

Physical Properties of the Soils

Monroe County, Alabama

NOTE: Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
ArF:														
Arundel-----	0-5	---	---	15-25	1.40-1.50	0.57-1.98	0.14-0.17	0.0-2.9	0.5-1.0	.37	.37	3	---	---
	5-22	---	---	35-78	1.55-1.65	0.00-0.06	0.12-0.18	6.0-8.9	---	.32	.37			
	22-60	---	---	0-0	---	0.00-0.00	0.00-0.00	---	---	---	---			
AtA:														
Atmore-----	0-6	---	---	2-12	1.35-1.60	0.57-1.98	0.16-0.24	0.0-2.9	0.5-3.0	.37	.37	5	5	56
	6-50	---	---	6-18	1.35-1.60	0.57-1.98	0.16-0.24	0.0-2.9	---	.37	.37			
	50-68	---	---	15-40	1.45-1.65	0.20-0.57	0.18-0.22	0.0-2.9	---	.32	.32			
BaB:														
Bama-----	0-13	---	---	7-22	1.30-1.60	0.57-5.95	0.08-0.15	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	13-40	---	---	18-32	1.40-1.55	0.57-1.98	0.12-0.18	0.0-2.9	---	.32	.32			
	40-60	---	---	20-35	1.40-1.60	0.57-1.98	0.12-0.18	0.0-2.9	---	.32	.32			
BaC:														
Bama-----	0-13	---	---	7-22	1.30-1.60	0.57-5.95	0.08-0.15	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	13-40	---	---	18-32	1.40-1.55	0.57-1.98	0.12-0.18	0.0-2.9	---	.32	.32			
	40-60	---	---	20-35	1.40-1.60	0.57-1.98	0.12-0.18	0.0-2.9	---	.32	.32			
BbC:														
Bama-----	0-13	---	---	7-22	1.30-1.60	0.57-5.95	0.08-0.15	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	13-40	---	---	18-32	1.40-1.55	0.57-1.98	0.12-0.18	0.0-2.9	---	.32	.32			
	40-60	---	---	20-35	1.40-1.60	0.57-1.98	0.12-0.18	0.0-2.9	---	.32	.32			
Urban Land-----	0-6	---	---	---	---	---	0.00-0.00	---	---	---	---	-	---	---
BeB:														
Beatrice-----	0-3	---	---	10-25	1.20-1.50	0.57-1.98	0.15-0.24	0.0-2.9	0.5-1.0	.37	.37	4	6	48
	3-50	---	---	60-80	1.05-1.40	0.00-0.06	0.12-0.18	6.0-8.9	0.0-0.5	.32	.32			
	50-72	---	---	---	---	0.00-0.00	---	---	0.0-0.5	---	---			
BeC:														
Beatrice-----	0-3	---	---	10-25	1.20-1.50	0.57-1.98	0.15-0.24	0.0-2.9	0.5-1.0	.37	.37	4	6	48
	3-50	---	---	60-80	1.05-1.40	0.00-0.06	0.12-0.18	6.0-8.9	0.0-0.5	.32	.32			
	50-72	---	---	---	---	0.00-0.00	---	---	0.0-0.5	---	---			

Physical Properties of the Soils, cont.

