Chemical Properties of the Soils

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

Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
1D3:					
IDA----------	0-7	6.6-8.4	0.7-1.2	20-25	0-25
	7-60	7.4-8.4	0.0-0.5	20-25	5-30
1E3:					
IDA----------	0-7	6.6-8.4	0.7-1.2	20-25	0-25
	7-60	7.4-8.4	0.0-0.5	20-25	5-30
1F3:					
IDA----------	0-7	6.6-8.4	0.7-1.2	20-25	0-25
	7-60	7.4-8.4	0.0-0.5	20-25	5-30
5B:					
KENNEBEC--------	0-46	5.6-7.3	1.0-7.0	30-36	0
	46-60	6.1-7.3	1.0-2.0	30-36	0
ACKMORE---------	0-11	5.6-7.3	1.0-7.0	25-30	0
	11-35	5.6-7.3	1.0-3.0	25-30	0
	35-60	5.6-7.8	3.0-5.0	25-30	5-10
6:					
OKOBOJI---------	0-10	6.6-7.8	9.0-12	41-45	0-15
	10-31	6.6-7.8	7.0-10	41-45	0-15
	31-50	6.6-8.4	3.0-4.0	36-41	0-30
	50-60	7.4-8.4	1.0-3.0	30-36	5-30
8C:					
JUDSON----------	0-25	5.6-7.3	3.0-4.0	25-30	0
	25-60	5.6-7.3	2.0-3.0	25-30	0
9B:					
MARSHALL--------	0-12	5.6-7.3	3.0-4.0	25-30	0
	12-67	5.6-7.3	0.0-1.0	25-30	0
	67-85	6.6-7.3	0.0-0.5	20-25	0
9B2:					
MARSHALL--------	0-7	5.6-7.3	2.2-3.2	25-30	0
	7-12	5.6-7.3	1.0-1.0	25-30	0
	12-67	5.6-7.3	0.0-1.0	25-30	0
	67-85	6.6-7.3	0.0-0.5	20-25	0
9C:					
MARSHALL--------	0-12	5.6-7.3	3.0-4.0	25-30	0
	12-67	5.6-7.3	0.0-1.0	25-30	0
	67-85	6.6-7.3	0.0-0.5	20-25	0
9C2:					
MARSHALL--------	0-7	5.6-7.3	2.2-3.2	25-30	0
	7-12	5.6-7.3	1.0-1.0	25-30	0
	12-67	5.6-7.3	0.0-1.0	25-30	0
	67-85	6.6-7.3	0.0-0.5	20-25	0
9D2:					
MARSHALL--------	0-7	5.6-7.3	2.2-3.2	25-30	0
	7-12	5.6-7.3	1.0-1.0	25-30	0

Chemical Properties of the Soils

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

Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
	12-67	5.6-7.3	0.0-1.0	25-30	0
	67-85	6.6-7.3	0.0-0.5	20-25	0
9D3:					
MARSHALL--------	0-7	5.6-7.3	1.2-2.2	25-30	0
	7-12	5.6-7.3	0.0-2.0	25-30	0
	12-67	6.6-7.3	0.0-1.0	20-25	0
10D3:					
MONONA----------	0-9	5.6-7.3	1.2-2.2	25-30	0
	9-35	6.1-7.3	0.0-0.5	25-30	0
	35-60	6.6-8.4	0.0-0.5	20-25	0-25
10E3:					
MONONA----------	0-9	5.6-7.3	1.2-2.2	25-30	0
	9-35	6.1-7.3	0.0-0.5	25-30	0
	35-60	6.6-8.4	0.0-0.5	20-25	0-25
11B:					
COLO----------	0-47	5.6-7.3	5.0-7.0	36-41	0
	47-62	5.6-7.3	3.0-4.0	36-41	0
	62-66	6.1-7.3	1.0-2.0	30-36	0
ELY----------	0-26	5.6-7.3	4.0-6.0	30-36	0
	26-52	6.1-7.3	1.0-3.0	30-36	0
	52-84	6.6-8.4	0.5-1.0	25-30	0-25
24C2:					
SHELBY----------	0-7	5.1-7.3	2.2-3.2	20-25	0
	7-14	5.1-7.3	1.0-2.0	20-25	0
	14-36	5.1-7.3	0.0-1.0	20-25	0
	36-60	6.6-8.4	0.0-0.5	20-25	0-30
24D2:					
SHELBY----------	0-7	5.1-7.3	2.2-3.2	20-25	0
	7-14	5.1-7.3	1.0-2.0	20-25	0
	14-36	5.1-7.3	0.0-1.0	20-25	0
	36-60	6.6-8.4	0.0-0.5	20-25	0-30
24E2:					
SHELBY----------	0-7	5.1-7.3	2.2-3.2	20-25	0
	7-14	5.1-7.3	1.0-2.0	20-25	0
	14-36	5.1-7.3	0.0-1.0	20-25	0
	36-60	6.6-8.4	0.0-0.5	20-25	0-30
26B:					
KENNEBEC--------	0-46	5.6-7.3	4.0-6.0	30-36	0
	46-72	6.1-7.3	1.0-2.0	30-36	0
27C:					
TERRIL----------	0-17	6.1-7.3	3.0-4.0	20-25	0
	17-31	6.1-7.3	2.0-3.0	20-25	0
	31-60	6.1-7.8	0.0-1.0	15-25	0-15

