	10-15	20-25	NP-7
	48-60	Very gravelly clay loam.	GC	A-2	0	0-10	45-55	40-50	35-50	25-35	30-40	10-20
48*:												
Mellenthin---	0-2	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	2-6	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	6-17	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Tanbark------	0-1	Loam----------	SM, SC-SM	A-4	0	0	95-100	85-95	70-90	40-50	15-20	NP-5
	1-17	Sandy loam, gypsiferous material.	SM, SC-SM	A-2, A-4	0	0	95-100	95-100	55-70	25-45	0-15	NP-5
	17	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
49*:												
Mellethin----	0-2	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	2-6	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	6-17	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	5-10
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Tanbark------	0-1	Loam----------	SM, SC-SM	A-4	0	0	95-100	85-95	70-90	40-50	15-20	NP-5
	1-17	Sandy loam, gypsiferous material.	SM, SC-SM	A-2, A-4	0	0	95-100	95-100	55-70	25-45	0-15	NP-5
	17	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
50*:												
Mellenthin---	0-3	Very gravelly fine sandy loam.	GP, GM, GP-GM, GM-GC	A-1, A-2	0	0-10	35-55	30-50	20-40	10-30	5-15	NP-5
	3-8	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-10	35-55	30-50	30-45	15-35	15-25	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
50*:												
Tanbark------	0-1	Loam----------	SM, SC-SM	A-4	0	0	95-100	85-95	70-90	40-50	15-20	NP-5
	1-10	Sandy loam, gypsiferous material.	SM, SC-SM	A-2, A-4	0	0	95-100	95-100	55-70	25-45	0-15	NP-5
	10	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
51*:												
Merwhitica---	0-1	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
	1-6	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
	6	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Strych-------	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	2-10	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	10-60	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
52*:												
Meriwhitica--	0-1	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
	1-6	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
	6	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Strych-------	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	2-10	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	10-60	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
53*:												
Mespun-------	0-6	Fine sand-----	SP-SM, SM	A-2	0	0	100	100	65-80	10-20	0-0	NP
	6-60	Sand, fine sand.	SP-SM, SM	A-2	0	0	100	100	55-65	5-20	0-0	NP
Mespun-------	0-2	Fine sand-----	SP-SM, SM	A-2	0	0	100	100	65-80	10-20	0-0	NP
	2-34	Loamy fine sand.	SM	A-2	0	0	100	100	65-80	15-30	10-15	NP
	34-54	Sand, fine sand.	SP-SM, SM	A-2	0	0	100	100	55-65	5-20	0-0	NP
	54-60	Gravelly loamy sand.	SP-SM, SM	A-1, A-2	0	0	65-80	60-75	30-55	10-20	10-15	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	Frag- ments > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
54*:												
Moenkopie----	0-1	Channery fine sandy loam.	SM, SC-SM	A-1, A-2	0	0-10	65-80	60-75	40-65	20-35	15-20	NP-5
	1-8	Loam----------	SC-SM, SC, CL-ML, CL	A-4	0	0-5	90-100	85-95	70-90	45-60	20-30	5-10
	8-10	Channery loam	SC-SM, SC, GM-GC, GC	A-2, A-4	0	0-10	65-80	60-75	50-70	30-45	20-30	5-10
	10	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Goblin-------	0-1	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2, A-4	0	0-5	60-80	60-75	55-65	25-40	15-20	NP-5
	1-10	Fine sandy loam, gypsiferous material.	SM, SC-SM	A-4	0	0-5	95-100	90-100	65-85	35-50	15-20	NP-5
	10	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
55*:												
Moenkopie----	0-1	Channery fine sandy loam.	SM, SC-SM	A-1, A-2	0	0-10	65-80	60-75	40-65	20-35	15-20	NP-5
	1-8	Loam----------	SC-SM, SC, CL-ML, CL	A-4	0	0-5	90-100	85-95	70-90	45-60	20-30	5-10
	8-12	Channery loam	SC-SM, SC, GM-GC, GC	A-2, A-4	0	0-10	65-80	60-75	50-70	30-45	20-30	5-10
	12	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Pennell------	0-5	Gravelly fine sandy loam.	GM, GM-GC, SM, SC-SM	A-1, A-2	0	0-5	60-80	55-75	40-65	20-35	10-20	NP-5
	5-12	Gravelly loam	GM-GC, GC, SC-SM, SC	A-2, A-4, A-6	0	0-5	60-80	55-75	50-70	30-45	20-30	5-15
	12	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
56*:												
Nikey family-	0-2	Very cobbly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-1, A-2	0-5	20-45	55-75	50-70	35-60	20-35	15-25	NP-5
	2-12	Very cobbly loam, very cobbly sandy loam.	SC-SM, SC, GM-GC, GC	A-1, A-2, A-4	0-5	20-45	55-75	50-70	35-55	20-45	20-30	5-10
	12-26	Gravelly loam, gravelly sandy loam.	SC-SM, SC, GM-GC, GC	A-1, A-2, A-4	0	0-10	60-75	55-70	35-55	20-45	20-30	5-10
	26-42	Gravelly loam, gravelly sandy loam.	SC-SM, SC, GM-GC, GC	A-1, A-2, A-4	0	0-10	60-75	55-70	35-55	20-45	20-30	5-10
	42-50	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
56*:												
Ruesh family-	0-2	Very cobbly fine sandy loam.	SM, SC-SM	A-2, A-4	0-10	35-55	80-95	75-85	50-70	30-45	15-20	NP-5
	2-10	Cobbly fine sandy loam.	SM, SC-SM	A-2, A-4	0-5	25-35	80-95	75-85	50-70	30-45	15-20	NP-5
	10-19	Loam, clay loam.	CL, CL-ML	A-4, A-6	0	0-10	85-95	85-95	75-90	51-70	20-35	5-15
	19-28	Loamy sand, fine sandy loam.	SM, SC-SM	A-1, A-2, A-4	0	0-10	85-95	85-95	45-75	15-40	0-15	NP-5
	28-40	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
57*:												
Nipton-------	0-2	Very gravelly coarse sandy loam.	GP-GM, GM, GM-GC	A-1	0	0-10	40-55	35-50	20-35	10-20	5-15	NP-5
	2-9	Very gravelly coarse sandy loam.	GP-GM, GM, GM-GC	A-1	0	0-10	40-55	35-50	20-35	10-20	5-15	NP-5
	9	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Nickel family	0-1	Very cobbly loam.	GM-GC, GC, SC-SM, SC	A-1, A-2, A-4	0-10	20-30	50-70	45-65	35-55	20-45	20-30	5-10
	1-8	Very gravelly loam, very gravelly sandy loam.	GM-GC, GC	A-1, A-2	0-5	5-15	40-55	35-50	25-40	15-35	20-30	5-10
	8-49	Very stony loam, very stony sandy loam.	GM-GC, GC, SC-SM, SC	A-1, A-2, A-4	25-35	10-20	55-70	50-65	35-55	20-45	20-30	5-10
	49	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
58*:												
Nutter-------	0-2	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-15	40-55	35-50	30-40	20-30	20-25	5-10
	2-13	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0-15	40-55	35-50	30-40	20-30	20-25	5-10
	13-23	Gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-2	0	0-15	65-85	55-75	40-60	25-35	15-25	NP-5
	23-47	Very gravelly sandy loam, very gravelly coarse sandy loam.	GM, GM-GC, GP-GM	A-1	0	0-15	40-55	35-50	15-35	10-20	10-20	NP-5
	47-60	Very gravelly loamy coarse sand, very gravelly gypsiferous material.	GM, GP-GM	A-1	0	0-15	40-55	35-50	15-30	5-15	0-0	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	Frag- ments > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
58*:												
Gyppocket----	0-2	Very gravelly fine sandy loam.	GM, GM-GC, GP-GM	A-1, A-2	0	0	45-60	35-50	25-40	10-30	15-25	NP-5
	2-14	Very gravelly sandy loam.	GM, GM-GC, SM, SC-SM	A-1	0	0-5	50-60	40-50	25-35	12-20	15-25	NP-5
	14-49	Extremely gravelly loamy sand, extremely gravelly loamy coarse sand.	GP-GM, GP	A-1	0	0-15	25-40	15-30	10-20	1-10	0-15	NP
	49-59	Extremely cobbly loamy coarse sand.	GP-GM, GP	A-1	0	30-45	30-45	20-35	10-25	1-10	0-15	NP
	59-60	Very gravelly coarse sand.	GP-GM, GP, SP, SP-SM	A-1	0	0	45-60	35-50	20-30	1-10	0-15	NP
59---------- Padilla	0-1	Silt loam-----	CL, CL-ML	A-4	0	0	95-100	85-95	75-95	60-85	20-30	5-10
	1-5	Clay loam-----	CL	A-6, A-7	0	0	95-100	85-95	75-95	55-70	30-45	11-20
	5-40	Clay----------	CL, CH	A-7	0	0	95-100	85-95	75-95	75-90	41-55	20-35
	40-60	Clay----------	CL, CH	A-7	0	0	95-100	85-95	75-95	75-90	41-55	20-35
60*:												
Pocum--------	0-1	Gravelly fine sandy loam.	SM, SC-SM	A-1, A-2	0	0-10	60-80	55-75	40-60	15-35	10-20	NP-7
	1-13	Gravelly loam, gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-1, A-2, A-4	0	0	55-80	50-75	40-60	15-45	10-20	NP-7
	13-22	Indurated-----	---	---	---	---	---	---	---	---	---	---
	22-42	Stratified gravelly loam to gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-1, A-2, A-4	0	0	55-80	50-75	40-60	15-45	10-20	NP-7
	42	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Childers-----	0-2	Very cobbly fine sandy loam.	GM-GC, GM, SC-SM, SM	A-1, A-2, A-4	0	30-40	45-75	40-70	25-60	15-40	15-25	NP-5
	2-18	Very cobbly loam.	GM-GC, GC	A-2, A-4	0	30-40	50-65	45-60	40-55	25-40	15-25	5-10
	18-21	Indurated-----	---	---	---	---	---	---	---	---	---	---
	21-30	Cemented------	---	---	---	---	---	---	---	---	---	---
	30	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Ubank--------	0-2	Gravelly fine sandy loam.	SM, SC-SM	A-1, A-2	0	0	60-80	55-75	30-50	15-30	15-25	NP-5
	2-16	Loam----------	SC-SM, SC, CL-ML, CL	A-4	0	0	85-95	80-90	70-80	45-60	20-30	5-10
	16-60	Gravelly loam	SC-SM, SC, GM-GC, GC	A-2, A-4	0	0	60-80	55-75	45-70	30-50	20-30	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
61*:												
Pocum--------	0-2	Gravelly fine sandy loam.	SM, SC-SM	A-1, A-2	0	0-10	60-80	55-75	40-60	15-35	10-20	NP-7
	2-14	Gravelly loam, gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-1, A-2, A-4	0	0	55-80	50-75	40-60	15-45	10-20	NP-7
	14-18	Indurated-----	---	---	---	---	---	---	---	---	---	---
	18-48	Stratified gravelly loam to gravelly fine sandy loam.	SM, SC-SM, GM, GM-GC	A-1, A-2, A-4	0	0	55-80	50-75	40-60	15-45	10-20	NP-7
	48	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Spenlo-------	0-6	Loam----------	CL-ML, CL	A-4	0	0	90-100	90-100	75-95	50-70	20-30	5-10
	6-21	Clay loam-----	CL	A-6, A-7	0	0	90-100	90-100	80-100	65-75	30-40	10-15
	21-60	Clay loam-----	CL	A-6, A-7	0	0	90-100	90-100	80-100	65-75	30-40	10-15
62*:												
Pompeii family------	0-2	Very gravelly sandy loam.	GP-GM, GM-GC, GM	A-1	0	0-15	40-50	35-45	20-30	10-20	15-20	NP-5
	2-6	Very gravelly sandy clay loam.	GM-GC, GC, GM	A-1, A-2	0	0-15	40-50	35-45	25-40	15-25	25-35	5-10
	6-9	Very gravelly clay loam.	GC	A-2	0	0-15	40-50	35-45	30-45	25-35	30-40	10-20
	9-60	Indurated-----	---	---	---	---	---	---	---	---	---	---
Huevi--------	0-8	Very gravelly sandy loam.	GP-GM, GM, GM-GC	A-1	0	0-15	40-55	35-50	20-35	10-20	15-20	NP-5
	8-19	Extremely gravelly coarse sandy loam.	GP-GM	A-1	0	0-15	20-30	15-25	10-20	5-10	15-20	NP-5
	19-28	Very gravelly loamy coarse sand.	GP-GM, SP-SM	A-1	0	0-15	40-55	35-50	15-35	5-10	10-15	NP-4
	28-44	Extremely gravelly sandy loam.	GP-GM	A-1	0	0-15	20-30	15-25	10-20	5-10	15-20	NP-5
	44-60	Extremely gravelly loamy coarse sand.	GP, GP-GM	A-1	0	0-15	20-30	15-25	10-20	2-5	10-15	NP-4
63---------- Radnik	0-3	Loam----------	CL-ML, CL	A-4	0	0	90-100	90-100	75-95	50-70	20-30	5-10
	3-60	Loam----------	CL-ML, CL	A-4	0	0	90-100	90-100	75-95	50-70	20-30	5-10
64*:												
Riverwash----	0-40	Variable------	---	---	---	---	---	---	---	---	---	---
	40	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Torrifluvents	0-40	Variable------	---	---	---	---	---	---	---	---	---	---
	40	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
65*:												
Rizno--------	0-1	Very channery sandy loam.	SM, SP-SM, GM, GP-GM	A-1	0	0-10	50-60	40-50	25-35	10-20	15-20	NP-5
	1-6	Channery sandy loam, channery loam.	SM, SC-SM, GM, GM-GC	A-2, A-4	0	0	55-85	50-75	35-65	25-45	15-25	NP-7
	6	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Bond---------	0-1	Gravelly sandy loam.	SM, SC-SM	A-1, A-2	0	0-10	60-80	55-75	30-50	15-30	15-20	NP-5
	1-13	Sandy clay loam.	SC-SM, SC	A-2, A-4	0	0	85-95	80-90	65-80	25-50	25-35	5-10
	13	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
66---------- Robroost	0-2	Fine sandy loam.	SM, SC-SM	A-2, A-4	0	0	85-95	80-90	55-75	30-45	5-15	NP-5
	2-8	Loam----------	SC, SC-SM	A-4	0	0	85-95	80-90	65-80	40-50	15-25	5-10
	8-55	Loam, sandy loam.	SC-SM, SC	A-2, A-4	0	0	85-95	80-90	50-75	30-45	15-25	5-10
	55-60	Gravelly loamy sand.	SP-SM, SM	A-1, A-2	0	0	60-80	55-75	25-55	10-15	0-0	NP
67---------- Ruesh	0-2	Very gravelly fine sandy loam.	GM, GM-GC	A-1, A-2	0	0	50-60	40-50	25-35	15-25	15-25	NP-7
	2-12	Fine sandy loam, sandy loam, loam.	SM, ML, CL-ML, SC-SM	A-2, A-4	0	0	95-100	90-100	60-85	30-60	15-25	NP-7
	12-29	Fine sandy loam, sandy loam.	SM, ML, CL-ML, SC-SM	A-2, A-4	0	0	95-100	90-100	60-85	30-60	15-25	NP-7
	29-32	Gypsiferous material.	SM, ML, CL-ML, SC-SM	A-2, A-4	0	0	95-100	90-100	60-85	30-60	15-25	NP-7
	32-40	Fine sandy loam, sandy loam.	SM, ML, CL-ML, SC-SM	A-2, A-4	0	0	95-100	90-100	60-85	30-60	15-30	NP-7
	40-60	Very cobbly sandy loam, very cobbly fine sandy loam.	SM, SC-SM	A-1, A-2	0	30-45	70-85	60-75	40-60	20-35	15-25	NP-7
68---------- Sedillo	0-2	Very cobbly loam.	SC-SM, SC, GM-GC, GC	A-2, A-4	5-10	30-45	55-75	50-70	40-60	30-45	15-25	5-10
	2-18	Very cobbly clay loam.	GC	A-6, A-7	5-10	30-45	55-75	50-70	45-70	35-50	30-45	10-20
	18-55	Very cobbly clay loam.	GC	A-6, A-7	5-10	30-45	55-75	50-70	45-70	35-50	30-45	10-20
	55-60	Cobbly loam---	SC-SM, SC, CL-ML, CL	A-4	0-5	15-25	85-95	80-90	65-85	45-60	15-25	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
69*:												
Showlow------	0-2	Very cobbly clay loam.	GC	A-6, A-7	0-5	40-50	60-70	50-60	45-60	35-45	30-45	10-20
	2-23	Clay----------	CL, CH	A-6, A-7	0	0	90-100	90-100	75-90	65-85	35-55	20-35
	23-41	Stony clay----	CL, CH	A-6, A-7	10-15	10-15	80-90	75-85	70-85	55-70	35-55	20-35
	41-60	Very cobbly clay.	GC	A-6, A-7	0-5	40-50	60-70	50-60	45-60	35-45	35-55	20-35
Thunderbird--	0-2	Very cobbly clay loam.	CL	A-6	0-5	40-60	75-90	70-85	65-85	51-65	30-40	10-20
	2-29	Clay----------	CL, CH	A-7	0	0	95-100	95-100	85-100	70-95	45-60	25-40
	29-34	Gravelly clay, gravelly clay loam.	CL, CH	A-6, A-7	0	0-15	80-90	70-80	65-80	51-70	35-55	15-35
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
70---------- Showlow	0-3	Very cobbly clay loam.	CL, GC	A-4, A-6	0-5	30-55	65-75	60-70	55-70	40-55	30-35	10-15
	3-42	Clay, silty clay.	CL	A-7	0	0	95-100	85-95	80-95	70-85	40-50	20-30
	42-60	Very gravelly clay loam.	GC	A-4, A-6	0	0-5	40-55	35-50	30-50	25-40	30-35	10-15
71---------- Sponiker	0-3	Loam----------	CL, CL-ML, SC, SC-SM	A-4	0	0-5	80-100	75-100	65-95	45-75	20-30	5-10
	3-8	Clay loam, gravelly clay loam.	CL, GC, SC	A-6	0	0-10	55-100	50-100	45-100	35-80	30-35	10-15
	8-60	Clay, gravelly clay.	CL, CH, GC, SC	A-7	0	0-10	55-100	50-100	45-100	40-95	45-65	25-45
72*:												
Springerville	0-1	Very cobbly clay loam.	SC, GC	A-6	0	35-45	55-75	50-70	45-70	35-45	30-40	10-15
	1-9	Clay loam-----	CL	A-6	0	0	90-100	90-100	80-100	65-75	30-40	10-15
	9-27	Clay----------	CL, CH	A-7	0	0	90-100	90-100	80-100	70-90	40-55	20-35
	27-32	Gravelly clay loam.	SC, GC	A-6	0	0	60-80	55-75	50-75	35-50	30-40	10-15
	32-42	Gravelly clay loam.	SC, GC	A-6	0	0	60-80	55-75	50-75	35-50	30-40	10-15
	42	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Delenbaw-----	0-2	Very cobbly loam.	GM-GC, GC	A-4	0-5	30-40	55-70	55-65	45-55	35-45	25-30	5-10
	2-10	Very cobbly clay loam.	CL	A-6, A-7	0	45-55	75-85	70-80	65-80	50-65	30-45	10-20
	10-30	Very cobbly clay.	CL, CH	A-7	0	45-55	75-85	70-80	65-80	55-75	40-60	20-35
	30-36	Gravelly clay	CL, CH	A-7	0	0	70-80	65-75	55-70	50-65	40-60	20-35
	36-60	Very cobbly clay loam.	SC, GC	A-6, A-7	0	20-30	65-80	60-70	55-65	40-50	30-45	10-20

