

Chemical Properties of the Soils

Marengo County, Alabama

NOTE: Absence of an entry indicates that data were not estimated.

Map symbol and soil name	Depth	Cation	Effective	Soil	Calcium	Gypsum	Salinity	Sodium
		exchange	cation	reaction	carbon-			
		capacity	exchange		ate			adsorp-
		capacity	capacity					tion
								ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
BaA:								
Bama-----	0-11	---	---	4.5-6.0	---	---	0	---
	11-42	---	---	4.5-5.5	---	---	0	---
	42-65	---	---	4.5-5.5	---	---	0	---
BaB:								
Bama-----	0-7	---	---	4.5-6.0	---	---	0	---
	7-26	---	---	4.5-5.5	---	---	0	---
	26-65	---	---	4.5-5.5	---	---	0	---
BbA:								
Bibb-----	0-8	---	4.0-7.0	3.6-5.5	0	0	0	0
	8-65	---	4.0-10	3.6-5.5	0	0	0	0
Iuka-----	0-10	---	---	5.1-6.0	---	---	0	---
	10-24	---	---	4.5-5.5	---	---	0	---
	24-65	---	---	4.5-5.5	---	---	0	---
BgB:								
Bigbee-----	0-9	---	---	4.5-6.0	---	---	0	---
	9-80	---	---	4.5-6.0	---	---	0	---
BnB:								
Bonneau-----	0-21	---	1.0-4.0	4.5-6.0	0	0	0	0
	21-51	---	2.0-6.0	4.5-5.5	0	0	0	0
	51-65	---	2.0-8.0	4.5-5.5	0	0	0	0
BoB:								
Boykin-----	0-28	1.0-5.0	---	4.5-6.5	0	0	0.0-2.0	0
	28-80	---	10-20	4.5-6.0	0	0	0.0-2.0	0
BpE:								
Boykin-----	0-32	1.0-5.0	---	4.5-6.5	0	0	0.0-2.0	0
	32-65	---	10-20	4.5-6.0	0	0	0.0-2.0	0
Wadley-----	0-57	---	2.0-6.0	4.5-6.0	0	0	0.0-2.0	0
	57-70	---	5.0-20	4.5-6.0	0	0	0.0-2.0	0
BrC:								
Brantley-----	0-10	5.0-15	---	4.5-6.5	0	0	0	0
	10-41	---	10-35	4.5-6.0	0	0	0	0
	41-55	---	10-35	4.5-5.5	0	0	0	0
	55-70	---	5.0-25	4.5-5.5	0	0	0	0
BrD2:								
Brantley-----	0-10	5.0-15	---	4.5-6.5	0	0	0	0
	10-45	---	10-35	4.5-6.0	0	0	0	0
	45-65	---	5.0-25	4.5-5.5	0	0	0	0

Chemical Properties of the Soils, cont.

