Table J2.--Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

-5.5-6.5 | 0 | 0.0-0.2-0.5

Cu:						
Cuba	0-33	11.0-14.5-18.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	33-60	---	9.0-12.5-16.0	4.5-4.8-5.0	0	1.0-2.0-3.0
En:						
Elston	0-15	10.0-14.5-19.0	---	5.1-6.2-7.3	0	2.0-3.0-4.0
	15-36	6.0-9.5-13.0	---	5.1-5.6-6.0	0	0.5-1.2-2.0
	36-56	3.0-6.0-9.0	---	5.1-5.6-6.0	0	0.5-1.2-2.0
	56-60	1.0-4.0-7.0	---	5.6-7.0-8.4	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
GbF:						
Gilpin	0-8	---	10.0-14.5-19.0	4.5-5.0-5.5	0	1.0-2.0-3.0
	8-22	---	10.0-14.5-19.0	3.6-4.6-5.5	0	0.5-0.8-1.0
	22-30	---	8.0-13.5-19.0	3.6-4.6-5.5	0	0.0-0.2-0.5
	30-34	---	---	---	0	---
Berks	0-7	5.0-11.0-17.0	---	4.5-5.5-6.5	0	1.0-2.0-3.0
	7-30	---	3.0-9.0-15.0	3.6-5.1-6.5	0	0.5-0.8-1.0
	30-34	---	---	---	0	---
Hd:						
Haymond	0-8	7.0-11.0-15.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	8-30	7.0-11.0-15.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	30-60	6.0-9.5-13.0	---	6.1-6.7-7.3	0	0.5-1.2-2.0
HkE2:						
Hickory	0-10	12.0-14.5-17.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	10-48	---	14.0-16.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	48-60	10.0-14.0-18.0	---	5.1-6.8-8.4	0-15-30	0.0-0.2-0.5
HkF:						
Hickory	0-10	12.0-14.5-17.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	10-48	---	14.0-16.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	48-60	8.0-13.0-18.0	---	5.1-6.8-8.4	0-15-30	0.0-0.2-0.5
HoA:						
Hosmer	0-12	8.0-11.0-14.0	---	4.5-5.5-6.5	0	1.0-2.0-3.0
	12-33	---	13.0-15.0-17.0	4.5-5.0-5.5	0	0.5-0.8-1.0
	33-80	---	9.0-12.0-15.0	4.5-5.3-6.0	0	0.0-0.2-0.5
HoB2:						
Hosmer	0-12	8.0-10.5-13.0	---	4.5-5.5-6.5	0	1.0-2.0-3.0
	12-33	---	13.0-15.0-17.0	4.5-5.0-5.5	0	0.5-0.8-1.0
	33-80	---	9.0-12.0-15.0	4.5-5.3-6.0	0	0.0-0.2-0.5
HoB3:						
Hosmer	0-8	7.0-9.0-11.0	---	4.5-5.5-6.5	0	1.0-1.5-2.0
	8-20	---	13.0-15.0-17.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	20-80	---	9.0-12.0-15.0	4.5-5.3-6.0	0	0.0-0.2-0.5
HoC2:						
Hosmer	0-12	8.0-10.5-13.0	---	4.5-5.5-6.5	0	1.0-2.0-3.0
	12-33	---	13.0-15.0-17.0	4.5-5.0-5.5	0	0.5-0.8-1.0
	33-80	---	9.0-12.0-15.0	4.5-5.3-6.0	0	0.0-0.2-0.5
HoC3:						
Hosmer	0-8	7.0-9.0-11.0	---	4.5-5.5-6.5	0	1.0-1.5-2.0
	8-23	---	13.0-15.0-17.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	23-80	---	9.0-12.0-15.0	4.5-5.3-6.0	0	0.0-0.2-0.5
HoD2:						
Hosmer	0-12	8.0-10.5-13.0	---	4.5-5.5-6.5	0	1.0-2.0-3.0
	12-33	---	13.0-15.0-17.0	4.5-5.0-5.5	0	0.5-0.8-1.0
	33-80	---	9.0-12.0-15.0	4.5-5.3-6.0	0	0.0-0.2-0.5
HoD3:						
Hosmer	0-8	7.0-9.0-11.0	---	4.5-5.5-6.5	0	1.0-1.5-2.0
	8-25	---	13.0-15.0-17.0	4.5-5.0-5.5	0	0.0-0.2-0.5
	25-80	---	9.0-12.0-15.0	4.5-5.3-6.0	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

IoA:						
Iona	0-11	8.0-13.5-19.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	11-32	10.0-14.5-19.0	---	5.1-6.2-7.3	0	0.5-0.8-1.0
