

Table 16.--Physical Test Data for Selected Soils

(All analysis run in duplicate. All data reported on oven dry basis. Dashes indicate that analyses were not made. Sands by sieving; remainder by hydrometer method of Day et al. SSSAP 20: 167-169 (1956). The pedons are typical of the soil series in the survey area. For the location of the pedons, see the section "Soil Series and their Morphology".)

Soil name and pedon number	Horizon	Depth (in)	Fine earth particle-size distribution (percent)											Textural Class
			Sand (mm)					Silt (um)				Clay (um)		
			Very coarse (2-1)	Coarse (1-0.5)	Medium (0.5-0.25)	Fine (0.25-0.1)	Very fine (0.1-0.05)	Total (2-0.05)	Coarse (50-20)	Medium (20-5)	Fine (5-2)	Total (50-2)	Total (<2)	
Bosket														
(S90AR-149-01)	Ap1	0-5	0.0	0.0	2.5	37.8	7.3	47.6	22.1	20.9	0.8	44.1	8.3	L
	Ap2	5-10	0.0	0.0	3.1	38.6	6.6	48.3	20.5	17.5	3.2	41.2	10.5	L
	BA	10-20	0.0	0.0	3.0	36.2	5.5	44.7	18.0	18.2	4.8	41.0	14.3	L
	Bt1	20-27	0.0	0.0	2.7	30.6	5.5	38.8	14.8	14.1	4.6	33.5	27.7	CL
	Bt2	27-40	0.0	0.0	4.9	45.5	5.9	56.3	9.8	6.1	1.8	17.7	26.0	SCL
	BC	40-51	0.0	0.0	8.1	69.2	3.3	80.6	4.6	0.7	0.2	5.5	13.9	FSL
	C1	51-65	0.0	0.0	10.1	75.8	2.4	88.3	---	---	---	6.1	5.6	FS
	C2	65-80	0.0	0.0	14.1	73.9	2.5	90.5	---	---	---	3.6	5.9	FS
Bulltown														
(S89AR-147-01)	Ap1	0-4	0.0	0.1	2.6	72.3	6.7	81.7	9.2	3.1	1.8	14.1	4.2	LFS
	Ap2	4-8	0.0	0.0	1.4	63.0	14.9	79.3	7.6	5.5	1.3	14.4	6.3	LFS
	Bw1	8-16	0.0	0.0	1.3	62.4	13.8	77.5	8.8	5.4	1.5	15.7	6.8	LFS
	Bw2	16-26	0.0	0.0	1.4	63.3	16.6	81.3	6.9	5.0	1.3	13.2	5.5	LFS
	Bt1	26-37	0.0	0.0	1.2	58.1	15.3	74.6	6.6	2.4	2.0	11.0	14.4	FSL
	Bt2	37-51	0.0	0.0	2.1	57.2	13.4	72.7	3.2	2.0	1.5	6.7	20.6	SCL
	BC	51-60	0.0	0.0	1.8	57.3	16.1	75.2	7.1	1.8	0.0	8.9	15.9	FSL
	BC	60-69	0.0	0.0	3.1	61.5	15.6	80.2	6.6	1.0	0.0	7.6	12.2	FSL
	C	69-80	0.0	0.0	0.2	76.3	13.2	89.7	5.4	0.8	0.0	6.2	4.1	FS
