Chemical Properties of the Soils

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

Dickinson County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
6:					
OKOBOJI	0-7	6.6-7.8	9.0-12	41-45	0-15
	7-32	6.6-7.8	7.0-10	41-45	0-15
	32-56	6.6-8.4	3.0-4.0	36-41	0-30
	56-60	7.4-8.4	1.0-3.0	30-36	5-30
CALCAREOUS	---	---	---	---	---
27B:					
TERRIL	0-24	6.1-7.3	3.0-4.0	20-25	0
	24-46	6.1-7.3	2.0-3.0	20-25	0
	46-60	6.1-7.8	0.0-1.0	15-25	0-15
27C:					
TERRIL	0-24	6.1-7.3	3.0-4.0	20-25	0
	24-46	6.1-7.3	2.0-3.0	20-25	0
	46-60	6.1-7.8	0.0-1.0	15-25	0-15
28B:					
DICKMAN	0-12	6.1-7.3	1.5-2.5	15-20	---
	12-29	5.6-7.3	0.5-1.5	5.0-10	---
	29-60	5.1-7.8	0.0-0.5	1.0-4.0	0
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
32:					
SPICER	0-11	7.4-8.4	6.0-7.0	36-41	5-30
	11-15	7.4-8.4	3.0-5.0	15-25	5-30
	15-36	7.4-8.4	1.0-2.0	15-25	5-30
	36-60	7.4-8.4	0.0-2.0	10-20	5-30
55:					
NICOLLET	0-18	6.1-7.3	5.0-6.0	20-25	0
	18-30	5.6-7.8	1.0-4.0	15-25	0-15
	30-60	7.4-8.4	0.0-1.0	10-20	5-30
62C2:					
STORDEN	0-6	7.4-8.4	1.7-2.7	15-20	5-30
	6-60	7.4-8.4	0.0-0.5	7.0-18	5-30
62D:					
STORDEN	0-17	7.4-8.4	2.5-3.5	15-20	5-30
	17-60	7.4-8.4	0.0-0.5	7.0-18	5-30
62D2:					
STORDEN	0-6	7.4-8.4	1.7-2.7	15-20	5-30
	6-60	7.4-8.4	0.0-0.5	7.0-18	5-30
62E:					
STORDEN	0-13	7.4-8.4	2.5-3.5	15-20	5-30
	13-60	7.4-8.4	0.0-0.5	7.0-18	5-30

Chemical Properties of the Soils

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

Dickinson County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
62G:					
STORDEN---------	0-10	7.4-8.4	2.5-3.5	15-20	5-30
	10-60	7.4-8.4	0.0-0.5	7.0-18	5-30
72:					
ESTHERVILLE-----	0-11	5.6-7.3	3.0-4.0	20-25	0
	11-18	5.6-7.3	0.0-0.5	4.0-20	0
	18-60	6.6-8.4	0.0-0.5	0.0-5.0	0-20
72B:					
ESTHERVILLE-----	0-10	5.6-7.3	3.0-4.0	20-25	0
	10-18	5.6-7.3	0.0-0.5	4.0-20	0
	18-60	6.6-8.4	0.0-0.5	0.0-5.0	0-20
72C2:					
ESTHERVILLE-----	0-7	5.6-7.3	2.2-3.2	20-25	---
	7-18	5.6-7.3	0.0-0.5	4.0-20	---
	18-60	6.6-8.4	0.0-0.5	0.0-5.0	0-20
73D:					
SALIDA----------	0-5	6.1-8.4	1.5-2.5	10-15	0-30
	5-12	7.4-8.4	0.0-0.5	1.0-5.0	5-30
	12-60	7.4-8.4	0.0-0.5	1.0-3.0	5-30
73E:					
SALIDA----------	0-5	6.1-8.4	1.5-2.5	10-15	0-30
	5-12	7.4-8.4	0.0-0.5	1.0-5.0	5-30
	12-60	7.4-8.4	0.0-0.5	1.0-3.0	5-30
73G:					
SALIDA----------	0-5	6.1-8.4	1.5-2.5	10-15	0-30
	5-12	7.4-8.4	0.0-0.5	1.0-5.0	5-30
	12-60	7.4-8.4	0.0-0.5	1.0-3.0	5-30
77B:					
SAC----------	0-13	5.6-7.3	3.5-4.5	36-41	0
	13-30	5.6-7.3	1.0-2.0	36-41	0
	30-60	6.6-8.4	0.0-1.0	30-36	0-30
91:					
PRIMGHAR--------	0-17	5.6-7.3	5.0-6.0	41-45	0
	17-27	6.1-8.4	2.0-4.0	36-41	0-30
	27-46	7.9-8.4	1.0-2.0	30-36	15-30
	46-60	7.9-8.4	0.0-1.0	30-36	15-30
91B:					
PRIMGHAR--------	0-20	5.6-7.3	5.0-6.0	41-45	0
	20-34	6.1-8.4	2.0-4.0	36-41	0-30
	34-48	7.9-8.4	1.0-2.0	30-36	15-30
	48-60	7.9-8.4	0.0-1.0	30-36	15-30
92:					
MARCUS----------	0-16	6.1-7.8	6.0-7.0	41-45	0-15
	16-32	6.1-8.4	3.0-5.0	41-45	0-25
	32-46	7.9-8.4	1.0-2.0	36-41	20-30