Chemical Properties of the Soils

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Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
31:					
AFTON----------	0-25	6.1-7.8	6.0-7.0	30-36	0-10
	25-48	7.4-8.4	1.0-2.0	30-36	5-30
	48-60	7.4-8.4	0.0-0.5	30-36	5-30
33E:					
STEINAUER-------	0-5	7.4-8.4	3.0-4.0	20-25	---
	5-73	7.9-8.4	0.5-1.0	---	---
	73-77	7.9-8.4	0.0-0.5	---	---
33F:					
STEINAUER-------	0-5	7.4-8.4	3.0-4.0	20-25	---
	5-73	7.9-8.4	0.5-1.0	---	---
	73-77	7.9-8.4	0.0-0.5	---	---
41D:					
SPARTA----------	0-15	5.1-7.3	1.0-2.0	10-15	0
	15-60	5.1-7.3	0.1-1.0	1.0-6.0	0
	60-64	5.1-7.8	0.0-0.5	1.0-4.0	0
54:					
ZOOK----------	0-20	5.6-7.3	5.0-7.0	36-41	0
	20-40	5.6-7.8	2.0-4.0	36-41	0
	40-60	5.6-7.8	0.0-1.0	30-36	0
55:					
NICOLLET--------	0-14	5.6-7.3	5.0-6.0	20-25	0
	14-45	5.6-7.8	3.0-5.0	15-25	0-15
	45-69	7.4-8.4	0.0-1.0	10-20	5-30
62C:					
STORDEN---------	0-5	7.4-8.4	2.5-3.5	15-20	5-30
	5-60	7.4-8.4	0.0-0.5	7.0-18	5-30
62D:					
STORDEN---------	0-5	7.4-8.4	2.5-3.5	15-20	5-30
	5-60	7.4-8.4	0.0-0.5	7.0-18	5-30
62E:					
STORDEN---------	0-5	7.4-8.4	2.5-3.5	15-20	5-30
	5-60	7.4-8.4	0.0-0.5	7.0-18	5-30
62F:					
STORDEN---------	0-5	7.4-8.4	2.5-3.5	15-20	5-30
	5-60	7.4-8.4	0.0-0.5	7.0-18	5-30
62G:					
STORDEN---------	0-5	7.4-8.4	2.5-3.5	15-20	5-30
	5-60	7.4-8.4	0.0-0.5	7.0-18	5-30
73C:					
SALIDA----------	0-18	6.1-8.4	1.0-2.0	10-15	0-30
	18-60	7.4-8.4	0.0-0.5	1.0-3.0	5-30