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
BsF2:								
Brantley-----	0-7	5.0-15	---	4.5-6.5	0	0	0	0
	7-35	---	10-35	4.5-6.0	0	0	0	0
	35-43	---	10-35	4.5-5.5	0	0	0	0
	43-65	---	5.0-25	4.5-5.5	0	0	0	0
Okeelala-----	0-3	---	---	4.5-5.5	---	---	0	---
	3-19	---	---	4.5-5.5	---	---	0	---
	19-65	---	---	4.5-5.5	---	---	0	---
CaA:								
Cahaba-----	0-6	---	---	4.5-6.0	---	---	0	---
	6-47	---	---	4.5-6.0	---	---	0	---
	47-90	---	---	4.5-6.0	---	---	0	---
CbA:								
Cahaba-----	0-7	---	---	4.5-6.0	---	---	0	---
	7-43	---	---	4.5-6.0	---	---	0	---
	43-65	---	---	4.5-6.0	---	---	0	---
CcB:								
Cahaba-----	0-7	---	---	4.5-6.0	---	---	0	---
	7-36	---	---	4.5-6.0	---	---	0	---
	36-65	---	---	4.5-6.0	---	---	0	---
ChB:								
Chrysler-----	0-6	---	---	4.5-5.5	0	0	0	0
	6-42	---	---	4.5-5.5	0	0	0	0
	42-65	---	---	4.5-5.5	0	0	0	0
Lenoir-----	0-10	---	3.0-8.0	3.5-5.5	0	0	0	0
	10-80	---	7.0-13	3.5-5.5	0	0	0	0
CoA:								
Consul-----	0-6	---	---	4.5-6.0	---	---	0	---
	6-52	---	---	4.5-6.0	---	---	0	---
	52-65	---	---	4.5-7.8	---	---	0	---
DeD2:								
Demopolis-----	0-6	---	---	7.4-8.4	---	0	0	0
	6-13	---	---	7.4-8.4	---	0	0	0
	13-65	---	---	---	---	---	---	---
DuD:								
Demopolis-----	0-5	---	---	7.4-8.4	---	0	0	0
	5-11	---	---	7.4-8.4	---	0	0	0
	11-60	---	---	---	---	---	---	---
Urban Land-----	0-6	---	---	---	---	---	0	---
FnB:								
Faunsdale-----	0-7	---	---	6.6-8.4	---	---	0	---
	7-14	---	---	6.6-8.4	---	---	0	---
	14-48	---	---	6.6-8.4	---	---	0	---
	48-60	---	---	6.6-8.4	---	---	0	---
FnC:								
Faunsdale-----	0-5	---	---	6.6-8.4	---	---	0	---
	5-14	---	---	6.6-8.4	---	---	0	---
	14-30	---	---	6.6-8.4	---	---	0	---
	30-68	---	---	6.6-8.4	---	---	0	---
	68-90	---	---	6.6-8.4	---	---	0	---

Chemical Properties of the Soils, cont.

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
FsB:								
Freest-----	0-8	---	---	4.5-5.5	---	---	0	---
	8-24	---	---	4.5-6.0	---	---	0	---
	24-65	---	---	4.5-7.3	---	---	0	---
GdE3:								
Gullied Land-----	0-60	---	---	---	---	---	0	---
Demopolis-----	0-7	---	---	7.4-8.4	---	0	0	0
	7-14	---	---	7.4-8.4	---	0	0	0
	14-60	---	---	---	---	---	---	---
HaB:								
Halso-----	0-7	---	---	3.6-5.5	0	0	0	0
	7-44	---	---	3.6-5.5	0	0	0	0
	44-65	---	---	---	---	---	---	---
HaD2:								
Halso-----	0-4	---	---	3.6-5.5	0	0	0	0
	4-50	---	---	3.6-5.5	0	0	0	0
	50-65	---	---	---	---	---	---	---
HbA:								
Harleston-----	0-14	---	---	3.6-5.5	---	---	0	---
	14-48	---	---	4.5-5.5	---	---	0	---
	48-65	---	---	4.5-5.5	---	---	0	---
Bigbee-----	0-5	---	---	4.5-6.0	---	---	0	---
	5-65	---	---	4.5-6.0	---	---	0	---
HoA:								
Houlka-----	0-6	---	---	4.5-5.5	---	---	0	---
	6-65	---	---	4.5-5.5	---	---	0	---
IzA:								
Izagora-----	0-8	---	---	3.6-6.0	---	---	0	---
	8-32	---	---	3.6-5.5	---	---	0	---
	32-65	---	---	3.6-5.5	---	---	0	---
KpC:								
Kipling-----	0-7	---	---	3.6-6.0	---	---	0	---
	7-41	---	---	3.6-8.4	---	---	0	---
	41-65	---	---	5.1-8.4	---	---	0	---
KuC:								
Kipling-----	0-3	---	---	3.6-6.0	---	---	0	---
	3-43	---	---	3.6-8.4	---	---	0	---
	43-65	---	---	5.1-8.4	---	---	0	---
Urban Land-----	0-6	---	---	---	---	---	0	---
LaA:								
Lucedale-----	0-8	---	---	5.1-6.5	---	---	0	---
	8-65	---	---	4.5-5.5	---	---	0	---
LvB:								
Luverne-----	0-4	---	---	3.6-5.5	---	---	0	---
	4-28	---	---	3.6-5.5	---	---	0	---
	28-65	---	---	3.6-5.5	---	---	0	---
LvD2:								
Luverne-----	0-6	---	---	3.6-5.5	---	---	0	---
	6-37	---	---	3.6-5.5	---	---	0	---
	37-65	---	---	3.6-5.5	---	---	0	---