Chemical Properties of the Soils

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Dickinson County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
	46-60	7.9-8.4	0.0-1.0	30-36	20-30
95:					
HARPS----------	0-20	7.9-8.4	4.5-5.5	36-41	20-30
	20-38	7.9-8.4	2.0-3.0	25-30	20-30
	38-60	7.4-8.4	0.0-1.0	20-25	20-30
107:					
WEBSTER---------	0-17	6.6-7.3	6.0-7.0	36-41	0
	17-35	6.6-7.8	2.0-4.0	35-41	5-10
	35-60	7.4-8.4	1.0-2.0	30-35	5-30
108:					
WADENA----------	0-15	6.1-7.3	3.5-4.5	20-25	---
	15-24	5.6-7.3	0.5-1.0	10-20	---
	24-60	6.6-8.4	0.0-0.5	1.0-5.0	---
108B:					
WADENA----------	0-15	6.1-7.3	3.0-4.0	20-25	---
	15-24	5.6-7.3	0.5-1.0	10-20	---
	24-60	6.6-8.4	0.0-0.5	1.0-5.0	---
108C:					
WADENA----------	0-15	6.1-7.3	3.0-4.0	20-25	---
	15-24	5.6-7.3	0.5-1.0	10-20	---
	24-60	6.6-8.4	0.0-0.5	1.0-5.0	---
135:					
COLAND----------	0-36	6.1-7.3	5.0-7.0	30-36	0
	36-60	6.1-7.8	0.0-2.0	20-30	0-20
138B:					
CLARION---------	0-15	5.6-7.3	3.0-4.0	20-25	0
	15-32	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---------	0-15	5.6-7.3	3.0-4.0	20-25	0
	15-32	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
138C2:					
CLARION---------	0-7	5.6-7.3	2.2-3.2	20-25	0
	7-15	5.6-7.3	1.0-2.0	20-25	0
	15-32	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
138D:					
CLARION---------	0-15	5.6-7.3	3.0-4.0	20-25	0
	15-32	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
	7-15	5.6-7.3	1.0-2.0	20-25	0