Chemical Properties of the Soils

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Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
73D:					
SALIDA----------	0-18	6.1-8.4	1.0-2.0	10-15	0-30
	18-60	7.4-8.4	0.0-0.5	1.0-3.0	5-30
77B:					
SAC----------	0-14	5.6-7.3	3.5-4.5	36-41	0
	14-28	5.6-7.3	1.0-2.0	36-41	0
	28-76	6.6-8.4	0.0-1.0	30-36	0-30
77B2:					
SAC----------	0-14	5.6-7.3	2.7-3.7	36-41	---
	14-28	5.6-7.3	1.0-2.0	36-41	---
	28-76	6.6-8.4	0.0-1.0	30-36	0-30
77C:					
SAC----------	0-14	5.6-7.3	3.5-4.5	36-41	0
	14-28	5.6-7.3	1.0-2.0	36-41	0
	28-76	6.6-8.4	0.0-1.0	30-36	0-30
77C2:					
SAC----------	0-14	5.6-7.3	2.7-3.7	36-41	---
	14-28	5.6-7.3	1.0-2.0	36-41	---
	28-76	6.6-8.4	0.0-1.0	30-36	0-30
78B:					
SAC----------	0-14	5.6-7.3	3.5-4.5	36-41	0
	14-28	6.1-7.3	1.0-2.0	36-41	0
	28-76	6.6-8.4	0.0-1.0	36-41	0-30
78B2:					
SAC----------	0-14	5.6-7.3	2.7-3.7	36-41	---
	14-28	6.1-7.3	1.0-2.0	36-41	0
	28-76	6.6-8.4	0.0-1.0	36-41	0-30
78C:					
SAC----------	0-14	5.6-7.3	3.5-4.5	36-41	0
	14-28	6.1-7.3	1.0-2.0	36-41	0
	28-76	6.6-8.4	0.0-1.0	36-41	0-30
78C2:					
SAC----------	0-14	5.6-7.3	2.7-3.7	36-41	---
	14-28	6.1-7.3	1.0-2.0	36-41	0
	28-76	6.6-8.4	0.0-1.0	36-41	0-30
91:					
PRIMGHAR--------	0-20	5.6-7.3	5.0-6.0	41-45	0
	20-44	6.1-8.4	2.0-4.0	36-41	0-30
	44-64	7.9-8.4	1.0-2.0	30-36	15-30
	64-68	7.9-8.4	0.0-1.0	30-36	15-30
92:					
MARCUS----------	0-15	6.1-7.8	6.0-7.0	41-45	0-15
	15-40	6.1-8.4	3.0-5.0	41-45	0-25
	40-50	7.9-8.4	1.0-2.0	36-41	20-30
	50-60	7.9-8.4	0.0-1.0	30-36	20-30

Chemical Properties of the Soils

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Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
95:					
HARPS----------	0-21	7.9-8.4	4.5-5.5	36-41	20-30
	21-42	7.9-8.4	2.0-3.0	25-30	20-30
	42-70	7.4-8.4	0.0-1.0	20-25	20-30
107:					
WEBSTER---------	0-12	6.6-7.3	6.0-7.0	35-41	0
	12-25	6.6-7.8	2.0-4.0	35-41	5-10
	25-76	7.4-8.4	1.0-2.0	30-35	5-30
108:					
WADENA----------	0-13	6.1-7.3	3.5-4.5	20-25	---
	13-27	5.6-7.3	0.5-1.0	10-20	---
	27-60	6.6-8.4	0.0-0.5	1.0-5.0	---
108B:					
WADENA----------	0-13	6.1-7.3	3.0-4.0	20-25	---
	13-27	5.6-7.3	0.5-1.0	10-20	---
	27-60	6.6-8.4	0.0-0.5	1.0-5.0	---
108C2:					
WADENA----------	0-13	6.1-7.3	2.2-3.2	20-25	---
	13-27	5.6-7.3	0.5-1.0	10-20	---
	27-60	6.6-8.4	0.0-0.5	1.0-5.0	---
133:					
COLO----------	0-47	5.6-7.3	5.0-7.0	36-41	0
	47-62	5.6-7.3	3.0-4.0	36-41	0
	62-66	6.1-7.3	1.0-2.0	30-36	0
134:					
ZOOK----------	0-20	5.6-7.3	5.0-7.0	36-41	0
	20-40	5.6-7.8	2.0-4.0	36-41	0
	40-60	5.6-7.8	0.0-1.0	30-36	0
135:					
COLAND----------	0-20	6.1-7.3	5.0-7.0	30-36	0
	20-42	6.1-7.3	3.0-5.0	30-36	0
	42-60	6.1-7.8	0.0-2.0	20-30	0-20
135B:					
COLAND----------	0-20	6.1-7.3	5.0-7.0	30-36	0
	20-42	6.1-7.3	3.0-5.0	30-36	0
	42-60	6.1-7.8	0.0-2.0	20-30	0-20
138B:					
CLARION---------	0-16	5.6-7.3	3.0-4.0	20-25	0
	16-32	5.6-7.8	0.5-1.0	20-25	0-15
	32-60	7.4-8.4	0.0-0.5	20-25	5-30
138C:					
CLARION---------	0-16	5.6-7.3	2.0-4.0	20-25	0
	16-32	5.6-7.8	0.5-1.0	20-25	0-15
	32-60	7.4-8.4	0.0-0.5	20-25	5-30

