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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
11B:													
Colo----------	60	0-38	Silty clay loam	CL, CH	A-7	0	0	100	100	90-100	90-100	40-60	15-30
		38-60	Silty clay loam, clay loam, silt loam	CL, CH	A-7	0	0	100	100	95-100	80-100	40-55	15-30
Ely----------	30	0-26	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	30-45	10-25
		26-60	Silty clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	95-100	35-50	10-25
41B:													
Sparta----------	100	0-16	Loamy fine sand	SM	A-2, A-4	0	0	85-100	85-100	50-95	15-50	0-14	NP
		16-60	Loamy fine sand, fine sand, sand	SM	A-2, A-4, A-3	0	0	85-100	85-100	50-95	5-50	0-14	NP
		60-64	Sand, fine sand	SM, SP-SM, SP	A-2, A-3	0	0	85-100	85-100	50-95	2-30	0-14	NP
41C:													
Sparta----------	100	0-16	Loamy fine sand	SM	A-4, A-2	0	0	85-100	85-100	50-95	15-50	0-14	NP
		16-60	Loamy fine sand, fine sand, sand	SM	A-3, A-2, A-4	0	0	85-100	85-100	50-95	5-50	0-14	NP
		60-64	Sand, fine sand	SM, SP-SM, SP	A-2, A-3	0	0	85-100	85-100	50-95	2-30	0-14	NP
41E:													
Sparta----------	100	0-16	Loamy fine sand	SM	A-2, A-4	0	0	85-100	85-100	50-95	15-50	0-14	NP
		16-60	Loamy fine sand, fine sand, sand	SM	A-2, A-4, A-3	0	0	85-100	85-100	50-95	5-50	0-14	NP
		60-64	Sand, fine sand	SP-SM, SM	A-3, A-2	0	0	85-100	85-100	50-95	2-30	0-14	NP
42:													
Granby----------	100	0-10	Fine sandy loam	SM	A-2	0	0	100	100	60-70	20-35	0-14	NP
		10-60	Sand, fine sand, loamy sand	SM, SP, SP-SM	A-2, A-3	0	0	100	95-100	50-75	0-20	0-14	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
51:													
Vesser----------	100	0-16	Silt loam	CL	A-6	0	0	100	100	98-100	95-100	30-40	10-20
		16-32	Silt loam	CL	A-6	0	0	100	100	98-100	95-100	30-40	10-20
		32-60	Silty clay loam	CL	A-7	0	0	100	100	98-100	95-100	40-50	15-25
54:													
Zook----------	100	0-17	Silty clay loam	CH, CL	A-7	0	0	100	100	95-100	95-100	45-65	20-35
		17-44	Silty clay, silty clay loam	CH	A-7	0	0	100	100	95-100	95-100	60-85	35-55
		44-60	Silty clay loam, silty clay, silt loam	CL, ML, CH, MH	A-7, A-6	0	0	100	100	95-100	95-100	35-80	10-50
63C:													
Chelsea---------	100	0-12	Loamy fine sand	SM	A-2-4	0	0	100	100	65-95	10-35	0-14	NP
		12-78	Fine sand, sand, loamy sand	SM, SP, SP-SM	A-3, A-2-4	0	0	100	100	65-95	3-15	0-14	NP
63E:													
Chelsea---------	100	0-12	Loamy fine sand	SM	A-2-4	0	0	100	100	65-95	10-35	0-14	NP
		12-78	Fine sand, sand, loamy sand	SP-SM, SM, SP	A-3, A-2-4	0	0	100	100	65-95	3-15	0-14	NP
63G:													
Chelsea---------	100	0-12	Loamy fine sand	SM	A-2-4	0	0	100	100	65-95	10-35	0-14	NP
		12-78	Fine sand, sand, loamy sand	SM, SP, SP-SM	A-2-4, A-3	0	0	100	100	65-95	3-15	0-14	NP
65E2:													
Lindley---------	95	0-6	Loam	CL	A-6	0	0	95-100	90-100	85-95	50-65	25-35	10-15
		6-40	Clay loam, loam	CL	A-7, A-6	0	0	95-100	90-100	85-95	55-75	30-45	12-20
		40-60	Loam, clay loam	CL	A-6	0	0	95-100	90-100	85-95	50-70	25-35	10-15

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
65E3:													
Lindley---------	95	0-6	Clay loam	CL	A-6	0	0	95-100	90-100	85-95	55-75	30-40	15-20
		6-40	Clay loam, loam	CL	A-7, A-6	0	0	95-100	90-100	85-95	55-75	30-45	12-20
		40-60	Loam, clay loam	CL	A-6	0	0	95-100	90-100	85-95	50-70	25-35	10-15
65F2:													
Lindley---------	100	0-6	Loam	CL	A-6	0	0	95-100	90-100	85-95	50-65	25-35	10-15
		6-40	Clay loam, loam	CL	A-7, A-6	0	0	95-100	90-100	85-95	55-75	30-45	12-20
		40-60	Loam, clay loam	CL	A-6	0	0	95-100	90-100	85-95	50-70	25-35	10-15
65F3:													