Chemical Properties of the Soils

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Dickinson County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
	15-32	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
201B:					
COLAND----------	0-36	6.1-7.3	3.0-7.0	30-36	0
	36-60	6.1-7.8	0.0-2.0	20-30	0-20
SPILLVILLE------	0-46	5.6-7.3	3.0-7.0	20-25	0
	46-60	5.6-7.3	2.0-3.0	20-25	0
202:					
CYLINDER--------	0-15	5.6-7.3	4.0-5.0	20-25	0
	15-26	6.1-7.3	2.0-3.0	20-25	0
	26-60	6.6-8.4	0.0-0.5	5.0-10	0-25
203:					
CYLINDER--------	0-21	5.6-7.3	4.0-5.0	20-25	0
	21-35	6.1-7.3	2.0-3.0	20-25	0
	35-60	6.6-8.4	0.0-0.5	5.0-10	0-25
259:					
BISCAY----------	0-24	6.1-7.4	5.5-6.5	20-35	0-15
	24-34	6.6-7.8	0.5-1.0	12-25	0-15
	34-60	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
	17-46	6.1-7.3	1.0-2.0	20-30	0
	46-60	6.1-8.4	0.0-1.0	20-25	0-25
282:					
RANSOM----------	0-20	6.6-7.3	4.0-5.0	25-35	---
	20-30	6.6-7.8	1.0-4.0	25-35	---
	30-60	7.4-8.4	0.0-1.0	20-30	---
308:					
WADENA----------	0-12	6.1-7.3	3.5-4.5	20-25	---
	12-39	5.6-7.3	0.5-1.0	10-20	---
	39-60	6.6-8.4	0.0-0.5	1.0-5.0	---
308B:					
WADENA----------	0-12	6.1-7.3	3.0-4.0	20-25	---
	12-39	5.6-7.3	0.5-1.0	10-20	---
	39-60	6.6-8.4	0.0-0.5	1.0-5.0	---
330:					
KINGSTON--------	0-18	5.6-7.3	5.0-6.0	20-25	---
	18-39	5.6-7.8	1.0-4.0	15-20	---
	39-60	7.4-8.4	0.0-1.0	15-20	---
331:					
MADELIA---------	0-17	6.1-7.3	6.0-7.0	30-36	---
	17-32	6.6-7.8	3.0-6.0	20-30	---
	32-60	7.4-8.4	1.0-3.0	20-30	---
	60-64	7.4-8.4	0.5-1.0	20-25	---

Chemical Properties of the Soils

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Dickinson County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
384:					
COLLINWOOD------	0-15	5.6-7.3	5.0-6.0	41-41	---
	15-40	5.6-7.3	1.0-4.0	25-35	---
	40-60	7.4-8.4	0.0-1.0	15-25	---
390:					
WALDORF---------	0-16	6.1-7.3	6.0-7.0	33-48	---
	16-38	6.6-7.8	0.5-1.0	25-46	0-15
	38-60	7.4-8.4	0.0-0.5	14-37	15-30
397:					
LETRI----------	0-20	6.1-7.8	6.0-8.0	36-41	---
	20-32	6.1-7.8	2.0-5.0	36-41	---
	32-60	6.6-8.4	0.0-2.0	25-35	---
456:					
WILMONTON-------	0-18	6.1-7.3	5.0-6.0	20-25	---
	18-30	6.1-7.8	1.0-4.0	20-25	---
	30-60	7.4-8.4	0.0-1.0	15-20	---
474B:					
BOLAN----------	0-18	5.6-7.3	3.0-4.0	15-20	0
	18-28	5.6-6.5	1.0-2.0	10-15	0
	28-31	5.6-7.3	0.0-1.0	10-15	0
	31-60	5.6-7.3	0.0-0.5	5.0-10	0
474C2:					
BOLAN----------	0-8	5.6-7.3	2.2-3.2	15-20	0
	8-22	5.6-6.5	0.0-1.0	10-15	0
	22-28	5.6-7.3	0.0-0.5	10-15	0
	28-60	5.6-7.3	0.0-0.5	5.0-10	0
485:					
SPILLVILLE------	0-42	5.6-7.3	4.0-5.0	20-25	0
	42-60	5.6-7.3	2.0-3.0	20-25	0
485B:					
SPILLVILLE------	0-36	5.6-7.3	3.5-4.5	20-25	0
	36-60	5.6-7.3	2.0-3.0	20-25	0
507:					
CANISTEO--------	0-22	7.4-8.4	6.0-7.0	36-41	5-15
	22-27	7.4-8.4	2.0-4.0	12-29	12-18
	27-38	7.4-8.4	0.5-1.0	6.0-23	10-15
	38-60	7.4-8.4	0.0-0.5	9.0-20	10-15
511:					
BLUE EARTH------	0-7	7.4-8.4	15-15	0.0-41	5-20
	7-20	7.4-8.4	10-25	36-44	5-40
	20-60	7.4-8.4	0.0-0.5	9.0-17	5-40
559:					
TALCOT----------	0-24	7.4-8.4	5.5-6.5	36-41	5-30
	24-35	7.4-8.4	2.0-6.0	12-25	5-30

