

TABLE 16. --PHYSICAL PROPERTIES OF SELECTED SOILS

Soil name and sample number	Depth	Horizon	Particle size distribution (Percent less than 2 mm)							Silt (0.05- 0.002)	Clay <0.002	Carbonate as calcium carbonate		COLE Gm/Cm	Bulk density 1/3 bar Gm/Cm ³	Water content 15 bar Pct (wt)
			Sand			Very fine (0.10-0.05)						Pct	Pct			
			Very coarse (2.0-1.0)	Coarse (1.0-0.5)	Medium (0.5-0.25)	Fine (0.25-0.10)	Very fine (0.10-0.05)	Total (2.0-0.05)								
Antosa (S77TX-127-1)																
78P0294	0-14	A11	0.7	8.6	32.1	45.7	7.3	94.4	2.8	2.8	---	---	---	---	1.0	
78P0295	14-24	A12	0.7	7.2	29.6	47.5	9.0	94.0	2.8	3.2	---	---	---	---	0.8	
78P0296	24-30	A2	0.9	7.8	29.1	47.7	8.7	94.2	3.0	2.8	---	---	---	---	1.0	
78P0297	30-38	B21t	0.3	5.0	19.1	28.8	5.3	58.5	3.6	37.9	---	---	---	---	14.5	
78P0298	38-47	B22t	0.7	5.9	20.9	31.5	5.7	64.7	4.1	31.2	---	---	---	---	13.2	
78P0299	47-72	B23t	1.0	7.0	23.0	30.0	6.3	67.3	5.7	27.0	---	---	---	---	11.7	
Bookout (S79TX-507-003)																
79P1733	0-1	A11	0.9	0.4	1.5	4.5	22.0	29.3	40.4	30.3	5.0	18.0	---	---	13.7	
79P1734	1-14	A12	0.3	0.3	1.3	8.7	17.5	28.1	39.3	32.6	7.0	19.0	---	---	14.2	
79P1735	14-24	B21ca	0.2	0.3	1.0	3.1	19.4	24.0	42.1	33.9	8.0	23.0	---	---	14.1	
79P1736	24-35	B22ca	0.3	0.4	0.8	2.3	16.7	20.5	34.6	44.9	14.0	31.0	---	---	14.5	
79P1737	35-50	B23ca	0.6	0.6	0.7	2.0	12.2	16.1	38.2	45.7	20.0	46.0	---	---	13.0	
79P1738	50-64	B24ca	0.4	0.5	0.5	1.1	6.7	9.2	45.5	45.3	20.0	47.0	---	---	12.6	
79P1739	64-80	B25ca	0.6	0.3	0.4	2.8	7.3	11.4	43.3	45.3	15.0	45.0	---	---	12.7	
Conalb (S79TX-507-002)																
79P1728	0-6	Ap	0.2	0.2	0.8	5.5	33.7	40.4	45.6	14.0	5.0	63.0	---	---	7.4	
79P1729	6-14	A1	0.1	0.2	0.6	5.2	33.3	39.4	43.4	17.2	3.0	64.0	---	---	7.7	
79P1730	14-28	B2	*TR	0.1	0.6	11.6	22.8	35.1	44.8	20.1	7.0	63.0	---	---	9.0	
79P1731	28-56	C1	TR	0.2	0.9	6.2	31.1	38.4	43.6	18.0	5.0	65.0	---	---	8.2	
79P1732	56-80	C2	TR	0.1	0.3	2.6	29.6	32.6	48.1	19.3	5.0	60.0	---	---	8.8	
Uvalde (S63TX-254-1)																
18249	0-6	Ap	0.3	0.5	1.9	9.4	18.5	30.8	40.0	29.2	4.0	15.0	0.024	1.28	11.6	
18250	6-15	A1	0.3	0.8	1.5	7.6	16.5	26.4	37.1	36.5	6.0	22.0	0.032	1.28	13.1	
18251	15-23	B21ca	0.3	0.7	1.4	7.0	15.6	25.0	37.2	37.8	8.0	24.0	0.036	1.28	13.4	
18252	23-31	B22ca	0.5	0.7	1.2	6.5	13.2	24.0	37.2	38.8	13.0	29.0	0.038	1.36	12.5	
18253	31-45	B23ca	0.9	0.7	1.0	5.4	13.1	21.2	40.8	38.0	14.0	33.0	0.028	1.36	11.4	
18254	45-59	C1ca	0.5	0.6	0.8	3.9	10.4	16.2	44.8	39.0	17.0	46.0	0.024	1.48	10.4	
18255	59-70	C2ca	0.7	0.4	0.6	3.7	9.5	14.9	45.7	32.4	17.0	48.0	0.028	1.56	10.6	
18256	70-82	C3ca	0.2	0.4	0.6	3.5	8.8	13.5	45.7	40.8	17.0	50.0	0.036	1.46	11.2	
18257	82-96	I1Cca	6.9	5.7	2.6	3.8	4.4	23.4	46.4	30.2	16.0	71.0	---	---	9.4	

TABLE 16.--PHYSICAL PROPERTIES OF SELECTED SOILS--Continued

Soil name and sample number	Depth	Horizon	Particle size distribution (Percent less than 2 mm)										Carbonate as calcium carbonate		COLE	Bulk density	Water content	
			Sand			Silt	Clay	Total	Pct		Gm/Cm	Gm/cm ³	Pct (wt)					
			Very coarse (2.0-1.0)	Coarse (1.0-0.5)	Medium (0.5-0.25)				Fine (0.25-0.10)	Very fine (0.10-0.05)				<0.002	<2mm			
Uvalde (S63TX-254-2)	In																	
18258	0-6	Ap	0.1	0.8	2.7	11.5	21.1	36.2	37.4	26.4	4.0	17.0	0.020	1.09	11.0			
18259	6-15	A1	0.1	0.9	2.3	10.2	19.2	32.7	35.7	31.6	7.0	21.0	0.017	1.11	12.0			
18260	15-24	B21ca	0.2	0.7	1.8	8.6	16.3	27.6	36.1	36.3	10.0	27.0	0.024	1.22	12.5			
18261	24-33	B22ca	0.3	0.7	1.5	7.1	15.1	24.7	37.3	38.0	12.0	30.0	--	1.30	12.2			
18262	33-46	B23ca	1.1	1.1	1.2	6.0	13.0	22.4	40.1	37.5	17.0	41.0	0.020	1.30	10.9			
18263	46-57	C1ca	0.8	0.9	1.1	4.9	10.5	18.2	44.0	37.8	18.0	49.0	--	1.40	10.7			
18264	57-69	C2ca	1.8	1.1	1.0	4.2	8.7	16.8	45.2	38.0	16.0	53.0	0.017	1.44	11.4			
18265	69-86	C3ca	1.2	1.3	1.1	4.9	11.0	19.5	43.9	36.6	8.0	51.0	--	--	13.6			
18266	86-108	C4ca	0.4	0.3	0.5	2.8	7.3	11.3	50.9	37.8	10.0	51.0	--	--	11.8			

* TR means trace.