Lindley---------	100	0-6	Clay loam	CL	A-6	0	0	95-100	90-100	85-95	55-75	30-40	15-20
		6-40	Clay loam, loam	CL	A-7, A-6	0	0	95-100	90-100	85-95	55-75	30-45	12-20
		40-60	Loam, clay loam	CL	A-6	0	0	95-100	90-100	85-95	50-70	25-35	10-15
65G:													
Lindley---------	100	0-6	Loam	CL	A-6	0	0	95-100	90-100	85-95	50-65	25-35	10-15
		6-40	Clay loam, loam	CL	A-7, A-6	0	0	95-100	90-100	85-95	55-75	30-45	12-20
		40-60	Loam, clay loam	CL	A-6	0	0	95-100	90-100	85-95	50-70	25-35	10-15
65G3:													
Lindley---------	100	0-6	Clay loam	CL	A-6	0	0	95-100	90-100	85-95	55-75	30-40	15-20
		6-40	Clay loam, loam	CL	A-7, A-6	0	0	95-100	90-100	85-95	55-75	30-45	12-20
		40-60	Loam, clay loam	CL	A-6	0	0	95-100	90-100	85-95	50-70	25-35	10-15
83B:													
Kenyon----------	95	0-16	Loam	CL	A-6	0	0	100	95-100	85-95	65-75	30-40	10-20
		16-44	Loam, clay loam, sandy clay loam	CL	A-6	0	0-5	90-95	85-95	80-90	50-65	30-40	10-20
		44-60	Loam	CL	A-6	0	0-5	90-95	85-95	80-90	50-65	25-35	10-20
83C:													
Kenyon----------	95	0-16	Loam	CL	A-6	0	0	100	95-100	85-95	65-75	30-40	10-20
		16-44	Loam, clay loam, sandy clay loam	CL	A-6	0	0-5	90-95	85-95	80-90	50-65	30-40	10-20
		44-60	Loam	CL	A-6	0	0-5	90-95	85-95	80-90	50-65	25-35	10-20

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
83C2:													
Kenyon----------	95	0-16	Loam	CL	A-6	0	0	100	95-100	85-95	65-75	30-40	10-20
		16-44	Loam, clay loam, sandy clay loam	CL	A-6	0	0-5	90-95	85-95	80-90	50-65	30-40	10-20
		44-60	Loam	CL	A-6	0	0-5	90-95	85-95	80-90	50-65	25-35	10-20
84:													
Clyde----------	95	0-18	Silty clay loam	OL, OH, MH, ML	A-7	0	0-5	95-100	95-100	80-90	55-75	45-60	15-25
		18-43	Clay loam, loam, silty clay loam	ML, CL	A-6, A-7	0	0-5	95-100	90-95	75-90	50-75	30-50	10-20
		43-60	Loam, sandy clay loam	SC, CL	A-6	0-5	2-5	90-95	85-90	75-90	45-65	25-35	10-20
88:													
Nevin----------	95	0-24	Silty clay loam	OL, ML	A-6, A-7	0	0	100	100	100	90-95	35-45	10-20
		24-46	Silty clay loam	CL	A-7	0	0	100	100	95-100	90-95	40-50	20-30
		46-60	Silty clay loam, silt loam	CL	A-7	0	0	100	100	95-100	90-95	40-50	20-30
110C:													
Lamont----------	90	0-9	Fine sandy loam	SC-SM, SC	A-4, A-2	0	0	100	100	80-95	25-50	15-25	5-10
		9-13	Fine sandy loam, loamy fine sand	SM	A-4, A-2	0	0	100	100	80-95	15-50	15-25	NP-5
		13-30	Fine sandy loam, loam, sandy clay loam	SC-SM, SC	A-4, A-2	0	0	100	100	85-95	30-50	20-30	5-10
		30-60	Loamy fine sand, loamy sand, sand	SM	A-3, A-2	0	0	100	100	70-90	5-25	0-14	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
118:													
Garwin----------	100	0-18	Silty clay loam	CL, CH	A-7	0	0	100	100	100	95-100	45-55	20-30
		18-50	Silty clay loam	CH, CL	A-7	0	0	100	100	100	95-100	45-55	25-35
		50-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	15-20
119:													
Muscatine-------	90	0-19	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-40	5-15
		19-54	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	20-30
		54-60	Silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
120:													
Tama----------	90	0-19	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-40	5-15
		19-44	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	15-25
		44-60	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
120B:													
Tama----------	90	0-19	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-40	5-15
		19-44	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	15-25
		44-60	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
120C:													
Tama----------	100	0-19	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-40	5-15