	32-60	5.0-10.0-15.0	---	7.4-7.9-8.4	10-20-30	0.0-0.2-0.5
IoB2:						
Iona	0-8	8.0-13.0-18.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	8-46	10.0-14.5-19.0	---	5.1-6.2-7.3	0	0.5-0.8-1.0
	46-60	5.0-10.0-15.0	---	7.4-7.9-8.4	10-20-30	0.0-0.2-0.5
IvA:						
Iva	0-18	8.0-13.5-19.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	18-40	12.0-14.5-17.0	---	5.1-5.8-6.5	0	0.5-0.8-1.0
	40-60	5.0-8.5-12.0	---	5.6-6.1-6.5	0	0.0-0.2-0.5
IvB2:						
Iva	0-18	8.0-13.0-18.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	18-40	12.0-14.5-17.0	---	5.1-5.8-6.5	0	0.5-0.8-1.0
	40-60	5.0-8.5-12.0	---	5.6-6.1-6.5	0	0.0-0.2-0.5
Kn:						
Kings	0-13	26.0-31.5-37.0	---	6.1-6.7-7.3	0	3.0-4.0-5.0
	13-42	22.0-26.5-31.0	---	6.1-6.7-7.3	0	0.5-1.2-2.0
	42-60	13.0-18.5-24.0	---	6.1-7.0-7.8	0-15-30	0.5-0.8-1.0
Ls:						
Lyles	0-14	9.0-14.5-20.0	---	6.1-6.7-7.3	0	2.0-3.0-4.0
	14-47	6.0-11.5-17.0	---	6.1-7.0-7.8	0	0.5-1.2-2.0
	47-56	3.0-10.0-17.0	---	6.1-7.0-7.8	0	0.5-1.2-2.0
	56-60	0.0-3.5-7.0	---	6.6-7.2-7.8	0-15-30	0.0-0.2-0.5
Ly:						
Lyles	0-14	9.0-14.5-20.0	---	5.6-6.5-7.3	0	2.0-3.0-4.0
	14-47	6.0-11.5-17.0	---	6.1-7.0-7.8	0	0.5-1.2-2.0
	47-56	3.0-10.0-17.0	---	6.1-7.0-7.8	0	0.5-1.2-2.0
	56-60	0.0-3.5-7.0	---	6.6-7.2-7.8	0-15-30	0.0-0.2-0.5
MaB2:						
Markland	0-8	13.0-15.5-18.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	8-36	21.0-25.0-29.0	---	5.1-6.2-7.3	0-5-10	0.5-0.8-1.0
	36-60	18.0-22.5-27.0	---	7.4-7.9-8.4	20-30-40	0.0-0.2-0.5
MaD2:						
Markland	0-8	13.0-15.5-18.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	8-36	21.0-25.0-29.0	---	5.1-6.2-7.3	0-5-10	0.5-0.8-1.0
	36-60	18.0-22.5-27.0	---	7.4-7.9-8.4	20-30-40	0.0-0.2-0.5
Mg:						
Mcgary	0-10	14.0-16.5-19.0	---	6.1-6.7-7.3	0	1.0-2.0-3.0
	10-43	18.0-22.5-27.0	---	5.6-6.7-7.8	0	0.5-0.8-1.0
	43-60	18.0-22.5-27.0	---	7.4-7.9-8.4	20-30-40	0.0-0.2-0.5
Mo:						
Montgomery	0-8	23.0-27.5-32.0	---	6.1-7.0-7.8	0	3.0-4.5-6.0
	8-60	18.0-24.5-31.0	---	6.1-7.0-7.8	0-20-40	0.5-1.2-2.0
NeF:						
Negley	0-8	9.0-14.0-19.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	8-25	10.0-14.5-19.0	---	4.5-5.5-6.5	0	0.5-0.8-1.0
	25-53	---	12.0-15.5-19.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	53-65	1.0-9.0-17.0	---	5.1-6.2-7.3	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
No:						
Nolin	0-8	9.0-15.0-21.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	8-40	10.0-14.5-19.0	---	5.6-7.0-8.4	0	0.5-1.2-2.0
	40-60	6.0-12.5-19.0	---	5.6-7.0-8.4	0	0.5-1.2-2.0
PaB2:						
Parke	0-7	12.0-15.0-18.0	---	5.1-5.8-6.5	0	1.0-2.0-3.0
	7-32	---	12.0-14.5-17.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	32-80	---	9.0-13.0-17.0	4.5-5.0-5.5	0	0.0-0.2-0.5
PaC2:						
Parke	0-7	12.0-15.0-18.0	---	5.1-5.8-6.5	0	1.0-2.0-3.0
	7-32	---	12.0-14.5-17.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	32-80	---	9.0-13.0-17.0	4.5-5.0-5.5	0	0.0-0.2-0.5