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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
73---------- Strych	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	2-9	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	9-24	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	24-48	Extremely gravelly loam.	GP-GM, GM, GM-GC	A-1, A-2	0	0-10	20-30	15-25	15-25	10-15	20-25	NP-7
	48-60	Very gravelly clay loam.	GC	A-2	0	0-10	45-55	40-50	35-50	25-35	30-40	10-20
74*:												
Tanbark family------	0-2	Very cobbly fine sandy loam.	GM, GM-GC, SM, SC-SM	A-1, A-2	0-10	30-40	55-70	50-65	35-55	20-30	15-25	NP-5
	2-14	Fine sandy loam, loam.	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0-10	85-95	85-95	60-85	30-55	15-25	NP-5
	14-40	Weathered bedrock, gypsiferous material.	---	---	---	---	---	---	---	---	---	---
Strych family	0-3	Extremely cobbly fine sandy loam.	GM, GM-GC	A-1	0-5	60-70	45-60	40-55	30-50	15-25	15-25	NP-5
	3-13	Very cobbly loam, very cobbly fine sandy loam.	GM-GC, GM, SC-SM, SM	A-1, A-2, A-4	0-5	30-40	55-70	50-65	40-55	20-40	15-30	NP-7
	13-26	Very cobbly loam, very cobbly clay loam.	GM-GC, GC	A-2, A-4, A-6	0-5	30-40	55-70	50-65	45-60	30-49	20-40	5-20
	26-46	Very cobbly clay loam, very cobbly loam.	GM-GC, GC	A-2, A-4, A-6	0-5	30-40	55-70	50-65	45-60	30-49	20-40	5-20
	46	Weathered bedrock, gypsiferous material.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
75---------- Tanbark	0-1	Loam----------	SM, SC-SM	A-4	0	0	95-100	85-95	70-90	40-50	15-20	NP-5
	1-17	Sandy loam, gypsiferous material.	SM, SC-SM	A-2, A-4	0	0	95-100	95-100	55-70	25-45	0-15	NP-5
	17	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
76*:												
Tassi--------	0-1	Very gravelly loam.	GM-GC, GC	A-2, A-1	0	0-10	45-55	40-50	30-40	20-30	20-30	5-10
	1-10	Gravelly loam	GM-GC, GC, SC-SM, SC	A-2, A-4	0	0-10	60-80	55-75	50-70	30-50	20-30	5-10
	10-12	Indurated-----	---	---	---	---	---	---	---	---	---	---
	12-28	Cemented------	---	---	---	---	---	---	---	---	---	---
	28	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rizno--------	0-1	Very channery sandy loam.	SM, SP-SM, GM, GP-GM	A-1	0	0-10	50-60	40-50	25-35	10-20	15-20	NP-5
	1-6	Channery sandy loam, channery loam.	SM, SC-SM, GM, GM-GC	A-2, A-4	0	0	55-85	50-75	35-65	25-45	15-25	NP-7
	6	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
77---------- Tonopah	0-3	Gravelly loamy fine sand.	SP-SM, SM	A-1, A-2	0	0	70-80	65-75	30-55	10-20	10-15	NP-4
	3-8	Gravelly loamy fine sand.	SP-SM, SM	A-1, A-2	0	0	70-80	65-75	30-55	10-20	10-15	NP-4
	8-60	Very gravelly loamy sand, very gravelly loamy fine sand.	GP-GM, GM	A-1	0	0	40-55	35-50	20-40	5-15	10-15	NP-4
78*:												
Torriorthents	0-24	Variable------	---	---	---	---	---	---	---	---	---	---
	24	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
Calciorthids-	0-24	Variable------	---	---	---	---	---	---	---	---	---	---
	24	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
79---------- Tours	0-8	Silt loam-----	CL, CL-ML	A-4	0	0	100	95-100	85-100	65-90	20-30	5-10
	8-60	Stratified silty clay loam to silt loam.	CL	A-6	0	0	100	100	95-100	75-95	30-40	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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
80*:												
Tsezhin family------	0-4	Very cobbly loam.	GM-GC, GC	A-2, A-4	0-10	20-40	50-70	45-65	35-60	25-45	15-25	5-10
	4-14	Very cobbly clay loam, very cobbly loam.	GM-GC, GC	A-2, A-4, A-6	0-10	20-40	50-70	45-65	40-60	30-49	20-35	5-20
	14-33	Very cobbly clay loam, very cobbly loam.	GM-GC, GC	A-2, A-4, A-6	0-10	20-40	50-70	45-65	40-60	30-49	20-35	5-20
	33	Weathered bedrock, gypsiferous material.	---	---	---	---	---	---	---	---	---	---
Ashfork family------	0-2	Very cobbly loam.	GM-GC, GC	A-2, A-4	0-10	20-40	50-70	45-65	35-60	25-45	20-30	5-10
	2-8	Cobbly loam---	SC-SM, SC, CL-ML, CL	A-4	0	20-30	75-90	70-85	60-80	40-60	20-30	5-10
	8-38	Clay, clay loam.	CL, CH	A-6, A-7	0	0	90-100	90-100	80-100	65-85	35-55	15-35
	38-41	Cobbly clay, cobbly clay loam.	CL, CH	A-6, A-7	0	20-30	75-90	70-85	60-85	55-75	35-55	15-35
	41	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
81---------- Tsezhin	0-2	Very cobbly sandy loam.	SM, SC-SM, GM, GM-GC	A-1	5-15	25-40	55-65	50-60	30-40	15-25	5-15	NP-5
	2-6	Very cobbly loam.	GM-GC, GC	A-2, A-4	5-15	25-40	55-65	50-60	40-55	25-40	15-25	5-10
	6-37	Very cobbly clay loam.	GC	A-6	5-15	25-40	55-65	50-60	45-60	35-45	30-40	10-15
	37-45	Very cobbly sandy clay loam.	GM-GC, GC, SC-SM, SC	A-1, A-2	5-15	25-40	55-65	50-60	40-55	20-30	25-35	5-15
	45-60	Very cobbly sandy loam.	SM, SC-SM, GM, GM-GC	A-1	5-15	25-40	55-65	50-60	30-40	15-25	5-15	NP-5
82---------- Twist	0-2	Loam----------	SC-SM, SC, CL-ML, CL	A-4	0	0	85-100	75-95	65-90	40-60	15-25	5-10
	2-15	Loam, clay loam.	CL-ML, CL	A-4, A-6	0	0	95-100	85-100	75-95	55-75	15-35	5-15
	15-37	Sandy loam, sandy clay loam.	SC-SM, SC	A-2, A-4, A-6	0	0	85-100	75-95	55-75	25-45	20-35	5-15
	37-58	Sandy loam, loam.	SM, ML, CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-95	50-80	25-65	15-25	NP-5
	58-60	Gypsiferous material.	---	---	---	---	---	---	---	---	0-14	---

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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
83---------- Twist	0-2	Very cobbly loam.	SC-SM, SC, GM-GC, GC	A-2, A-4	5-10	25-35	60-70	50-60	40-55	25-40	20-30	5-10
	2-11	Clay loam-----	CL	A-6, A-7	0-5	0-5	85-95	80-90	70-90	55-70	30-45	10-20
	11-25	Clay loam-----	CL	A-6, A-7	0-5	0-5	85-95	80-90	70-90	55-70	30-45	10-20
	25-60	Cobbly loam---	CL-ML, CL, SC-SM, SC	A-4	0-5	15-20	85-95	80-90	70-85	45-65	20-30	5-10
84*:												
Virgin Peak--	0-2	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
	2-7	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
	7-17	Weathered bedrock.	---	---	---	---	---	---	---	---	---	---
	17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
85---------- Whiskey	0-5	Silt loam-----	ML, CL-ML, CL	A-4	0	0	80-100	75-100	70-100	50-90	15-30	NP-10
	5-60	Loam----------	CL, CL-ML, SC, SC-SM	A-4	0	0	80-100	75-100	65-95	45-75	20-30	5-10
86*, 87*:												
Winkel-------	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	2-5	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	5-13	Very cobbly loam.	GM, GM-GC, SM, SC-SM	A-4	0	30-45	65-80	60-75	55-70	35-50	20-25	NP-7
	13-32	Indurated-----	---	---	---	---	---	---	---	---	---	---
	32	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
88, 89-------- Winkel	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	2-5	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	45-55	40-50	35-50	20-30	20-25	NP-7
	5-13	Very cobbly loam.	GM, GM-GC, SM, SC-SM	A-4	0	30-45	65-80	60-75	55-70	35-50	20-25	NP-7
	13-32	Indurated-----	---	---	---	---	---	---	---	---	---	---
	32	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
90*:												
Wutoma-------	0-2	Extremely gravelly loam.	GP-GC, GM-GC, GC	A-1, A-2	0	0	20-30	15-25	15-25	5-15	20-30	5-10
	2-12	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0	40-55	35-50	30-45	20-35	20-30	5-10
	12-60	Cinders-------	---	---	---	---	---	---	---	---	---	---

