

(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 carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
AmB:								
Airmont-----	0-11	---	---	4.5-5.5	---	---	0	---
	11-27	---	---	4.5-5.5	---	---	0	---
	27-45	---	---	4.5-5.5	---	---	0	---
	45-65	---	---	4.5-5.5	---	---	0	---
AmD:								
Airmont-----	0-11	---	---	4.5-5.5	---	---	0	---
	11-27	---	---	4.5-5.5	---	---	0	---
	27-45	---	---	4.5-5.5	---	---	0	---
	45-65	---	---	4.5-5.5	---	---	0	---
AnB:								
Andover-----	0-4	---	10-26	4.5-5.5	0	0	0	0
	4-19	---	6.0-18	4.5-5.5	0	0	0	0
	19-46	---	6.0-18	4.5-5.5	0	0	0	0
	46-65	---	6.0-18	4.5-5.5	0	0	0	0
Buchanan-----	0-2	---	10-24	3.5-5.5	0	0	0	0
	2-32	---	6.0-18	3.5-5.5	0	0	0	0
	32-65	---	6.0-18	3.5-5.5	0	0	0	0
At:								
Atkins-----	0-4	---	15-26	4.5-5.5	0	0	0	0
	4-36	---	6.0-20	4.5-5.5	0	0	0	0
	36-70	---	4.0-20	4.5-5.5	0	0	0	0
BaB:								
Bagtown-----	0-8	---	15-30	4.5-5.5	0	0	0	0
	8-15	---	15-30	4.5-5.5	0	0	0	0
	15-60	---	15-30	4.5-5.5	0	0	0	0
	60-73	---	10-15	4.5-5.5	0	0	0	0
	73-93	---	8.0-15	4.5-5.5	0	0	0	0
BaC:								
Bagtown-----	0-8	---	15-30	4.5-5.5	0	0	0	0
	8-15	---	15-30	4.5-5.5	0	0	0	0
	15-60	---	15-30	4.5-5.5	0	0	0	0
	60-73	---	10-15	4.5-5.5	0	0	0	0
	73-93	---	8.0-15	4.5-5.5	0	0	0	0
BaD:								
Bagtown-----	0-8	---	15-30	4.5-5.5	0	0	0	0
	8-15	---	15-30	4.5-5.5	0	0	0	0
	15-60	---	15-30	4.5-5.5	0	0	0	0
	60-73	---	10-15	4.5-5.5	0	0	0	0
	73-93	---	8.0-15	4.5-5.5	0	0	0	0
BbD:								
Bagtown-----	0-8	---	15-30	4.5-5.5	0	0	0	0
	8-15	---	15-30	4.5-5.5	0	0	0	0
	15-60	---	15-30	4.5-5.5	0	0	0	0
	60-73	---	10-15	4.5-5.5	0	0	0	0
	73-93	---	8.0-15	4.5-5.5	0	0	0	0

