

Table 13.--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 "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	Permeability	Available	Soil	Shrink-swell	Erosion factors		Organic matter
	In	Pct	bulk density	In/hr	water capacity	reaction	potential	K	T	Pct
			g/cc		In/in	pH				
AmA----- Amagon	0-3	0-25	1.35-1.50	0.6-2.0	0.14-0.20	4.5-6.5	Low-----	0.43	5	.5-2
	3-15	8-18	1.35-1.50	0.6-2.0	0.14-0.20	4.5-6.5	Low-----	0.43		
	15-53	18-35	1.35-1.50	0.06-0.2	0.13-0.20	4.5-6.5	Moderate----	0.37		
	53-80	12-30	1.35-1.60	0.02-2.0	0.10-0.20	5.1-7.8	Low-----	0.43		
AsB----- Askew	0-5	5-15	1.40-1.50	2.0-6.0	0.10-0.14	5.1-6.5	Low-----	0.28	5	.5-3
	5-26	18-35	1.35-1.50	0.6-2.0	0.13-0.20	4.5-6.5	Moderate----	0.37		
	26-41	10-20	1.35-1.60	0.6-6.0	0.10-0.19	4.5-6.5	Low-----	0.24		
	41-72	3-10	1.45-1.65	6.0-20	0.04-0.13	4.5-6.5	Low-----	0.20		
BsA, BsB, BsC---- Bosket	0-10	8-20	1.40-1.50	0.6-2.0	0.13-0.19	5.1-7.3	Low-----	0.32	5	.5-2
	10-20	12-20	1.40-1.50	0.6-2.0	0.10-0.19	5.1-7.3	Low-----	0.32		
	20-40	18-30	1.35-1.50	0.6-2.0	0.13-0.20	5.1-7.3	Low-----	0.32		
	40-51	8-20	1.40-1.50	0.6-2.0	0.10-0.19	5.1-7.3	Low-----	0.32		
BuC----- Bulltown	0-8	4-10	1.45-1.65	6.0-20	0.08-0.11	5.1-6.5	Low-----	0.17	5	.5-2
	8-26	4-10	1.45-1.65	6.0-20	0.06-0.11	5.1-6.5	Low-----	0.17		
	26-51	14-26	1.40-1.55	2.0-6.0	0.10-0.19	4.5-6.0	Low-----	0.24		
	51-69	8-20	1.45-1.65	2.0-20	0.06-0.14	4.5-6.0	Low-----	0.20		
CaA----- Calhoun	0-6	10-22	1.30-1.50	0.6-2.0	0.14-0.20	5.1-6.0	Low-----	0.49	5	.5-2
	6-16	10-22	1.30-1.50	0.6-2.0	0.14-0.20	4.5-6.0	Low-----	0.49		
	16-54	20-35	1.30-1.50	0.06-0.2	0.14-0.20	4.5-5.5	Moderate----	0.43		
	54-72	10-30	1.40-1.50	0.2-0.6	0.14-0.20	4.5-6.0	Low-----	0.43		
ClA, ClB----- Calloway	0-5	10-22	1.35-1.50	0.6-2.0	0.14-0.20	4.5-6.0	Low-----	0.49	4	.5-2
	5-8	6-18	1.35-1.50	0.6-2.0	0.14-0.20	4.5-6.0	Low-----	0.49		
	8-18	10-30	1.35-1.50	0.6-2.0	0.14-0.20	4.5-6.0	Low-----	0.49		
	18-23	6-14	1.40-1.55	0.6-2.0	0.14-0.20	4.5-6.0	Low-----	0.49		
	23-42	16-32	1.45-1.60	0.06-0.2	0.07-0.10	4.5-6.0	Low-----	0.43		
	42-72	10-32	1.45-1.60	0.06-0.2	0.07-0.10	4.5-6.0	Low-----	0.43		
DbA, DbB, DbC---- Dubbs	0-5	8-18	1.40-1.50	0.6-2.0	0.14-0.20	4.5-6.0	Low-----	0.37	5	.5-2
	5-12	8-18	1.40-1.50	0.6-2.0	0.13-0.20	4.5-6.0	Low-----	0.37		
	12-50	20-32	1.35-1.45	0.6-2.0	0.13-0.20	4.5-6.0	Moderate----	0.37		
	50-60	10-25	1.40-1.50	0.6-2.0	0.13-0.20	4.5-6.0	Low-----	0.37		
DuA----- Dundee	0-6	10-22	1.35-1.50	0.6-2.0	0.14-0.20	4.5-6.0	Low-----	0.43	5	.5-2
	6-32	18-34	1.35-1.50	0.2-0.6	0.14-0.20	4.5-6.0	Moderate----	0.32		
	32-72	12-25	1.35-1.50	0.6-2.0	0.13-0.20	4.5-6.0	Low-----	0.32		
FbA*: Foley-----	0-9	10-20	1.30-1.50	0.6-2.0	0.14-0.20	4.5-6.0	Low-----	0.43	5	.5-2
	9-20	6-18	1.30-1.50	0.6-2.0	0.14-0.20	5.1-7.3	Low-----	0.43		
	20-67	20-40	1.25-1.50	<0.06	0.08-0.12	5.1-9.0	Moderate----	0.43		
	67-80	8-30	1.30-1.50	<0.2	0.08-0.12	6.1-9.0	Low-----	0.49		
Bonn-----	0-5	10-20	1.30-1.50	0.6-2.0	0.14-0.20	5.1-7.3	Low-----	0.49	3	.5-2
	5-9	6-18	1.30-1.50	0.6-2.0	0.14-0.20	5.1-7.3	Low-----	0.49		
	9-55	18-35	1.25-1.50	<0.06	0.08-0.12	5.6-9.0	Moderate----	0.49		
	55-72	15-30	1.25-1.50	<0.2	0.08-0.12	6.6-9.0	Low-----	0.49		