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 > 10 inches	Frag- ments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct	Pct					Pct	
90*:												
Lozinta------	0-2	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0	40-55	35-50	30-45	20-35	20-30	5-10
	2-28	Very gravelly loam.	GM-GC, GC	A-1, A-2	0	0	40-55	35-50	30-45	20-35	20-30	5-10
	28-60	Cinders-------	---	---	---	---	---	---	---	---	---	---
91*---------- Yellowhorse family	0-3	Silty clay----	CL, CH	A-7	0	0	95-100	95-100	90-100	85-95	45-55	20-30
	3-41	Silty clay----	CL, CH	A-7	0	0	95-100	95-100	90-100	85-95	45-55	20-30
	41-60	Silty clay----	CL, CH	A-7	0	0	95-100	95-100	90-100	85-95	45-55	20-30
92*:												
Yellowhorse--	0-2	Cobbly loam---	CL-ML, CL, SC-SM, SC	A-2, A-4, A-6	0-5	10-30	75-90	70-85	65-80	30-60	20-30	4-15
	2-10	Clay loam-----	CL	A-6, A-7	0	0	90-100	85-100	80-100	60-80	30-45	15-25
	10-24	Clay----------	CH, CL	A-7	0	0	90-100	85-100	80-100	60-95	40-60	20-40
	24	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Luzena family	0-2	Very cobbly loam.	GM-GC, GC	A-2, A-4	0	20-40	50-70	45-65	35-60	25-45	20-30	5-10
	2-16	Clay----------	CL, CH	A-7	0	0-10	85-95	80-95	70-95	65-85	40-55	20-35
	16-19	Gravelly clay	CL, CH, GC	A-7	0	0-10	60-75	55-70	50-70	40-65	40-55	20-35
	19	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
93*:												
Yumtheska----	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	2-13	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	13	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Katzine------	0-8	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
	8-20	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
	20-31	Gravelly loam	GM, SM, GM-GC, SC-SM	A-2, A-4	0	0-5	60-80	55-75	30-50	25-45	20-30	NP-10
	31-60	Very gravelly loam.	GM, GM-GC, GC	A-1, A-2	0	0-5	40-55	35-50	30-45	20-35	20-30	NP-10
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
94*:												
Yumtheska----	0-1	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	1-10	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	10	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 > 10 inches	Fragments 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
94*:												
Katzine------	0-2	Extremely gravelly loam.	GP-GM, GM-GC, GM, GC	A-1, A-2	0	0-10	20-30	15-25	10-20	8-15	20-30	NP-10
	2-11	Very cobbly loam.	GM, SM, GM-GC, SC-SM	A-2, A-4	0-5	30-45	55-75	50-70	30-50	25-45	20-30	NP-10
	11-22	Very cobbly loam.	GM, SM, GM-GC, SC-SM	A-2, A-4	0-5	30-45	55-75	50-70	30-50	25-45	20-30	NP-10
	22-60	Very cobbly sandy loam.	SM, SC-SM, GM, GM-GC	A-1	0-5	30-45	55-75	50-70	25-50	15-25	15-20	NP-5
Rock outcrop-	0-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
95*:												
Yumtheska----	0-2	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	2-14	Very gravelly loam.	GM, GM-GC	A-1, A-2	0	0-10	40-50	35-50	30-50	20-30	15-30	NP-7
	14	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
Natank-------	0-1	Very gravelly loam.	GC, GM-GC	A-1, A-2, A-4	0	0-5	45-65	35-50	30-45	20-40	15-25	5-10
	1-6	Gravelly clay loam.	CL, GC	A-6	0	0-5	60-80	55-75	50-75	40-55	30-40	10-20
	6-17	Gravelly clay	CH, GC, CL	A-7	0	0-5	60-80	55-75	50-75	40-65	40-55	20-35
	17-28	Gravelly clay loam.	CL, GC	A-6	0	0-5	60-80	55-75	50-75	40-55	30-40	10-20
	28	Unweathered bedrock.	---	---	---	---	---	---	---	---	---	---
96*, 97*:												
Yurm family--	0-2	Very cobbly sandy loam.	SM, SC-SM	A-1	0-5	30-45	55-75	50-70	25-50	15-25	15-20	NP-5
	2-16	Very cobbly loam.	GC, SC, GM-GC, SC-SM	A-2, A-4	0-5	30-45	55-75	50-70	30-50	15-45	20-30	5-10
	16-60	Indurated-----	---	---	---	---	---	---	---	---	---	---
Meadview-----	0-11	Very gravelly sandy loam.	GM, GM-GC, GP-GM	A-1	0	0-10	40-55	35-50	20-35	10-20	15-20	NP-5
	11-23	Very gravelly sandy loam.	GM, GM-GC, GP-GM	A-1	0	0-10	40-55	35-50	20-35	10-20	15-20	NP-5
	23-60	Extremely gravelly sandy loam.	GP-GM	A-1	0	10-20	25-35	20-30	10-20	5-10	15-20	NP-5
98*, 99*------ Yurm family	0-2	Very gravelly loam.	GC, GM-GC	A-1, A-2	0	0-10	40-55	35-50	30-45	20-35	20-30	5-10
	2-16	Very gravelly loam.	GC, GM-GC	A-1, A-2	0	0-10	40-55	35-50	30-45	20-35	20-30	5-10
	16-60	Indurated-----	---	---	---	---	---	---	---	---	---	---

* 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
1*:												
Akinville-------	0-2	5-15	1.40-1.55	2.0-6.0	0.05-0.09	7.9-8.4	<4	Low-------	0.10	2	8	<1
	2-32	5-15	1.35-1.50	0.6-6.0	0.05-0.09	7.4-7.8	<4	Low-------	0.10			
	32-48	5-15	1.35-1.50	0.6-6.0	0.05-0.09	7.4-7.8	<4	Low-------	0.10			
	48-60	0-10	1.25-1.50	2.0-20	0.02-0.05	7.4-7.8	<4	Low-------	0.02			
Mokaac----------	0-3	2-10	1.35-1.45	6.0-20	0.04-0.05	7.9-8.4	<4	Low-------	0.10	5	8	<.5
	3-10	2-10	1.40-1.50	6.0-20	0.06-0.08	7.9-8.4	<4	Low-------	0.20			
	10-26	1-3	1.40-1.50	6.0-20	0.01-0.02	7.4-7.8	2-4	Low-------	0.05			
	26-32	2-10	1.50-1.60	6.0-20	0.06-0.08	7.4-7.8	2-4	Low-------	0.24			
	32-41	2-10	1.40-1.50	6.0-20	0.02-0.03	7.4-7.8	2-4	Low-------	0.15			
	41-60	7-30	1.20-1.50	0.2-0.6	0.12-0.14	7.9-8.4	2-4	Moderate	0.32			
2---------- Albers	0-2	40-59	1.15-1.30	0.06-0.2	0.15-0.17	6.6-8.4	0-0	High------	0.32	5	4	1-2
	2-47	40-59	1.15-1.30	0.01-0.06	0.14-0.16	6.6-8.4	0-0	High------	0.20			
	47-60	40-59	1.15-1.30	0.00-0.06	0.14-0.16	6.6-7.8	0-0	High------	0.20			
3*---------- Arada family	0-3	0-10	1.50-1.60	6.0-20	0.09-0.11	7.9-8.4	0-2	Low-------	0.20	5	2	0-.5
	3-26	0-10	1.50-1.60	6.0-20	0.09-0.11	7.9-9.0	0-2	Low-------	0.17			
	26-49	0-10	1.50-1.60	6.0-20	0.09-0.11	7.9-9.0	0-2	Low-------	0.17			
	49-60	0-10	1.50-1.60	6.0-20	0.03-0.07	7.9-9.0	2-4	Low-------	0.15			
4*---------- Arizo	0-3	5-15	1.35-1.55	2.0-6.0	0.05-0.11	7.9-8.4	0-2	Low-------	0.10	5	5	0-.5
	3-60	1-6	1.45-1.65	6.0-20	0.02-0.05	7.9-8.4	0-2	Low-------	0.05			
5*---------- Arizo	0-10	5-15	1.40-1.55	2.0-6.0	0.05-0.07	7.9-8.4	0-2	Low-------	0.10	5	5	0-.5
	10-60	1-6	1.45-1.65	6.0-20	0.02-0.05	7.9-8.4	0-2	Low-------	0.05			
6*---------- Badland	0-1	---	---	---	---	---	2-16	----------	----	---	---	---
	1-60	---	---	---	---	---	2-16	High------	----			
7*:												
Bard family-----	0-2	2-8	1.45-1.55	6.0-20	0.04-0.07	7.9-9.0	0-4	Low-------	0.10	1	2	0-.5
	2-5	2-8	1.45-1.55	6.0-20	0.05-0.08	7.9-9.0	0-4	Low-------	0.15			
	5-17	5-8	1.45-1.65	2.0-6.0	0.07-0.09	7.9-9.0	0-4	Low-------	0.15			
	17-60	---	---	---	---	---	---	----------	----			
Tonopah---------	0-3	1-5	1.40-1.50	>20	0.07-0.09	7.9-8.4	0-2	Low-------	0.10	2	3	0-.5
	3-8	1-5	1.40-1.50	>20	0.07-0.09	7.9-9.0	0-2	Low-------	0.10			
	8-60	1-5	1.35-1.45	>20	0.04-0.08	7.9-9.0	0-2	Low-------	0.05			
Arada family----	0-2	0-10	1.50-1.60	6.0-20	0.09-0.11	7.9-8.4	0-2	Low-------	0.20	5	2	0-.5
	2-26	0-10	1.50-1.60	6.0-20	0.09-0.11	7.9-9.0	0-2	Low-------	0.17			
	26-49	0-10	1.50-1.60	6.0-20	0.09-0.11	7.9-9.0	0-2	Low-------	0.17			
	49-60	0-10	1.50-1.60	6.0-20	0.03-0.07	7.9-9.0	2-4	Low-------	0.15			
8---------- Barx	0-1	5-20	1.40-1.55	2.0-6.0	0.12-0.14	7.9-8.4	0-2	Low-------	0.24	3	3	.5-1
	1-5	27-35	1.20-1.30	0.2-0.6	0.17-0.19	7.9-8.4	0-2	Moderate	0.28			
	5-21	27-35	1.20-1.30	0.2-0.6	0.17-0.19	7.9-8.4	0-2	Moderate	0.28			
	21-33	10-27	1.40-1.50	0.6-2.0	0.14-0.16	7.9-8.4	0-2	Low-------	0.32			
	33-50	27-35	1.20-1.30	0.2-0.6	0.17-0.19	7.9-8.4	0-2	Moderate	0.28			
	50-60	5-20	1.40-1.55	2.0-6.0	0.10-0.12	7.9-9.0	0-2	Low-------	0.20			

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
9*:												
Barx----------	0-1	10-27	1.40-1.50	0.6-2.0	0.09-0.13	7.9-8.4	0-2	Low--------	0.24	5	4L	.5-1
	1-3	10-27	1.40-1.50	0.6-2.0	0.14-0.16	7.9-8.4	0-2	Low--------	0.32			
	3-12	27-35	1.20-1.30	0.2-0.6	0.17-0.19	7.9-8.4	0-2	Moderate	0.28			
	12-24	27-35	1.20-1.30	0.2-0.6	0.17-0.19	7.9-8.4	0-2	Moderate	0.28			
	24-42	10-27	1.40-1.50	0.6-2.0	0.14-0.16	7.9-8.4	0-2	Low--------	0.32			
	42-60	5-20	1.45-1.65	2.0-6.0	0.07-0.09	7.9-9.0	0-2	Low--------	0.15			
Strych----------	0-2	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10	4	8	0-1
	2-7	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	7-45	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	45-60	3-10	1.40-1.55	6.0-20	0.03-0.05	7.9-9.0	0-2	Low--------	0.05			
10*:												
Berzatic family-	0-2	7-18	1.30-1.40	0.6-2.0	0.02-0.06	7.9-8.4	0-2	Low--------	0.05	1	8	0-.5
	2-6	7-18	1.30-1.40	0.6-2.0	0.02-0.06	7.9-8.4	0-2	Low--------	0.05			
	6	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
Goblin----------	0-1	5-20	1.15-1.25	2.0-6.0	0.09-0.12	7.4-7.8	2-4	Low--------	0.17	2	3	0-1
	1-10	5-20	1.20-1.35	2.0-6.0	0.11-0.13	7.4-7.8	2-4	Low--------	0.32			
	10	---	---	---	---	---	---	----------	----			
11*:												
Bisoodi---------	0-1	10-20	1.35-1.45	0.6-2.0	0.13-0.15	7.9-8.4	0-2	Low--------	0.20	1	4L	1-2
	1-6	10-20	1.40-1.50	0.6-2.0	0.14-0.17	7.9-8.4	0-2	Low--------	0.24			
	6-17	10-20	1.40-1.50	0.6-2.0	0.14-0.17	7.9-8.4	0-2	Low--------	0.24			
	17	---	---	---	---	---	---	----------	----			
Anasazi family--	0-1	5-18	1.40-1.55	2.0-6.0	0.12-0.15	7.9-8.4	0-2	Low--------	0.24	2	3	.5-1
	1-12	5-20	1.40-1.50	0.6-6.0	0.12-0.17	7.9-8.4	0-2	Low--------	0.28			
	12-34	10-27	1.40-1.50	0.6-2.0	0.14-0.17	7.9-9.0	0-2	Low--------	0.32			
	34	---	---	---	---	---	---	----------	----			
12*:												
Blind family----	0-3	5-20	1.40-1.55	2.0-6.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10	5	8	0-.5
	3-16	8-25	1.35-1.45	0.6-2.0	0.07-0.11	7.9-8.4	0-2	Low--------	0.10			
	16-28	20-35	1.20-1.30	0.6-2.0	0.06-0.10	7.9-8.4	0-2	Low--------	0.10			
	28-50	5-20	1.40-1.55	2.0-6.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10			
	50-60	2-10	1.35-1.45	6.0-20	0.03-0.05	7.9-9.0	0-2	Low--------	0.05			
Shelley---------	0-2	5-10	1.40-1.55	2.0-6.0	0.04-0.06	7.9-8.4	0-4	Low--------	0.10	5	8	.5-1
	2-13	5-10	1.40-1.55	2.0-6.0	0.04-0.06	7.9-9.0	0-4	Low--------	0.10			
	13-33	0-5	1.55-1.65	6.0-20	0.03-0.05	7.9-9.0	0-4	Low--------	0.05			
	33-60	0-5	1.55-1.65	6.0-20	0.03-0.05	7.9-9.0	0-4	Low--------	0.05			
13*:												
Blind family----	0-3	5-20	1.20-1.30	2.0-6.0	0.04-0.08	7.9-8.4	0-2	Low--------	0.10	5	8	0-.5
	3-16	8-25	1.30-1.40	0.6-2.0	0.05-0.11	7.9-8.4	0-2	Low--------	0.10			
	16-28	20-35	1.40-1.50	0.6-2.0	0.05-0.10	7.9-8.4	0-2	Low--------	0.10			
	28-50	5-20	1.20-1.30	2.0-6.0	0.04-0.08	7.9-8.4	0-2	Low--------	0.10			
	50-60	2-10	1.35-1.45	6.0-20	0.02-0.05	7.9-9.0	0-2	Low--------	0.05			
Shelley---------	0-2	5-18	1.55-1.65	2.0-6.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10	5	8	0-.5
	2-8	5-18	1.45-1.60	2.0-6.0	0.07-0.10	7.9-8.4	0-2	Low--------	0.15			
	8-30	2-10	1.55-1.65	6.0-20	0.01-0.03	7.9-9.0	0-2	Low--------	0.02			
	30-60	0-5	1.55-1.65	6.0-20	0.02-0.04	7.9-9.0	0-2	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
14*:												
Boquillas family	0-3	27-40	1.10-1.20	0.2-0.6	0.08-0.10	6.6-7.8	0-2	Moderate	0.05	2	8	1-2
	3-13	40-55	1.25-1.35	0.06-0.2	0.07-0.14	6.6-7.8	0-2	High------	0.10			
	13-23	35-55	1.30-1.60	0.06-0.2	0.09-0.14	7.4-8.4	0-2	High------	0.17			
	23	---	---	---	---	---	---	----------	----			
Showlow---------	0-1	30-40	1.10-1.20	0.2-0.6	0.08-0.10	7.4-7.8	0-2	Moderate	0.10	5	8	1-2
	1-23	40-50	1.30-1.60	0.06-0.2	0.14-0.16	7.4-7.8	0-2	High------	0.20			
	23-38	40-50	1.40-1.50	0.06-0.2	0.12-0.16	7.4-8.4	0-2	High------	0.10			
	38-60	40-50	1.30-1.40	0.06-0.2	0.02-0.06	7.9-8.4	0-2	Moderate	0.05			
15*:												
Carrizo---------	0-3	2-10	1.40-1.55	>20	0.03-0.05	7.9-8.4	0-2	Low-------	0.05	5	8	0-.5
	3-60	0-10	1.55-1.65	>20	0.02-0.05	7.9-8.4	0-2	Low-------	0.05			
Carrizo---------	0-4	2-10	1.40-1.55	>20	0.03-0.05	7.9-8.4	0-2	Low-------	0.05	5	8	0-.5
	4-60	0-10	1.55-1.65	>20	0.02-0.05	7.9-8.4	0-2	Low-------	0.05			
16*:												
Cave----------	0-2	5-15	1.35-1.45	2.0-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.15	1	4	0-.5
	2-11	5-15	1.35-1.45	2.0-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.15			
	11-60	---	---	---	---	---	---	----------	----			
Harrisburg------	0-2	7-18	1.35-1.45	2.0-6.0	0.09-0.13	7.9-8.4	0-4	Low-------	0.17	2	4	0-.5
	2-18	7-18	1.40-1.55	2.0-6.0	0.11-0.15	7.9-8.4	0-4	Low-------	0.24			
	18-26	7-18	1.35-1.45	2.0-6.0	0.09-0.13	7.9-8.4	0-4	Low-------	0.17			
	26-60	---	---	---	---	---	---	----------	----			
Grapevine-------	0-4	5-15	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low-------	0.17	5	3	0-.5
	4-25	5-15	1.40-1.55	0.6-2.0	0.11-0.14	7.9-8.4	0-2	Low-------	0.24			
	25-60	5-15	1.40-1.55	0.6-2.0	0.11-0.14	7.9-8.4	0-4	Low-------	0.24			
17*:												
Chic----------	0-2	10-20	1.30-1.40	0.6-2.0	0.05-0.07	7.9-8.4	0-2	Low-------	0.05	2	8	0-1
	2-9	10-20	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low-------	0.10			
	9-27	5-20	1.30-1.40	0.6-6.0	0.03-0.07	7.9-9.0	0-2	Low-------	0.05			
	27-60	0-0	1.40-1.50	>20	0.01-0.02	0-0	0-0	Low-------	----			
Teesto----------	0-2	18-25	1.30-1.40	0.6-2.0	0.03-0.07	7.4-8.4	0-2	Low-------	0.10	1	8	.5-1
	2-10	18-25	1.30-1.40	0.6-2.0	0.03-0.07	7.4-8.4	0-2	Low-------	0.10			
	10	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
18*:												
Childers--------	0-3	5-18	1.35-1.45	0.6-2.0	0.11-0.15	7.4-8.4	0-2	Low-------	0.24	1	4L	.5-1
	3-16	5-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-9.0	0-2	Low-------	0.10			
	16-22	---	---	---	---	---	---	----------	----			
	22	---	---	---	---	---	---	----------	----			
Rizno----------	0-1	10-15	1.45-1.65	2.0-6.0	0.05-0.07	7.9-8.4	0-2	Low-------	0.10	1	8	.5-1
	1-6	10-20	1.40-1.55	2.0-6.0	0.08-0.11	7.9-8.4	0-2	Low-------	0.17			
	6	---	---	---	---	---	---	----------	----			
19---------- Dera	0-2	5-18	1.40-1.55	2.0-6.0	0.05-0.09	7.9-8.4	0-2	Low-------	0.10	2	8	0-.5
	2-9	7-18	1.35-1.45	0.6-2.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.20			
	9-42	7-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-9.0	0-2	Low-------	0.10			
	42-60	5-18	1.35-1.45	2.0-6.0	0.05-0.07	7.9-8.4	0-2	Low-------	0.10			