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

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	
BbE:								
Bagtown-----	0-8	---	15-30	4.5-5.5	0	0	0	0
	8-15	---	15-30	4.5-5.5	0	0	0	0
	15-60	---	15-30	4.5-5.5	0	0	0	0
	60-73	---	10-15	4.5-5.5	0	0	0	0
	73-93	---	8.0-15	4.5-5.5	0	0	0	0
Bc:								
Basher-----	0-9	---	10-25	3.6-6.0	0	0	0	0
	9-27	---	4.0-20	3.6-6.0	0	0	0	0
	27-42	4.0-20	---	4.5-6.5	0	0	0	0
	42-60	2.0-12	---	4.5-6.5	0	0	0	0
BeB:								
Berks-----	0-9	5.0-15	---	5.1-6.5	0	0	0	0
	9-26	---	5.0-10	3.5-6.5	0	0	0	0
	26-36	---	0.0-0.0	3.5-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
BeC:								
Berks-----	0-8	5.0-15	---	5.1-6.5	0	0	0	0
	8-26	---	5.0-10	3.5-6.5	0	0	0	0
	26-36	---	0.0-0.0	3.5-6.5	0	0	0	0
	36-46	---	---	---	---	---	---	---
BfB:								
Berks-----	0-8	---	5.0-15	3.6-6.5	0	0	0	0
	8-26	---	5.0-10	3.6-6.5	0	0	0	0
	26-36	---	---	3.6-6.5	0	0	0	0
	36-46	---	---	---	0	0	0	0
Weikert-----	0-8	---	6.0-20	4.5-6.0	0	0	0	0
	8-18	---	6.0-15	4.5-6.0	0	0	0	0
	18-28	---	---	---	---	---	---	---
BfC:								
Berks-----	0-6	---	5.0-15	3.6-6.5	0	0	0	0
	6-26	---	5.0-10	3.6-6.5	0	0	0	0
	26-36	---	---	3.6-6.5	0	0	0	0
	36-46	---	---	---	0	0	0	0
Weikert-----	0-6	---	6.0-20	4.5-6.0	0	0	0	0
	6-18	---	6.0-15	4.5-6.0	0	0	0	0
	18-28	---	---	---	---	---	---	---
BkB:								
Berks-----	0-8	---	5.0-15	3.6-6.5	0	0	0	0
	8-26	---	5.0-10	3.6-6.5	0	0	0	0
	26-36	---	---	3.6-6.5	0	0	0	0
	36-46	---	---	---	0	0	0	0
Weikert-----	0-8	---	6.0-20	4.5-6.0	0	0	0	0
	8-18	---	6.0-15	4.5-6.0	0	0	0	0
	18-28	---	---	---	---	---	---	---
Urban Land-----	0-6	---	---	---	---	---	0	---
BkD:								
Berks-----	0-8	---	5.0-15	3.6-6.5	0	0	0	0
	8-26	---	5.0-10	3.6-6.5	0	0	0	0
	26-36	---	---	3.6-6.5	0	0	0	0
	36-46	---	---	---	0	0	0	0

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

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	
Weikert-----	0-8	---	6.0-20	4.5-6.0	0	0	0	0
	8-18	---	6.0-15	4.5-6.0	0	0	0	0
	18-28	---	---	---	---	---	---	---
Urban Land-----	0-6	---	---	---	---	---	0	---
Bp: Bigpool-----	0-11	0.0-0.0	---	5.6-6.5	0	0	0	0
	11-41	---	0.0-0.0	5.1-5.5	0	0	0	0
	41-65	---	0.0-0.0	5.1-5.5	0	0	0	0
BrB: Braddock-----	0-13	---	8.0-16	3.6-5.5	0	0	0	0
	13-54	---	8.0-16	3.6-5.5	0	0	0	0
	54-72	---	8.0-16	3.6-5.5	0	0	0	0
Thurmont-----	0-11	---	---	4.5-5.5	---	---	0	---
	11-41	---	---	4.5-5.5	---	---	0	---
	41-60	---	---	4.5-5.5	---	---	0	---
	60-84	---	---	4.5-5.5	---	---	0	---
BrC: Braddock-----	0-13	---	8.0-16	3.6-5.5	0	0	0	0
	13-54	---	8.0-16	3.6-5.5	0	0	0	0
	54-72	---	8.0-16	3.6-5.5	0	0	0	0
Thurmont-----	0-11	---	---	4.5-5.5	---	---	0	---
	11-41	---	---	4.5-5.5	---	---	0	---
	41-60	---	---	4.5-5.5	---	---	0	---
	60-84	---	---	4.5-5.5	---	---	0	---
BrD: Braddock-----	0-13	---	8.0-16	3.6-5.5	0	0	0	0
	13-54	---	8.0-16	3.6-5.5	0	0	0	0
	54-72	---	8.0-16	3.6-5.5	0	0	0	0
Thurmont-----	0-11	---	---	4.5-5.5	---	---	0	---
	11-41	---	---	4.5-5.5	---	---	0	---
	41-60	---	---	4.5-5.5	---	---	0	---
	60-84	---	---	4.5-5.5	---	---	0	---
BtB: Brinkerton-----	0-9	---	18-26	4.5-6.0	0	0	0	0
	9-18	---	14-24	4.5-6.0	0	0	0	0
	18-46	---	14-24	4.5-6.0	0	0	0	0
	46-65	12-22	---	5.1-6.5	0	0	0	0
BuB: Buchanan-----	0-8	---	10-24	3.5-5.5	0	0	0	0
	8-32	---	6.0-18	3.5-5.5	0	0	0	0
	32-65	---	6.0-18	3.5-5.5	0	0	0	0
BuC: Buchanan-----	0-6	---	10-24	3.5-5.5	0	0	0	0
	6-21	---	6.0-18	3.5-5.5	0	0	0	0
	21-65	---	6.0-18	3.5-5.5	0	0	0	0
BuD: Buchanan-----	0-5	---	10-24	3.5-5.5	0	0	0	0
	5-20	---	6.0-18	3.5-5.5	0	0	0	0
	20-65	---	6.0-18	3.5-5.5	0	0	0	0

