

## Table J2. - Chemical Properties of the Soils

Warren County, 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	
<b>1B:</b>								
Berks	0-5	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	5-21	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	21-32	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
<b>1C:</b>								
Berks	0-5	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	5-21	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	21-32	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
<b>1D:</b>								
Berks	0-5	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	5-21	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	21-32	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
<b>2B:</b>								
Blairton	0-5	5.8-18	4.3-14	3.6 - 5.5	---	---	---	---
	5-21	6.3-134	4.7-10	3.6 - 5.5	---	---	---	---
	21-36	7.0-15	5.2-11	3.6 - 5.5	---	---	---	---
	36-40	---	---	---	---	---	---	---
<b>2C:</b>								
Blairton	0-5	5.8-18	4.3-14	3.6 - 5.5	---	---	---	---
	5-21	6.3-13	4.7-10	3.6 - 5.5	---	---	---	---
	21-36	7.0-15	5.2-11	3.6 - 5.5	---	---	---	---
	36-40	---	---	---	---	---	---	---
<b>3C:</b>								
Buchanan	0-7	4.8-14	3.6-10	3.6 - 5.5	---	---	---	---
	7-20	4.5-8.6	3.4-6.6	3.6 - 5.5	---	---	---	---
	20-60	4.5-11	3.4-8.4	3.6 - 5.5	---	---	---	---
<b>4C:</b>								
Buchanan	0-7	4.8-14	3.6-10	3.6 - 5.5	---	---	---	---
	7-20	4.5-8.6	3.4-6.6	3.6 - 5.5	---	---	---	---
	20-60	4.5-11	3.4-8.4	3.6 - 5.5	---	---	---	---
<b>5:</b>								
Buckton	0-7	7.0-14	5.2-10	6.6 - 8.4	0-10	---	---	---
	7-48	4.5-8.5	3.4-6.6	7.4 - 8.4	0-10	---	---	---
	48-73	1.2-3.8	0.9-2.8	7.4 - 8.4	0-10	---	---	---
Wet spots	---	---	---	---	---	---	---	---

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
6C:								
Carbo	0-7	6.1-17	4.6-13	4.5 - 7.3	---	---	---	---
	7-32	15-16	11-12	5.6 - 7.8	---	---	---	---
	32-36	---	---	---	---	---	---	---
Endcav	0-7	12-19	8.7-14	5.1 - 7.3	---	---	---	---
	7-50	12-29	9.2-22	5.1 - 7.8	---	---	---	---
	50-54	---	---	---	---	---	---	---
7C:								
Carbo	0-7	6.1-17	4.6-13	4.5 - 7.3	---	---	---	---
	7-32	15-16	11-12	5.6 - 7.8	---	---	---	---
	32-36	---	---	---	---	---	---	---
Endcav	0-7	12-19	8.7-14	5.1 - 7.3	---	---	---	---
	7-50	12-29	9.2-22	5.1 - 7.8	---	---	---	---
	50-54	---	---	---	---	---	---	---
Rock outcrop	---	---	---	---	---	---	---	---
8C:								
Cataska	0-4	5.2-12	3.9-9.2	3.6 - 5.5	---	---	---	---
	4-17	4.1-10	3.1-7.5	3.6 - 5.5	---	---	---	---
	17-35	---	---	---	---	---	---	---
	35-39	---	---	---	---	---	---	---
8D:								
Cataska	0-4	5.2-12	3.9-9.2	3.6 - 5.5	---	---	---	---
	4-17	4.1-10	3.1-7.5	3.6 - 5.5	---	---	---	---
	17-35	---	---	---	---	---	---	---
	35-39	---	---	---	---	---	---	---
8E:								
Cataska	0-4	5.2-12	3.9-9.2	3.6 - 5.5	---	---	---	---
	4-17	4.1-10	3.1-7.5	3.6 - 5.5	---	---	---	---
	17-35	---	---	---	---	---	---	---
	35-39	---	---	---	---	---	---	---
9:								
Chagrin	0-10	7.3-16	5.5-12	5.6 - 7.3	---	---	---	---
	10-37	5.2-12	3.9-8.7	5.6 - 7.3	---	---	---	---
	37-60	1.8-9.9	1.3-7.4	5.6 - 7.3	---	---	---	---
Wet spots	---	---	---	---	---	---	---	---
10C:								
Chester	0-6	4.8-13	3.6-9.4	4.5 - 5.5	---	---	---	---
	6-40	4.5-9.9	3.4-7.4	4.5 - 5.5	---	---	---	---
	40-60	2.5-7.1	1.9-5.3	4.5 - 5.5	---	---	---	---