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
20*:												
Dermala family--	0-2	18-25	1.30-1.40	0.6-2.0	0.03-0.07	7.4-8.4	0-2	Low-------	0.10	5	8	.5-1
	2-8	18-35	1.35-1.50	0.2-2.0	0.07-0.09	7.4-8.4	0-2	Moderate	0.10			
	8-24	18-35	1.35-1.50	0.2-2.0	0.12-0.16	7.4-8.4	0-2	Moderate	0.20			
	24-38	18-35	1.35-1.50	0.2-2.0	0.12-0.16	7.9-8.4	0-2	Moderate	0.20			
	38-60	18-35	1.35-1.50	0.2-2.0	0.12-0.16	7.9-8.4	0-2	Moderate	0.20			
Guy family------	0-4	18-27	1.30-1.40	0.6-2.0	0.07-0.12	7.4-8.4	0-2	Low-------	0.20	3	8	.5-1
	4-8	18-35	1.30-1.40	0.2-2.0	0.10-0.15	7.4-8.4	0-2	Low-------	0.20			
	8-28	10-27	1.30-1.40	0.6-2.0	0.08-0.15	7.9-8.4	0-2	Low-------	0.20			
	28-40	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
21*:												
Disterheff------	0-2	10-25	1.35-1.45	0.6-2.0	0.07-0.09	6.6-7.8	0-2	Low-------	0.10	5	8	1-2
	2-5	27-35	1.20-1.30	0.2-0.6	0.14-0.17	6.6-7.8	0-2	Moderate	0.28			
	5-14	40-55	1.30-1.60	0.06-0.2	0.09-0.14	6.6-7.8	0-2	High------	0.10			
	14-32	40-55	1.30-1.60	0.00-0.06	0.14-0.16	6.6-7.8	0-2	High------	0.17			
	32-41	40-55	1.30-1.60	0.06-0.2	0.09-0.14	7.4-8.4	0-2	High------	0.10			
	41-60	27-35	1.20-1.30	0.2-0.6	0.14-0.18	7.4-8.4	0-2	Moderate	0.17			
Natank----------	0-1	10-25	1.35-1.45	0.6-2.0	0.07-0.12	6.6-7.8	0-2	Low-------	0.10	2	8	1-2
	1-3	27-40	1.20-1.30	0.2-0.6	0.17-0.21	6.6-7.8	0-2	Moderate	0.24			
	3-16	40-55	1.30-1.60	0.06-0.2	0.12-0.16	6.6-7.8	0-2	High------	0.17			
	16-25	27-40	1.40-1.50	0.2-0.6	0.13-0.18	7.9-8.4	0-2	Moderate	0.17			
	25-37	18-27	1.30-1.40	0.6-2.0	0.11-0.15	7.9-8.4	0-2	Low-------	0.20			
	37	---	---	---	---	---	---	----------	----			
Yumtheska-------	0-2	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.4-8.4	0-2	Low-------	0.10	1	8	1-2
	2-14	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low-------	0.10			
	14	---	---	---	---	---	---	----------	----			
22*:												
Dutchman--------	0-2	5-15	1.25-1.55	2.0-6.0	0.06-0.14	7.9-8.4	0-4	Low-------	0.20	5	3	.5-1
	2-20	5-20	1.40-1.55	0.6-2.0	0.10-0.17	7.9-9.0	0-4	Low-------	0.32			
	20-33	5-15	1.40-1.55	0.6-2.0	0.10-0.15	7.4-7.8	2-4	Low-------	0.28			
	33-60	5-15	1.20-1.35	2.0-6.0	0.10-0.15	7.4-7.8	2-4	Low-------	0.28			
McCullan--------	0-1	10-20	1.35-1.45	0.6-2.0	0.09-0.13	7.9-8.4	2-4	Low-------	0.24	2	4	<1
	1-6	5-20	1.40-1.55	0.6-6.0	0.10-0.17	7.9-8.4	2-4	Low-------	0.32			
	6-25	5-15	1.05-1.15	2.0-6.0	0.10-0.15	7.4-7.8	2-4	Low-------	0.24			
	25-41	5-15	1.20-1.35	2.0-6.0	0.10-0.15	7.4-7.8	2-4	Low-------	0.24			
	41-60	5-15	1.20-1.35	2.0-6.0	0.10-0.15	7.4-7.8	2-4	Moderate	0.24			
23---------- Goblin	0-1	5-20	1.15-1.25	2.0-6.0	0.09-0.12	7.4-7.8	2-4	Low-------	0.17	2	3	0-1
	1-10	5-20	1.20-1.35	2.0-6.0	0.11-0.13	7.4-7.8	2-4	Low-------	0.32			
	10	---	---	---	---	---	---	----------	----			
24*:												
Goblin----------	0-1	5-20	1.15-1.25	2.0-6.0	0.09-0.12	7.4-7.8	2-4	Low-------	0.17	2	3	0-1
	1-14	5-20	1.20-1.35	2.0-6.0	0.11-0.13	7.4-7.8	2-4	Low-------	0.32			
	14	---	---	---	---	---	---	----------	----			
Gyppocket-------	0-2	10-20	1.40-1.50	6.0-20	0.03-0.05	7.9-8.4	2-4	Low-------	0.10	3	8	.5-1
	2-12	10-20	1.30-1.40	0.6-2.0	0.03-0.07	7.9-8.4	2-4	Low-------	0.10			
	12-22	10-20	1.20-1.30	2.0-6.0	0.03-0.06	7.4-7.8	2-4	Low-------	0.17			
	22-60	1-10	1.40-1.50	6.0-20	0.03-0.05	7.4-7.8	2-4	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
25---------- Goesling	0-2	10-20	1.40-1.50	0.6-2.0	0.15-0.18	7.4-8.4	0-2	Low--------	0.37	5	4L	1-3
	2-9	10-20	1.40-1.50	0.6-2.0	0.14-0.18	7.4-8.4	0-2	Low--------	0.37			
	9-33	27-35	1.20-1.30	0.2-0.6	0.18-0.21	7.9-8.4	0-2	Moderate	0.32			
	33-60	27-35	1.20-1.30	0.2-0.6	0.18-0.21	7.9-8.4	0-2	Moderate	0.32			
26*:												
Grapevine--------	0-4	5-15	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.17	5	3	0-.5
	4-13	5-15	1.40-1.55	0.6-2.0	0.11-0.14	7.9-8.4	0-2	Low--------	0.24			
	13-60	5-15	1.40-1.55	0.6-2.0	0.11-0.14	7.9-8.4	0-4	Low--------	0.24			
Hobcan----------	0-1	5-18	1.25-1.55	0.6-2.0	0.11-0.17	7.9-8.4	2-4	Low--------	0.37	5	3	0-.5
	1-8	5-18	1.00-1.20	0.6-2.0	0.14-0.16	7.9-8.4	2-4	Low--------	0.28			
	8-15	5-18	1.00-1.20	0.6-2.0	0.13-0.16	7.4-8.4	2-4	Low--------	0.28			
	15-51	8-18	1.35-1.45	0.6-2.0	0.14-0.16	7.4-8.4	2-4	Low--------	0.32			
	51-60	5-18	1.00-1.20	0.6-2.0	0.13-0.16	7.4-8.4	2-4	Low--------	0.28			
27*:												
Grapevine--------	0-4	5-15	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.17	5	3	0-.5
	4-60	5-15	1.40-1.55	0.6-2.0	0.11-0.14	7.9-8.4	0-2	Low--------	0.24			
Shelley----------	0-2	5-18	1.45-1.65	2.0-6.0	0.05-0.08	7.9-8.4	0-4	Low--------	0.10	5	8	.5-1
	2-11	5-18	1.45-1.65	2.0-6.0	0.05-0.08	7.9-9.0	0-4	Low--------	0.10			
	11-17	5-10	1.40-1.55	2.0-6.0	0.03-0.05	7.9-9.0	0-4	Low--------	0.10			
	17-60	5-10	1.40-1.55	2.0-6.0	0.03-0.05	7.9-9.0	0-4	Low--------	0.10			
28*:												
Gypill----------	0-2	5-15	1.10-1.20	0.6-2.0	0.12-0.15	7.4-8.4	<4	Low--------	0.24	2	3	<1
	2-6	3-10	1.00-1.20	0.6-2.0	0.10-0.16	7.4-8.4	<4	Low--------	0.32			
	6-10	---	---	---	---	---	---	----------	----			
	10-60	---	---	---	---	---	---	----------	----			
Badland----------	0-1	---	---	---	---	---	2-16	----------	----	---	---	---
	1-60	---	---	---	---	---	2-16	High------	----			
29---------- Gypill	0-2	5-15	1.10-1.20	0.6-2.0	0.12-0.15	7.4-8.4	<4	Low--------	0.24	2	3	<1
	2-6	3-10	1.00-1.20	0.6-2.0	0.10-0.16	7.4-8.4	<4	Low--------	0.32			
	6-10	---	---	---	---	---	---	----------	----			
	10-60	---	---	---	---	---	---	----------	----			
30*:												
Gypill----------	0-2	5-15	1.10-1.20	0.6-2.0	0.12-0.15	7.4-8.4	<4	Low--------	0.24	2	3	<1
	2-12	3-10	1.00-1.20	0.6-2.0	0.10-0.16	7.4-8.4	<4	Low--------	0.32			
	12-60	---	---	---	---	---	---	----------	----			
Hobog----------	0-2	5-18	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	2-12	5-18	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10			
	12	---	---	---	---	---	---	----------	----			
31---------- Gypill	0-2	5-15	1.10-1.20	0.6-2.0	0.04-0.10	7.4-8.4	2-4	Low--------	0.10	1	4L	.5-1
	2-10	3-10	1.00-1.20	0.6-2.0	0.10-0.16	7.4-8.4	2-4	Low--------	0.32			
	10-18	---	---	---	---	---	---	----------	----			
	18-60	---	---	---	---	---	---	----------	----			
32*:												
Gypisorthids----	0-60	---	---	---	---	---	---	Low--------	----	5	---	.5-1
Gypisorthids, shallow--------	0-7	---	---	---	---	---	---	Low--------	----	2	---	.5-1
	7	---	---	---	---	---	---	----------	----			

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
33---------- Havasupai	0-2	8-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	2-14	8-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	14-18	---	---	---	---	---	---	----------	----			
	18-48	8-18	1.35-1.45	0.2-0.6	0.03-0.06	7.9-9.0	0-2	Low--------	0.10			
	48-60	1-5	1.35-1.45	>20	0.04-0.08	7.9-9.0	0-2	Low--------	0.05			
34*:												
Hindu----------	0-1	8-18	1.30-1.40	0.6-2.0	0.04-0.07	7.9-8.4	0-2	Low--------	0.05	1	8	0-.5
	1-7	8-18	1.30-1.40	0.6-2.0	0.04-0.07	7.9-8.4	0-2	Low--------	0.05			
	7	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
Gypill----------	0-2	5-15	1.10-1.20	0.6-2.0	0.12-0.15	7.4-8.4	<4	Low--------	0.24	2	3	<1
	2-6	3-10	1.00-1.20	0.6-2.0	0.10-0.16	7.4-8.4	<4	Low--------	0.32			
	6-60	---	---	---	---	---	---	----------	----			
35---------- Hobcan	0-2	5-18	1.25-1.55	2.0-6.0	0.07-0.14	7.9-8.4	2-4	Low--------	0.28	5	3	0-.5
	2-14	5-18	1.00-1.20	0.6-2.0	0.14-0.16	7.9-8.4	2-4	Low--------	0.28			
	14-19	5-18	1.00-1.20	0.6-2.0	0.13-0.16	7.4-8.4	2-4	Low--------	0.28			
	19-60	5-18	1.00-1.20	0.6-2.0	0.13-0.16	7.4-8.4	2-4	Low--------	0.28			
36*:												
Hobog----------	0-2	5-18	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	2-12	5-18	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10			
	12	---	---	---	---	---	---	----------	----			
Grapevine-------	0-2	5-15	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.17	5	3	0-.5
	2-35	5-15	1.40-1.55	0.6-2.0	0.11-0.14	7.9-8.4	0-2	Low--------	0.24			
	35-60	5-15	1.40-1.55	0.6-2.0	0.11-0.14	7.9-8.4	0-4	Low--------	0.24			
37*:												
Hobog----------	0-2	5-18	1.40-1.55	0.6-2.0	0.06-0.09	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	2-12	5-18	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10			
	12	---	---	---	---	---	---	----------	----			
Grapevine-------	0-2	5-15	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.17	5	3	0-.5
	2-35	5-15	1.40-1.55	0.6-2.0	0.11-0.14	7.9-8.4	0-2	Low--------	0.24			
	35-60	5-15	1.40-1.55	0.6-2.0	0.11-0.14	7.9-8.4	0-4	Low--------	0.24			
38*:												
Hobog----------	0-4	5-18	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	4-19	5-18	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10			
	19	---	---	---	---	---	---	----------	----			
Tidwell family--	0-2	5-15	1.40-1.55	2.0-6.0	0.05-0.09	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	2-6	7-18	1.35-1.45	0.6-2.0	0.09-0.13	7.9-8.4	0-2	Low--------	0.20			
	6	---	---	---	---	---	---	----------	----			
39---------- Hobog	0-4	5-18	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	4-19	5-18	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-2	Low--------	0.10			
	19	---	---	---	---	---	---	----------	----			
40---------- Ivanpatch	0-2	5-18	1.40-1.50	2.0-6.0	0.06-0.08	7.4-8.4	2-4	Low--------	0.24	5	3	.5-1
	2-11	7-18	1.30-1.40	0.6-2.0	0.15-0.17	7.4-8.4	2-4	Low--------	0.28			
	11-60	7-18	1.30-1.40	0.6-2.0	0.15-0.17	7.4-8.4	2-4	Low--------	0.28			
41---------- Ives	0-2	8-25	1.40-1.50	0.6-2.0	0.15-0.17	7.9-8.4	2-4	Low--------	0.37	5	4L	0-.5
	2-60	5-18	1.40-1.50	0.6-2.0	0.13-0.17	7.9-8.4	2-4	Low--------	0.32			

