

Table J2. - Chemical Properties of the Soils

Tidewater Cities Area, Virginia

Absence of an entry indicates that data were not estimated.

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate	Gypsum	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
1:								
Altavista	0-13	3.6-13	2.7-9.6	3.6 - 6.5	---	---	---	---
	13-53	4.5-8.8	3.4-6.6	3.6 - 6.0	---	---	---	---
	53-65	0.3-5.0	0.2-3.8	3.6 - 6.0	---	---	---	---
Augusta	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---
State	---	---	---	---	---	---	---	---
Chickahominy	---	---	---	---	---	---	---	---
2:								
Augusta	0-17	2.4-11	1.8-7.9	4.5 - 6.0	---	---	---	---
	17-56	5.0-8.8	3.8-6.5	4.5 - 6.0	---	---	---	---
	56-70	1.2-7.5	0.9-5.6	4.5 - 6.0	---	---	---	---
Dragston	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
3:								
Axis	0-14	11-23	8.3-17	6.1 - 8.4	---	---	4.0-8.0	---
	14-70	2.0-3.8	1.5-2.8	6.1 - 8.4	---	---	4.0-8.0	---
Bohicket	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---
Beaches	---	---	---	---	---	---	---	---
4:								
Beaches	0-60	0.0-0.1	0.0-0.1	5.1 - 7.8	---	---	4.0-32.0	---
Axis	---	---	---	---	---	---	---	---
Bohicket	---	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

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Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate	Gypsum	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
4:								
Udorthents	---	---	---	---	---	---	---	---
Urban Land	---	---	---	---	---	---	---	---
5:								
Bethera	0-7 7-65	4.8-19 7.5-15	3.6-14 5.6-11	3.6 - 6.0 3.6 - 6.0	--- ---	--- ---	--- ---	--- ---
Slagle	---	---	---	---	---	---	---	---
6:								
Bohicket	0-6 6-80	45-135 20-51	33-101 15-38	6.1 - 8.4 6.1 - 8.4	--- ---	--- ---	8.0-32.0 8.0-32.0	40-55 45-55
Axis	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---
7:								
Bojac	0-18 18-53 53-71	2.4-9.0 1.2-6.1 0.1-3.1	1.8-6.8 0.9-4.6 0.1-2.3	3.6 - 6.5 3.6 - 6.5 4.5 - 6.0	--- --- ---	--- --- ---	--- --- ---	--- --- ---
Dragston	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---
8:								
Chickahominy	0-7 7-85	3.6-11 6.8-15	2.7-8.1 5.1-11	3.6 - 5.5 3.6 - 5.5	--- ---	--- ---	--- ---	--- ---
Altavista	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---
9A:								
Craven	0-9 9-53 53-80	2.9-11 7.0-15 1.2-8.8	2.2-8.4 5.6-11 0.9-6.6	3.6 - 6.5 3.6 - 5.5 3.6 - 5.5	--- --- ---	--- --- ---	--- --- ---	--- --- ---

Table J2. - Chemical Properties of the Soils - Continued

Tidewater Cities Area, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate	Gypsum	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
9A:								
Slagle	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---
9B:								
Craven	0-9	2.9-11	2.2-8.4	3.6 - 6.5	---	---	---	---
	9-53	7.0-15	5.6-11	3.6 - 5.5	---	---	---	---
	53-80	1.2-8.8	0.9-6.6	3.6 - 5.5	---	---	---	---
Slagle	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---
10:								
Dragston	0-17	3.2-9.5	2.4-7.1	4.5 - 5.5	---	---	---	---
	17-42	2.5-5.0	1.9-3.8	4.5 - 5.5	---	---	---	---
	42-72	0.3-5.0	0.2-3.8	4.5 - 6.5	---	---	---	---
Augusta	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
11:								
Duckston	0-4	1.4-7.9	0.8-5.8	3.6 - 8.4	---	---	---	---
	4-60	0.0-0.9	0.0-0.7	3.6 - 8.4	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---
Bohicket	---	---	---	---	---	---	---	---
12:								
Johnston	0-34	8.5-27	6.4-20	4.5 - 5.5	---	---	---	---
	34-60	0.0-7.5	0.0-5.6	4.5 - 5.5	---	---	---	---
Axis	---	---	---	---	---	---	---	---
Bohicket	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Tidewater Cities Area, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate	Gypsum	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
13:								
Lawnes	0-10	11-24	8.3-18	5.1 - 7.3	---	---	1.0-8.0	2-13
	10-60	1.2-4.5	0.9-3.4	5.1 - 7.3	---	---	1.0-8.0	2-13
Munden	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---
14:								
Levy	0-18	20-38	15-28	3.6 - 5.5	---	---	0.0-2.0	10-20
	18-80	11-22	8.2-16	3.6 - 5.5	---	---	0.0-2.0	10-20
Munden	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---
15:								
Munden	0-11	1.8-6.0	1.0-4.5	4.5 - 6.0	---	---	---	---
	11-48	2.0-4.5	1.5-3.4	4.5 - 6.0	---	---	---	---
	48-80	0.3-4.5	0.2-3.4	4.5 - 6.0	---	---	---	---
Bojac	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---
16C:								
Nevarc	0-9	3.1-9.0	2.3-6.8	3.6 - 6.0	---	---	---	---
	9-42	7.5-14	5.6-10	3.6 - 6.0	---	---	---	---
	42-72	1.2-8.8	0.9-6.5	3.6 - 6.0	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Tidewater Cities Area, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate	Gypsum	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
16C:								
Uchee	0-24	1.2-9.2	0.9-6.9	4.5 - 5.5	---	---	---	---
	24-56	2.0-13	1.5-9.4	4.5 - 5.5	---	---	---	---
	56-65	3.0-10	2.2-7.5	4.5 - 5.5	---	---	---	---
Slagle	---	---	---	---	---	---	---	---
16D:								
Nevarc	0-9	3.1-9.0	2.3-6.8	3.6 - 6.0	---	---	---	---
	9-42	7.5-14	5.6-10	3.6 - 6.0	---	---	---	---
	42-72	1.2-8.8	0.9-6.5	3.6 - 6.0	---	---	---	---
Uchee	0-24	1.2-9.2	0.9-6.9	4.5 - 5.5	---	---	---	---
	24-56	2.0-13	1.5-9.4	4.5 - 5.5	---	---	---	---
	56-65	3.0-10	2.2-7.5	4.5 - 5.5	---	---	---	---
Slagle	---	---	---	---	---	---	---	---
17:								
Newflat	0-8	3.6-11	2.7-8.1	3.6 - 5.5	---	---	---	---
	8-80	7.5-15	5.6-11	3.6 - 5.5	---	---	---	---
Altavista	---	---	---	---	---	---	---	---
Chickahominy	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---
18:								
Nimmo	0-17	3.2-10	2.4-7.7	3.6 - 5.5	---	---	---	---
	17-36	2.0-4.5	1.5-3.4	3.6 - 5.5	---	---	---	---
	36-60	0.1-2.0	0.1-1.5	3.6 - 5.5	---	---	---	---
Munden	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
19:								
Peawick	0-2	3.6-11	2.7-8.1	3.6 - 5.5	---	---	---	---
	2-99	8.8-15	6.6-11	3.6 - 5.5	---	---	---	---
Newflat	---	---	---	---	---	---	---	---
Chickahominy	---	---	---	---	---	---	---	---