Chemical Properties of the Soils

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Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
138C2:					
CLARION---------	0-7	5.6-7.3	2.2-3.2	20-25	0
	7-16	5.6-7.3	1.0-2.0	20-25	0
	16-32	5.6-7.8	0.5-1.0	20-25	0-15
	32-60	7.4-8.4	0.0-0.5	20-25	5-30
138D2:					
CLARION---------	0-7	5.6-7.3	2.2-3.2	20-25	0
	7-16	5.6-7.3	1.0-2.0	20-25	0
	16-32	5.6-7.8	0.5-1.0	20-25	0-15
	32-60	7.4-8.4	0.0-0.5	20-25	5-30
174B:					
BOLAN----------	0-11	5.6-7.3	2.5-3.5	15-20	0
	11-24	5.6-6.5	1.0-2.0	10-15	0
	24-60	5.6-7.3	0.0-1.0	10-15	0
	60-64	5.6-7.3	0.0-0.5	5.0-10	0
174C2:					
BOLAN----------	0-11	5.6-7.3	2.0-3.0	15-20	0
	11-24	5.6-6.5	0.0-1.0	10-15	0
	24-60	5.6-7.3	0.0-0.5	10-15	0
	60-64	5.6-7.3	0.0-0.5	5.0-10	0
174D2:					
BOLAN----------	0-11	5.6-7.3	2.0-3.0	15-20	0
	11-24	5.6-6.5	0.0-1.0	10-15	0
	24-60	5.6-7.3	0.0-0.5	10-15	0
	60-64	5.6-7.3	0.0-0.5	5.0-10	0
201B:					
COLAND----------	0-20	6.1-7.3	3.0-7.0	30-36	0
	20-42	6.1-7.3	3.0-5.0	30-36	0
	42-60	6.1-7.8	0.0-2.0	20-30	0-20
SPILLVILLE------	0-47	5.6-7.3	3.0-7.0	20-25	0
	47-66	5.6-7.3	2.0-3.0	20-25	0
202:					
CYLINDER--------	0-12	5.6-7.3	4.0-5.0	20-25	0
	12-28	6.1-7.3	2.0-3.0	20-25	0
	28-60	6.6-8.4	0.0-0.5	5.0-10	0-25
203:					
CYLINDER--------	0-14	5.6-7.3	4.0-5.0	20-25	0
	14-34	6.1-7.3	2.0-3.0	20-25	0
	34-64	6.6-8.4	0.0-0.5	5.0-10	0-25
221:					
PALMS----------	0-24	5.1-8.4	20-50	65-100	0
	24-60	6.1-8.4	0.0-5.0	2.0-14	0-20
234:					
NISHNA----------	0-48	7.4-8.4	4.5-6.5	41-45	5-30