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

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	
CaB: Calvin-----	0-8	12-22	---	5.1-6.5	0	0	0	0
	8-30	7.0-15	---	5.1-6.5	0	0	0	0
	30-35	7.0-15	---	5.1-6.5	0	0	0	0
	35-45	---	---	---	0	0	---	---
CaC: Calvin-----	0-8	12-22	---	5.1-6.5	0	0	0	0
	8-30	7.0-15	---	5.1-6.5	0	0	0	0
	30-35	7.0-15	---	5.1-6.5	0	0	0	0
	35-45	---	---	---	0	0	---	---
CaD: Calvin-----	0-6	12-22	---	5.1-6.5	0	0	0	0
	6-30	7.0-15	---	5.1-6.5	0	0	0	0
	30-35	7.0-15	---	5.1-6.5	0	0	0	0
	35-45	---	---	---	0	0	---	---
CcB: Catoctin-----	0-10	10-20	---	5.1-6.5	0	0	0	0
	10-22	6.0-12	---	5.1-6.5	0	0	0	0
	22-28	6.0-12	---	5.6-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Myersville-----	0-8	10-20	---	5.1-6.0	0	0	0	0
	8-38	---	10-18	4.5-6.0	0	0	0	0
	38-58	---	8.0-18	4.5-6.0	0	0	0	0
	58-70	---	---	---	---	---	---	---
	70-80	---	---	---	---	---	---	---
CcC: Catoctin-----	0-10	10-20	---	5.1-6.5	0	0	0	0
	10-22	6.0-12	---	5.1-6.5	0	0	0	0
	22-28	6.0-12	---	5.6-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Myersville-----	0-8	10-20	---	5.1-6.0	0	0	0	0
	8-38	---	10-18	4.5-6.0	0	0	0	0
	38-58	---	8.0-18	4.5-6.0	0	0	0	0
	58-70	---	---	---	---	---	---	---
	70-80	---	---	---	---	---	---	---
CcD: Catoctin-----	0-10	10-20	---	5.1-6.5	0	0	0	0
	10-22	6.0-12	---	5.1-6.5	0	0	0	0
	22-28	6.0-12	---	5.6-7.3	0	0	0	0
	28-38	---	---	---	---	---	---	---
Myersville-----	0-8	10-20	---	5.1-6.0	0	0	0	0
	8-38	---	10-18	4.5-6.0	0	0	0	0
	38-58	---	8.0-18	4.5-6.0	0	0	0	0
	58-70	---	---	---	---	---	---	---
	70-80	---	---	---	---	---	---	---
CkB: Clearbrook-----	0-8	---	---	4.5-5.5	0	0	0	0
	8-32	---	---	4.5-5.5	0	0	0	0
	32-38	---	---	4.5-5.5	0	0	0	0
	38-48	---	---	4.5-5.5	0	0	0	0