		19-44	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	15-25
		44-60	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
120C2:													
Tama----------	100	0-7	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-40	5-15
		7-19	Silty clay loam	ML	A-7, A-6	0	0	100	100	100	95-100	35-50	10-20
		19-44	Silty clay loam	CL	A-6	0	0	100	100	100	95-100	40-50	15-25
		44-60	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
120D:													
Tama----------	100	0-19	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-40	5-15
		19-44	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	15-25
		44-60	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
120D2:													
Tama----------	100	0-7	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-40	5-15
		7-19	Silty clay loam	ML	A-7, A-6	0	0	100	100	100	95-100	35-50	10-20
		19-44	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	15-25
		44-60	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
133:													
Colo----------	95	0-38	Silty clay loam	CL, CH	A-7	0	0	100	100	90-100	90-100	40-60	15-30
		38-60	Silty clay loam, clay loam, silt loam	CH, CL	A-7	0	0	100	100	95-100	80-100	40-55	15-30
133+:													
Colo----------	95	0-18	Silt loam	CL, CL-ML	A-4	0	0	100	100	95-100	95-100	25-40	5-15
		18-38	Silty clay loam	CH, CL	A-7	0	0	100	100	90-100	90-100	40-55	20-30
		38-60	Silty clay loam, clay loam, silt loam	CH, CL	A-7	0	0	100	100	95-100	80-100	40-55	15-30

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
142:													
Chaseburg-------	90	0-60	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	85-100	15-26	3-7
142B:													
Chaseburg-------	95	0-60	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	85-100	15-26	3-7
143:													
Brady----------	90	0-12	Sandy loam	SM, SC-SM, ML	A-2, A-1, A-4	0	0-5	95-100	75-100	45-85	20-55	15-25	NP-7
		12-25	Sandy loam, sandy clay loam, gravelly sandy loam	SC, CL, ML, SM	A-1, A-4, A-2, A-6	0	0-5	85-100	60-100	35-90	20-55	15-35	NP-15
		25-42	Loamy sand, sandy loam	SM, SC-SM, SC, SP-SM	A-1, A-4, A-2	0	0-5	95-100	75-100	35-70	10-40	15-30	NP-10
		42-60	Gravelly sand, coarse sand, gravel	SP, GP, GP-GM, SP-SM	A-2-4, A-1, A-3	0	0-5	40-95	30-85	20-60	0-10	0-14	NP
152:													
Marshan---------	90	0-17	Clay loam	CL	A-6, A-7	0	0	95-100	95-100	95-100	80-95	35-50	15-25
		17-38	Loam, sandy loam	CL, CL-ML, SC-SM, SC	A-4, A-6	0	0	95-100	75-100	70-90	45-75	25-40	5-15
		38-60	Coarse sand, gravelly coarse sand, sand	SW, SP, SP-SM	A-1	---	0-3	65-95	45-95	20-45	2-5	0-14	NP
159:													
Finchford-------	100	0-31	Loamy sand	SM	A-3, A-2	0	0	85-95	70-90	50-60	5-15	0-14	NP
		31-60	Sand, loamy sand, gravelly sand	SC-SM	A-1	0	0	80-90	50-75	25-40	5-10	0-14	NP
159C:													
Finchford-------	100	0-31	Loamy sand	SM	A-3, A-2	0	0	85-95	70-90	50-60	5-15	0-14	NP
		31-60	Sand, loamy sand, gravelly sand	SC-SM	A-1-b	0	0	80-90	50-75	25-40	5-10	0-14	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
160:													
Walford---------	100	0-9	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-35	10-15
		9-19	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		19-54	Silty clay loam	CH, CL	A-7	0	0	100	100	100	95-100	45-55	20-30
		54-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	35-40	15-20
162B:													
Downs----------	100	0-12	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		12-43	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		43-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
162C:													