Chemical Properties of the Soils

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Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
	48-60	7.4-8.4	1.0-2.0	30-36	5-30
236B:					
LESTER----------	0-14	5.6-7.3	2.5-3.5	20-25	0
	14-48	5.1-7.3	0.5-1.0	10-23	0
	48-72	7.4-8.4	0.0-0.5	8.0-18	5-30
259:					
BISCAY----------	0-12	6.1-7.4	5.5-6.5	20-35	0-15
	12-28	6.6-7.8	0.5-1.0	12-25	0-15
	28-36	6.6-7.8	0.5-1.0	5.0-20	0-15
	36-60	7.4-8.4	0.0-0.5	1.0-5.0	5-30
274:					
ROLFE----------	0-17	5.1-7.3	3.4-5.0	20-25	0
	17-47	6.1-7.3	1.0-2.0	20-30	0
	47-65	6.1-8.4	0.0-1.0	20-25	0-25
308:					
WADENA----------	0-13	6.1-7.3	3.5-4.5	20-25	---
	13-35	5.6-7.3	0.5-1.0	10-20	---
	35-60	6.6-8.4	0.0-0.5	1.0-5.0	---
308B:					
WADENA----------	0-13	6.1-7.3	3.0-4.0	20-25	---
	13-35	5.6-7.3	0.5-1.0	10-20	---
	35-60	6.6-8.4	0.0-0.5	1.0-5.0	---
310:					
GALVA----------	0-16	5.6-7.3	4.0-5.0	36-41	0
	16-40	6.1-7.3	1.0-2.0	36-41	0
	40-60	6.6-8.4	0.0-0.5	36-41	0-25
	60-64	7.4-8.4	0.0-0.5	36-41	5-30
310B:					
GALVA----------	0-16	5.6-7.3	3.5-4.5	36-41	0
	16-40	6.1-7.3	1.0-2.0	36-41	0
	40-60	6.6-8.4	0.0-0.5	36-41	0-25
	60-64	7.4-8.4	0.0-0.5	36-41	5-30
310B2:					
GALVA----------	0-16	5.6-7.3	2.7-3.7	36-41	0
	16-40	6.1-7.3	1.0-2.0	36-41	0
	40-60	6.6-8.4	0.0-1.0	36-41	0-25
	60-64	7.4-8.4	0.0-0.5	36-41	5-30
310C:					
GALVA----------	0-16	5.6-7.3	3.5-4.5	36-41	0
	16-40	6.1-7.3	1.0-2.0	36-41	0
	40-60	6.6-8.4	0.0-0.5	36-41	0-25
	60-64	7.4-8.4	0.0-0.5	36-41	5-30
310C2:					
GALVA----------	0-16	5.6-7.3	2.7-3.7	36-41	0
	16-40	6.1-7.3	1.0-2.0	36-41	0

Chemical Properties of the Soils

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

Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
	40-60	6.6-8.4	0.0-1.0	36-41	0-25
	60-64	7.4-8.4	0.0-0.5	36-41	5-30
315:					
ALLUVIAL LAND---	0-9	5.6-7.3	0.5-2.0	5.0-10	0
	9-60	5.6-7.3	0.0-0.5	5.0-10	0
323B:					
TERRIL----------	0-31	6.1-7.3	3.0-4.0	20-25	0
	31-45	6.1-7.3	2.0-3.0	20-25	0
	45-60	6.1-8.4	0.0-1.0	4.0-10	0-30
325:					
LE SUEUR--------	0-14	5.6-7.3	3.0-4.0	20-25	0
	14-44	5.1-7.3	0.5-2.0	11-25	0
	44-60	7.4-8.4	0.0-0.5	8.0-18	5-30
354:					
MARSH----------	---	---	---	---	---
384:					
COLLINWOOD------	0-23	5.6-7.3	5.0-6.0	41-41	---
	23-39	5.6-7.3	2.0-4.0	25-35	---
	39-60	7.4-8.4	0.0-1.0	15-25	---
390:					
WALDORF---------	0-24	6.1-7.3	6.0-7.0	33-48	---
	24-47	6.6-7.8	0.5-1.0	25-46	0-15
	47-64	7.4-8.4	0.0-0.5	14-37	15-30
397B:					
LETRI----------	0-14	6.1-7.8	6.0-8.0	36-41	---
	14-34	6.1-7.8	3.0-5.0	25-35	---
	34-65	6.6-8.4	1.0-2.0	15-25	---
428:					
ELY----------	0-26	5.6-7.3	5.0-6.0	30-36	0
	26-52	6.1-7.3	1.0-3.0	30-36	0
	52-84	6.6-8.4	0.5-1.0	25-30	0-25
430:					
ACKMORE---------	0-11	5.6-7.3	1.0-3.0	25-30	0
	11-35	5.6-7.3	1.0-3.0	25-30	0
	35-60	5.6-7.8	3.0-5.0	25-30	5-10
430B:					
ACKMORE---------	0-11	5.6-7.3	1.0-3.0	25-30	0
	11-35	5.6-7.3	1.0-3.0	25-30	0
	35-60	5.6-7.8	3.0-5.0	25-30	5-10
485:					
SPILLVILLE------	0-47	5.6-7.3	4.0-5.0	20-25	0
	47-66	5.6-7.3	2.0-3.0	20-25	0