See footnote at end of table.

Table 13.--Physical and Chemical Properties of the Soils--Continued

Soil name and map symbol	Depth	Clay	Moist	Permeability	Available	Soil	Shrink-swell	Erosion		Organic
			bulk		water	reaction	potential	factors		matter
	In	Pct	g/cc	In/hr	In/in	pH		K	T	Pct
FdA----- Forestdale	0-6	27-40	1.25-1.40	0.2-0.6	0.14-0.20	4.5-6.0	Moderate	0.37	5	1-3
	6-58	35-50	1.20-1.35	<0.06	0.14-0.20	4.5-6.0	High	0.28		
	58-72	10-35	1.25-1.40	0.2-0.6	0.14-0.20	4.5-7.8	Moderate	0.37		
GrB, GrC----- Grenada	0-4	12-20	1.40-1.50	0.6-2.0	0.14-0.20	4.5-6.0	Low	0.49	4-3	.5-2
	4-22	18-30	1.40-1.50	0.6-2.0	0.14-0.20	4.5-6.0	Low	0.43		
	22-24	6-16	1.35-1.50	0.6-2.0	0.10-0.20	4.5-6.0	Low	0.49		
	24-50	15-32	1.45-1.60	0.06-0.2	0.07-0.10	4.5-6.0	Low	0.37		
	50-72	15-32	1.45-1.60	0.06-0.2	0.07-0.10	4.5-6.5	Low	0.37		
GuB, GuC----- Grubbs	0-5	10-20	1.35-1.50	0.6-2.0	0.14-0.20	5.6-6.5	Low	0.43	5	.5-2
	5-26	30-60	1.20-1.40	<0.06	0.14-0.20	4.5-6.0	High	0.43		
	26-52	24-50	1.25-1.45	0.06-0.2	0.14-0.20	4.5-6.0	High	0.32		
	52-64	20-40	1.35-1.50	0.06-0.2	0.14-0.20	5.1-7.3	Moderate	0.37		
	64-76	15-30	1.35-1.50	0.2-0.6	0.14-0.20	5.1-7.3	Moderate	0.37		
HeA----- Henry	0-6	10-18	1.35-1.45	0.6-2.0	0.14-0.20	4.5-5.5	Low	0.49	4	.5-2
	6-22	8-18	1.40-1.50	0.6-2.0	0.14-0.20	4.5-5.5	Low	0.49		
	22-60	18-32	1.45-1.60	0.06-0.2	0.07-0.10	4.5-5.5	Low	0.43		
	60-72	8-20	1.35-1.50	0.2-0.6	0.14-0.20	4.5-6.0	Low	0.49		
HmA, HmB----- Hillemann	0-8	10-20	1.35-1.50	0.6-2.0	0.14-0.20	5.1-7.3	Low	0.49	5	.5-2
	8-15	8-20	1.35-1.50	0.6-2.0	0.14-0.20	5.1-6.0	Low	0.49		
	15-23	27-45	1.30-1.45	<0.06	0.14-0.20	4.5-6.0	Moderate	0.43		
	23-28	24-45	1.35-1.50	<0.06	0.07-0.10	4.5-6.0	Moderate	0.49		
