Table J2.--Chemical Properties of the Soils

(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	Organic matter
	In	meq/100 g	meq/100 g	pH	Pct	Pct
AddA:						
Avonburg	0-11	7.0-12.0-20.0	4.0-6.0-10.0	4.5-5.9-7.3	0	1.0-1.5-2.0
	11-21	---	4.0-6.0-8.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	21-37	---	12.0-13.0-16.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	37-52	---	8.0-10.0-12.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	52-83	---	8.0-10.0-12.0	3.5-4.5-5.5	0	0.0-0.2-0.5
	83-90	16.0-21.0-24.0	13.0-17.0-21.0	4.5-5.9-7.3	0	0.0-0.2-0.5
AddB2:						
Avonburg	0-7	7.0-12.0-20.0	4.0-6.0-10.0	4.5-5.9-7.3	0	1.0-1.5-2.0
	7-16	---	4.0-6.0-8.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	16-32	---	12.0-13.0-16.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	32-42	---	8.0-10.0-12.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	42-63	---	8.0-10.0-12.0	3.5-4.5-5.5	0	0.0-0.2-0.5
	63-80	16.0-20.0-24.0	13.0-17.0-21.0	4.5-5.9-7.3	0	0.0-0.2-0.5
BbhA:						
Bartle	0-11	5.0-10.0-15.0	3.0-7.0-12.0	4.5-5.9-7.3	0	1.0-1.5-2.0
	11-17	5.0-10.0-15.0	3.0-7.0-12.0	3.5-4.5-6.0	0	0.0-0.2-0.5
	17-30	10.0-13.0-17.0	8.0-11.0-15.0	3.5-4.5-6.0	0	0.0-0.2-0.5
	30-55	---	8.0-11.0-15.0	3.5-4.5-5.5	0	0.0-0.2-0.5
	55-80	8.0-11.0-15.0	5.0-9.0-12.0	4.5-5.4-7.3	0	0.0-0.2-0.5
BodAH:						
Bonnie	0-9	10.0-13.0-22.0	7.0-10.0-19.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	9-31	10.0-12.0-17.0	7.0-9.0-14.0	4.5-5.5-6.5	0	0.0-0.5-1.0
	31-60	10.0-12.0-17.0	7.0-9.0-14.0	4.5-5.3-6.5	0	0.0-0.5-1.0
CkkB2:						
Cincinnati	0-8	7.0-10.0-20.0	4.0-7.0-12.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	8-31	---	5.0-9.0-12.0	4.5-4.9-5.5	0	0.0-0.5-1.0
	31-72	7.0-9.0-14.0	5.0-7.0-12.0	4.5-4.9-6.0	0	0.0-0.2-0.5
	72-80	10.0-14.0-20.0	8.0-12.0-18.0	4.5-5.5-6.5	0	0.0-0.2-0.5
CkkC2:						
Cincinnati, eroded	0-8	7.0-10.0-15.0	4.0-7.0-10.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	8-24	---	5.0-7.0-12.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	24-74	7.0-9.0-15.0	5.0-7.0-12.0	4.5-5.1-6.0	0	0.0-0.2-0.5
	74-80	10.0-12.0-18.0	7.0-9.0-15.0	4.5-5.5-6.5	0	0.0-0.2-0.5
CkkC3:						
Cincinnati	0-5	7.0-10.0-15.0	4.0-7.0-10.0	4.5-5.9-7.3	0	0.5-1.2-2.0
	5-14	---	5.0-7.0-12.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	14-35	7.0-9.0-15.0	5.0-7.0-12.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	35-78	10.0-12.0-18.0	7.0-9.0-15.0	4.5-5.5-6.5	0	0.0-0.2-0.5