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
42*:												
Katzine---------	0-1	8-18	1.30-1.40	0.6-2.0	0.03-0.07	7.4-8.4	0-2	Low-------	0.10	5	8	1-2
	1-10	8-18	1.30-1.40	0.6-2.0	0.03-0.07	7.9-8.4	0-2	Low-------	0.10			
	10-60	5-18	1.20-1.30	2.0-6.0	0.03-0.06	7.9-8.4	0-2	Low-------	0.10			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
Yumtheska-------	0-1	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.4-8.4	0-2	Low-------	0.10	1	8	1-2
	1-10	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low-------	0.10			
	10	---	---	---	---	---	---	----------	----			
43*:												
Meadview--------	0-5	5-18	1.20-1.30	2.0-6.0	0.05-0.08	7.9-8.4	0-4	Low-------	0.10	5	8	0-.5
	5-19	5-18	1.20-1.30	2.0-6.0	0.05-0.08	7.9-8.4	0-4	Low-------	0.10			
	19-60	5-18	1.25-1.35	0.6-2.0	0.03-0.06	7.9-8.4	0-4	Low-------	0.10			
Cave----------	0-2	5-18	1.20-1.30	2.0-6.0	0.07-0.10	7.9-8.4	0-2	Low-------	0.10	1	8	0-.5
	2-9	5-18	1.20-1.30	2.0-6.0	0.07-0.10	7.9-8.4	0-2	Low-------	0.10			
	9-60	---	---	---	---	---	---	----------	----			
44---------- Meadview	0-2	5-15	1.40-1.55	2.0-6.0	0.05-0.08	7.9-8.4	0-4	Low-------	0.10	5	8	0-.5
	2-6	5-15	1.40-1.55	2.0-6.0	0.05-0.08	7.9-8.4	0-4	Low-------	0.10			
	6-50	5-15	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-4	Low-------	0.10			
	50-60	3-10	1.40-1.55	6.0-20	0.03-0.05	7.9-8.4	0-4	Low-------	0.05			
45*:												
Mellenthin------	0-2	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10	1	8	.5-1
	2-10	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10			
	10	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
Torriorthents---	0-40	---	---	---	---	7.9-8.4	0-2	Low-------	----	1	8	.5-1
	40	---	---	---	---	---	---	----------	----			
46*, 47*:												
Mellenthin------	0-2	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10	1	8	.5-1
	2-17	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10			
	17	---	---	---	---	---	---	----------	----			
Strych----------	0-2	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10	4	8	0-1
	2-24	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10			
	24-48	10-18	1.30-1.40	0.6-2.0	0.03-0.06	7.9-9.0	0-2	Low-------	0.05			
	48-60	27-35	1.35-1.55	0.6-2.0	0.07-0.09	7.9-9.0	0-2	Low-------	0.10			
48*:												
Mellenthin------	0-2	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10	1	8	.5-1
	2-6	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10			
	6-17	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10			
	17	---	---	---	---	---	---	----------	----			
Tanbark---------	0-1	7-10	1.15-1.25	0.6-2.0	0.15-0.17	7.4-8.4	2-4	Low-------	0.32	1	4	0-1
	1-17	2-10	1.25-1.35	2.0-6.0	0.10-0.12	7.4-7.8	2-4	Low-------	0.24			
	17	---	---	---	---	---	---	----------	----			
49*:												
Mellethin-------	0-2	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10	1	8	.5-1
	2-6	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10			
	6-17	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low-------	0.10			
	17	---	---	---	---	---	---	----------	----			

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
49*:												
Tanbark---------	0-1	7-10	1.15-1.25	0.6-2.0	0.15-0.17	7.4-8.4	2-4	Low--------	0.32	1	4	0-1
	1-17	2-10	1.25-1.35	2.0-6.0	0.10-0.12	7.4-7.8	2-4	Low--------	0.24			
	17	---	---	---	---	---	---	----------	----			
50*:												
Mellenthin------	0-3	10-15	1.40-1.55	0.6-2.0	0.05-0.09	7.9-8.4	0-2	Low--------	0.10	1	8	.5-1
	3-8	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	8	---	---	---	---	---	---	----------	----			
Tanbark---------	0-1	7-10	1.15-1.25	0.6-2.0	0.15-0.17	7.4-8.4	2-4	Low--------	0.32	1	4	0-1
	1-10	2-10	1.25-1.35	2.0-6.0	0.10-0.12	7.4-7.8	2-4	Low--------	0.24			
	10	---	---	---	---	---	---	----------	----			
51*:												
Merwhitica------	0-1	8-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10	1	8	.5-1
	1-6	8-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10			
	6	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
_Strych----------	0-2	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10	4	8	0-1
	2-10	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	10-60	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
52*:												
Meriwhitica-----	0-1	8-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10	1	8	.5-1
	1-6	8-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10			
	6	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
Strych----------	0-2	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10	4	8	0-1
	2-10	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	10-60	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
53*:												
Mespun----------	0-6	1-5	1.50-1.60	6.0-20	0.05-0.07	7.9-8.4	0-2	Low--------	0.20	5	1	0-1
	6-60	1-5	1.50-1.60	6.0-20	0.03-0.06	7.9-8.4	0-2	Low--------	0.20			
Mespun----------	0-2	1-5	1.50-1.60	6.0-20	0.05-0.07	7.9-8.4	0-2	Low--------	0.20	5	1	0-1
	2-34	5-10	1.50-1.60	2.0-6.0	0.06-0.08	7.9-8.4	0-2	Low--------	0.20			
	34-54	1-5	1.50-1.60	6.0-20	0.03-0.06	7.9-8.4	0-2	Low--------	0.20			
	54-60	5-10	1.50-1.60	2.0-6.0	0.04-0.07	7.9-8.4	0-2	Low--------	0.10			
54*:												
Moenkopie-------	0-1	5-18	1.35-1.45	2.0-6.0	0.09-0.12	7.9-8.4	0-2	Low--------	0.20	1	3	0-.5
	1-8	7-18	1.40-1.50	0.6-2.0	0.14-0.17	7.9-8.4	0-2	Low--------	0.32			
	8-10	7-18	1.35-1.45	0.6-2.0	0.11-0.14	7.9-8.4	0-2	Low--------	0.24			
	10	---	---	---	---	---	---	----------	----			
Goblin----------	0-1	5-20	1.15-1.25	2.0-6.0	0.09-0.12	7.4-7.8	2-4	Low--------	0.17	2	3	0-1
	1-10	5-20	1.20-1.35	2.0-6.0	0.11-0.13	7.4-7.8	2-4	Low--------	0.32			
	10	---	---	---	---	---	---	----------	----			
55*:												
Moenkopie-------	0-1	5-18	1.35-1.45	2.0-6.0	0.09-0.12	7.9-8.4	0-2	Low--------	0.20	1	3	0-.5
	1-8	7-18	1.40-1.50	0.6-2.0	0.14-0.17	7.9-8.4	0-2	Low--------	0.32			
	8-12	7-18	1.35-1.45	0.6-2.0	0.11-0.14	7.9-8.4	0-2	Low--------	0.24			
	12	---	---	---	---	---	---	----------	----			

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
55*:												
Pennell---------	0-5	5-15	1.35-1.45	2.0-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.15	1	3	0-.5
	5-12	10-20	1.35-1.45	0.6-2.0	0.11-0.15	7.9-8.4	0-2	Low-------	0.20			
	12	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
56*:												
Nikey family----	0-2	5-15	1.30-1.40	2.0-6.0	0.03-0.05	7.9-8.4	2-4	Low-------	0.05	3	8	0-.5
	2-12	8-18	1.30-1.40	0.6-6.0	0.04-0.11	7.9-8.4	2-4	Low-------	0.10			
	12-26	8-18	1.35-1.45	0.6-6.0	0.04-0.11	7.9-8.4	2-4	Low-------	0.24			
	26-42	8-18	1.45-1.65	0.6-6.0	0.04-0.11	7.9-8.4	2-4	Low-------	0.17			
	42-50	---	---	---	---	---	---	----------	----			
Ruesh family----	0-2	5-20	1.30-1.40	2.0-6.0	0.08-0.10	7.4-8.4	2-4	Low-------	0.05	3	8	0-.5
	2-10	5-20	1.30-1.40	2.0-6.0	0.09-0.11	7.4-8.4	2-4	Low-------	0.15			
	10-19	8-35	1.20-1.50	0.2-2.0	0.15-0.20	7.4-7.8	2-4	Low-------	0.32			
	19-28	1-10	1.40-1.60	2.0-20	0.06-0.14	7.4-7.8	2-4	Low-------	0.24			
	28-40	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
57*:												
Nipton----------	0-2	5-20	1.40-1.50	2.0-6.0	0.05-0.08	7.4-8.4	0-2	Low-------	0.10	1	8	0-.5
	2-9	5-20	1.40-1.50	2.0-6.0	0.05-0.08	7.4-8.4	0-2	Low-------	0.10			
	9	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
Nickel family---	0-1	8-25	1.30-1.40	0.6-6.0	0.06-0.10	7.9-8.4	0-4	Low-------	0.10	3	8	0-.5
	1-8	8-25	1.35-1.45	0.6-6.0	0.06-0.10	7.9-8.4	0-4	Low-------	0.10			
	8-49	8-25	1.15-1.25	0.6-6.0	0.06-0.10	7.9-8.4	0-4	Low-------	0.10			
	49	---	---	---	---	---	---	----------	----			
58*:												
Nutter----------	0-2	10-20	1.35-1.45	2.0-6.0	0.07-0.09	7.9-8.4	2-4	Low-------	0.10	4	8	.5-1
	2-13	10-20	1.35-1.45	2.0-6.0	0.07-0.09	7.9-8.4	2-4	Low-------	0.10			
	13-23	5-18	1.35-1.45	2.0-6.0	0.09-0.13	7.9-8.4	2-4	Low-------	0.15			
	23-47	5-15	1.25-1.35	2.0-6.0	0.05-0.07	7.4-8.4	2-4	Low-------	0.05			
	47-60	0-5	1.25-1.35	6.0-20	0.04-0.06	7.4-8.4	2-4	Low-------	0.05			
Gyppocket-------	0-2	5-15	1.40-1.55	2.0-6.0	0.05-0.09	7.9-8.4	2-4	Low-------	0.10	2	8	.5-1
	2-14	5-15	1.35-1.45	2.0-6.0	0.05-0.07	7.9-8.4	2-4	Low-------	0.10			
	14-49	1-10	1.30-1.40	6.0-20	0.02-0.04	7.4-7.8	2-4	Low-------	0.02			
	49-59	1-10	1.40-1.50	6.0-20	0.03-0.05	7.4-7.8	2-4	Low-------	0.02			
	59-60	1-10	1.55-1.65	>20	0.03-0.05	7.4-7.8	2-4	Low-------	0.05			
59---------- Padilla	0-1	5-20	1.15-1.25	0.6-2.0	0.18-0.20	7.4-8.4	0-2	Low-------	0.37	5	4L	1-2
	1-5	27-35	1.20-1.30	0.2-0.6	0.17-0.20	7.9-8.4	0-2	Moderate	0.28			
	5-40	40-55	1.30-1.60	0.06-0.2	0.12-0.16	7.9-8.4	0-2	High------	0.17			
	40-60	40-55	1.30-1.60	0.06-0.2	0.12-0.16	7.9-8.4	0-2	High------	0.17			
60*:												
Pocum----------	0-1	7-18	1.35-1.45	2.0-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.15	1	4	0-1
	1-13	7-18	1.35-1.45	0.6-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.17			
	13-22	---	---	---	---	---	0-0	Low-------	----			
	22-42	7-18	1.35-1.45	0.6-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.17			
	42	---	---	---	---	---	---	----------	----			