Foley														
(S74AR-147-01)	Ap1	0-4	0.6	1.3	6.1	6.8	8.0	22.8	26.2	30.8	7.1	64.1	13.1	SIL
	Ap2	4-9	0.2	0.5	5.4	5.9	8.1	20.1	27.7	31.3	7.5	66.5	13.4	SIL
	Eg1	9-16	0.2	0.5	6.8	5.8	6.0	19.3	29.4	30.7	6.5	66.6	14.1	SIL
	Eg2	16-20	0.3	0.8	6.7	5.0	6.6	19.4	28.1	30.0	6.3	64.4	16.2	SIL
	B/E1	20-26	0.2	0.7	4.7	4.8	7.1	17.5	24.4	29.3	6.0	59.7	22.8	SIL
	B/E2	26-41	0.4	1.0	4.2	1.3	5.5	12.4	24.6	25.8	8.7	59.1	28.5	SICL
	B/E3	41-52	0.2	1.1	1.3	1.6	5.5	9.7	25.4	20.3	7.3	53.0	37.3	SICL
	Btng	52-67	2.4	3.7	2.4	1.0	9.6	19.1	28.9	18.3	6.4	53.6	27.3	SICL
	BCng	67-80	0.3	1.4	7.3	12.2	13.0	34.2	34.1	16.1	6.5	56.7	9.1	SIL
Grubbs														
(S91AR-147-05)	Ap	0-5	0.1	0.8	1.4	2.6	2.6	7.5	47.3	24.2	6.7	78.2	14.3	SIL
	BA	5-12	0.1	0.6	1.0	1.5	1.7	4.9	29.7	24.6	6.4	60.7	34.4	SICL
	Bt1	12-20	0.1	0.1	0.3	0.6	1.0	2.1	18.2	18.1	5.5	41.8	56.1	SIC
	Bt2	20-26	0.1	0.1	0.1	0.3	1.2	1.8	24.5	21.2	6.0	51.7	46.5	SIC
	Btg1	26-40	0.1	0.1	0.1	0.3	1.8	2.4	34.5	26.4	5.2	66.1	31.5	SICL
	Btg2	40-52	0.1	0.2	0.3	0.5	2.1	3.2	32.0	33.0	7.1	72.1	24.7	SIL
	B't	52-64	0.1	0.2	0.3	0.9	3.7	5.2	31.9	33.7	8.0	73.6	21.2	SIL
	BC	64-76	0.1	0.5	0.6	1.3	5.5	8.0	33.0	32.6	6.9	72.5	19.5	SIL
Hillemann														
(S74AR-147-02)	Ap1	0-3	0.3	0.5	1.1	0.1	2.8	4.8	35.3	43.5	5.3	84.1	11.1	SI
	Ap2	3-8	0.2	0.3	0.9	0.2	2.8	4.4	32.6	44.5	5.2	82.3	13.3	SIL
	Eg	8-15	0.1	0.5	0.4	1.0	1.8	3.8	27.0	43.4	7.0	77.4	18.8	SIL
	Bt	15-23	0.1	0.1	0.3	0.4	1.4	2.3	22.1	31.4	4.1	57.6	40.1	SIC
	Btg	23-28	0.0	0.1	0.3	0.4	1.3	2.1	22.2	37.1	7.2	66.5	31.4	SICL
	B/E1	28-40	0.0	0.2	0.3	0.1	2.0	2.6	25.3	36.6	8.7	70.6	26.8	SIL
	B/E21	40-49	0.0	0.2	0.5	1.1	4.2	6.0	28.5	35.6	6.3	70.4	23.6	SIL
	B/E22	49-57	0.0	0.2	0.6	1.2	4.9	6.9	29.1	34.4	6.8	70.3	22.8	SIL
	B/E3	57-70	0.0	0.1	0.7	2.1	4.1	7.0	25.3	29.7	4.7	59.7	33.3	SICL
	Btng	70-80	0.0	0.1	0.7	4.1	6.3	11.2	24.7	25.7	4.4	54.8	34.0	SICL