Downs----------	100	0-12	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-35	5-15
		12-43	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		43-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
162C2:													
Downs----------	100	0-12	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		12-43	Silty clay loam, silt loam	CL	A-6, A-8	0	0	100	100	100	95-100	35-45	15-25
		43-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
162D:													
Downs----------	95	0-12	Silt loam	CL-ML, CL	A-6, A-4	0	0	100	100	100	95-100	25-35	5-15
		12-43	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		43-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
162D2:													
Downs----------	95	0-12	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		12-43	Silty clay loam, silt loam	CL	A-6, A-8	0	0	100	100	100	95-100	35-45	15-25
		43-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
162E2:													
Downs----------	95	0-12	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-35	5-15
		12-43	Silty clay loam, silt loam	CL	A-8, A-6	0	0	100	100	100	95-100	35-45	15-25
		43-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
163B:													
Fayette---------	100	0-8	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		8-56	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		56-72	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
163C:													
Fayette---------	100	0-8	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-35	5-15
		8-56	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		56-72	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
163C2:													
Fayette---------	100	0-8	Silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	30-45	10-25
		8-56	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		56-72	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
163D2:													
Fayette---------	95	0-8	Silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	30-45	10-25
		8-56	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		56-72	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
163D3:													
Fayette---------	95	0-6	Silty clay loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		6-56	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		56-70	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
163E2:													
Fayette---------	100	0-8	Silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	30-45	10-25
		8-56	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		56-72	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
163E3:													
Fayette---------	95	0-6	Silty clay loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		6-56	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		56-70	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
163F2:													
Fayette---------	90	0-8	Silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	30-45	10-25
		8-56	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		56-72	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
163F3:													
Fayette---------	90	0-6	Silty clay loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		6-56	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		56-70	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
163G:													
Fayette---------	90	0-8	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-35	5-15
		8-56	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		56-72	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
163G3:													