	28-80	20-40	1.35-1.50	<0.2	0.07-0.10	4.5-8.4	Low	0.49		
JpA----- Jackport	0-5	27-40	1.25-1.40	0.2-0.6	0.14-0.20	4.5-6.5	Moderate	0.37	5	1-3
	5-12	40-60	1.15-1.30	0.00-0.06	0.14-0.20	4.5-5.5	Very high	0.32		
	12-58	40-60	1.15-1.30	0.00-0.06	0.14-0.20	4.5-5.5	Very high	0.32		
	58-72	27-50	1.20-1.45	<0.2	0.14-0.20	6.1-7.8	High	0.32		
KbA, KlA, KoA---- Kobel	0-4	27-40	1.25-1.40	0.2-0.6	0.14-0.20	5.6-7.3	Moderate	0.37	5	1-3
	4-60	35-60	1.15-1.40	0.00-0.06	0.14-0.20	6.1-7.8	Very high	0.37		
	60-72	30-50	1.20-1.40	0.06-0.2	0.14-0.20	6.6-8.4	High	0.37		
LfA----- Lafe	0-4	10-25	1.35-1.50	0.6-2.0	0.14-0.20	5.1-6.5	Low	0.49	2	.5-2
	4-8	10-25	1.35-1.50	0.6-2.0	0.14-0.20	5.1-6.5	Low	0.49		
	8-22	18-35	1.30-1.50	0.06-0.2	0.14-0.20	7.4-9.0	Moderate	0.49		
	22-72	20-40	1.30-1.50	<0.06	0.14-0.20	7.9-9.0	Moderate	0.49		
Lv----- Levee	---	---	---	---	---	---	---	---	---	---
McA----- McCroxy	0-7	8-18	1.30-1.60	0.6-2.0	0.10-0.14	5.1-6.5	Low	0.24	5	.5-2
	7-15	5-16	1.30-1.65	0.6-2.0	0.10-0.14	5.1-6.5	Low	0.20		
	15-70	15-35	1.30-1.60	0.2-0.6	0.05-0.19	5.1-9.0	Low	0.32		
	70-98	5-18	1.40-1.65	0.6-6.0	0.03-0.14	6.6-9.0	Low	0.24		
OaB----- Oaklimeter	0-6	10-16	1.40-1.50	0.6-2.0	0.14-0.20	4.5-5.5	Low	0.43	5	.5-2
	6-30	7-18	1.40-1.50	0.6-2.0	0.14-0.20	4.5-5.5	Low	0.43		
	30-72	10-32	1.40-1.50	0.6-2.0	0.24-0.20	4.5-5.5	Low	0.43		
OvA----- Overcup	0-4	15-27	1.30-1.45	0.6-2.0	0.14-0.20	5.1-6.0	Low	0.43	5	.5-2
	4-8	12-27	1.30-1.45	0.6-2.0	0.14-0.20	5.1-6.0	Low	0.43		
	8-61	40-60	1.20-1.35	0.00-0.06	0.14-0.20	4.5-6.5	Very high	0.37		
	61-72	27-50	1.25-1.40	0.06-0.2	0.14-0.20	5.1-8.4	High	0.37		

See footnote at end of table.