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

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	
DeD:								
Dekalb-----	0-7	---	5.0-15	3.5-5.5	0	0	0	0
	7-28	---	3.0-10	3.5-5.5	0	0	0	0
	28-32	---	3.0-10	3.5-5.5	0	0	0	0
	32-42	---	---	---	---	---	---	---
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
DgF:								
Bagtown-----	0-8	---	15-30	4.5-5.5	0	0	0	0
	8-15	---	15-30	4.5-5.5	0	0	0	0
	15-60	---	15-30	4.5-5.5	0	0	0	0
	60-73	---	10-15	4.5-5.5	0	0	0	0
	73-93	---	8.0-15	4.5-5.5	0	0	0	0
Dekalb-----	0-7	---	5.0-15	3.5-5.5	0	0	0	0
	7-28	---	3.0-10	3.5-5.5	0	0	0	0
	28-32	---	3.0-10	3.5-5.5	0	0	0	0
	32-42	---	---	---	---	---	---	---
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
DhF:								
Dekalb-----	0-7	---	5.0-15	3.5-5.5	0	0	0	0
	7-28	---	3.0-10	3.5-5.5	0	0	0	0
	28-32	---	3.0-10	3.5-5.5	0	0	0	0
	32-42	---	---	---	---	---	---	---
Hazleton-----	0-10	---	15-30	3.5-5.5	0	0	0	0
	10-42	---	5.0-15	3.5-5.5	0	0	0	0
	42-65	---	3.0-8.0	3.5-5.5	0	0	0	0
	65-75	---	---	---	---	---	---	---
Dk:								
Deposit-----	0-4	8.0-25	---	5.1-6.0	0	0	0	0
	4-30	4.0-15	---	5.1-6.0	0	0	0	0
	30-65	2.0-10	---	5.1-6.5	0	0	0	0
DnB:								
Deposit-----	0-4	8.0-25	---	5.1-6.0	0	0	0	0
	4-30	4.0-15	---	5.1-6.0	0	0	0	0
	30-65	2.0-10	---	5.1-6.5	0	0	0	0
DoA:								
Downsville-----	0-10	8.0-15	---	5.6-7.3	0	0	0	0
	10-18	---	8.0-15	4.5-5.5	0	0	0	0
	18-30	---	10-20	4.5-5.5	0	0	0	0
	30-87	---	10-20	4.5-5.5	0	0	0	0
	87-99	---	6.0-15	4.5-5.5	0	0	0	0
DoB:								
Downsville-----	0-10	8.0-15	---	5.6-7.3	0	0	0	0
	10-18	---	8.0-15	4.5-5.5	0	0	0	0
	18-30	---	10-20	4.5-5.5	0	0	0	0
	30-87	---	10-20	4.5-5.5	0	0	0	0
	87-99	---	6.0-15	4.5-5.5	0	0	0	0

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

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	
DoC: Downsville-----	0-7	8.0-15	---	5.6-7.3	0	0	0	0
	7-18	---	8.0-15	4.5-5.5	0	0	0	0
	18-30	---	10-20	4.5-5.5	0	0	0	0
	30-87	---	10-20	4.5-5.5	0	0	0	0
	87-99	---	6.0-15	4.5-5.5	0	0	0	0
DoD: Downsville-----	0-5	8.0-15	---	5.6-7.3	0	0	0	0
	5-18	---	8.0-15	4.5-5.5	0	0	0	0
	18-30	---	10-20	4.5-5.5	0	0	0	0
	30-87	---	10-20	4.5-5.5	0	0	0	0
	87-99	---	6.0-15	4.5-5.5	0	0	0	0
DoE: Downsville-----	0-5	8.0-15	---	5.6-7.3	0	0	0	0
	5-18	---	8.0-15	4.5-5.5	0	0	0	0
	18-30	---	10-20	4.5-5.5	0	0	0	0
	30-87	---	10-20	4.5-5.5	0	0	0	0
	87-99	---	6.0-15	4.5-5.5	0	0	0	0
DrA: Dryrun-----	0-12	12-20	---	5.6-7.3	---	---	0	---
	12-27	12-25	---	5.1-6.0	---	---	0	---
	27-43	---	12-25	4.5-5.5	---	---	0	0
	43-74	---	12-25	4.5-5.5	---	---	0	---
DrB: Dryrun-----	0-12	12-20	---	5.6-7.3	---	---	0	---
	12-27	12-25	---	5.1-6.0	---	---	0	---
	27-43	---	12-25	4.5-5.5	---	---	0	0
	43-74	---	12-25	4.5-5.5	---	---	0	---
DsA: Duffield-----	0-10	15-20	---	6.1-7.3	0	0	0	0
	10-56	10-25	---	5.1-7.3	0	0	0	0
	56-65	10-25	---	5.1-6.5	0	0	0	0
DsB: Duffield-----	0-9	15-20	---	6.1-7.3	0	0	0	0
	9-54	10-25	---	5.1-7.3	0	0	0	0
	54-65	10-25	---	5.1-6.5	0	0	0	0
DsC: Duffield-----	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-54	10-25	---	5.1-7.3	0	0	0	0
	54-65	10-25	---	5.1-6.5	0	0	0	0
DsD: Duffield-----	0-7	15-20	---	6.1-7.3	0	0	0	0
	7-54	10-25	---	5.1-7.3	0	0	0	0
	54-65	10-25	---	5.1-6.5	0	0	0	0
DuB: Duffield-----	0-7	15-20	---	5.1-7.3	0	0	0	0
	7-54	10-25	---	5.1-7.3	0	0	0	0
	54-65	10-25	---	5.1-6.5	0	0	0	0
DuC: Duffield-----	0-7	15-20	---	5.1-7.3	0	0	0	0
	7-54	10-25	---	5.1-7.3	0	0	0	0
	54-65	10-25	---	5.1-6.5	0	0	0	0