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
10C:								
10D:								
Chester	0-6	4.8-13	3.6-9.4	4.5 - 5.5	---	---	---	---
	6-40	4.5-9.9	3.4-7.4	4.5 - 5.5	---	---	---	---
	40-60	2.5-7.1	1.9-5.3	4.5 - 5.5	---	---	---	---
10E:								
Chester	0-6	4.8-13	3.6-9.4	4.5 - 5.5	---	---	---	---
	6-40	4.5-9.9	3.4-7.4	4.5 - 5.5	---	---	---	---
	40-60	2.5-7.1	1.9-5.3	4.5 - 5.5	---	---	---	---
11D:								
Chester	0-6	4.8-13	3.6-9.4	4.5 - 5.5	---	---	---	---
	6-40	4.5-9.9	3.4-7.4	4.5 - 5.5	---	---	---	---
	40-60	2.5-7.1	1.9-5.3	4.5 - 5.5	---	---	---	---
Manor	0-12	4.8-13	3.6-9.8	3.6 - 6.0	---	---	---	---
	12-31	2.5-7.4	1.9-5.5	3.6 - 6.0	---	---	---	---
	31-60	1.2-6.1	0.9-4.6	3.6 - 6.0	---	---	---	---
11E:								
Chester	0-6	4.8-13	3.6-9.4	4.5 - 5.5	---	---	---	---
	6-40	4.5-9.9	3.4-7.4	4.5 - 5.5	---	---	---	---
	40-60	2.5-7.1	1.9-5.3	4.5 - 5.5	---	---	---	---
Manor	0-12	4.8-13	3.6-9.8	3.6 - 6.0	---	---	---	---
	12-31	2.5-7.4	1.9-5.5	3.6 - 6.0	---	---	---	---
	31-60	1.2-6.1	0.9-4.6	3.6 - 6.0	---	---	---	---
12D:								
Chilhowie	0-3	8.6-17	6.5-13	6.1 - 8.4	---	---	---	---
	3-19	15	11	6.1 - 8.4	---	---	---	---
	19-23	14-15	10-11	6.6 - 8.4	---	---	---	---
	23-27	---	---	---	---	---	---	---
13B:								
Clearbrook	0-6	4.3-11	3.2-8.4	4.5 - 5.5	---	---	---	---
	6-26	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
	26-38	7.5-14	5.6-10	4.5 - 5.5	---	---	---	---
	38-42	---	---	---	---	---	---	---
13C:								
Clearbrook	0-6	4.3-11	3.2-8.4	4.5 - 5.5	---	---	---	---
	6-26	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
	26-38	7.5-14	5.6-10	4.5 - 5.5	---	---	---	---
	38-42	---	---	---	---	---	---	---

14:

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
14:								
Craigsville	0-3	3.5-11	2.6-7.9	4.5 - 5.5	---	---	---	---
	3-40	1.2-3.8	0.9-2.8	4.5 - 5.5	---	---	---	---
	40-60	1.2-2.5	0.9-1.9	4.5 - 5.5	---	---	---	---
Wet spots	---	---	---	---	---	---	---	---
15E:								
Dekalb	0-5	7.0-12	5.2-8.8	3.6 - 6.5	---	---	---	---
	5-24	1.8-4.5	1.3-3.4	3.6 - 5.5	---	---	---	---
	24-39	1.2-3.8	0.9-2.8	3.6 - 5.5	---	---	---	---
	39-43	---	---	---	---	---	---	---
16F:								
Drall	0-4	2.4-9.0	1.8-6.8	4.5 - 5.5	---	---	---	---
	4-22	2.4-6.0	1.8-4.5	4.5 - 5.5	---	---	---	---
	22-42	4.9-14	3.7-10	4.5 - 5.5	---	---	---	---
Rubble land	---	---	---	---	---	---	---	---
17B:								
Dyke	0-9	3.1-11	2.3-8.4	4.5 - 5.5	---	---	---	---
	9-44	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	44-66	6.8-10	5.1-7.5	4.5 - 6.0	---	---	---	---
17C:								
Dyke	0-9	3.1-11	2.3-8.4	4.5 - 5.5	---	---	---	---
	9-44	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	44-66	6.8-10	5.1-7.5	4.5 - 6.0	---	---	---	---
18B:								
Endcav	0-7	4.6-13	3.5-9.9	5.1 - 7.3	---	---	---	---
	7-50	12-29	9.2-22	5.1 - 7.8	---	---	---	---
	50-54	---	---	---	---	---	---	---
18C:								
Endcav	0-7	4.6-13	3.5-9.9	5.1 - 7.3	---	---	---	---
	7-50	12-29	9.2-22	5.1 - 7.8	---	---	---	---
	50-54	---	---	---	---	---	---	---
19B:								
Hawksbill	0-6	4.1-11	3.1-8.4	5.6 - 6.5	---	---	---	---
	6-25	4.5-8.8	3.4-6.6	5.6 - 7.3	---	---	---	---
	25-47	3.8-8.8	2.8-6.6	5.6 - 7.3	---	---	---	---
	47-60	2.5-8.8	1.9-6.6	5.6 - 7.3	---	---	---	---
Wet spots	---	---	---	---	---	---	---	---