Monroe County, Alabama

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
BnB:														
Benndale-----	0-10	---	---	6-14	1.45-1.55	0.57-1.98	0.10-0.15	0.0-2.9	1.0-3.0	.20	.20	5	---	---
	10-57	---	---	10-18	1.55-1.65	0.57-1.98	0.12-0.18	0.0-2.9	---	.28	.28			
	57-64	---	---	14-28	1.55-1.65	0.57-1.98	0.12-0.18	0.0-2.9	---	.32	.32			
BrA:														
Bibb-----	0-8	---	---	2-18	1.40-1.65	0.57-1.98	0.15-0.20	0.0-2.9	1.0-3.0	.28	.28	5	5	56
	8-60	---	---	2-18	1.45-1.75	0.57-1.98	0.10-0.20	0.0-2.9	0.5-1.0	.37	.37			
BsB:														
Bigbee-----	0-13	---	---	1-10	1.40-1.50	5.95-19.98	0.05-0.10	0.0-2.9	0.5-2.0	.10	.10	5	---	---
	13-80	---	---	1-10	1.40-1.50	5.95-19.98	0.05-0.08	0.0-2.9	---	.17	.17			
CaA:														
Cahaba-----	0-9	---	---	7-17	1.35-1.60	1.98-5.95	0.10-0.14	0.0-2.9	0.5-2.0	.24	.24	5	3	86
	9-50	---	---	18-35	1.35-1.60	0.57-1.98	0.12-0.20	0.0-2.9	---	.28	.28			
	50-65	---	---	4-20	1.40-1.70	1.98-19.98	0.05-0.10	0.0-2.9	---	.24	.24			
ChB:														
Chrysler-----	0-7	---	---	10-20	1.35-1.55	0.57-1.98	0.14-0.20	0.0-2.9	0.5-2.0	.37	.37	5	6	48
	7-72	---	---	35-60	1.20-1.50	0.06-0.20	0.14-0.18	3.0-5.9	0.0-0.5	.32	.32			
	72-96	---	---	10-60	1.20-1.50	0.06-0.20	0.12-0.16	0.0-2.9	0.0-0.5	.32	---			
CnB:														
Congaree-----	0-6	---	---	10-25	1.20-1.40	0.57-1.98	0.12-0.20	0.0-2.9	1.0-4.0	.37	.37	5	6	48
	6-34	---	---	18-35	1.20-1.50	0.57-1.98	0.12-0.20	0.0-2.9	1.0-3.0	.37	.37			
	34-60	---	---	---	---	---	---	---	---	---	---			
ECA:														
Escambia-----	0-11	---	---	5-14	1.35-1.55	1.98-5.95	0.11-0.15	0.0-2.9	0.5-2.0	.24	.24	5	3	86
	11-42	---	---	8-18	1.35-1.55	0.57-1.98	0.15-0.20	0.0-2.9	---	.24	.24			
	42-79	---	---	8-35	1.45-1.65	0.06-0.57	0.10-0.18	0.0-2.9	---	.28	.28			
EsC:														
Esto-----	0-4	---	---	8-20	1.45-1.65	1.98-5.95	0.11-0.15	0.0-2.9	0.5-2.0	.28	.28	5	3	86
	4-10	---	---	26-45	1.45-1.60	0.57-1.98	0.12-0.17	3.0-5.9	0.5-1.0	.32	.32			
	10-61	---	---	35-60	1.30-1.55	0.06-0.20	0.12-0.18	3.0-5.9	0.0-0.5	.32	.32			
GdA:														
Grady-----	0-6	---	---	20-30	1.20-1.45	0.57-1.98	0.10-0.18	0.0-2.9	1.0-4.0	.24	.24	5	6	48
	6-13	---	---	20-35	1.40-1.55	0.20-0.57	0.10-0.15	0.0-2.9	---	.10	.10			
	13-65	---	---	45-65	1.50-1.60	0.06-0.20	0.12-0.16	3.0-5.9	---	.10	.10			
GrB:														
Greenville-----	0-6	---	---	5-20	1.30-1.65	0.57-5.95	0.07-0.14	0.0-2.9	0.5-2.0	.24	.24	5	3	86
	6-72	---	---	35-55	1.35-1.55	0.57-1.98	0.14-0.18	0.0-2.9	0.0-0.5	.17	.17			