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

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	
DvB:								
Duffield-----	0-5	15-20	---	5.1-7.3	0	0	0	0
	5-54	10-25	---	5.1-7.3	0	0	0	0
	54-65	10-25	---	5.1-6.5	0	0	0	0
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
DvC:								
Duffield-----	0-5	15-20	---	5.1-7.3	0	0	0	0
	5-54	10-25	---	5.1-7.3	0	0	0	0
	54-65	10-25	---	5.1-6.5	0	0	0	0
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
DvD:								
Duffield-----	0-7	15-20	---	5.1-7.3	0	0	0	0
	7-54	10-25	---	5.1-7.3	0	0	0	0
	54-65	10-25	---	5.1-6.5	0	0	0	0
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
Fa:								
Fairplay-----	0-15	0.0-0.0	---	6.6-8.4	70-85	0	0	0
	15-27	0.0-0.0	---	7.4-8.4	70-99	0	0	0
	27-47	0.0-0.0	---	7.4-8.4	70-99	0	0	0
	47-79	0.0-0.0	---	7.4-8.4	70-99	0	0	0
FO:								
Foxville-----	0-4	---	10-20	3.5-4.4	0	0	0	0
	4-43	---	10-20	4.5-6.0	0	0	0	0
	43-58	---	10-20	4.5-6.0	0	0	0	0
Hatboro-----	0-8	15-25	---	4.5-7.3	0	0	0	0
	8-38	15-25	---	4.5-7.3	0	0	0	0
	38-72	15-25	---	5.6-6.5	0	0	0	0
Ft:								
Funkstown-----	0-12	0.0-0.0	---	6.6-7.3	0	0	0	0
	12-29	0.0-0.0	---	6.1-7.3	0	0	0	0
	29-45	0.0-0.0	---	6.1-7.3	0	0	0	0
	45-80	0.0-0.0	---	6.1-7.3	0	0	0	0
HaA:								
Hagerstown-----	0-10	15-30	---	5.1-7.3	0	0	0	0
	10-17	15-30	---	4.5-7.3	0	0	0	0
	17-71	15-35	---	5.1-7.3	0	0	0	0
HaB:								
Hagerstown-----	0-10	15-30	---	5.1-7.3	0	0	0	0
	10-17	15-30	---	4.5-7.3	0	0	0	0
	17-71	15-35	---	5.1-7.3	0	0	0	0
HaC:								
Hagerstown-----	0-7	15-30	---	5.1-7.3	0	0	0	0
	7-19	15-30	---	4.5-7.3	0	0	0	0
	19-65	15-35	---	5.1-7.3	0	0	0	0
HaD:								
Hagerstown-----	0-7	15-30	---	5.1-7.3	0	0	0	0
	7-17	15-30	---	4.5-7.3	0	0	0	0
	17-65	15-35	---	5.1-7.3	0	0	0	0