	78-84	4.0-7.0-10.0	---	6.1-7.3-8.4	0-13-25	0.0-0.2-0.5
CkkD2:						
Cincinnati	0-8	7.0-10.0-15.0	4.0-7.0-10.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	8-24	---	5.0-7.0-12.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	24-74	7.0-9.0-15.0	5.0-7.0-12.0	4.5-5.1-6.0	0	0.0-0.2-0.5
	74-80	10.0-12.0-18.0	7.0-9.0-15.0	4.5-5.5-6.5	0	0.0-0.2-0.5
CkkD3:						
Cincinnati	0-5	7.0-10.0-15.0	4.0-7.0-10.0	4.5-5.9-7.3	0	0.5-1.2-2.0
	5-14	---	5.0-7.0-12.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	14-35	7.0-9.0-15.0	5.0-7.0-12.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	35-78	10.0-12.0-18.0	7.0-9.0-15.0	4.5-5.5-6.5	0	0.0-0.2-0.5
	78-84	4.0-7.0-10.0	---	6.1-7.3-8.4	0-13-25	0.0-0.2-0.5

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	Organic matter
	In	meq/100 g	meq/100 g	pH	Pct	Pct
CklC2:						
Cincinnati	0-8	7.0-10.0-15.0	4.0-7.0-10.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	8-24	---	5.0-7.0-12.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	24-74	7.0-9.0-15.0	5.0-7.0-12.0	4.5-5.1-6.0	0	0.0-0.2-0.5
	74-80	10.0-12.0-18.0	7.0-9.0-15.0	4.5-5.5-6.5	0	0.0-0.2-0.5
Nabb	0-7	4.0-8.0-12.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	7-13	4.0-7.0-10.0	---	4.5-5.5-7.3	0	0.0-0.5-1.0
	13-33	---	8.0-11.5-15.0	3.6-4.5-5.5	0	0.0-0.2-0.5
	33-71	---	6.0-9.0-12.0	3.6-4.5-5.5	0	0.0-0.2-0.5
	71-80	15.0-20.0-25.0	---	5.1-6.2-7.3	0	0.0-0.2-0.5

ClfA:						
Cobbsfork	0-12	6.0-9.0-14.0	3.0-7.0-10.0	4.5-5.9-7.3	0	1.0-1.5-3.0
	12-27	---	4.0-6.0-8.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	27-38	---	6.0-10.5-15.0	3.5-4.5-5.0	0	0.0-0.2-0.5
	38-50	---	8.0-10.0-12.0	3.5-4.5-5.0	0	0.0-0.2-0.5
	50-85	---	8.0-10.0-12.0	3.5-4.8-5.5	0	0.0-0.2-0.5
	85-90	16.0-20.0-24.0	13.0-17.0-21.0	5.1-6.2-7.3	0	0.0-0.2-0.5
CrbF:						
Corydon	0-5	20.0-30.0-40.0	---	6.1-7.0-7.8	0	4.0-5.0-6.0
	5-17	30.0-35.0-40.0	---	6.1-7.0-7.8	0-5-10	0.5-1.2-2.0
	17-27	---	---	---	---	---
Rock Outcrop	---	---	---	---	---	---
CxdA:						
Cyclone	0-17	15.0-22.5-30.0	---	6.1-6.7-7.3	0	3.0-4.5-6.0
	17-52	11.0-18.0-25.0	---	6.1-6.7-7.3	0	0.5-1.2-2.0
	52-58	11.0-18.0-25.0	---	6.1-6.7-7.3	0	0.5-1.2-2.0
	58-65	7.0-12.0-17.0	---	6.6-7.2-7.8	0-13-25	0.5-0.8-1.0
	65-80	6.0-11.5-17.0	---	7.4-7.9-8.4	15-28-40	0.5-0.8-1.0
EdcAH:						
Eel	0-13	10.0-17.5-25.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	13-44	5.0-10.0-15.0	---	6.1-6.7-7.3	0	0.5-1.2-2.0