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Dickinson County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
	35-60	7.4-8.4	0.5-1.0	1.0-5.0	5-30
577:					
EVERLY----------	0-11	5.6-7.3	3.5-4.5	25-30	0
	11-29	6.1-7.3	1.0-2.0	25-30	0
	29-60	7.4-8.4	0.0-0.5	25-30	5-30
577B:					
EVERLY----------	0-11	5.6-7.3	3.0-4.0	25-30	0
	11-29	6.1-7.3	1.0-2.0	25-30	0
	29-60	7.4-8.4	0.0-0.5	25-30	5-30
577C2:					
EVERLY----------	0-11	5.6-7.3	2.2-3.2	25-30	0
	11-29	6.1-7.3	0.0-1.0	25-30	0
	29-60	7.4-8.4	0.0-0.5	25-30	5-30
655:					
CRIPPIN---------	0-16	6.6-8.4	5.0-6.0	20-25	0-25
	16-35	7.4-8.4	3.0-4.0	20-25	5-30
	35-60	7.9-8.4	1.0-2.0	20-25	15-30
733:					
CALCO----------	0-32	7.4-8.4	5.0-7.0	36-41	5-30
	32-40	7.4-8.4	3.0-5.0	36-41	5-30
	40-60	7.4-8.4	1.0-3.0	36-41	5-30
878:					
OCHEYEDAN-------	0-15	5.1-7.3	3.5-4.5	20-25	0
	15-45	6.1-7.8	0.5-1.0	20-25	0-15
	45-60	6.6-8.4	0.0-0.5	20-25	0-30
878B:					
OCHEYEDAN-------	0-15	5.1-7.3	3.0-4.0	20-25	0
	15-45	6.1-7.8	0.5-1.0	20-25	0-15
	45-60	6.6-8.4	0.0-0.5	20-25	0-30
879:					
FOSTORIA--------	0-17	6.1-7.3	5.0-6.0	25-30	0
	17-31	6.1-7.3	4.0-5.0	25-30	0
	31-60	7.4-8.4	0.5-3.0	15-25	5-25
1202:					
CYLINDER VARIANT	0-18	7.4-8.4	4.0-5.0	20-25	5-30
	18-27	7.4-8.4	1.0-2.0	20-25	5-30
	27-60	7.4-8.4	0.0-0.5	5.0-10	5-30
1384B:					
COLLINWOOD VARIANT--------	0-14	5.6-7.3	3.0-4.0	41-50	0
	14-45	5.6-7.3	0.0-1.0	36-41	0
	45-53	7.4-8.4	0.0-0.5	25-30	5-30
	53-60	7.4-8.4	0.0-0.5	25-30	5-30

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Dickinson County, Iowa

Map symbol and soil name	Depth	Soil reaction	Organic matter	Cation-exchange capacity	Calcium carbonate
	In	pH	Pct	meq/100 g	Pct
1384C:					
COLLINWOOD VARIANT--------	0-14	5.6-7.3	3.0-4.0	41-50	0
	14-45	5.6-7.3	0.0-1.0	36-41	0
	45-53	7.4-8.4	0.0-0.5	25-30	5-30
	53-60	7.4-8.4	0.0-0.5	25-30	5-30
1458:					
MILLINGTON------	0-48	7.4-8.4	4.0-6.0	20-25	5-20
	48-60	7.4-8.4	0.1-2.0	11-25	10-30
1511:					
BLUE EARTH------	0-10	7.4-8.4	75-99	150-200	0
	10-24	7.4-8.4	10-25	36-44	5-40
	24-60	7.4-8.4	0.0-0.5	9.0-17	5-40
5010:					
PITS----------	---	---	---	---	---
5040:					
ORTHENTS--------	0-60	---	---	---	---
	60-80	---	---	---	---
W:					
WATER----------	---	---	---	---	---