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
60*:												
Childers--------	0-2	5-18	1.25-1.55	2.0-6.0	0.03-0.10	7.4-8.4	0-2	Low-------	0.10	1	6	.5-1
	2-18	5-18	1.35-1.45	0.6-2.0	0.07-0.11	7.9-9.0	0-2	Low-------	0.10			
	18-21	---	---	---	---	---	---	----------	----			
	21-30	---	---	---	---	---	---	----------	----			
	30	---	---	---	---	---	---	----------	----			
Ubank----------	0-2	5-20	1.35-1.45	2.0-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.17	3	3	.5-1
	2-16	8-18	1.40-1.50	0.6-2.0	0.15-0.17	7.9-8.4	0-2	Low-------	0.32			
	16-60	8-18	1.35-1.45	0.6-2.0	0.09-0.13	7.9-9.0	0-2	Low-------	0.20			
61*:												
Pocum----------	0-2	7-18	1.35-1.45	2.0-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.15	1	4	0-1
	2-14	7-18	1.35-1.45	0.6-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.17			
	14-18	---	---	---	---	---	0-0	Low-------	----			
	18-48	7-18	1.35-1.45	0.6-6.0	0.09-0.13	7.9-8.4	0-2	Low-------	0.17			
	48	---	---	---	---	---	---	----------	----			
Spenlo----------	0-6	8-27	1.40-1.50	0.6-2.0	0.16-0.18	7.4-8.4	0-2	Low-------	0.37	5	4L	.5-1
	6-21	27-35	1.20-1.30	0.2-0.6	0.19-0.21	7.4-8.4	0-2	Moderate	0.32			
	21-60	27-35	1.20-1.30	0.2-0.6	0.19-0.21	7.9-8.4	0-2	Moderate	0.32			
62*:												
Pompeii family--	0-2	5-20	1.40-1.55	2.0-6.0	0.05-0.08	7.9-8.4	0-2	Low-------	0.10	1	8	0-.5
	2-6	20-35	1.20-1.30	0.2-0.6	0.06-0.10	7.9-8.4	0-2	Low-------	0.15			
	6-9	28-35	1.45-1.55	0.2-0.6	0.08-0.14	7.9-8.4	0-2	Low-------	0.15			
	9-60	---	---	---	---	---	---	----------	----			
Huevi----------	0-8	5-18	1.25-1.35	2.0-6.0	0.04-0.08	7.9-8.4	0-4	Low-------	0.10	4	8	0-.5
	8-19	5-18	1.20-1.30	2.0-6.0	0.03-0.05	7.9-8.4	0-4	Low-------	0.05			
	19-28	2-8	1.35-1.45	6.0-20	0.02-0.05	7.9-8.4	0-4	Low-------	0.05			
	28-44	5-18	1.20-1.30	2.0-6.0	0.03-0.05	7.9-8.4	0-4	Low-------	0.05			
	44-60	2-8	1.30-1.40	6.0-20	0.01-0.03	7.9-8.4	0-4	Low-------	0.02			
63---------- Radnik	0-3	8-18	1.40-1.50	0.6-2.0	0.15-0.17	7.9-8.4	0-2	Low-------	0.32	5	4L	.5-1
	3-60	8-18	1.40-1.50	0.6-2.0	0.15-0.17	7.9-8.4	0-2	Low-------	0.32			
64*:												
Riverwash-------	0-40	---	---	---	---	---	---	----------	----	---	---	---
	40	---	---	---	---	---	---	----------	----			
Torrifluvents---	0-40	---	---	---	---	---	---	Low-------	----	3	---	.5-1
	40	---	---	---	---	---	---	----------	----			
65*:												
Rizno----------	0-1	10-15	1.45-1.65	2.0-6.0	0.05-0.07	7.9-8.4	0-2	Low-------	0.10	1	8	.5-1
	1-6	10-20	1.40-1.55	2.0-6.0	0.08-0.11	7.9-8.4	0-2	Low-------	0.17			
	6	---	---	---	---	---	---	----------	----			
Bond----------	0-1	5-20	1.45-1.65	2.0-6.0	0.07-0.09	7.4-8.4	0-2	Low-------	0.15	1	3	.5-1
	1-13	20-35	1.20-1.30	0.6-2.0	0.14-0.16	7.4-8.4	0-2	Low-------	0.28			
	13	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
66---------- Robroost	0-2	5-18	1.35-1.50	2.0-6.0	0.12-0.14	7.9-8.4	0-2	Low-------	0.24	4	3	0-.5
	2-8	10-18	1.35-1.50	0.6-2.0	0.14-0.17	7.9-8.4	0-2	Low-------	0.28			
	8-55	10-18	1.25-1.45	0.6-2.0	0.12-0.16	7.4-7.8	2-4	Low-------	0.24			
	55-60	2-10	1.40-1.50	6.0-20	0.04-0.07	7.4-7.8	2-4	Low-------	0.10			

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
67---------- Ruesh	0-2	5-18	1.20-1.35	2.0-6.0	0.06-0.09	7.9-8.4	2-4	Low--------	0.15	3	8	0-.5
	2-12	5-18	1.20-1.35	2.0-6.0	0.10-0.14	7.9-8.4	2-4	Low--------	0.28			
	12-29	5-18	1.10-1.25	2.0-6.0	0.08-0.11	7.4-7.8	2-4	Low--------	0.28			
	29-32	5-18	1.10-1.25	2.0-6.0	0.05-0.08	7.4-7.8	2-4	Low--------	0.28			
	32-40	5-18	1.10-1.25	2.0-6.0	0.08-0.11	7.4-7.8	2-4	Low--------	0.28			
	40-60	5-18	1.10-1.25	2.0-6.0	0.05-0.08	7.4-7.8	2-4	Low--------	0.10			
68---------- Sedillo	0-2	10-25	1.30-1.40	0.6-2.0	0.03-0.07	7.9-8.4	0-2	Low--------	0.10	2	8	.5-1
	2-18	27-35	1.35-1.45	0.2-0.6	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	18-55	27-35	1.35-1.45	0.2-0.6	0.07-0.09	7.9-9.0	0-2	Low--------	0.10			
	55-60	10-25	1.30-1.40	0.6-2.0	0.12-0.16	7.9-8.4	2-4	Low--------	0.20			
69*:												
Showlow---------	0-2	30-40	1.35-1.45	0.2-0.6	0.07-0.09	7.4-7.8	0-2	Moderate	0.10	5	8	1-2
	2-23	40-50	1.30-1.60	0.06-0.2	0.14-0.16	7.4-7.8	0-2	High------	0.20			
	23-41	40-50	1.40-1.50	0.06-0.2	0.12-0.16	7.4-8.4	0-2	High------	0.10			
	41-60	40-50	1.30-1.40	0.06-0.2	0.02-0.06	7.9-8.4	0-2	Moderate	0.05			
Thunderbird-----	0-2	27-40	1.35-1.45	0.2-0.6	0.07-0.09	6.6-7.8	0-2	Moderate	0.10	2	8	1-2
	2-29	40-60	1.30-1.60	0.01-0.06	0.14-0.16	6.6-7.8	0-2	High------	0.20			
	29-34	35-50	1.25-1.45	0.06-0.6	0.10-0.16	7.4-8.4	0-2	High------	0.17			
	34	---	---	---	---	---	---	----------	----			
70---------- Showlow	0-3	27-35	1.25-1.55	0.2-0.6	0.07-0.14	7.4-7.8	0-2	Moderate	0.10	4	8	1-3
	3-42	40-50	1.35-1.55	0.01-0.06	0.12-0.17	7.4-7.8	0-2	Moderate	0.20			
	42-60	27-35	1.25-1.55	0.2-0.6	0.08-0.14	7.9-8.4	0-2	Low--------	0.10			
71---------- Sponiker	0-3	7-27	1.15-1.25	0.6-2.0	0.14-0.18	6.6-7.8	0-2	Low--------	0.28	5	5	2-4
	3-8	27-35	1.25-1.50	0.2-0.6	0.12-0.21	6.6-7.8	0-2	Moderate	0.28			
	8-60	40-60	1.15-1.30	0.06-0.2	0.09-0.16	6.6-7.8	0-2	High------	0.32			
72*:												
Springerville---	0-1	27-35	1.35-1.45	0.2-0.6	0.08-0.14	6.6-7.8	0-2	Low--------	0.10	3	8	1-2
	1-9	27-35	1.20-1.30	0.2-0.6	0.19-0.21	6.6-7.8	0-2	Moderate	0.32			
	9-27	40-55	1.30-1.60	0.01-0.06	0.12-0.16	6.6-7.8	0-2	High------	0.20			
	27-32	27-35	1.20-1.30	0.2-0.6	0.13-0.18	7.9-8.4	0-2	Moderate	0.17			
	32-42	27-35	1.20-1.30	0.2-0.6	0.13-0.18	7.9-8.4	0-2	Moderate	0.24			
	42	---	---	---	---	---	---	----------	----			
Delenbaw--------	0-2	15-27	1.30-1.40	0.6-2.0	0.03-0.07	6.6-7.8	0-2	Low--------	0.10	5	8	1-2
	2-10	30-40	1.35-1.45	0.06-0.2	0.07-0.09	6.6-7.8	0-2	Moderate	0.10			
	10-30	40-55	1.25-1.35	0.00-0.06	0.05-0.08	6.6-7.8	0-2	High------	0.10			
	30-36	40-55	1.30-1.60	0.00-0.06	0.09-0.14	6.6-7.8	0-2	High------	0.10			
	36-60	30-40	1.35-1.45	0.06-0.2	0.07-0.09	7.4-8.4	0-2	Moderate	0.10			
73---------- Strych	0-2	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10	4	8	0-1
	2-9	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	9-24	10-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	24-48	10-18	1.30-1.40	0.6-2.0	0.03-0.06	7.9-9.0	0-2	Low--------	0.05			
	48-60	27-35	1.35-1.55	0.6-2.0	0.07-0.09	7.9-9.0	0-2	Low--------	0.10			
74*:												
Tanbark family--	0-2	5-20	1.30-1.40	2.0-6.0	0.03-0.05	7.4-8.4	2-4	Low--------	0.05	1	8	.5-1
	2-14	5-20	1.35-1.50	0.6-6.0	0.10-0.14	7.4-8.4	2-4	Low--------	0.24			
	14-40	---	---	---	---	---	---	----------	----			
Strych family---	0-3	5-20	1.30-1.40	2.0-6.0	0.03-0.05	7.9-9.0	0-2	Low--------	0.10	4	8	.5-1
	3-13	5-20	1.30-1.40	0.6-6.0	0.07-0.12	7.9-9.0	0-2	Low--------	0.10			
	13-26	10-35	1.30-1.45	0.2-2.0	0.07-0.14	7.9-9.0	0-2	Low--------	0.10			
	26-46	10-35	1.30-1.45	0.2-2.0	0.07-0.14	7.9-9.0	0-2	Low--------	0.10			
	46	---	---	---	---	---	---	----------	----			

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
74*:												
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	---	----	---	8	---
75----------	0-1	7-10	1.15-1.25	0.6-2.0	0.15-0.17	7.4-8.4	2-4	Low-------	0.32	1	4	0-1
Tanbark	1-17	2-10	1.25-1.35	2.0-6.0	0.10-0.12	7.4-7.8	2-4	Low-------	0.24			
	17	---	---	---	---	---	---	---	----			
76*:												
Tassi----------	0-1	5-18	1.35-1.45	0.6-2.0	0.09-0.12	7.4-8.4	0-4	Low-------	0.10	1	8	.5-1
	1-10	5-18	1.35-1.45	0.6-2.0	0.11-0.15	7.9-8.4	0-4	Low-------	0.24			
	10-12	---	---	---	---	---	---	---	----			
	12-28	---	---	---	---	---	---	---	----			
	28	---	---	---	---	---	---	---	----			
Rizno----------	0-1	10-15	1.45-1.65	2.0-6.0	0.05-0.07	7.9-8.4	0-2	Low-------	0.10	1	8	.5-1
	1-6	10-20	1.40-1.55	2.0-6.0	0.08-0.11	7.9-8.4	0-2	Low-------	0.17			
	6	---	---	---	---	---	---	---	----			
77----------	0-3	1-5	1.40-1.50	>20	0.07-0.09	7.9-8.4	0-2	Low-------	0.10	2	3	0-.5
Tonopah	3-8	1-5	1.40-1.50	>20	0.07-0.09	7.9-9.0	0-2	Low-------	0.10			
	8-60	1-5	1.35-1.45	>20	0.04-0.08	7.9-9.0	0-2	Low-------	0.05			
78*:												
Torriorthents---	0-24	---	---	---	---	7.9-9.0	0-4	Low-------	----	3	---	0-.5
	24	---	---	---	---	---	---	---	----			
Calciorthids----	0-24	---	---	---	---	7.9-9.0	0-4	Low-------	----	1	8	0-.5
	24	---	---	---	---	---	---	---	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	---	----	---	8	---
79----------	0-8	10-27	1.00-1.55	0.6-2.0	0.15-0.21	7.4-8.4	0-4	Low-------	0.49	5	4L	0-.5
Tours	8-60	18-35	1.30-1.40	0.2-0.6	0.19-0.21	7.9-8.4	0-4	Moderate	0.37			
80*:												
Tsezhin family--	0-4	18-25	1.30-1.40	0.6-2.0	0.07-0.12	7.4-8.4	0-2	Low-------	0.10	3	8	.5-1
	4-14	18-35	1.35-1.45	0.2-2.0	0.07-0.14	7.4-8.4	0-2	Moderate	0.10			
	14-33	18-35	1.35-1.45	0.2-2.0	0.07-0.14	7.9-8.4	0-2	Moderate	0.10			
	33	---	---	---	---	---	---	---	----			
Ashfork family--	0-2	18-25	1.30-1.40	0.6-2.0	0.03-0.07	7.4-8.4	0-2	Low-------	0.10	3	8	.5-1
	2-8	18-25	1.30-1.40	0.6-2.0	0.12-0.16	7.4-8.4	0-2	Low-------	0.20			
	8-38	28-55	1.30-1.60	0.01-0.2	0.12-0.20	7.4-8.4	0-2	Moderate	0.20			
	38-41	28-55	1.25-1.35	0.01-0.2	0.10-0.16	7.9-8.4	0-2	Moderate	0.10			
	41	---	---	---	---	---	---	---	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	---	----	---	8	---
81----------	0-2	5-20	1.20-1.30	2.0-6.0	0.04-0.08	7.4-8.4	0-2	Low-------	0.10	5	8	1-2
Tsezhin	2-6	8-25	1.30-1.40	0.6-2.0	0.05-0.11	7.4-8.4	0-2	Low-------	0.10			
	6-37	27-35	1.35-1.45	0.2-0.6	0.08-0.13	7.4-8.4	0-2	Low-------	0.10			
	37-45	20-35	1.40-1.50	0.6-2.0	0.05-0.10	7.4-8.4	0-2	Low-------	0.10			
	45-60	5-20	1.20-1.30	2.0-6.0	0.04-0.08	7.9-9.0	0-2	Low-------	0.10			
82----------	0-2	10-25	1.15-1.35	0.6-2.0	0.14-0.18	7.9-8.4	0-2	Low-------	0.32	2	4L	.5-1
Twist	2-15	18-35	1.25-1.40	0.2-0.6	0.14-0.20	7.9-8.4	0-2	Moderate	0.28			
	15-37	10-30	1.30-1.50	0.2-2.0	0.13-0.15	7.9-9.0	0-2	Low-------	0.24			
	37-58	5-18	1.10-1.30	0.6-6.0	0.10-0.16	7.4-7.8	2-4	Low-------	0.28			
	58-60	0-0	1.00-1.10	0.6-2.0	0.10-0.14	7.4-7.8	2-4	Low-------	----			