	44-60	5.0-10.0-15.0	---	6.1-6.7-7.3	0	0.5-1.2-2.0
EepA:						
Elkinsville	0-10	6.0-10.5-15.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	10-24	9.0-13.5-18.0	---	4.5-5.9-7.3	0	0.0-0.5-1.0
	24-55	---	10.0-13.0-16.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	55-80	---	8.0-11.5-15.0	4.5-5.0-6.0	0	0.0-0.2-0.5
EepB2:						
Elkinsville	0-10	6.0-10.5-15.0	---	4.5-5.9-7.3	0	1.0-1.5-3.0
	10-24	9.0-13.5-18.0	---	4.5-5.9-7.3	0	0.0-0.5-1.0
	24-55	---	10.0-13.0-16.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	55-80	---	8.0-11.5-15.0	4.5-5.0-6.0	0	0.0-0.2-0.5
EepC2:						
Elkinsville	0-10	6.0-10.5-15.0	---	4.5-5.9-7.3	0	1.0-1.5-3.0
	10-24	9.0-13.5-18.0	---	4.5-5.9-7.3	0	0.0-0.5-1.0
	24-55	---	10.0-13.0-16.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	55-80	---	8.0-11.5-15.0	4.5-5.0-6.0	0	0.0-0.2-0.5

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	Organic matter
	In	meq/100 g	meq/100 g	pH	Pct	Pct
FdbA:						
Fincastle	0-10	10.0-15.0-20.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	10-13	10.0-15.0-20.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	13-27	15.0-20.0-25.0	---	5.1-5.5-6.5	0	0.5-0.8-1.0
	27-50	15.0-20.0-25.0	---	5.1-6.5-7.8	0-5-10	0.0-0.2-0.5
	50-59	5.0-10.0-15.0	---	7.4-7.9-8.4	15-28-40	0.0-0.2-0.5
	59-80	5.0-10.0-15.0	---	7.4-7.9-8.4	15-28-40	0.0-0.2-0.5
FdmB2:						
Fincastle	0-12	10.0-15.0-20.0	---	5.1-6.2-7.3	0	1.0-1.5-2.0
	12-28	15.0-20.0-25.0	---	4.5-5.5-6.5	0	0.5-0.8-1.0
	28-48	15.0-20.0-25.0	---	5.1-6.5-7.8	0-3-5	0.0-0.2-0.5
	48-60	5.0-10.0-15.0	---	7.4-7.9-8.4	15-28-40	0.0-0.2-0.5
Russell	0-9	10.0-15.0-20.0	---	5.1-6.2-7.3	0	1.0-1.5-2.0
	9-24	15-22-25	15.0-20.0-25.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	24-53	15.0-20.0-25.0	---	5.1-6.2-7.3	0-3-5	0.0-0.2-0.5
	53-60	5.0-10.0-15.0	---	7.4-7.9-8.4	15-28-40	0.0-0.2-0.5
GccAH:						
Genesee	0-12	10.0-17.5-25.0	---	6.1-7.0-7.8	0	1.0-2.0-3.0
	12-36	5.0-10.0-15.0	---	6.1-7.0-7.8	0	0.5-1.2-2.0
	36-60	5.0-10.0-15.0	---	6.1-7.0-7.8	0-3-5	0.5-1.2-2.0
GmcC2:						
Grayford	0-7	10.0-15.0-20.0	---	5.1-6.2-7.3	0	1.0-1.5-2.0
	7-24	15.0-20.0-25.0	---	4.5-5.9-7.3	0	0.5-0.8-1.0
	24-72	---	15.0-20.0-25.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	72-79	15.0-22.5-30.0	---	5.1-5.6-6.0	0	0.0-0.2-0.5
	79-80	---	---	---	0	---
GmcC3:						
Grayford	0-3	10.0-15.0-20.0	---	5.1-6.2-7.3	0	0.5-0.8-1.0
	3-20	15.0-20.0-25.0	---	4.5-5.9-7.3	0	0.5-0.8-1.0