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

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	
Rohrersville-----	0-9	10-15	---	5.1-6.0	0	0	0	0
	9-25	10-15	---	5.1-6.0	0	0	0	0
	25-31	15-30	---	5.6-6.5	0	0	0	0
	31-55	15-30	---	5.6-6.5	0	0	0	0
	55-62	20-40	---	5.6-6.5	0	0	0	0
	62-70	---	---	---	---	---	---	---
Lb:								
Lappans-----	0-7	0.0-0.0	---	7.4-8.4	60-90	0	0	0
	7-42	0.0-0.0	---	7.4-8.4	70-99	0	0	0
	42-64	0.0-0.0	---	7.4-8.4	70-99	0	0	0
	64-99	0.0-0.0	---	7.4-8.4	70-99	0	0	0
Ln:								
Lindside-----	0-13	15-30	---	6.1-7.8	0	0	0	0
	13-46	15-25	---	5.1-7.8	0	0	0	0
	46-65	8.0-25	---	5.6-7.8	0	0	0	0
Me:								
Melvin-----	0-8	---	---	5.6-7.8	---	---	0	---
	8-46	---	---	5.6-7.8	---	---	0	---
	46-60	---	---	5.6-7.8	---	---	0	---
MgA:								
Monongahela-----	0-8	5.0-20	---	5.6-7.3	0	0	0	0
	8-30	---	5.0-15	4.5-5.5	0	0	0	0
	30-51	---	0.0-0.5	4.5-5.5	0	0	0	0
	51-65	---	5.0-15	4.5-5.5	0	0	0	0
MgB:								
Monongahela-----	0-8	5.0-20	---	5.6-7.3	0	0	0	0
	8-30	---	5.0-15	4.5-5.5	0	0	0	0
	30-51	---	0.0-0.5	4.5-5.5	0	0	0	0
	51-65	---	5.0-15	4.5-5.5	0	0	0	0
MgC:								
Monongahela-----	0-6	5.0-20	---	5.6-7.3	0	0	0	0
	6-28	---	5.0-15	4.5-5.5	0	0	0	0
	28-51	---	0.0-0.5	4.5-5.5	0	0	0	0
	51-65	---	5.0-15	4.5-5.5	0	0	0	0
MgD:								
Monongahela-----	0-5	5.0-20	---	5.6-7.3	0	0	0	0
	5-27	---	5.0-15	4.5-5.5	0	0	0	0
	27-51	---	0.0-0.5	4.5-5.5	0	0	0	0
	51-65	---	5.0-15	4.5-5.5	0	0	0	0
MhA:								
Monongahela-----	0-8	5.0-20	---	5.6-7.3	0	0	0	0
	8-27	---	5.0-15	4.5-5.5	0	0	0	0
	27-64	---	0.0-0.5	4.5-5.5	0	0	0	0
	64-70	---	5.0-15	4.5-5.5	0	0	0	0
MhB:								
Monongahela-----	0-8	5.0-20	---	5.6-7.3	0	0	0	0
	8-27	---	5.0-15	4.5-5.5	0	0	0	0
	27-64	---	0.0-0.5	4.5-5.5	0	0	0	0
	64-70	---	5.0-15	4.5-5.5	0	0	0	0

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

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	
MhC: Monongahela-----	0-8	5.0-20	---	5.6-7.3	0	0	0	0
	8-27	---	5.0-15	4.5-5.5	0	0	0	0
	27-64	---	0.0-0.5	4.5-5.5	0	0	0	0
	64-70	---	5.0-15	4.5-5.5	0	0	0	0
MkB: Mt. Zion-----	0-6	10-20	---	5.1-6.0	0	0	0	0
	6-31	10-20	---	5.1-6.0	0	0	0	0
	31-48	15-30	---	5.1-6.0	0	0	0	0
	48-69	15-30	---	5.6-6.5	0	0	0	0
	69-72	---	---	---	---	---	---	---
MkC: Mt. Zion-----	0-6	10-20	---	5.1-6.0	0	0	0	0
	6-31	10-20	---	5.1-6.0	0	0	0	0
	31-48	15-30	---	5.1-6.0	0	0	0	0
	48-69	15-30	---	5.6-6.5	0	0	0	0
	69-72	---	---	---	---	---	---	---
MmA: Mt. Zion-----	0-6	10-20	---	5.1-6.0	0	0	0	0
	6-31	10-20	---	5.1-6.0	0	0	0	0
	31-48	15-30	---	5.1-6.0	0	0	0	0
	48-69	15-30	---	5.6-6.5	0	0	0	0
	69-72	---	---	---	---	---	---	---
Rohrersville-----	0-9	---	10-15	4.5-5.5	0	0	0	0
	9-43	10-15	---	5.1-6.0	0	0	0	0
	43-62	15-30	---	5.1-6.5	0	0	0	0
	62-70	---	---	---	---	---	---	---
MoB: Murrill-----	0-10	---	8.0-20	4.5-6.0	0	0	0	0
	10-55	---	10-20	4.5-6.0	0	0	0	0
	55-70	---	10-20	4.5-6.0	0	0	0	0
MoC: Murrill-----	0-15	---	8.0-20	4.5-6.0	0	0	0	0
	15-60	---	10-20	4.5-6.0	0	0	0	0
	60-80	---	10-20	4.5-6.0	0	0	0	0
MsB: Murrill-----	0-9	10-20	---	5.1-7.3	0	0	0	0
	9-55	---	8.0-20	4.5-6.0	0	0	0	0
	55-70	---	10-22	4.5-6.0	0	0	0	0
MsC: Murrill-----	0-9	10-20	---	5.1-7.3	0	0	0	0
	9-55	---	8.0-20	4.5-6.0	0	0	0	0
	55-70	---	10-22	4.5-6.0	0	0	0	0
MsD: Murrill-----	0-6	10-20	---	5.1-7.3	0	0	0	0
	6-52	---	8.0-20	4.5-6.0	0	0	0	0
	52-70	---	10-22	4.5-6.0	0	0	0	0
MuB: Murrill-----	0-9	10-20	---	5.1-7.3	0	0	0	0
	9-55	---	8.0-20	4.5-6.0	0	0	0	0
	55-70	---	10-22	4.5-6.0	0	0	0	0