PaC3:						
Parke	0-6	11.0-13.5-16.0	---	5.1-5.8-6.5	0	1.0-1.5-2.0
	6-26	---	12.0-14.5-17.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	26-80	---	9.0-13.0-17.0	4.5-5.0-5.5	0	0.0-0.2-0.5
PaD2:						
Parke	0-7	12.0-15.0-18.0	---	5.1-5.8-6.5	0	1.0-2.0-3.0

	7-32	---	12.0-14.5-17.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	32-80	---	9.0-13.0-17.0	4.5-5.0-5.5	0	0.0-0.2-0.5
Pe:						
Peoga	0-15	9.0-14.0-19.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	15-55	---	12.0-15.5-19.0	4.5-5.0-5.5	0	0.5-0.8-1.0
	55-80	10.0-14.5-19.0	---	4.5-5.5-6.5	0	0.0-0.2-0.5
Po:						
Petrolia	0-9	11.0-17.0-23.0	---	5.6-7.0-8.4	0	1.0-2.0-3.0
	9-40	15.0-19.0-23.0	---	6.1-6.7-7.3	0	1.0-2.0-3.0
	40-60	11.0-16.0-21.0	---	4.5-6.2-7.8	0	0.5-1.2-2.0
PrA:						
Princeton	0-12	9.0-11.5-14.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	12-48	10.0-12.0-14.0	---	5.1-5.8-6.5	0	0.5-0.8-1.0
	48-60	2.0-6.5-11.0	---	5.1-6.5-7.8	0-10-20	0.0-0.2-0.5
PrB2:						
Princeton	0-12	9.0-12.0-15.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	12-48	10.0-12.0-14.0	---	5.1-5.8-6.5	0	0.5-0.8-1.0
	48-60	2.0-6.5-11.0	---	5.1-6.5-7.8	0-10-20	0.0-0.2-0.5
PrC2:						
Princeton	0-12	9.0-12.0-15.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	12-48	10.0-12.0-14.0	---	5.1-5.8-6.5	0	0.5-0.8-1.0
	48-60	2.0-6.5-11.0	---	5.1-6.5-7.8	0-10-20	0.0-0.2-0.5
PrD2:						
Princeton	0-12	9.0-12.0-15.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	12-48	10.0-12.0-14.0	---	5.1-5.8-6.5	0	0.5-0.8-1.0
	48-60	2.0-6.5-11.0	---	5.1-6.5-7.8	0-10-20	0.0-0.2-0.5
Ra:						
Ragsdale	0-17	15.0-19.5-24.0	---	6.1-6.7-7.3	0	3.0-4.5-6.0
	17-54	11.0-15.0-19.0	---	6.1-6.7-7.3	0	0.5-1.2-2.0
	54-65	5.0-8.5-12.0	---	7.4-7.9-8.4	0-15-30	0.5-0.8-1.0

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
Re:						
Reesville	0-8	9.0-12.5-16.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	8-33	14.0-16.5-19.0	---	5.1-6.5-7.8	0	0.5-0.8-1.0
	33-38	6.0-9.0-12.0	---	7.4-7.9-8.4	0-5-10	0.0-0.2-0.5
	38-60	6.0-10.0-14.0	---	7.4-7.9-8.4	10-20-30	0.0-0.2-0.5
Ro:						
Ross	0-19	13.0-19.0-25.0	---	6.1-7.0-7.8	0	2.0-3.0-4.0
	19-44	10.0-15.0-20.0	---	6.1-7.3-8.4	0	0.5-1.2-2.0
	44-60	3.0-8.5-14.0	---	6.1-7.3-8.4	0	0.5-0.8-1.0
Sr:						
Stendal	0-8	11.0-15.0-19.0	---	4.5-5.5-6.5	0	1.0-2.0-3.0
	8-60	11.0-16.0-21.0	---	4.5-5.5-6.5	0	1.0-2.0-3.0
St:						
Strip Mines						
Vg:						
Vigo	0-8	8.0-11.0-14.0	---	4.5-5.9-7.3	0	1.0-2.0-3.0
	8-22	---	7.0-10.5-14.0	4.5-5.0-5.5	0	0.5-0.8-1.0
	22-80	---	13.0-16.0-19.0	4.5-5.3-6.0	0	0.0-0.2-0.5
Vn:						
Vincennes	0-9	10.0-15.5-21.0	---	5.1-6.2-7.3	0	1.0-2.0-3.0
	9-55	11.0-14.5-18.0	---	4.5-5.5-6.5	0	0.5-0.8-1.0
	55-65	8.0-13.5-19.0	---	5.1-6.2-7.3	0	0.0-0.2-0.5
W:						
Water	---	---	---	---	---	---
Wa:						
Wakeland	0-8	7.0-10.5-14.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	8-60	7.0-10.5-14.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