	20-64	---	15.0-20.0-25.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	64-71	15.0-22.5-30.0	---	5.1-5.6-6.0	0	0.0-0.2-0.5
	79-80	---	---	---	0	---
GmcD2:						
Grayford	0-7	10.0-15.0-20.0	---	5.1-6.2-7.3	0	1.0-1.5-2.0

	7-18	15.0-20.0-25.0	---	4.5-5.9-7.3	0	0.5-0.8-1.0
	18-42	---	15.0-20.0-25.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	42-58	15.0-22.5-30.0	---	5.1-5.6-6.0	0	0.0-0.2-0.5
	79-80	---	---	---	0	---
GmcD3:						
Grayford	0-3	10.0-15.0-20.0	---	5.1-6.2-7.3	0	0.5-0.8-1.0
	3-16	15.0-20.0-25.0	---	4.5-5.9-7.3	0	0.5-0.8-1.0
	16-38	---	15.0-20.0-25.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	38-52	15.0-22.5-30.0	---	5.1-5.6-6.0	0	0.0-0.2-0.5
	79-80	---	---	---	0	---
GufE2:						
Grayford	0-8	10.0-15.0-20.0	---	5.1-6.2-7.3	0	1.0-1.5-2.0
	8-18	15.0-20.0-25.0	---	4.5-5.9-7.3	0-3-5	0.5-0.8-1.0
	18-45	---	15.0-20.0-25.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	45-52	15.0-22.5-30.0	---	5.1-5.6-6.0	0	0.0-0.2-0.5
	79-80	---	---	---	0	---
Corydon	0-8	15.0-20.0-25.0	---	6.1-7.0-7.8	0	2.0-3.0-4.0
	8-18	15.0-22.5-30.0	---	5.6-6.7-7.8	0	0.5-1.2-2.0
	18-22	---	---	---	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	Organic matter
	In	meq/100 g	meq/100 g	pH	Pct	Pct
Gxb:						
Gullied Land	---	---	---	---	---	---
HcgAH:						
Haymond	0-10	4.0-10.0-15.0	---	5.6-6.2-7.3	0	1.0-2.0-3.0
	10-44	10.0-13.0-16.0	---	5.6-6.2-7.3	0	0.5-1.2-2.0
	44-60	3.0-9.0-16.0	---	6.1-6.6-7.8	0	0.0-0.5-1.0
HeeE2:						
Hickory	0-11	7.0-13.0-19.0	---	4.5-5.9-6.0	0	1.0-1.5-3.0
	11-39	10.0-16.0-22.0	---	4.5-5.9-6.0	0	0.0-0.2-0.5
	39-45	9.0-14.0-19.0	---	5.1-6.5-7.8	0-8-15	0.0-0.2-0.5
	45-60	5.0-10.0-15.0	---	7.4-7.9-8.4	0-13-25	0.0-0.2-0.5
HeeG:						
Hickory	0-11	7.0-13.0-19.0	---	4.5-5.9-6.0	0	2.0-3.0-4.0
	11-39	10.0-16.0-22.0	---	4.5-5.9-6.0	0	0.0-0.2-0.5
	39-45	9.0-14.0-19.0	---	5.1-6.5-7.8	0-8-15	0.0-0.2-0.5
	45-60	5.0-10.0-15.0	---	7.4-7.9-8.4	0-13-25	0.0-0.2-0.5
JaeB2:						
Jennings	0-9	7.0-10.0-20.0	4.0-7.0-12.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	9-27	8.0-12.0-15.0	5.0-9.0-12.0	3.5-5.0-7.3	0	0.0-0.5-1.0
	27-38	---	5.0-7.0-12.0	3.5-4.5-5.0	0	0.0-0.2-0.5
	38-73	---	8.0-12.0-22.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	73-77	---	5.0-10.0-16.0	3.5-4.3-5.0	0	0.5-1.2-2.0
	77-87	---	---	---	---	---
JaeC2:						
Jennings	0-9	4.0-8.0-12.0	4.0-7.0-12.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	9-27	---	8.0-11.5-15.0	3.5-5.4-7.3	0	0.0-0.5-1.0