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
20B:								
Hawksbill	0-6	4.1-11	3.1-8.4	5.6 - 6.5	---	---	---	---
	6-25	4.5-8.8	3.4-6.6	5.6 - 7.3	---	---	---	---
	25-47	3.8-8.8	2.8-6.6	5.6 - 7.3	---	---	---	---
	47-60	2.5-8.8	1.9-6.6	5.6 - 7.3	---	---	---	---
Wet spots	---	---	---	---	---	---	---	---
20C:								
Hawksbill	0-6	4.1-11	3.1-8.4	5.6 - 6.5	---	---	---	---
	6-25	4.5-8.8	3.4-6.6	5.6 - 7.3	---	---	---	---
	25-47	3.8-8.8	2.8-6.6	5.6 - 7.3	---	---	---	---
	47-60	2.5-8.8	1.9-6.6	5.6 - 7.3	---	---	---	---
21D:								
Lew	0-12	4.8-11	3.6-8.1	4.5 - 6.0	---	---	---	---
	12-60	7.6-9.9	5.7-7.4	4.5 - 6.0	---	---	---	---
22E:								
Lew	0-12	4.8-11	3.6-8.1	4.5 - 6.0	---	---	---	---
	12-60	7.6-9.9	5.7-7.4	4.5 - 6.0	---	---	---	---
23B:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
23C:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
23D:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
24B:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
24C:								

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
24C:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
24D:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
25C:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
25D:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
26C:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
Rock outcrop	---	---	---	---	---	---	---	---
26E:								
Lodi	0-6	4.1-11	3.1-8.1	4.5 - 5.5	---	---	---	---
	6-12	3.1-14	2.3-11	4.5 - 5.5	---	---	---	---
	12-41	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	41-62	2.5-13	1.9-9.4	4.5 - 5.5	---	---	---	---
Rock outcrop	---	---	---	---	---	---	---	---
27B:								
Millrock	0-12	3.5-7.0	2.6-5.2	6.1 - 7.3	---	---	---	---
	12-43	1.2-3.6	0.9-2.7	6.1 - 7.3	---	---	---	---
	43-60	1.2-3.6	0.9-2.7	6.1 - 7.3	---	---	---	---
Wet spots	---	---	---	---	---	---	---	---
28B:								

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
28B:								
Monongahela	0-11	8.0-18	6.0-14	4.5 - 5.5	---	---	---	---
	11-24	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	24-53	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	53-60	3.5-13	2.6-10	4.5 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
28C:								
Monongahela	0-11	8.0-18	6.0-14	4.5 - 5.5	---	---	---	---
	11-24	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	24-53	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	53-60	3.5-13	2.6-10	4.5 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
29C:								
Montalto	0-6	6.8-14	5.1-10	4.5 - 6.5	---	---	---	---
	6-20	4.5-7.6	3.4-5.7	5.1 - 6.5	---	---	---	---
	20-52	5.0-11	3.8-8.3	5.1 - 6.5	---	---	---	---
	52-60	7.5-15	5.6-11	5.1 - 6.5	---	---	---	---
30C:								
Myersville	0-6	3.5-12	2.6-8.8	4.5 - 6.0	---	---	---	---
	6-16	4.5-9.9	3.4-7.4	4.5 - 6.0	---	---	---	---
	16-39	2.5-9.1	1.9-6.8	4.5 - 6.0	---	---	---	---
	39-60	---	---	---	---	---	---	---
30D:								
Myersville	0-6	3.5-12	2.6-8.8	4.5 - 6.0	---	---	---	---
	6-16	4.5-9.9	3.4-7.4	4.5 - 6.0	---	---	---	---
	16-39	2.5-9.1	1.9-6.8	4.5 - 6.0	---	---	---	---
	39-60	---	---	---	---	---	---	---
31C:								
Myersville	0-6	3.5-12	2.6-8.8	4.5 - 6.0	---	---	---	---
	6-16	4.5-9.9	3.4-7.4	4.5 - 6.0	---	---	---	---
	16-39	2.5-9.1	1.9-6.8	4.5 - 6.0	---	---	---	---
	39-60	---	---	---	---	---	---	---
Catoclin	0-5	2.9-12	2.2-8.6	5.1 - 6.5	---	---	---	---
	5-13	3.5-13	2.6-10	5.1 - 6.5	---	---	---	---
	13-24	3.5-9.9	2.6-7.4	5.6 - 7.3	---	---	---	---
	24-28	---	---	---	---	---	---	---