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

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	
NoD: Nollville-----	0-8	12-20	---	5.1-7.3	0	0	0	0
	8-27	12-20	---	5.1-7.3	0	0	0	0
	27-39	12-20	---	5.1-7.8	0	0	0	0
	39-55	12-20	---	5.1-7.8	0	0	0	0
	55-65	---	---	---	---	---	---	---
OpA: Opequon-----	0-2	14-22	---	5.1-7.8	0	0	0	0
	2-18	14-26	---	5.1-7.8	0	0	0	0
	18-28	---	---	---	---	---	---	---
OpB: Opequon-----	0-2	14-22	---	5.1-7.8	0	0	0	0
	2-18	14-26	---	5.1-7.8	0	0	0	0
	18-28	---	---	---	---	---	---	---
OpC: Opequon-----	0-2	14-22	---	5.1-7.8	0	0	0	0
	2-18	14-26	---	5.1-7.8	0	0	0	0
	18-28	---	---	---	---	---	---	---
OrB: Opequon-----	0-2	14-22	---	5.1-7.8	0	0	0	0
	2-18	14-26	---	5.1-7.8	0	0	0	0
	18-28	---	---	---	---	---	---	---
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
OrC: Opequon-----	0-2	14-22	---	5.1-7.8	0	0	0	0
	2-18	14-26	---	5.1-7.8	0	0	0	0
	18-28	---	---	---	---	---	---	---
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
OrD: Opequon-----	0-2	14-22	---	5.1-7.8	0	0	0	0
	2-18	14-26	---	5.1-7.8	0	0	0	0
	18-28	---	---	---	---	---	---	---
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
OrF: Opequon-----	0-2	14-22	---	5.1-7.8	0	0	0	0
	2-18	14-26	---	5.1-7.8	0	0	0	0
	18-28	---	---	---	---	---	---	---
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
PaB: Pecktonville-----	0-11	---	10-20	4.5-6.0	0	0	0	0
	11-15	---	10-25	4.5-6.0	0	0	0	0
	15-48	---	20-35	4.5-6.0	0	0	0	0
	48-75	---	20-35	4.5-6.0	0	0	0	0
PaC: Pecktonville-----	0-11	---	10-20	4.5-6.0	0	0	0	0
	11-15	---	10-25	4.5-6.0	0	0	0	0
	15-48	---	20-35	4.5-6.0	0	0	0	0
	48-75	---	20-35	4.5-6.0	0	0	0	0