	27-38	---	6.0-9.0-12.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	38-73	---	15.0-20.0-25.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	73-77	---	10.0-12.5-15.0	3.5-4.3-5.0	0	0.5-1.2-2.0
	77-87	---	---	---	---	---
JaeC3:						
Jennings	0-3	4.0-8.0-12.0	4.0-7.0-12.0	4.5-5.9-7.3	0	0.5-1.2-2.0
	3-17	---	8.0-11.5-15.0	3.5-5.4-7.3	0	0.0-0.2-0.5
	17-30	---	6.0-9.0-12.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	30-69	---	15.0-20.0-25.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	69-75	---	10.0-12.5-15.0	3.5-4.3-5.0	0	0.5-1.2-2.0
	75-85	---	---	---	---	---
JaeD2:						
Jennings	0-9	4.0-8.0-12.0	4.0-7.0-12.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	9-27	---	8.0-11.5-15.0	3.5-5.4-7.3	0	0.0-0.5-1.0
	27-38	---	6.0-9.0-12.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	38-73	---	15.0-20.0-25.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	73-77	---	10.0-12.5-15.0	3.5-4.3-5.0	0	0.5-1.2-2.0
	77-87	---	---	---	---	---
JaeD3:						
Jennings	0-3	4.0-8.0-12.0	4.0-7.0-12.0	4.5-5.9-7.3	0	0.5-1.2-2.0
	3-17	---	8.0-11.5-15.0	3.5-5.4-7.3	0	0.0-0.2-0.5
	17-30	---	6.0-9.0-12.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	30-69	---	15.0-20.0-25.0	3.5-4.3-5.0	0	0.0-0.2-0.5
	69-75	---	10.0-12.5-15.0	3.5-4.3-5.0	0	0.5-1.2-2.0
	75-85	---	---	---	---	---

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	Organic matter
	In	meq/100 g	meq/100 g	pH	Pct	Pct
MmoC3:						
Miami	0-6	7.0-12.0-17.0	---	5.6-6.5-7.3	0	0.0-0.5-1.0
	6-31	9.0-14.5-20.0	---	5.1-6.1-7.3	0	0.0-0.2-0.5
	31-36	4.0-7.5-11.0	---	6.6-7.4-7.8	0-10-20	0.0-0.2-0.5
	36-80	2.0-5.5-9.0	---	7.4-7.9-8.4	20-33-45	0.0-0.2-0.5
MnpC2:						
Miami	0-7	6.0-10.5-17.0	---	5.6-6.5-7.3	0	1.0-1.5-3.0
	7-13	16.0-20.0-25.0	---	5.1-5.9-7.3	0	0.5-0.8-1.0
	13-31	9.0-14.5-20.0	---	5.1-5.5-7.3	0	0.0-0.2-0.5
	31-36	4.0-7.5-11.0	---	6.6-7.4-7.8	0-10-20	0.0-0.2-0.5
	36-80	2.0-5.5-9.0	---	7.4-7.9-8.4	20-33-45	0.0-0.2-0.5
MnpD2:						
Miami	0-7	6.0-10.5-17.0	---	5.6-6.5-7.3	0	1.0-1.5-3.0
	7-13	16.0-20.0-25.0	---	5.1-5.9-7.3	0	0.5-0.8-1.0
	13-31	9.0-14.5-20.0	---	5.1-5.5-7.3	0	0.0-0.2-0.5
	31-36	4.0-7.5-11.0	---	6.6-7.4-7.8	0-10-20	0.0-0.2-0.5
	36-80	2.0-5.5-9.0	---	7.4-7.9-8.4	20-33-45	0.0-0.2-0.5
NaaA:						
Nabb	0-10	7.0-11.0-20.0	4.0-8.0-12.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	10-18	7.0-10.0-13.0	4.0-7.0-12.0	4.5-5.3-7.3	0	0.0-0.5-1.0