Table 16.--Physical Test Data for Selected Soils--Continued

Soil name and pedon number	Horizon	Depth (in)	Fine earth particle-size distribution (percent)											Textural Class
			Sand (mm)					Silt (um)				Clay (um)		
			Very coarse (2-1)	Coarse (1-0.5)	Medium (0.5-0.25)	Fine (0.25-0.1)	Very fine (0.1-0.05)	Total (2-0.05)	Coarse (50-20)	Medium (20-5)	Fine (5-2)	Total (50-2)	Total (<2)	
Overcup (S89AR-149-08)	Ap	0-4	0.2	0.7	0.6	1.7	3.2	6.4	29.9	33.9	7.9	71.7	21.9	SIL
	Eg	4-8	0.6	1.8	1.0	1.7	3.0	8.1	25.4	37.7	10.2	73.3	18.6	SIL
	Btg1	8-22	0.1	0.1	0.2	0.4	1.1	1.9	14.5	24.4	8.5	47.4	50.7	SIC
	Btg21	22-33	0.0	0.1	0.1	0.4	1.1	1.7	14.6	23.2	8.6	46.4	51.9	SIC
	Btg22	33-44	0.1	0.1	0.1	0.6	1.5	2.4	16.7	23.8	8.3	48.8	48.8	SIC
	Btg31	44-52	0.1	0.1	0.2	0.7	1.6	2.7	19.2	23.7	9.2	52.1	45.2	SIC
	Btg32	52-61	0.0	0.1	0.2	1.0	1.9	3.2	22.3	26.5	7.5	56.3	40.5	SIC
	BC	61-72	0.1	0.3	0.3	1.4	2.8	4.9	23.6	28.0	8.4	60.0	35.1	SICL
Patterson (S91AR-147-01)	Ap1	0-6	0.1	0.1	0.4	51.7	17.3	69.6	12.6	7.1	4.3	24.0	6.4	FSL
	Ap2	6-10	0.1	0.1	0.3	53.1	15.6	69.2	12.1	8.7	5.3	26.1	4.7	FSL
	Eg1	10-16	0.1	0.1	0.3	59.9	3.7	64.1	12.5	9.0	5.1	26.6	9.3	FSL
	Eg21	16-24	0.1	0.1	0.3	52.2	14.1	66.8	10.4	9.2	5.9	25.5	7.7	FSL
	Eg22	24-33	0.1	0.1	0.3	55.9	7.8	64.2	14.4	8.7	4.9	28.0	7.8	FSL
	Btg1	33-43	0.1	0.1	0.2	47.5	11.4	59.3	4.6	4.7	4.3	13.6	27.1	SCL
	Btg2	43-53	0.1	0.1	0.2	58.5	4.9	63.8	10.3	0.6	2.6	13.5	22.7	SCL
	BCg	53-67	0.1	0.1	0.6	66.2	5.3	72.3	---	---	---	14.7	13.0	FSL
	Cg1	67-80	0.1	0.1	0.4	72.2	5.5	78.3	---	---	---	14.1	7.6	LFS
	Cg2	80-90	0.1	0.1	0.5	71.9	10.1	88.7	---	---	---	5.6	5.7	FS
Tipp (S91AR-147-07)	Ap1	0-5	0.1	0.2	0.2	0.8	1.2	2.5	13.6	38.5	16.7	68.8	28.7	SICL
	Ap2	5-10	0.1	0.2	0.2	0.6	1.2	2.3	12.1	37.5	16.5	66.1	31.6	SICL
	Bw1	10-21	0.1	0.3	0.5	1.1	1.0	3.0	5.1	31.5	20.2	56.8	40.2	SIC
	Bw2	21-34	0.1	0.3	0.4	1.0	0.9	2.7	6.1	32.6	17.2	55.9	41.4	SIC
	Bw3	34-47	0.4	0.8	0.9	1.6	1.3	5.0	3.2	26.6	19.7	49.5	45.5	SIC
	Bw4	47-60	0.1	0.5	1.1	1.9	1.6	5.2	7.7	28.6	16.4	52.7	42.1	SIC
	Bw5	60-77	0.1	0.3	0.5	1.0	1.5	3.4	14.4	34.4	9.6	58.4	38.2	SICL
Tuckerman (S91AR-147-03)	Ap	0-7	0.1	0.1	0.8	43.5	4.5	49.0	27.9	8.6	5.1	41.6	9.4	L
	Eg1	7-12	0.1	0.1	0.6	39.7	9.3	49.8	30.0	8.6	4.7	43.3	6.9	FSL
	Eg2	12-18	0.1	0.1	0.6	40.4	9.3	50.5	2.0	35.2	3.3	40.5	9.0	L
	Btg1	18-25	0.1	0.1	0.6	36.4	7.8	45.0	25.7	9.5	2.3	37.5	17.5	L
	Btg2	25-36	0.1	0.2	0.6	25.2	6.5	32.6	15.1	18.5	5.6	39.2	28.2	CL
	Btg3	36-48	0.4	0.9	1.4	23.9	7.1	33.7	11.4	23.5	4.5	39.4	26.9	L
	BCg	48-57	0.1	0.1	0.9	69.1	2.1	72.3	8.0	4.4	2.4	14.8	12.9	FSL
	Cg1	57-68	0.1	0.5	1.2	81.9	2.9	86.6	---	---	---	8.1	5.3	LFS
	Cg2	68-77	0.2	0.5	4.9	33.7	4.7	44.0	28.4	12.2	2.5	43.1	12.9	L
	Cg3	77-86	0.1	1.3	39.5	48.3	2.2	91.4	2.8	1.6	2.2	6.6	2.0	S
Wiville (S89AR-147-02)	Ap1	0-5	0.0	0.2	6.8	52.6	11.5	71.1	11.5	9.8	1.4	22.7	6.2	FSL
	Ap2	5-11	0.0	0.2	5.6	54.5	11.8	72.1	10.6	8.1	2.8	21.5	6.4	FSL
	BA	11-18	0.0	0.2	4.7	44.6	11.8	61.3	12.0	10.9	4.3	27.2	11.5	FSL
	Bt1	18-27	0.0	0.2	3.9	42.1	12.3	58.5	12.3	11.1	4.3	27.7	13.8	FSL
	Bt21	27-37	0.0	0.1	3.0	35.1	14.2	52.4	9.2	9.6	4.2	23.0	24.6	SCL
	Bt22	37-47	0.0	0.1	2.6	36.4	18.2	57.3	11.2	4.9	3.2	19.3	23.4	SCL
	Bt23	47-56	0.0	0.1	5.8	42.2	18.3	66.4	10.1	4.5	0.4	15.0	18.6	FSL
	BC	56-64	0.0	0.4	11.8	55.9	9.6	77.5	7.9	1.9	1.4	11.2	11.3	FSL
	C	64-78	0.0	0.1	5.4	81.8	4.5	91.8	3.3	0.5	0.3	4.1	4.1	FS