31D:

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
31D:								
Myersville	0-6	3.5-12	2.6-8.8	4.5 - 6.0	---	---	---	---
	6-16	4.5-9.9	3.4-7.4	4.5 - 6.0	---	---	---	---
	16-39	2.5-9.1	1.9-6.8	4.5 - 6.0	---	---	---	---
	39-60	---	---	---	---	---	---	---
Catoclin	0-5	2.9-12	2.2-8.6	5.1 - 6.5	---	---	---	---
	5-13	3.5-13	2.6-10	5.1 - 6.5	---	---	---	---
	13-24	3.5-9.9	2.6-7.4	5.6 - 7.3	---	---	---	---
	24-28	---	---	---	---	---	---	---
31E:								
Myersville	0-6	3.5-12	2.6-8.8	4.5 - 6.0	---	---	---	---
	6-16	4.5-9.9	3.4-7.4	4.5 - 6.0	---	---	---	---
	16-39	2.5-9.1	1.9-6.8	4.5 - 6.0	---	---	---	---
	39-60	---	---	---	---	---	---	---
Catoclin	0-5	2.9-12	2.2-8.6	5.1 - 6.5	---	---	---	---
	5-13	3.5-13	2.6-10	5.1 - 6.5	---	---	---	---
	13-24	3.5-9.9	2.6-7.4	5.6 - 7.3	---	---	---	---
	24-28	---	---	---	---	---	---	---
32C:								
Myersville	0-6	3.5-12	2.6-8.8	4.5 - 6.0	---	---	---	---
	6-16	4.5-9.9	3.4-7.4	4.5 - 6.0	---	---	---	---
	16-39	2.5-9.1	1.9-6.8	4.5 - 6.0	---	---	---	---
	39-60	---	---	---	---	---	---	---
Montalto	0-6	6.8-14	5.1-10	4.5 - 6.5	---	---	---	---
	6-20	4.5-7.6	3.4-5.7	5.1 - 6.5	---	---	---	---
	20-52	5.0-11	3.8-8.3	5.1 - 6.5	---	---	---	---
	52-60	7.5-15	5.6-11	5.1 - 6.5	---	---	---	---
32D:								
Myersville	0-6	3.5-12	2.6-8.8	4.5 - 6.0	---	---	---	---
	6-16	4.5-9.9	3.4-7.4	4.5 - 6.0	---	---	---	---
	16-39	2.5-9.1	1.9-6.8	4.5 - 6.0	---	---	---	---
	39-60	---	---	---	---	---	---	---
Montalto	0-6	6.8-14	5.1-10	4.5 - 6.5	---	---	---	---
	6-20	4.5-7.6	3.4-5.7	5.1 - 6.5	---	---	---	---
	20-52	5.0-11	3.8-8.3	5.1 - 6.5	---	---	---	---
	52-60	7.5-15	5.6-11	5.1 - 6.5	---	---	---	---
32E:								
Myersville	0-6	3.5-12	2.6-8.8	4.5 - 6.0	---	---	---	---
	6-16	4.5-9.9	3.4-7.4	4.5 - 6.0	---	---	---	---
	16-39	2.5-9.1	1.9-6.8	4.5 - 6.0	---	---	---	---
	39-60	---	---	---	---	---	---	---