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Monroe County, Alabama

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
GrC: Greenville-----	0-6	---	---	5-20	1.30-1.65	0.57-5.95	0.07-0.14	0.0-2.9	0.5-2.0	.24	.24	5	3	86
	6-72	---	---	35-55	1.35-1.55	0.57-1.98	0.14-0.18	0.0-2.9	0.0-0.5	.17	.17			
HaB: Halso-----	0-5	---	---	6-20	1.30-1.60	0.57-1.98	0.11-0.15	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	5-31	---	---	40-70	1.10-1.40	0.00-0.06	0.12-0.18	6.0-8.9	0.0-0.5	.32	.32			
	31-47	---	---	25-65	1.30-1.65	0.00-0.06	0.12-0.18	3.0-5.9	0.0-0.5	.24	.37			
	47-60	---	---	---	---	0.00-0.00	---	---	---	---	---			
HaC: Halso-----	0-5	---	---	6-20	1.30-1.60	0.57-1.98	0.11-0.15	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	5-31	---	---	40-70	1.10-1.40	0.00-0.06	0.12-0.18	6.0-8.9	0.0-0.5	.32	.32			
	31-47	---	---	25-65	1.30-1.65	0.00-0.06	0.12-0.18	3.0-5.9	0.0-0.5	.24	.37			
	47-60	---	---	---	---	0.00-0.00	---	---	---	---	---			
ImA: Iuka-----	0-5	---	---	2-10	---	5.95-19.98	0.06-0.10	0.0-2.9	0.5-1.0	.17	.17	5	2	134
	5-30	---	---	8-18	---	0.57-1.98	0.10-0.20	0.0-2.9	---	.28	.28			
	30-66	---	---	5-15	---	0.57-1.98	0.10-0.20	0.0-2.9	---	.20	.20			
Mantachie-----	0-3	---	---	8-20	1.50-1.60	0.57-1.98	0.16-0.20	0.0-2.9	1.0-3.0	.28	.28	5	---	---
	3-66	---	---	18-34	1.50-1.60	0.57-1.98	0.14-0.20	0.0-2.9	---	.28	.28			
IrB: Izagora-----	0-12	---	---	8-20	1.40-1.65	1.98-5.95	0.11-0.20	0.0-2.9	0.5-1.0	.28	.28	5	3	86
	12-35	---	---	18-30	1.40-1.60	0.57-1.98	0.12-0.20	0.0-2.9	---	.32	.32			
	35-63	---	---	35-55	1.30-1.60	0.06-0.20	0.16-0.20	3.0-5.9	---	.32	.32			
LaA: Lenoir-----	0-4	---	---	6-20	1.30-1.50	0.57-1.98	0.14-0.18	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	4-66	---	---	35-60	1.20-1.35	0.06-0.20	0.13-0.15	3.0-5.9	---	.32	.32			
LcA: Lucedale-----	0-8	---	---	1-10	1.40-1.55	0.57-1.98	0.15-0.20	0.0-2.9	0.5-2.0	.24	.24	5	---	---
	8-80	---	---	20-30	1.55-1.70	0.57-1.98	0.14-0.18	0.0-2.9	---	.24	.24			
LcB: Lucedale-----	0-8	---	---	1-10	1.40-1.55	0.57-1.98	0.15-0.20	0.0-2.9	0.5-2.0	.24	.24	5	---	---
	8-80	---	---	20-30	1.55-1.70	0.57-1.98	0.14-0.18	0.0-2.9	---	.24	.24			
LnB: Lucy-----	0-25	---	---	1-12	1.30-1.70	5.95-19.98	0.08-0.12	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	25-34	---	---	10-30	1.40-1.60	1.98-5.95	0.10-0.12	0.0-2.9	---	.24	.24			
	34-66	---	---	20-45	1.40-1.60	0.57-1.98	0.12-0.14	0.0-2.9	---	.28	.28			