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Map symbol and soil name	Depth	Cation	Effective	Soil	Calcium	Gypsum	Salinity	Sodium
		exchange	cation	reaction	carbon-			
		capacity	exchange		ate			adsorp-
		meq/100 g	capacity					tion
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	ratio
MiA:								
Minter-----	0-5	---	---	4.5-5.5	0	0	0	---
	5-65	---	---	4.5-5.5	0	0	0	---
MKA:								
Mooreville-----	0-6	---	---	4.5-5.5	---	---	0	---
	6-36	---	---	4.5-5.5	---	---	0	---
	36-65	---	---	4.5-5.5	---	---	0	---
Mantachie-----	0-3	---	---	4.5-5.5	---	---	0	---
	3-65	---	---	4.5-5.5	---	---	0	---
Kinston-----	0-3	---	3.0-9.0	4.5-6.0	0	0	0	0
	3-65	---	3.0-10	4.5-5.5	0	0	0	0
OkC:								
Oktibbeha-----	0-4	25-50	---	4.5-7.3	0	0	0	0
	4-13	---	35-50	3.5-5.5	0	0	0	0
	13-45	---	30-60	3.5-6.5	0-5	0	0	0
	45-80	45-70	---	6.6-8.4	10-35	0	0	0
OtD2:								
Oktibbeha-----	0-2	25-50	---	4.5-7.3	0	0	0	0
	2-20	---	35-50	3.5-5.5	0	0	0	0
	20-35	---	30-60	3.5-6.5	0-5	0	0	0
	35-65	45-70	---	6.6-8.4	10-35	0	0	0
Pt:								
Pits-----	0-60	---	---	---	---	---	0	---
Qu:								
Quarry-----	0-60	---	---	---	---	---	0	---
RvA:								
Riverview-----	0-10	3.0-12	---	4.5-6.5	0	0	0	0
	10-56	---	4.0-10	4.5-6.0	0	0	0	0
	56-65	---	2.0-6.0	4.5-6.0	0	0	0	0
SaA:								
Savannah-----	0-14	---	---	3.6-5.5	---	---	0	---
	14-27	---	---	3.6-5.5	---	---	0	---
	27-65	---	---	3.6-5.5	---	---	0	---
ScC2:								
Searcy-----	0-11	---	5.0-15	3.6-6.0	0	0	0	0
	11-31	---	10-35	3.6-6.0	0	0	0	0
	31-65	---	30-60	3.6-6.0	0	0	0	0
SdC:								
Smithdale-----	0-7	---	---	4.5-5.5	---	---	0	---
	7-49	---	---	4.5-5.5	---	---	0	---
	49-75	---	---	4.5-5.5	---	---	0	---
SdD:								
Smithdale-----	0-12	---	---	4.5-5.5	---	---	0	---
	12-30	---	---	4.5-5.5	---	---	0	---
	30-72	---	---	4.5-5.5	---	---	0	---

Chemical Properties of the Soils, cont.