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
32E:								
Montalto	0-6	6.8-14	5.1-10	4.5 - 6.5	---	---	---	---
	6-20	4.5-7.6	3.4-5.7	5.1 - 6.5	---	---	---	---
	20-52	5.0-11	3.8-8.3	5.1 - 6.5	---	---	---	---
	52-60	7.5-15	5.6-11	5.1 - 6.5	---	---	---	---
33:								
Newark	0-10	4.0-14	3.0-10	5.6 - 7.8	---	---	---	---
	10-44	4.5-9.9	3.4-7.4	5.6 - 7.8	---	---	---	---
	44-60	3.0-11	2.2-8.3	5.6 - 7.8	---	---	---	---
Wet spots	---	---	---	---	---	---	---	---
34:								
Pits	---	---	---	---	---	---	---	---
35:								
Purdy	0-6	11-21	8.1-16	3.6 - 5.5	---	---	---	---
	6-32	12-19	9.2-14	3.6 - 5.5	---	---	---	---
	32-60	12-19	9.2-14	3.6 - 5.5	---	---	---	---
36E:								
Rigley	0-6	3.6-13	2.7-9.8	4.5 - 7.3	---	---	---	---
	6-41	2.5-7.4	1.8-5.6	3.6 - 5.5	---	---	---	---
	41-60	2.5-15	1.8-11	3.6 - 5.5	---	---	---	---
37D:								
Rigley	0-6	3.6-13	2.7-9.8	4.5 - 7.3	---	---	---	---
	6-41	2.5-7.4	1.8-5.6	3.6 - 5.5	---	---	---	---
	41-60	2.5-15	1.8-11	3.6 - 5.5	---	---	---	---
Berks	0-5	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	5-21	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	21-32	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
Weikert	0-3	6.0-14	4.5-10	4.5 - 5.5	---	---	---	---
	3-15	4.3-7.9	2.8-5.9	3.6 - 5.5	---	---	---	---
	15-19	---	---	---	---	---	---	---
38B:								
Sequoia	0-10	4.9-11	3.7-8.4	4.5 - 5.5	---	---	---	---
	10-38	8.8-16	6.6-12	4.5 - 5.5	---	---	---	---
	38-60	---	---	---	---	---	---	---
38C:								

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
38C:								
Sequoia	0-10	4.9-11	3.7-8.4	4.5 - 5.5	---	---	---	---
	10-38	8.8-16	7.0-12	4.5 - 5.5	---	---	---	---
	38-60	---	---	---	---	---	---	---
39B:								
Unison	0-7	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	7-39	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	39-60	7.5-14	5.6-10	4.5 - 6.0	---	---	---	---
39C:								
Unison	0-7	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	7-39	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	39-60	7.5-14	5.6-10	4.5 - 6.0	---	---	---	---
39D:								
Unison	0-7	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	7-39	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	39-60	7.5-14	5.6-10	4.5 - 6.0	---	---	---	---
40C:								
Unison	0-7	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	7-39	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	39-60	7.5-14	5.6-10	4.5 - 6.0	---	---	---	---
41C:								
Weikert	0-3	6.0-14	4.5-10	4.5 - 5.5	---	---	---	---
	3-15	4.3-7.9	2.8-5.9	3.6 - 5.5	---	---	---	---
	15-19	---	---	---	---	---	---	---
Berks	0-5	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	5-21	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	21-32	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
41D:								
Weikert	0-3	6.0-14	4.5-10	4.5 - 5.5	---	---	---	---
	3-15	4.3-7.9	2.8-5.9	3.6 - 5.5	---	---	---	---
	15-19	---	---	---	---	---	---	---
Berks	0-5	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	5-21	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	21-32	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
Wet spots	---	---	---	---	---	---	---	---

41E:

**Table J2. - Chemical Properties of the Soils - Continued**

Warren County, 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	
41E:								
Weikert	0-3	6.0-14	4.5-10	4.5 - 5.5	---	---	---	---
	3-15	4.3-7.9	2.8-5.9	3.6 - 5.5	---	---	---	---
	15-19	---	---	---	---	---	---	---
Berks	0-5	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	5-21	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	21-32	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
42B:								
Zoar	0-9	6.0-15	4.5-11	4.5 - 5.5	---	---	---	---
	9-28	8.8-13	6.6-9.4	4.5 - 5.5	---	---	---	---
	28-65	8.8-13	6.6-9.4	4.5 - 5.5	---	---	---	---
W:								
Water	---	---	---	---	---	---	---	---