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Monroe County, Alabama

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
LnC:														
Lucy-----	0-25	---	---	1-12	1.30-1.70	5.95-19.98	0.08-0.12	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	25-34	---	---	10-30	1.40-1.60	1.98-5.95	0.10-0.12	0.0-2.9	---	.24	.24			
	34-66	---	---	20-45	1.40-1.60	0.57-1.98	0.12-0.14	0.0-2.9	---	.28	.28			
LtE:														
Lucy-----	0-25	---	---	1-12	1.30-1.70	5.95-19.98	0.08-0.12	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	25-34	---	---	10-30	1.40-1.60	1.98-5.95	0.10-0.12	0.0-2.9	---	.24	.24			
	34-66	---	---	20-45	1.40-1.60	0.57-1.98	0.12-0.14	0.0-2.9	---	.28	.28			
Troup-----	0-62	---	---	2-12	1.30-1.70	5.95-19.98	0.08-0.12	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	62-85	---	---	15-35	1.40-1.60	0.57-1.98	0.10-0.13	0.0-2.9	---	.20	.20			
LvC:														
Luverne-----	0-4	---	---	7-20	1.35-1.65	1.98-5.95	0.11-0.15	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	4-26	---	---	35-50	1.25-1.55	0.20-0.57	0.12-0.18	3.0-5.9	---	.28	.28			
	26-50	---	---	20-40	1.35-1.65	0.20-0.57	0.12-0.18	0.0-2.9	---	.28	.28			
	50-72	---	---	10-35	1.35-1.65	0.20-0.57	0.05-0.10	0.0-2.9	---	.28	.28			
LvE:														
Luverne-----	0-4	---	---	7-20	1.35-1.65	1.98-5.95	0.11-0.15	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	4-26	---	---	35-50	1.25-1.55	0.20-0.57	0.12-0.18	3.0-5.9	---	.28	.28			
	26-50	---	---	20-40	1.35-1.65	0.20-0.57	0.12-0.18	0.0-2.9	---	.28	.28			
	50-72	---	---	10-35	1.35-1.65	0.20-0.57	0.05-0.10	0.0-2.9	---	.28	.28			
MaA:														
Malbis-----	0-9	---	---	10-25	1.30-1.60	0.57-1.98	0.10-0.15	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	9-33	---	---	18-33	1.30-1.70	0.57-1.98	0.12-0.20	0.0-2.9	---	.28	.28			
	33-43	---	---	20-35	1.40-1.60	0.57-1.98	0.12-0.17	0.0-2.9	---	.28	.28			
	43-72	---	---	20-35	1.45-1.70	0.20-0.57	0.06-0.12	0.0-2.9	---	.28	.28			
MaB:														
Malbis-----	0-9	---	---	10-25	1.30-1.60	0.57-1.98	0.10-0.15	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	9-33	---	---	18-33	1.30-1.70	0.57-1.98	0.12-0.20	0.0-2.9	---	.28	.28			
	33-43	---	---	20-35	1.40-1.60	0.57-1.98	0.12-0.17	0.0-2.9	---	.28	.28			
	43-72	---	---	20-35	1.45-1.70	0.20-0.57	0.06-0.12	0.0-2.9	---	.28	.28			
MaC:														
Malbis-----	0-9	---	---	10-25	1.30-1.60	0.57-1.98	0.10-0.15	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	9-33	---	---	18-33	1.30-1.70	0.57-1.98	0.12-0.20	0.0-2.9	---	.28	.28			
	33-43	---	---	20-35	1.40-1.60	0.57-1.98	0.12-0.17	0.0-2.9	---	.28	.28			
	43-72	---	---	20-35	1.45-1.70	0.20-0.57	0.06-0.12	0.0-2.9	---	.28	.28			
PoA:														
Poarch-----	0-4	---	---	7-15	1.35-1.55	1.98-5.95	0.10-0.15	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	4-34	---	---	8-18	1.35-1.55	0.57-1.98	0.10-0.20	0.0-2.9	---	.24	.24			
	34-72	---	---	10-25	1.45-1.65	0.20-0.57	0.10-0.20	0.0-2.9	---	.24	.24			