Table 16.--Physical Test Data for Selected Soils--Continued

Soil name and pedon number	Horizon	Depth (in)	Fine earth particle-size distribution (percent)											Textural Class
			Sand (mm)					Silt (um)				Clay (um)		
			Very coarse (2-1)	Coarse (1-0.5)	Medium (0.5-0.25)	Fine (0.25-0.1)	Very fine (0.1-0.05)	Total (2-0.05)	Coarse (50-20)	Medium (20-5)	Fine (5-2)	Total (50-2)	Total (<2)	
Yancopin (S91AR-147-06)	Ap	0-4	0.2	0.3	0.3	5.3	4.0	10.1	13.5	33.5	13.6	60.6	29.3	SICL
	Bg11	4-16	0.1	0.1	0.2	1.3	2.9	4.6	13.6	32.9	14.8	61.3	34.1	SICL
	Bg12	16-28	0.2	0.4	0.4	1.5	4.2	6.7	17.2	32.2	12.2	61.6	31.7	SICL
	Bg13	28-40	0.3	0.6	0.5	2.2	4.9	8.5	18.0	31.7	12.2	61.9	29.6	SICL
	Bg21	40-48	0.2	0.5	0.7	2.0	3.0	6.4	13.4	29.6	15.3	58.3	35.3	SICL
	Bg22	48-56	0.7	1.1	0.9	2.2	2.0	6.9	13.0	28.4	15.2	56.6	36.5	SICL
	BC11	56-66	0.6	1.1	0.9	2.1	2.5	7.2	14.3	29.7	13.0	57.0	35.8	SICL
	BC12	66-76	0.3	1.0	0.9	2.1	2.7	7.0	16.3	29.3	12.4	58.0	35.0	SICL