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

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	
Qs: Quarry-----	---	---	---	---	---	---	---	---
RaC: Ravenrock-----	0-4 4-34 34-65 65-80	---	---	4.5-6.0 5.1-6.0 5.1-6.0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---
RaD: Ravenrock-----	0-4 4-34 34-65 65-80	---	---	4.5-6.0 5.1-6.0 5.1-6.0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---
RcC: Ravenrock-----	0-4 4-34 34-65 65-80	---	---	4.5-6.0 5.1-6.0 5.1-6.0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---
Rohrersville-----	0-9 9-25 25-31 31-55 55-62 62-70	10-15 10-15 15-30 15-30 20-40 ---	---	5.1-6.0 5.1-6.0 5.6-6.5 5.6-6.5 5.6-6.5 ---	0 0 0 0 0 ---	0 0 0 0 0 ---	0 0 0 0 0 ---	0 0 0 0 0 ---
ReC: Highfield-----	0-10 10-34 34-60 60-64	---	---	4.5-5.5 4.5-5.5 5.1-6.0 ---	---	---	0 0 0 ---	---
Ravenrock-----	0-4 4-34 34-65 65-80	---	---	4.5-6.0 5.1-6.0 5.1-6.0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
ReD: Highfield-----	0-10 10-34 34-60 60-64	---	---	4.5-5.5 4.5-5.5 5.1-6.0 ---	---	---	0 0 0 ---	---
Ravenrock-----	0-4 4-34 34-65 65-80	---	---	4.5-6.0 5.1-6.0 5.1-6.0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---	0 0 0 ---
Rock Outcrop-----	0-60	---	---	---	---	---	---	---
ReF: Highfield-----	0-10 10-34 34-60 60-64	---	---	4.5-5.5 4.5-5.5 5.1-6.0 ---	---	---	0 0 0 ---	---

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

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	
TaB: Talladega-----	0-10	---	---	4.5-5.5	---	---	0	---
	10-27	---	---	4.5-5.5	---	---	0	---
	27-77	---	---	---	---	---	---	---
TaC: Talladega-----	0-10	---	---	4.5-5.5	---	---	0	---
	10-27	---	---	4.5-5.5	---	---	0	---
	27-77	---	---	---	---	---	---	---
TaD: Talladega-----	0-10	---	---	4.5-5.5	---	---	0	---
	10-27	---	---	4.5-5.5	---	---	0	---
	27-77	---	---	---	---	---	---	---
ThB: Thurmont-----	0-11	---	---	4.5-5.5	---	---	0	---
	11-22	---	---	4.5-5.5	---	---	0	---
	22-41	---	---	4.5-5.5	---	---	0	---
	41-84	---	---	4.5-5.5	---	---	0	---
ThC: Thurmont-----	0-11	---	---	4.5-5.5	---	---	0	---
	11-22	---	---	4.5-5.5	---	---	0	---
	22-41	---	---	4.5-5.5	---	---	0	---
	41-84	---	---	4.5-5.5	---	---	0	---
ThD: Thurmont-----	0-11	---	---	4.5-5.5	---	---	0	---
	11-22	---	---	4.5-5.5	---	---	0	---
	22-41	---	---	4.5-5.5	---	---	0	---
	41-84	---	---	4.5-5.5	---	---	0	---
TrA: Trego-----	0-9	10-20	---	5.1-6.0	0	0	0	0
	9-21	10-20	---	5.1-6.0	0	0	0	0
	21-38	---	10-30	4.5-5.5	0	0	0	0
	38-96	---	10-20	4.5-5.5	0	0	0	0
TrB: Trego-----	0-9	10-20	---	5.1-6.0	0	0	0	0
	9-21	10-20	---	5.1-6.0	0	0	0	0
	21-38	---	10-30	4.5-5.5	0	0	0	0
	38-96	---	10-20	4.5-5.5	0	0	0	0
TrC: Trego-----	0-9	10-20	---	5.1-6.0	0	0	0	0
	9-21	10-20	---	5.1-6.0	0	0	0	0
	21-38	---	10-30	4.5-5.5	0	0	0	0
	38-96	---	10-20	4.5-5.5	0	0	0	0
TyA: Tyler-----	0-8	---	10-24	3.6-6.5	0	---	0	---
	8-30	---	8.0-20	3.6-5.5	0	---	0	---
	30-65	---	7.0-20	3.6-5.5	0	---	0	---
TyB: Tyler-----	0-8	---	10-24	3.6-6.5	0	---	0	---
	8-30	---	8.0-20	3.6-5.5	0	---	0	---
	30-65	---	7.0-20	3.6-5.5	0	---	0	---