	18-35	---	8.0-12.0-16.0	3.5-4.8-5.5	0	0.0-0.2-0.5
	35-76	---	6.0-9.0-12.0	3.5-4.6-5.5	0	0.0-0.2-0.5
	76-80	15.0-17.0-22.0	12.0-14.0-19.0	5.1-5.6-7.3	0	0.0-0.2-0.5
NaaB2:						
Nabb	0-7	7.0-11.0-20.0	4.0-8.0-12.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	7-13	7.0-10.0-13.0	4.0-7.0-12.0	4.5-5.3-7.3	0	0.0-0.5-1.0
	13-33	---	8.0-12.0-16.0	3.5-4.8-5.5	0	0.0-0.2-0.5
	33-71	---	6.0-9.0-12.0	3.5-4.6-5.5	0	0.0-0.2-0.5
	71-80	15.0-17.0-22.0	12.0-14.0-19.0	5.1-5.6-7.3	0	0.0-0.2-0.5
NaaB3:						
Nabb	0-7	4.0-8.0-12.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	7-13	4.0-7.0-10.0	---	4.5-5.5-7.3	0	0.0-0.5-1.0
	13-33	---	8.0-11.5-15.0	3.6-4.5-5.5	0	0.0-0.2-0.5
	33-71	---	6.0-9.0-12.0	3.6-4.5-5.5	0	0.0-0.2-0.5
	71-80	15.0-20.0-25.0	---	5.1-6.2-7.3	0	0.0-0.2-0.5
PbbB2:						
Parke	0-11	10.0-15.0-20.0	---	5.1-5.8-6.5	0	1.0-1.5-2.0
	11-26	---	15.0-17.5-20.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	26-70	---	10.0-12.5-15.0	4.5-5.0-5.5	0	0.0-0.2-0.5
PbbC2:						
Parke	0-7	10.0-15.0-20.0	---	5.1-5.8-6.5	0	1.0-1.5-2.0
	7-24	---	15.0-17.5-20.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	24-70	---	10.0-12.5-15.0	4.5-5.0-5.5	0	0.0-0.2-0.5
PbbC3:						
Parke	0-7	10.0-15.0-20.0	---	5.1-5.8-6.5	0	0.5-0.8-1.0
	7-22	---	15.0-17.5-20.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	22-70	---	10.0-12.5-15.0	4.5-5.0-5.5	0	0.0-0.2-0.5
PcrA:						
Pekin	0-8	6.0-11.0-22.0	4.0-9.0-14.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	8-29	8.0-11.0-15.0	6.0-9.0-13.0	4.5-4.8-7.3	0	0.5-0.8-1.0
	29-58	---	8.0-12.0-16.0	3.5-4.3-5.5	0	0.0-0.2-0.5
	58-80	8.0-13.0-18.0	5.0-10.0-15.0	4.5-4.9-7.3	0	0.0-0.2-0.5

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	Organic matter
	In	meq/100 g	meq/100 g	pH	Pct	Pct
PcrB2:						
Pekin	0-6	6.0-11.0-22.0	4.0-9.0-14.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	6-29	8.0-11.0-15.0	6.0-9.0-13.0	4.5-4.8-7.3	0	0.5-0.8-1.0
	29-67	---	8.0-12.0-16.0	3.5-4.3-5.5	0	0.0-0.2-0.5
	67-80	8.0-13.0-18.0	5.0-10.0-15.0	4.5-4.9-7.3	0	0.0-0.2-0.5
PcrC2:						
Pekin	0-6	6.0-11.0-22.0	4.0-9.0-14.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	6-28	8.0-11.0-15.0	6.0-9.0-13.0	4.5-4.8-7.3	0	0.5-0.8-1.0
	28-67	---	8.0-12.0-16.0	3.5-4.3-5.5	0	0.0-0.2-0.5
	67-80	8.0-13.0-18.0	5.0-10.0-15.0	4.5-4.9-7.3	0	0.0-0.2-0.5
PhaA:						
Peoga	0-8	8.0-12.0-22.0	4.0-8.0-12.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	8-19	---	4.0-6.0-8.0	3.5-4.7-5.5	0	0.0-0.5-1.0