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Monroe County, Alabama

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
PrD: Prim-----	0-9 9-60	---	---	25-35 ---	1.40-1.50 ---	0.20-0.57 0.00-0.00	0.10-0.15 ---	3.0-5.9 ---	1.0-5.0 ---	.24 ---	.32 ---	2	6	48
SfC: Saffell-----	0-10 10-14 14-35 35-60	---	---	5-15 10-27 12-35 8-25	1.35-1.60 1.35-1.60 1.35-1.60 1.40-1.65	1.98-5.95 0.57-1.98 0.57-1.98 0.57-5.95	0.05-0.13 0.06-0.15 0.06-0.12 0.04-0.11	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.0-0.5 0.0-0.5	.15 .28 .28 .17	.24 .28 .37 .20	5	3	86
SfD: Saffell-----	0-10 10-14 14-35 35-60	---	---	5-15 10-27 12-35 8-25	1.35-1.60 1.35-1.60 1.35-1.60 1.40-1.65	1.98-5.95 0.57-1.98 0.57-1.98 0.57-5.95	0.05-0.13 0.06-0.15 0.06-0.12 0.04-0.11	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.0-0.5 0.0-0.5	.15 .28 .28 .17	.24 .28 .37 .20	5	3	86
SgF: Saffell-----	0-10 10-14 14-35 35-60	---	---	5-15 10-27 12-35 8-25	1.35-1.60 1.35-1.60 1.35-1.60 1.40-1.65	1.98-5.95 0.57-1.98 0.57-1.98 0.57-5.95	0.05-0.13 0.06-0.15 0.06-0.12 0.04-0.11	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.0-0.5 0.0-0.5	.15 .28 .28 .17	.24 .28 .37 .20	5	3	86
Lucy-----	0-25 25-34 34-60	---	---	1-12 10-30 20-45	1.30-1.70 1.40-1.60 1.40-1.60	5.95-19.98 1.98-5.95 0.57-1.98	0.08-0.12 0.10-0.12 0.12-0.14	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 --- ---	.10 .24 .28	.10 .24 .28	5	2	134
SmA: Smithton-----	0-5 5-38 38-42 42-72	---	---	5-18 5-18 8-30 8-18	1.40-1.55 1.40-1.55 1.35-1.55 1.40-1.55	0.57-1.98 0.57-1.98 0.20-0.57 0.20-0.57	0.10-0.15 0.10-0.20 0.11-0.20 0.11-0.20	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-3.0 0.5-2.0 0.5-1.0 0.5-1.0	.28 .32 .37 .32	.28 .32 .37 .32	5	3	86
StA: Stough-----	0-25 25-32 32-67	---	---	5-15 8-18 5-27	1.40-1.55 1.45-1.50 1.55-1.65	0.57-1.98 0.20-0.57 0.20-0.57	0.12-0.18 0.07-0.11 0.07-0.11	0.0-2.9 0.0-2.9 0.0-2.9	1.0-4.0 --- ---	.28 .37 .37	.28 --- ---	3	---	---
UdC: Udorthents-----	---	---	---	---	---	---	---	---	---	---	---	-	---	---
UnA: Una-----	0-2 2-72	---	---	28-45 35-55	1.40-1.60 1.40-1.60	0.00-0.06 0.00-0.06	0.15-0.20 0.15-0.20	6.0-8.9 6.0-8.9	1.0-3.0 ---	.32 .28	.32 .28	5	---	---
UrA: Urbo-----	0-6 6-66	---	---	12-35 35-55	1.40-1.50 1.45-1.55	0.06-0.20 0.00-0.06	0.19-0.21 0.18-0.20	0.0-2.9 3.0-5.9	1.0-3.0 ---	.49 .28	.49 .28	5	---	---

Physical Properties of the Soils, cont.

Monroe County, Alabama

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind	Wind
										Kw	Kf	T	erodi- bility group	erodi- bility index
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					