WeD2:						
Wellston	0-8	9.0-13.5-18.0	---	5.1-5.8-6.5	0	1.0-2.0-3.0
	8-34	---	10.0-14.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	34-42	---	8.0-12.5-17.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	42-46	---	---	---	0	---
WeD3:						
Wellston	0-8	8.0-12.0-16.0	---	5.1-5.8-6.5	0	1.0-1.5-2.0
	8-34	---	10.0-14.5-19.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	34-42	---	8.0-12.5-17.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	42-46	---	---	---	0	---

WeE:						
Wellston----------	0-6	9.0-14.0-19.0	---	5.1-5.8-6.5	0	1.0-2.0-3.0
	6-34	---	10.0-14.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	34-42	---	8.0-12.5-17.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	42-46	---	---	---	0	---
WeF:						
Wellston----------	0-6	9.0-14.0-19.0	---	5.1-5.8-6.5	0	1.0-2.0-3.0
	6-34	---	10.0-14.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	34-42	---	8.0-13.0-18.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	42-46	---	---	---	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
ZaB2:						
Zanesville----------	0-9	---	9.0-13.5-18.0	4.5-5.3-6.0	0	1.0-2.0-3.0
	9-31	---	10.0-14.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	31-54	---	10.0-14.0-18.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	54-80	---	10.0-16.0-22.0	4.5-5.3-6.0	0	0.0-0.2-0.5
ZaC2:						
Zanesville----------	0-9	---	9.0-13.5-18.0	4.5-5.3-6.0	0	1.0-2.0-3.0
	9-31	---	10.0-14.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	31-54	---	10.0-14.0-18.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	54-80	---	10.0-16.0-22.0	4.5-5.3-6.0	0	0.0-0.2-0.5
ZaC3:						
Zanesville----------	0-8	---	8.0-12.0-16.0	4.5-5.3-6.0	0	1.0-1.5-2.0
	8-23	---	10.0-14.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	23-46	---	10.0-14.0-18.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	46-80	---	10.0-16.0-22.0	4.5-5.3-6.0	0	0.0-0.2-0.5
ZaD2:						
Zanesville----------	0-9	---	9.0-13.5-18.0	4.5-5.3-6.0	0	1.0-2.0-3.0
	9-31	---	10.0-14.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	31-54	---	10.0-14.0-18.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	54-80	---	10.0-16.0-22.0	4.5-5.3-6.0	0	0.0-0.2-0.5
ZaD3:						
Zanesville----------	0-8	---	8.0-12.0-16.0	4.5-5.3-6.0	0	1.0-1.5-2.0
	8-23	---	10.0-14.5-19.0	4.5-5.3-6.0	0	0.5-0.8-1.0
	23-46	---	10.0-14.0-18.0	4.5-5.3-6.0	0	0.0-0.2-0.5
	46-80	---	10.0-16.0-22.0	4.5-5.3-6.0	0	0.0-0.2-0.5
Zp:						
Zipp----------	0-9	18.0-22.0-26.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	9-34	21.0-25.0-29.0	---	5.6-6.5-7.3	0	0.5-0.8-1.0
	34-60	20.0-23.5-27.0	---	6.6-7.5-8.4	0	0.0-0.2-0.5
Zs:						
Zipp----------	0-21	18.0-22.0-26.0	---	5.6-6.5-7.3	0	1.0-2.0-3.0
	21-36	21.0-25.0-29.0	---	5.6-6.5-7.3	0	0.5-0.8-1.0
	36-60	20.0-23.5-27.0	---	6.6-7.5-8.4	0-10-20	0.0-0.2-0.5