20:

Table J2. - Chemical Properties of the Soils - Continued

Tidewater Cities Area, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate	Gypsum	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
20:								
Seabrook	0-9	1.6-6.2	1.0-4.7	4.5 - 6.5	---	---	---	---
	9-72	0.0-1.8	0.0-1.3	4.5 - 6.5	---	---	---	---
Munden	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
21A:								
Slagle	0-9	3.1-9.0	2.3-6.8	3.6 - 5.5	---	---	---	---
	9-25	3.0-10	2.2-7.5	3.6 - 5.5	---	---	---	---
	25-60	0.6-13	0.5-9.4	3.6 - 5.5	---	---	---	---
Bethera	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---
21B:								
Slagle	0-9	3.1-9.0	2.3-6.8	3.6 - 5.5	---	---	---	---
	9-25	3.0-10	2.2-7.5	3.6 - 5.5	---	---	---	---
	25-60	0.6-13	0.5-9.4	3.6 - 5.5	---	---	---	---
Bethera	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---
22:								
State	0-11	4.9-9.0	3.7-6.8	3.6 - 5.5	---	---	---	---
	11-52	4.5-8.5	3.4-6.4	3.6 - 5.5	---	---	---	---
	52-97	0.0-4.5	0.0-3.4	3.6 - 6.5	---	---	---	---
Augusta	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---
23:								
Suffolk	0-14	3.1-9.0	2.3-6.8	3.6 - 6.0	---	---	---	---
	14-40	2.5-8.8	1.9-6.6	3.6 - 6.0	---	---	---	---
	40-64	0.1-5.0	0.1-3.8	3.6 - 6.0	---	---	---	---
Altavista	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate	Gypsum	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
23:								
24:								
Tomotley	0-8	4.2-12	3.2-8.8	3.6 - 5.5	---	---	---	---
	8-50	4.5-8.8	3.4-6.6	3.6 - 5.5	---	---	---	---
	50-68	3.0-8.8	2.2-6.6	3.6 - 6.0	---	---	---	---
Augusta	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---
25:								
Uchee	0-24	1.2-9.2	0.9-6.9	4.5 - 5.5	---	---	---	---
	24-56	2.0-13	1.5-9.4	4.5 - 5.5	---	---	---	---
	56-65	3.0-10	2.2-7.5	4.5 - 5.5	---	---	---	---
Slagle	---	---	---	---	---	---	---	---
26:								
Udorthents	---	---	---	---	---	---	---	---
Dumps	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---
Bethera	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---
27:								
Urban land	0-79	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---
Craven	---	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Tidewater Cities Area, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate	Gypsum	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
27:								
Dragston	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---
Nevarc	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---
State	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---
28:								
Yemassee	0-11	3.6-12	2.7-8.8	3.6 - 6.0	---	---	---	---
	11-51	4.5-8.8	3.4-6.6	3.6 - 5.5	---	---	---	---
	51-63	0.1-8.8	0.1-6.6	3.6 - 5.5	---	---	---	---
Augusta	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---
DAM:								
Dam	---	---	---	---	---	---	---	---
W:								
Water	---	---	---	---	---	---	---	---