Table 13.--Physical and Chemical Properties of the Soils--Continued

Soil name and map symbol	Depth	Clay	Moist	Permeability	Available	Soil	Shrink-swell	Erosion		Organic
			bulk		water	reaction	potential	factors		matter
	In	Pct	g/cc	In/hr	In/in	pH		K	T	Pct
PaB----- Patterson	0-10	4-15	1.40-1.50	2.0-6.0	0.10-0.14	4.5-6.5	Low-----	0.28	5	.5-2
	10-33	3-12	1.40-1.55	2.0-6.0	0.08-0.14	4.5-5.5	Low-----	0.24		
	33-53	18-30	1.35-1.50	0.6-2.0	0.10-0.19	4.5-5.5	Low-----	0.32		
	53-67	10-20	1.35-1.50	0.6-2.0	0.10-0.14	4.5-5.5	Low-----	0.28		
	67-90	3-15	1.40-1.60	2.0-20	0.05-0.14	4.5-7.3	Low-----	0.20		
TaB, TbB----- Taylorbay	0-25	14-27	1.30-1.45	0.6-2.0	0.14-0.20	6.1-7.8	Low-----	0.37	5	2-4
	25-56	18-35	1.30-1.45	0.2-2.0	0.14-0.20	6.1-7.8	Moderate----	0.37		
	56-72	20-40	1.30-1.45	0.2-2.0	0.14-0.20	6.1-7.8	Moderate----	0.32		
TcA----- Tichnor	0-6	10-27	1.35-1.50	0.6-2.0	0.14-0.20	5.1-6.0	Low-----	0.43	5	.5-3
	6-27	5-27	1.35-1.55	0.6-2.0	0.14-0.20	4.5-6.0	Low-----	0.43		
	27-72	15-40	1.35-1.45	0.2-0.6	0.14-0.20	4.5-5.5	Low-----	0.37		
TiB, TpB----- Tipp	0-10	27-35	1.30-1.45	0.2-0.6	0.14-0.20	5.6-7.3	Moderate----	0.32	5	2-4
	10-47	35-50	1.25-1.45	0.06-0.2	0.14-0.20	5.6-7.3	Moderate----	0.32		
	47-77	30-45	1.30-1.45	0.2-0.6	0.13-0.20	5.6-7.8	Moderate----	0.37		
TrA----- Tuckerman	0-7	8-20	1.35-1.45	0.6-2.0	0.13-0.19	4.5-6.0	Low-----	0.32	5	.5-2
	7-18	5-15	1.35-1.50	0.6-2.0	0.10-0.19	4.5-6.0	Low-----	0.28		
	18-48	18-35	1.35-1.50	0.2-0.6	0.13-0.20	4.5-6.0	Low-----	0.32		
	48-57	10-20	1.40-1.55	0.6-2.0	0.10-0.19	4.5-6.0	Low-----	0.28		
	57-86	2-18	1.40-1.60	0.6-20	0.04-0.19	5.1-8.4	Low-----	0.20		
TuA----- Tuckerman	0-6	27-40	1.30-1.40	0.2-0.6	0.14-0.20	4.5-6.0	Moderate----	0.37	5	.5-3
	6-18	5-15	1.35-1.50	0.6-2.0	0.10-0.19	4.5-6.0	Low-----	0.28		
	18-48	18-35	1.35-1.50	0.2-0.6	0.13-0.20	4.5-6.0	Low-----	0.32		
	48-57	10-20	1.40-1.55	0.6-2.0	0.10-0.19	4.5-6.0	Low-----	0.28		
	57-86	2-18	1.40-1.60	0.6-20	0.04-0.19	5.1-8.4	Low-----	0.20		
W*. Water										
WvA, WvB, WvC---- Wiville	0-11	4-10	1.40-1.60	0.6-2.0	0.10-0.14	5.1-7.3	Low-----	0.24	5	.5-2
	11-18	8-15	1.40-1.60	0.6-2.0	0.10-0.19	5.1-7.3	Low-----	0.20		
	18-56	10-30	1.40-1.55	0.6-2.0	0.10-0.20	5.1-6.5	Low-----	0.24		
	56-64	6-20	1.40-1.65	0.6-6.0	0.06-0.14	5.1-6.5	Low-----	0.20		
	64-80	2-10	1.45-1.65	6.0-20	0.04-0.11	5.1-7.3	Low-----	0.15		
YaB, YpB----- Yancopin	0-4	27-40	1.25-1.45	0.2-0.6	0.14-0.20	5.6-7.3	Moderate----	0.37	5	1-3
	4-56	20-40	1.25-1.45	0.2-2.0	0.14-0.20	5.6-7.3	Moderate----	0.37		
	56-76	20-40	1.25-1.45	0.2-2.0	0.13-0.20	5.6-7.3	Moderate----	0.32		

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