Chemical Properties of the Soils

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

Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
485B:					
SPILLVILLE------	0-47	5.6-7.3	3.5-4.5	20-25	0
	47-66	5.6-7.3	2.0-3.0	20-25	0
506:					
WACOUSTA--------	0-15	6.6-7.3	8.0-10	41-50	0-15
	15-60	6.6-7.8	2.0-4.0	30-35	0-15
	60-64	7.4-8.4	0.0-1.0	25-30	5-30
507:					
CANISTEO--------	0-16	7.4-8.4	6.0-7.0	36-41	5-15
	16-31	7.4-8.4	2.0-4.0	12-29	12-18
	31-46	7.4-8.4	0.5-1.0	6.0-23	10-15
	46-60	7.4-8.4	0.0-0.5	9.0-20	10-15
511:					
BLUE EARTH------	0-10	7.4-8.4	10-15	10-44	5-20
	10-40	7.4-8.4	10-25	36-44	5-40
	40-60	7.4-8.4	0.0-0.5	9.0-17	5-40
559:					
TALCOT----------	0-18	7.4-8.4	5.5-6.5	36-41	5-30
	18-37	7.4-8.4	2.0-6.0	30-35	5-30
	37-60	7.4-8.4	0.5-1.0	1.0-5.0	5-30
577C2:					
EVERLY----------	0-6	5.6-7.3	2.2-3.2	25-30	0
	6-17	6.1-7.3	0.0-1.0	25-30	0
	17-60	7.4-8.4	0.0-0.5	25-30	5-30
577D2:					
EVERLY----------	0-6	5.6-7.3	2.2-3.2	25-30	0
	6-17	6.1-7.3	0.0-1.0	25-30	0
	17-60	7.4-8.4	0.0-0.5	25-30	5-30
606:					
LANYON----------	0-15	6.6-7.8	6.0-7.0	41-45	0-15
	15-56	7.9-8.4	2.0-4.0	41-45	20-30
	56-66	7.9-8.4	0.5-1.0	30-35	20-30
733:					
CALCO----------	0-36	7.4-8.4	5.0-7.0	36-41	5-30
	36-49	7.4-8.4	3.0-5.0	36-41	5-30
	49-60	7.4-8.4	1.0-3.0	36-41	5-30
823B:					
FLAGLER---------	0-13	5.6-7.3	1.5-2.5	15-20	0
	13-28	5.6-7.3	0.0-1.0	15-20	0
	28-63	7.4-8.4	0.0-0.5	5.0-10	0-25
823C2:					
FLAGLER---------	0-13	5.6-7.3	1.0-2.0	15-20	---
	13-28	5.6-7.3	0.0-0.5	15-20	---
	28-63	7.4-8.4	0.0-0.5	5.0-10	0-25

Chemical Properties of the Soils

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

Sac County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
C5B:					
KENNEBEC--------	0-46	5.6-7.3	1.0-7.0	30-36	0
	46-60	6.1-7.3	1.0-2.0	30-36	0
ACKMORE---------	0-11	5.6-7.3	1.0-7.0	25-30	0
	11-35	5.6-7.3	1.0-3.0	25-30	0
	35-60	5.6-7.8	3.0-5.0	25-30	5-10
C201B:					
COLAND----------	0-10	6.1-7.3	5.0-7.0	30-36	0
	10-42	6.1-7.3	3.0-5.0	30-36	0
	42-60	6.1-7.8	0.0-2.0	20-30	0-20
SPILLVILLE------	0-47	5.6-7.3	3.0-7.0	20-25	0
	47-66	5.6-7.3	2.0-3.0	20-25	0
T310:					
GALVA----------	0-11	5.6-7.3	4.0-5.0	36-41	0
	11-36	6.1-7.3	1.0-2.0	36-41	0
	36-50	6.6-8.4	0.5-1.0	30-36	0-25
	50-60	7.4-8.4	0.0-0.5	5.0-10	5-30
T310B:					
GALVA----------	0-11	5.6-7.3	4.0-5.0	36-41	0
	11-36	6.1-7.3	1.0-2.0	36-41	0
	36-50	6.6-8.4	0.5-1.0	30-36	0-25
	50-60	7.4-8.4	0.0-0.5	5.0-10	5-30