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
83---------- Twist	0-2	8-25	1.30-1.40	0.6-2.0	0.03-0.07	7.9-8.4	0-2	Low--------	0.10	5	8	0-.5
	2-11	27-35	1.20-1.30	0.2-0.6	0.14-0.17	7.9-8.4	0-2	Moderate	0.28			
	11-25	27-35	1.20-1.30	0.2-0.6	0.14-0.17	7.9-8.4	0-2	Moderate	0.28			
	25-60	8-25	1.30-1.40	0.6-2.0	0.12-0.16	7.9-8.4	2-4	Low--------	0.20			
84*:												
Virgin Peak-----	0-2	8-18	1.35-1.45	2.0-6.0	0.07-0.12	6.6-7.8	0-2	Low--------	0.10	1	8	1-2
	2-7	8-18	1.35-1.45	2.0-6.0	0.07-0.12	6.6-7.8	0-2	Low--------	0.10			
	7-17	---	---	---	---	---	---	----------	----			
	17	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
85---------- Whiskey	0-5	5-27	1.05-1.15	0.6-2.0	0.16-0.21	7.4-8.4	0-2	Low--------	0.32	5	3	1-3
	5-60	18-27	1.25-1.50	0.6-2.0	0.14-0.18	7.4-8.4	0-2	Low--------	0.32			
86*, 87*:												
Winkel----------	0-2	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	2-5	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.24			
	5-13	10-20	1.30-1.40	0.6-2.0	0.03-0.07	7.9-9.0	0-2	Low--------	0.10			
	13-32	---	---	---	---	---	---	----------	----			
	32	---	---	---	---	---	---	----------	----			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
88, 89---------- Winkel	0-2	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	2-5	10-20	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.24			
	5-13	10-20	1.30-1.40	0.6-2.0	0.03-0.07	7.9-9.0	0-2	Low--------	0.10			
	13-32	---	---	---	---	---	---	----------	----			
	32	---	---	---	---	---	---	----------	----			
90*:												
Wutoma----------	0-2	8-18	1.30-1.40	0.6-2.0	0.12-0.16	6.6-7.8	0-2	Low--------	0.05	1	8	.5-1
	2-12	8-18	1.35-1.45	0.6-2.0	0.07-0.12	6.6-7.8	0-2	Low--------	0.10			
	12-60	---	---	---	---	---	---	----------	----			
Lozinta---------	0-2	8-18	1.35-1.45	0.6-2.0	0.07-0.12	6.6-7.8	0-2	Low--------	0.10	3	8	.5-1
	2-28	8-18	1.35-1.45	0.6-2.0	0.07-0.12	6.6-7.8	0-2	Low--------	0.10			
	28-60	---	---	---	---	---	---	----------	----			
91*---------- Yellowhorse family	0-3	40-55	1.45-1.60	0.01-0.06	0.15-0.17	6.6-7.8	0-2	High------	0.24	5	4	1-2
	3-41	40-55	1.45-1.60	0.01-0.06	0.15-0.17	6.6-7.8	0-2	High------	0.24			
	41-60	40-55	1.45-1.60	0.01-0.06	0.15-0.17	7.9-8.4	0-2	High------	0.24			
92*:												
Yellowhorse-----	0-2	15-27	1.30-1.40	0.6-2.0	0.12-0.16	6.6-7.8	0-4	Low--------	0.20	2	8	1-2
	2-10	35-40	1.20-1.30	0.06-0.2	0.14-0.18	6.6-7.8	0-4	Moderate	0.28			
	10-24	40-60	1.30-1.60	0.00-0.06	0.09-0.16	7.4-7.8	0-4	High------	0.32			
	24	---	---	---	---	---	---	----------	----			
Luzena family---	0-2	18-25	1.30-1.40	0.6-2.0	0.03-0.07	6.6-7.8	0-2	Low--------	0.10	1	8	.5-1
	2-16	40-55	1.30-1.60	0.06-0.2	0.12-0.16	7.4-7.8	0-2	High------	0.32			
	16-19	40-55	1.30-1.60	0.06-0.2	0.10-0.14	7.4-7.8	0-2	High------	0.28			
	19	---	---	---	---	---	---	----------	----			
93*:												
Yumtheska-------	0-2	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.4-8.4	0-2	Low--------	0.10	1	8	1-2
	2-13	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10			
	13	---	---	---	---	---	---	----------	----			

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
93*:												
Katzine---------	0-8	8-18	1.35-1.45	0.6-2.0	0.07-0.12	7.4-8.4	0-2	Low--------	0.10	5	8	1-2
	8-20	8-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10			
	20-31	8-18	1.35-1.45	0.6-2.0	0.10-0.15	7.9-8.4	0-2	Low--------	0.20			
	31-60	8-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
94*:												
Yumtheska--------	0-1	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.4-8.4	0-2	Low--------	0.10	1	8	1-2
	1-10	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10			
	10	---	---	---	---	---	---	----------	----			
Katzine---------	0-2	8-18	1.30-1.40	0.6-2.0	0.03-0.06	7.4-8.4	0-2	Low--------	0.05	5	8	1-2
	2-11	8-18	1.30-1.40	0.6-2.0	0.03-0.07	7.9-8.4	0-2	Low--------	0.10			
	11-22	8-18	1.30-1.40	0.6-2.0	0.03-0.07	7.9-8.4	0-2	Low--------	0.10			
	22-60	5-18	1.20-1.30	2.0-6.0	0.03-0.06	7.9-8.4	0-2	Low--------	0.10			
Rock outcrop----	0-60	---	2.50-2.80	---	---	---	---	----------	----	---	8	---
95*:												
Yumtheska--------	0-2	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.4-8.4	0-2	Low--------	0.10	1	8	1-2
	2-14	7-18	1.35-1.45	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10			
	14	---	---	---	---	---	---	----------	----			
Natank----------	0-1	10-25	1.35-1.45	0.6-2.0	0.07-0.12	6.6-7.8	0-2	Low--------	0.10	2	8	1-2
	1-6	27-40	1.20-1.30	0.2-0.6	0.13-0.18	6.6-7.8	0-2	Moderate	0.17			
	6-17	40-55	1.30-1.60	0.06-0.2	0.10-0.14	6.6-7.8	0-2	High-------	0.10			
	17-28	27-40	1.20-1.30	0.2-0.6	0.13-0.18	7.9-8.4	0-2	Moderate	0.17			
	28	---	---	---	---	---	---	----------	----			
96*, 97*:												
Yurm family-----	0-2	5-18	1.20-1.30	2.0-6.0	0.03-0.06	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	2-16	8-18	1.30-1.40	0.6-2.0	0.07-0.12	7.9-8.4	0-2	Low--------	0.10			
	16-60	---	---	---	---	---	---	----------	----			
Meadview--------	0-11	5-15	1.40-1.55	2.0-6.0	0.05-0.08	7.9-8.4	0-4	Low--------	0.10	5	8	0-.5
	11-23	5-15	1.40-1.55	0.6-2.0	0.05-0.08	7.9-8.4	0-4	Low--------	0.10			
	23-60	5-15	1.40-1.55	0.6-2.0	0.03-0.05	7.9-8.4	0-4	Low--------	0.05			
98*, 99*--------- Yurm family	0-2	8-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10	1	8	0-.5
	2-16	8-18	1.35-1.45	0.6-2.0	0.07-0.09	7.9-8.4	0-2	Low--------	0.10			
	16-60	---	---	---	---	---	---	----------	----			

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

Table 16.--Soil and 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: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
1*:													
Akinville	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	High.
Mokaac	A	None	---	---	>6.0	---	60-99	---	---	---	None	High	High.
2 Albers	D	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
3* Arada family	A	None	---	---	>6.0	---	60-99	---	---	---	None	High	Low.
4* Arizo	A	None	---	---	>6.0	---	60-99	---	---	---	None	High	Low.
5* Arizo	A	Occasional	Very brief	Mar-Sep	>6.0	---	60-99	---	---	---	None	High	Low.
6* Badland	D	None	---	---	>6.0	---	0-1	Soft	---	---	None	High	High.
7*:													
Bard family	D	None	---	---	>6.0	---	60-99	---	10-20	Thick	None	High	Low.
Tonopah	A	None	---	---	>6.0	---	60-99	---	---	---	None	High	Low.
Arada family	A	None	---	---	>6.0	---	60-99	---	---	---	None	High	Low.
8 Barx	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
9*:													
Barx	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
Strych	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
10*:													
Berzatic family	D	None	---	---	>6.0	---	5-20	Hard	---	---	Low	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---

See footnote at end of table.

Table 16.--Soil and Water Features--Continued

Soil name and map symbol	Hydrologic group	Flooding: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
10*:													
Goblin	D	None	---	---	>6.0	---	4-20	Soft	---	---	Low	High	High.
11*:													
Bisoodi	D	None	---	---	>6.0	---	10-20	Hard	---	---	Low	High	Low.
Anasazi family	C	None	---	---	>6.0	---	20-40	Hard	---	---	Moderate	High	Low.
12*:													
Blind family	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	Low.
Shelley	A	None	---	---	>6.0	---	>60	---	---	---	None	Moderate	Low.
13*:													
Blind family	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	Low.
Shelley	A	None	---	---	>6.0	---	60-99	---	---	---	None	High	Low.
14*:													
Boquillas family	C	None	---	---	>6.0	---	20-40	Soft	---	---	Moderate	High	Low.
Showlow	C	None	---	---	>6.0	---	60-99	---	---	---	Moderate	High	Low.
15*:													
Carrizo	A	Occasional	Very brief	Jul-Sep	>6.0	---	60-99	---	---	---	None	High	Low.
Carrizo	A	Occasional	Very brief	Jul-Sep	>6.0	---	60-99	---	---	---	None	High	Low.
16*:													
Cave	D	None	---	---	>6.0	---	60-99	---	4-20	Thick	None	High	Low.
Harrisburg	C	None	---	---	>6.0	---	60-99	---	20-40	Thick	None	High	Low.
Grapevine	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	Moderate.
17*:													
Chic	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
Teesto	D	None	---	---	>6.0	---	5-20	Hard	---	---	Low	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
18*:													
Childers	D	None	---	---	>6.0	---	20-40	Hard	10-20	Thin	Moderate	Moderate	Low.

See footnote at end of table.

Table 16.--Soil and Water Features--Continued

Soil name and map symbol	Hydrologic group	Flooding: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
18*:													
Rizno	D	None	---	---	>6.0	---	4-20	Hard	---	---	Low	High	Low.
19 Dera	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
20*:													
Dermala family	B	None	---	---	>6.0	---	20-60	Soft	---	---	Low	High	Moderate.
Guy family	B	None	---	---	>6.0	---	20-60	Soft	---	---	Low	High	Moderate.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
21*:													
Disterheff	C	None	---	---	>6.0	---	60-99	---	---	---	Moderate	High	Low.
Natank	C	None	---	---	>6.0	---	20-40	Hard	---	---	Moderate	High	Low.
Yumtheska	D	None	---	---	>6.0	---	10-20	Hard	---	---	Low	High	Low.
22*:													
Dutchman	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	High.
McCullan	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	High.
23 Goblin	D	None	---	---	>6.0	---	4-20	Soft	---	---	Low	High	High.
24*:													
Goblin	D	None	---	---	>6.0	---	4-20	Soft	---	---	Low	High	High.
24*:													
Gyppocket	A	None	---	---	>6.0	---	60-99	---	---	---	None	High	High.
25 Goesling	B	None	---	---	>6.0	---	60-99	---	---	---	Moderate	High	Low.
26*:													
Grapevine	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	Moderate.
Hobcan	B	Rare	---	---	>6.0	---	60-99	---	---	---	None	High	High.
27*:													
Grapevine	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	Moderate.

See footnote at end of table.

Table 16.--Soil and Water Features--Continued

Soil name and map symbol	Hydrologic group	Flooding: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
27*:													
Shelley----------	A	None--------	---	---	>6.0	---	>60	---	---	---	None-----	Moderate	Low.
28*:													
Gypill----------	D	None--------	---	---	>6.0	---	4-15	Soft	---	---	None-----	High-----	High.
Badland----------	D	None--------	---	---	>6.0	---	0-1	Soft	---	---	None-----	High-----	High.
29---------- Gypill	D	None--------	---	---	>6.0	---	4-15	Soft	---	---	None-----	High-----	High.
30*:													
Gypill----------	D	None--------	---	---	>6.0	---	4-15	Soft	---	---	None-----	High-----	High.
Hobog----------	D	None--------	---	---	>6.0	---	6-20	Hard	---	---	None-----	High-----	Low.
31---------- Gypill	D	None--------	---	---	>6.0	---	4-15	Soft	---	---	None-----	High-----	High.
32*:													
Gypisorthids-----	B	None--------	---	---	>6.0	---	60-99	---	---	---	Moderate	High-----	High.
Gypisorthids, shallow---------	D	None--------	---	---	>6.0	---	4-20	Soft	---	---	Low------	High-----	High.
33---------- Havasupai	C	None--------	---	---	>6.0	---	60-99	---	10-20	Thin	Low------	High-----	Low.
34*:													
Hindu----------	D	None--------	---	---	>6.0	---	5-20	Hard	---	---	None-----	High-----	Low.
Rock outcrop-----	D	None--------	---	---	>6.0	---	0-1	Hard	---	---	None-----	---	---
Gypill----------	D	None--------	---	---	>6.0	---	4-15	Soft	---	---	None-----	High-----	High.
35---------- Hobcan	B	None--------	---	---	>6.0	---	60-99	---	---	---	None-----	High-----	High.
36*, 37*:													
Hobog----------	D	None--------	---	---	>6.0	---	6-20	Hard	---	---	None-----	High-----	Low.
Grapevine--------	B	None--------	---	---	>6.0	---	60-99	---	---	---	None-----	High-----	Moderate.
38*:													
Hobog----------	D	None--------	---	---	>6.0	---	6-20	Hard	---	---	None-----	High-----	Low.

See footnote at end of table.

Table 16.--Soil and Water Features--Continued

Soil name and map symbol	Hydrologic group	Flooding: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
38*:													
Tidwell family---	D	None--------	---	---	>6.0	---	4-20	Hard	---	---	None-----	High-----	Low.
39---------- Hobog	D	None--------	---	---	>6.0	---	6-20	Hard	---	---	None-----	High-----	Low.
40---------- Ivanpatch	B	None--------	---	---	>6.0	---	60-99	---	---	---	Low------	High-----	High.
41---------- Ives	B	Frequent----	Brief-----	Jul-Sep	>6.0	---	60-99	---	---	---	Low------	High-----	Moderate.
42*:													
Katzine----------	B	None--------	---	---	>6.0	---	60-99	---	---	---	Moderate	High-----	Low.
Rock outcrop-----	D	None--------	---	---	>6.0	---	0-1	Hard	---	---	None-----	---	---
Yumtheska--------	D	None--------	---	---	>6.0	---	10-20	Hard	---	---	Low------	High-----	Low.
43*:													
Meadview---------	B	None--------	---	---	>6.0	---	60-99	---	---	---	None-----	High-----	Low.
Cave----------	D	None--------	---	---	>6.0	---	60-99	---	4-20	Thick	None-----	High-----	Low.
44---------- Meadview	B	None--------	---	---	>6.0	---	60-99	---	---	---	None-----	High-----	Low.
45*:													
Mellenthin-------	D	None--------	---	---	>6.0	---	8-20	Hard	---	---	Low------	High-----	Low.
Rock outcrop-----	D	None--------	---	---	>6.0	---	0-1	Hard	---	---	None-----	---	---
Torriorthents----	B	None--------	---	---	>6.0	---	10-60	Hard	---	---	Low------	High-----	Low.
46*, 47*:													
Mellenthin-------	D	None--------	---	---	>6.0	---	8-20	Hard	---	---	Low------	High-----	Low.
Strych----------	B	None--------	---	---	>6.0	---	60-99	---	---	---	Low------	High-----	Low.
48*, 49*, 50*:													
Mellenthin-------	D	None--------	---	---	>6.0	---	8-20	Hard	---	---	Low------	High-----	Low.
Tanbark----------	D	None--------	---	---	>6.0	---	10-20	Soft	---	---	None-----	High-----	High.

See footnote at end of table.