	19-36	---	7.0-10.0-15.0	3.5-4.7-5.5	0	0.0-0.2-0.5
	36-76	---	9.0-11.0-15.0	3.5-5.0-6.0	0	0.0-0.2-0.5
	76-80	12.0-16.0-22.0	10.0-13.0-18.0	5.1-5.6-7.3	0	0.0-0.2-0.5
Pml:						
Pits, Quarry	---	---	---	---	---	---
RpuE2:						
Rohan	0-4	---	5.0-11.5-18.0	4.5-5.3-6.0	0	1.0-2.0-3.0
	4-16	---	4.0-11.0-18.0	3.5-4.5-5.5	0	0.0-0.5-1.0
	16-26	---	---	---	---	---
RtcB2:						
Ryker	0-6	4.0-10.5-17.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	6-10	10.0-15.0-20.0	---	4.5-5.5-7.3	0	0.5-0.8-1.0
	10-34	3.0-11.5-20.0	---	4.5-5.2-7.3	0	0.0-0.5-1.0
	34-63	---	5.0-11.5-18.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	63-80	13.0-29.0-45.0	---	4.5-5.0-7.3	0	0.0-0.2-0.5
StaAH:						
Steff	0-10	8.0-13.0-20.0	5.0-10.0-15.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	10-31	---	8.0-13.0-18.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	31-60	---	5.0-10.0-15.0	4.5-5.0-5.5	0	0.0-0.2-0.5
StdAH:						
Stendal	0-11	8.0-14.0-20.0	5.0-10.0-15.0	4.5-5.9-7.3	0	1.0-2.0-3.0
	11-41	---	5.0-10.0-15.0	4.5-5.0-5.5	0	0.0-0.5-1.0
	41-60	---	5.0-10.0-15.0	4.5-5.1-5.5	0	0.0-0.2-0.5
ThaC2:						
Trappist	0-7	9.0-12.0-20.0	6.0-9.0-12.0	3.5-5.4-7.3	0	1.0-2.0-3.0
	7-24	---	9.0-12.0-15.0	3.5-4.6-5.5	0	0.0-0.2-0.5
	24-31	---	5.0-8.0-12.0	3.5-4.7-5.5	0	0.0-0.2-0.5
	31-41	---	---	---	---	---
ThaD2:						
Trappist	0-8	---	10.0-15.0-20.0	4.5-5.0-5.5	0	1.0-1.5-2.0
	8-30	---	15.0-20.0-25.0	3.6-4.6-5.5	0	0.0-0.2-0.5
	30-36	---	15.0-22.5-30.0	3.6-4.6-5.5	0	0.0-0.2-0.5
	36-40	---	---	---	0	---
ThbC3:						
Trappist	0-6	13.0-17.0-24.0	9.0-12.0-16.0	3.5-5.9-7.3	0	0.5-1.2-2.0
	6-21	---	9.0-12.0-15.0	3.5-4.6-5.5	0	0.0-0.2-0.5
	21-24	---	5.0-8.0-12.0	3.5-4.7-5.5	0	0.0-0.2-0.5
	24-40	---	---	---	---	---

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	Organic matter
	In	meq/100 g	meq/100 g	pH	Pct	Pct
ThbD3:						
Trappist	0-6	---	10.0-15.0-20.0	4.5-5.0-5.5	0	0.5-0.8-1.0
	6-20	---	15.0-20.0-25.0	3.6-4.6-5.5	0	0.0-0.2-0.5
	20-26	---	15.0-22.5-30.0	3.6-4.6-5.5	0	0.0-0.2-0.5
	26-30	---	---	---	0	---
W:						
Water	---	---	---	---	---	---
WaaAH:						
Wakeland	0-7	4.0-8.0-12.0	---	5.6-6.4-7.3	0	1.0-2.0-3.0
	7-29	4.0-8.0-12.0	---	5.6-6.4-7.3	0	0.0-0.5-1.0
	29-60	4.0-8.0-12.0	---	5.6-6.4-7.3	0	0.0-0.2-0.5
WokAH:						
Wilbur	0-7	4.0-10.0-16.0	---	5.6-6.4-7.3	0	1.0-2.0-3.0
	7-32	4.0-9.0-15.0	---	5.6-6.4-7.3	0	0.5-1.2-2.0
	32-60	4.0-10.0-16.0	---	5.6-6.4-7.3	0	0.5-0.8-1.0