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
SmF:								
Smithdale-----	0-8	---	---	4.5-5.5	---	---	0	---
	8-35	---	---	4.5-5.5	---	---	0	---
	35-65	---	---	4.5-5.5	---	---	0	---
Boykin-----	0-35	1.0-5.0	---	4.5-6.5	0	0	0.0-2.0	0
	35-65	---	10-20	4.5-6.0	0	0	0.0-2.0	0
Luverne-----	0-9	---	---	3.6-5.5	---	---	0	---
	9-28	---	---	3.6-5.5	---	---	0	---
	28-44	---	---	3.6-5.5	---	---	0	---
	44-60	---	---	3.6-5.5	---	---	0	---
SnA:								
Steens-----	0-13	---	---	4.5-6.5	---	---	0	---
	13-65	---	---	4.5-5.5	---	---	0	---
Yonges-----	0-8	2.0-4.0	---	5.1-7.8	---	---	0	---
	8-65	3.0-8.0	---	6.1-8.4	---	---	0	---
Harleston-----	0-13	---	---	3.6-5.5	---	---	0	---
	13-48	---	---	4.5-5.5	---	---	0	---
	48-65	---	---	4.5-5.5	---	---	0	---
SrB:								
Subran-----	0-7	5.0-20	---	4.5-6.5	0	0	0	0
	7-48	---	10-25	4.5-6.0	0	0	0	0
	48-65	---	10-25	4.5-6.0	0	0	0	0
StA:								
Sucarnoochee-----	0-10	---	---	6.6-8.4	---	---	0	---
	10-18	---	---	6.6-8.4	---	---	0	---
	18-65	---	---	6.6-8.4	---	---	0	---
SuE2:								
Sumter-----	0-6	---	---	6.6-8.4	---	0	0	0
	6-22	---	---	7.4-8.4	---	0	0	0
	22-60	---	---	---	---	---	---	---
SwB:								
Sumter-----	0-5	---	---	6.6-8.4	---	0	0	0
	5-31	---	---	7.4-8.4	---	0	0	0
	31-60	---	---	---	---	---	---	---
Watsonia-----	0-3	25-50	---	4.5-6.5	0	0	0	0
	3-9	35-50	---	4.5-6.5	0	0	0	0
	9-17	30-60	---	6.1-8.4	2-15	0	0	0
	17-60	---	---	---	---	---	---	---
SwC2:								
Sumter-----	0-8	---	---	6.6-8.4	---	0	0	0
	8-28	---	---	7.4-8.4	---	0	0	0
	28-60	---	---	---	---	---	---	---
Watsonia-----	0-4	25-50	---	4.5-6.5	0	0	0	0
	4-9	35-50	---	4.5-6.5	0	0	0	0
	9-17	30-60	---	6.1-8.4	2-15	0	0	0
	17-60	---	---	---	---	---	---	---
TsA:								
Tuscumbia-----	0-8	---	---	5.1-8.4	---	---	0	---
	8-65	---	---	5.1-8.4	---	---	0	---
UnA:								
Una-----	0-4	---	---	4.5-5.5	---	---	0	---
	4-60	---	---	4.5-5.5	---	---	0	---

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Marengo County, Alabama

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
Ur: Urban Land-----	0-6	---	---	---	---	---	0	---
UuB: Urbo-----	0-8 8-65	---	---	4.5-5.5 4.5-5.5	---	---	0 0	---
Mooreville-----	0-6 6-48 48-72	---	---	4.5-5.5 4.5-5.5 4.5-5.5	---	---	0 0 0	---
Una-----	0-3 3-60	---	---	4.5-5.5 4.5-5.5	---	---	0 0	---
VdA: Vaiden-----	0-4 4-38 38-83	30-60 30-60 45-70	---	4.5-6.5 4.5-6.5 6.6-8.4	0 0 2-10	0 0 0	0 0 0	0 0 0
WdD: Wadley-----	0-57 57-80	---	2.0-6.0 5.0-20	4.5-6.0 4.5-6.0	0 0	0 0	0.0-2.0 0.0-2.0	0 0
WxB: Wilcox-----	0-4 4-53 53-65	---	---	4.5-5.5 3.6-5.5 ---	---	---	0 0 ---	---
WxD2: Wilcox-----	0-5 5-46 46-65	---	---	4.5-5.5 3.6-5.5 ---	---	---	0 0 ---	---
YoA: Yonges-----	0-7 7-30 30-54 54-65	1.0-3.0 3.0-8.0 3.0-8.0 ---	---	5.1-7.8 5.1-8.4 6.1-8.4 ---	---	---	0 0 0 ---	---