Table 16.--Soil and Water Features--Continued

Soil name and map symbol	Hydrologic group	Flooding: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
51*:													
Merwhitica	D	None	---	---	>6.0	---	4-10	Hard	---	---	Low	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
Strych	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
52*:													
Meriwhitica	D	None	---	---	>6.0	---	4-10	Hard	---	---	Low	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
Strych	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
53*:													
Mespun	A	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
Mespun	A	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
54*:													
Moenkopie	D	None	---	---	>6.0	---	5-20	Hard	---	---	Low	High	Low.
Goblin	D	None	---	---	>6.0	---	4-20	Soft	---	---	Low	High	High.
55*:													
Moenkopie	D	None	---	---	>6.0	---	5-20	Hard	---	---	Low	High	Low.
Pennell	D	None	---	---	>6.0	---	10-20	Hard	---	---	Low	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
56*:													
Nikey family	B	None	---	---	>6.0	---	30-60	Soft	---	---	None	High	Moderate.
Ruesh family	B	None	---	---	>6.0	---	20-60	Soft	---	---	None	High	High.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
57*:													
Nipton	D	None	---	---	>6.0	---	4-14	Hard	---	---	None	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
Nickel family	B	None	---	---	>6.0	---	20-60	Soft	---	---	None	High	Low.

See footnote at end of table.

Table 16.--Soil and Water Features--Continued

Soil name and map symbol	Hydrologic group	Flooding: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
58*:													
Nutter	B	None	---	---	>6.0	---	>60	---	---	---	None	High	High.
Gyppocket	A	None	---	---	>6.0	---	60-99	---	---	---	Low	High	High.
59 Padilla	C	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
60*:													
Pocum	D	None	---	---	>6.0	---	30-60	Hard	10-20	Thin	Low	High	Low.
Childers	D	None	---	---	>6.0	---	20-40	Hard	10-20	Thin	Moderate	High	Low.
Ubank	D	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
61*:													
Pocum	D	None	---	---	>6.0	---	30-60	Hard	10-20	Thin	Low	High	Low.
Spenlo	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
62*:													
Pompeii family	D	None	---	---	>6.0	---	60-99	---	4-20	Thick	None	High	Low.
Huevi	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	Low.
63 Radnik	B	Occasional	Brief	Jul-Sep	>6.0	---	60-99	---	---	---	Low	High	Low.
64*:													
Riverwash	D	Frequent	Brief to long.	Jan-Dec	0-6.0	Jan-Dec	0-60	Hard	---	---	Low	High	Low.
Torrifluvents	D	Occasional	Very brief	Mar-Sep	0-6.0	Mar-Sep	20-99	Hard	---	---	None	High	Low.
65*:													
Rizno	D	None	---	---	>6.0	---	4-20	Hard	---	---	Low	High	Low.
Bond	D	None	---	---	>6.0	---	6-20	Hard	---	---	Low	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
66 Robroost	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	High.

See footnote at end of table.

Table 16.--Soil and Water Features--Continued

Soil name and map symbol	Hydrologic group	Flooding: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
67 Ruesh	B	None	---	---	>6.0	---	60-99	---	---	---	None	High	High.
68 Sedillo	B	None	---	---	>6.0	---	60-99	---	---	---	Moderate	High	Moderate.
69*:													
Showlow	C	None	---	---	>6.0	---	60-99	---	---	---	Moderate	High	Low.
Thunderbird	D	None	---	---	>6.0	---	20-40	Hard	---	---	Moderate	High	Low.
70 Showlow	C	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
71 Sponiker	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
72*:													
Springerville	D	None	---	---	>6.0	---	40-59	Hard	---	---	Low	High	Low.
Delenbaw	D	None	---	---	>6.0	---	60-99	---	---	---	Moderate	High	Low.
73 Strych	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
74*:													
Tanbark family	D	None	---	---	>6.0	---	10-40	Soft	---	---	Low	High	High.
Strych family	B	None	---	---	>6.0	---	20-60	Soft	---	---	Low	High	Moderate.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
75 Tanbark	D	None	---	---	>6.0	---	10-20	Soft	---	---	None	High	High.
76*:													
Tassi	D	None	---	---	>6.0	---	20-40	Hard	5-20	Thin	Moderate	High	Low.
Rizno	D	None	---	---	>6.0	---	4-20	Hard	---	---	Low	High	Low.
77 Tonopah	A	None	---	---	>6.0	---	60-99	---	---	---	None	High	Low.

See footnote at end of table.

Table 16.--Soil and Water Features--Continued

Soil name and map symbol	Hydrologic group	Flooding: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
78*:													
Torriorthents	B	None	---	---	>6.0	---	10-40	Soft	---	---	None	High	Moderate.
Calciorthids	B	None	---	---	>6.0	---	10-40	Soft	---	---	None	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
79 Tours	B	Occasional	Very brief	Jul-Sep	>6.0	---	60-99	---	---	---	Low	High	Moderate.
80*:													
Tsezhin family	D	None	---	---	>6.0	---	20-60	Soft	---	---	Low	High	Moderate.
Ashfork family	D	None	---	---	>6.0	---	20-60	Hard	---	---	Low	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
81 Tsezhin	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
82, 83 Twist	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	High.
84*:													
Virgin Peak	D	None	---	---	>6.0	---	4-20	Hard	---	---	Moderate	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
85 Whiskey	B	None	---	---	>6.0	---	60-99	---	---	---	Low	High	Low.
86*, 87*:													
Winkel	D	None	---	---	>6.0	---	20-50	Hard	10-20	Thick	None	High	Low.
Rock outcrop	D	None	---	---	>6.0	---	0-1	Hard	---	---	None	---	---
88, 89 Winkel	D	None	---	---	>6.0	---	20-50	Hard	10-20	Thick	None	High	Low.
90*:													
Wutoma	B	None	---	---	>6.0	---	60-99	---	---	---	Moderate	High	Low.
Lozinta	B	None	---	---	>6.0	---	60-99	---	---	---	Moderate	High	Low.

See footnote at end of table.

Table 16.--Soil and Water Features--Continued

Soil name and map symbol	Hydrologic group	Flooding: Frequency	Flooding: Duration	Flooding: Months	High water table: Depth	High water table: Months	Bedrock: Depth	Bedrock: Hardness	Cemented pan: Depth	Cemented pan: Hardness	Potential frost action	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete
					Ft		In		In				
91*---------- Yellowhorse family	D	Occasional	Long------	Mar-May	2.0-5.0	Mar-May	45-70	Hard	---	---	Moderate	High-----	Low.
92*:													
Yellowhorse------	D	None--------	---	---	>6.0	---	20-40	Hard	---	---	Moderate	High-----	Low.
Luzena family----	D	None--------	---	---	>6.0	---	10-20	Hard	---	---	Moderate	High-----	Low.
93*, 94*:													
Yumtheska--------	D	None--------	---	---	>6.0	---	10-20	Hard	---	---	Low------	High-----	Low.
Katzine----------	B	None--------	---	---	>6.0	---	60-99	---	---	---	Moderate	High-----	Low.
Rock outcrop-----	D	None--------	---	---	>6.0	---	0-1	Hard	---	---	None-----	---	---
95*:													
Yumtheska--------	D	None--------	---	---	>6.0	---	10-20	Hard	---	---	Low------	High-----	Low.
Natank----------	C	None--------	---	---	>6.0	---	20-40	Hard	---	---	Moderate	High-----	Low.
96*, 97*:													
Yurm family------	D	None--------	---	---	>6.0	---	60-99	---	10-20	Thick	None-----	High-----	Low.
Meadview---------	B	None--------	---	---	>6.0	---	60-99	---	---	---	None-----	High-----	Low.
98*, 99*---------- Yurm family	D	None--------	---	---	>6.0	---	60-99	---	10-20	Thick	None-----	High-----	Low.

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

Table 17.--Classification of the Soils

(An asterisk in the first column indicates that the soil is a taxadjunct to the series. See text for a description of those characteristice of the soil that are outside the range of the series)

Soil name	Family or higher taxonomic class
Akinville	Loamy-skeletal, gypsic, thermic Typic Gypsiorthids
Albers	Fine, montmorillonitic, mesic Aridic Haplusterts
Anasazi family	Coarse-loamy, mixed, mesic Ustollic Calciorthids
Arada family	Sandy, mixed, thermic Typic Calciorthids
Arizo	Sandy-skeletal, mixed, thermic Typic Torriorthents
Ashfork family	Fine, montmorillonitic, mesic Aridic Argiustolls
Badland.	
Bard family	Loamy, carbonatic, thermic, shallow Typic Paleorthids
Barx	Fine-loamy, mixed, mesic Ustollic Haplargids
Berzatic family	Loamy-skeletal, mixed (calcareous), mesic Lithic Torriorthents
Bisoodi	Loamy, mixed, mesic Lithic Ustollic Calciorthids
Blind family	Loamy-skeletal, mixed, thermic Typic Haplargids
Bond	Loamy, mixed, mesic Lithic Ustollic Haplargids
Boquillas family	Fine, montmorillonitic, mesic Aridic Argiustolls
Calciorthids	Calciorthids
Carrizo	Sandy-skeletal, mixed, hyperthermic Typic Torriorthents
Cave	Loamy, mixed, thermic, shallow Typic Paleorthids
Chic	Ashy-skeletal over fragmental or cindery, mixed, mesic Ustochreptic Calciorthids
Childers	Loamy-skeletal, mixed, mesic, shallow Ustochreptic Paleorthids
Delenbaw	Clayey-skeletal, montmorillonitic, mesic Aridic Argiustolls
Dera	Loamy-skeletal, carbonatic, mesic Typic Calciorthids
Dermala family	Fine-loamy, mixed, mesic Aridic Haplustalfs
Disterheff	Fine, montmorillonitic, mesic Vertic Haplustalfs
Dutchman	Coarse-loamy, gypsic, mesic Typic Gypsiorthids
Goblin	Loamy, gypsic, mesic, shallow Typic Torriorthents
Goesling	Fine-loamy, mixed, mesic Aridic Haplustalfs
Grapevine	Coarse-loamy, mixed, thermic Typic Calciorthids
Guy family	Coarse-loamy, mixed, mesic Aridic Calciustolls
Gypill	Loamy, gypsic, thermic, shallow Typic Torriorthents
Gypisorthids	Gypsiorthids
Gypisorthids, shallow	Gypsiorthids
Gyppocket	Sandy-skeletal, gypsic, mesic Typic Gypsiorthids
Harrisburg	Coarse-loamy, mixed, thermic Typic Paleorthids
Havasupai	Loamy-skeletal, mixed, mesic, shallow Ustollic Paleorthids
Hindu	Loamy-skeletal, mixed (calcareous), thermic Lithic Torriorthents
Hobcan	Coarse-loamy, mixed, thermic Calcic Gypsiorthids
Hobog	Loamy-skeletal, mixed, thermic Lithic Calciorthids
Huevi	Loamy-skeletal, mixed, hyperthermic Duric Calciorthids
Ivanpatch	Coarse-loamy, mixed, mesic Cambic Gypsiorthids
Ives	Coarse-loamy, mixed (calcareous), mesic Typic Torrifluvents
Katzine	Loamy-skeletal, mixed, mesic Calciorthidic Ustochrepts
Lozinta	Ashy-skeletal over fragmental or cindery, mixed, mesic Vitrandic Ustochrepts
Luzena family	Clayey, montmorillonitic, mesic Lithic Argiustolls
McCullan	Coarse-loamy, gypsic, mesic Typic Gypsiorthids
*Meadview	Sandy-skeletal, mixed, thermic Duric Calciorthids
Mellenthin	Loamy-skeletal, mixed, mesic Lithic Ustollic Calciorthids
Merwhitica	Loamy-skeletal, mixed (calcareous), mesic Lithic Ustic Torriorthents
Mespun	Mixed mesic Ustic Torripsamments
Moenkopie	Loamy, mixed (calcareous), mesic Lithic Torriorthents
Mokaac	Sandy-skeletal, gypsic, thermic Calcic Gypsiorthids
Natank	Fine, montmorillonitic, mesic Aridic Haplustalfs
Nickel family	Loamy-skeletal, mixed, thermic Typic Calciorthids
Nikey family	Coarse-loamy, mixed, thermic Typic Calciorthids
Nipton	Loamy-skeletal, mixed, nonacid, thermic Lithic Torriorthents
Nutter	Loamy-skeletal, gypsic, mesic Typic Gypsiorthids
Padilla	Fine, mixed, mesic Ustollic Haplargids
Pennell	Loamy, mixed, mesic Lithic Calciorthids
Pocum	Loamy, mixed, mesic, shallow Ustochreptic Paleorthids
Pompeii family	Loamy-skeletal, mixed, hyperthermic, shallow Typic Paleorthids
Radnik	Coarse-loamy, mixed (calcareous), mesic Ustic Torrifluvents
Riverwash.	

Table 17.--Classification of the Soils--Continued

Soil name	Family or higher taxonomic class
Rizno	Loamy, mixed (calcareous), mesic Lithic Ustic Torriorthents
Robroost	Coarse-loamy, mixed, mesic Cambic Gypsiorthids
Rock outcrop.	
Ruesh	Coarse-loamy, gypsic, thermic Typic Gypsiorthids
Ruesh family	Coarse-loamy, gypsic, thermic Typic Gypsiorthids
Sedillo	Loamy-skeletal, mixed, mesic Ustollic Haplargids
Shelley	Sandy-skeletal, mixed, thermic Typic Calciorthids
Showlow	Fine, montmorillonitic, mesic Aridic Argiustolls
Spenlo	Fine-loamy, mixed, mesic Ustollic Haplargids
Sponiker	Fine, montmorillonitic, mesic Pachic Argiustolls
Springerville	Fine, montmorillonitic, mesic Aridic Haplusterts
Strych	Loamy-skeletal, mixed, mesic Ustollic Calciorthids
Strych family	Loamy-skeletal, mixed, mesic Ustollic Calciorthids
Tanbark	Loamy, gypsic, mesic, shallow Ustic Torriorthents
Tanbark family	Loamy, gypsic, mesic, shallow Ustic Torriorthents
Tassi	Loamy, mixed, mesic, shallow Ustollic Paleorthids
Teesto	Loamy-skeletal, mixed (calcareous), mesic Lithic Ustic Torriorthents
Thunderbird	Fine, montmorillonitic, mesic Aridic Argiustolls
Tidwell family	Loamy, mixed (calcareous), thermic Lithic Torriorthents
Tonopah	Sandy-skeletal, mixed, thermic Typic Calciorthids
Torrifluvents	Torrifluvents
Torriorthents	Torriorthents
Tours	Fine-silty, mixed (calcareous), mesic Typic Torrifluvents
Tsezhin	Loamy-skeletal, mixed, mesic Aridic Haplustalfs
Tsezhin family	Loamy-skeletal, mixed, mesic Aridic Haplustalfs
Twist	Fine-loamy, mixed, mesic Typic Haplargids
Ubank	Coarse-loamy, carbonatic, mesic Ustollic Calciorthids
Virgin Peak	Loamy-skeletal, mixed, mesic, Lithic Haplustolls
Whiskey	Fine-loamy, mixed, mesic Pachic Haplustolls
Winkel	Loamy-skeletal, mixed, thermic, shallow Typic Paleorthids
Wutoma	Ashy-skeletal over fragmental or cindery, mixed, mesic Vitrandic Ustochrepts
Yellowhorse	Fine, montmorillonitic, mesic Udic Haplusterts
Yellowhorse family	Fine, montmorillonitic, mesic Udic Haplusterts
Yumtheska	Loamy-skeletal, mixed, mesic Lithic Calciustolls
Yurm family	Loamy-skeletal, mixed, thermic, shallow Typic Paleorthids

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