Fayette---------	90	0-6	Silty clay loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		6-56	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		56-70	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
175:													
Dickinson-------	100	0-28	Fine sandy loam	SM, SC-SM, SC	A-4, A-2	0	0	100	100	85-95	30-50	15-30	NP-10
		28-35	Fine sandy loam, sandy loam	SM, SC-SM, SC	A-4	0	0	100	100	85-95	35-50	15-30	NP-10
		35-60	Sand, loamy fine sand, loamy sand	SM	A-2, A-3	0	0	100	100	70-90	5-20	---	NP
175B:													
Dickinson-------	95	0-28	Fine sandy loam	SC-SM, SC, SM	A-2, A-4	0	0	100	100	85-95	30-50	15-30	NP-10
		28-35	Fine sandy loam, sandy loam	SM, SC, SC-SM	A-4	0	0	100	100	85-95	35-50	15-30	NP-10
		35-60	Sand, loamy fine sand, loamy sand	SM	A-3, A-2	0	0	100	100	70-90	5-20	---	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
175C:													
Dickinson-------	95	0-28	Fine sandy loam	SM, SC-SM, SC	A-4, A-2	0	0	100	100	85-95	30-50	15-30	NP-10
		28-35	Fine sandy loam, sandy loam	SM, SC-SM, SC	A-4	0	0	100	100	85-95	35-50	15-30	NP-10
		35-60	Sand, loamy fine sand, loamy sand	SM	A-2, A-3	0	0	100	100	70-90	5-20	---	NP
175D:													
Dickinson-------	90	0-28	Fine sandy loam	SM, SC-SM, SC	A-2, A-4	0	0	100	100	85-95	30-50	15-30	NP-10
		28-35	Fine sandy loam, sandy loam	SM, SC-SM, SC	A-4	0	0	100	100	85-95	35-50	15-30	NP-10
		35-60	Sand, loamy fine sand, loamy sand	SM	A-3, A-2	0	0	100	100	70-90	5-20	---	NP
177:													
Saude----------	100	0-18	Loam	CL	A-6	0	0	100	90-100	70-90	50-75	25-35	10-15
		18-30	Loam, sandy loam, gravelly sandy loam	SC-SM, SC, CL, CL-ML	A-4, A-6	0	0-5	85-95	65-95	60-85	45-60	20-30	5-15
		30-60	Loamy sand, gravelly coarse sand, sand	SM	A-1	0	2-10	50-90	50-85	20-40	3-25	0-14	NP
177B:													
Saude----------	90	0-18	Loam	CL	A-6	0	0	100	90-100	70-90	50-75	25-35	10-15
		18-30	Loam, sandy loam, gravelly sandy loam	SC-SM, SC, CL, CL-ML	A-6, A-4	0	0-5	85-95	65-95	60-85	45-60	20-30	5-15
		30-60	Loamy sand, gravelly coarse sand, sand	SM	A-1	0	2-10	50-90	50-85	20-40	3-25	0-14	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
177C:													
Saude----------	100	0-18	Loam	CL	A-6	0	0	100	90-100	70-90	50-75	25-35	10-15
		18-30	Loam, sandy loam, gravelly sandy loam	CL-ML, SC-SM, SC, CL	A-4, A-6	0	0-5	85-95	65-95	60-85	45-60	20-30	5-15
		30-60	Loamy sand, gravelly coarse sand, sand	SM	A-1	0	2-10	50-90	50-85	20-40	3-25	0-14	NP
178:													
Waukee----------	90	0-19	Loam	CL	A-6	0	0	100	90-100	70-90	50-75	30-40	10-20
		19-37	Loam, sandy clay loam	SC-SM, CL-ML, SC, CL	A-4, A-6	0	0-5	85-95	80-95	65-85	40-60	20-35	5-15
		37-60	Gravelly sand, loamy coarse sand, sand	SP-SM, SW, SM	A-1	0-5	0-10	60-90	60-85	20-40	3-25	0-14	NP
178B:													
Waukee----------	90	0-19	Loam	CL	A-6	0	0	100	90-100	70-90	50-75	30-40	10-20
		19-37	Loam, sandy clay loam	SC-SM, SC, CL, CL-ML	A-6, A-4	0	0-5	85-95	80-95	65-85	40-60	20-35	5-15
		37-60	Gravelly sand, loamy coarse sand, sand	SW, SM, SP-SM	A-1	0-5	0-10	60-90	60-85	20-40	3-25	0-14	NP
179D2:													
Gara----------	95	0-7	Clay loam, loam	CL	A-6, A-7	0	0	90-95	85-95	70-85	55-75	35-45	15-25
		7-44	Clay loam, loam	CL	A-6	0	0-5	90-95	85-95	70-85	55-75	30-40	15-25
		44-60	Clay loam, loam	CL	A-6	0	0-5	90-95	85-95	70-85	55-75	30-40	15-25
184:													
Klinger---------	95	0-17	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
		17-31	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	20-30
		31-60	Loam, clay loam	CL	A-6	0	0-5	90-95	85-90	75-85	55-65	25-35	10-20

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
213B:													
Rockton---------	100	0-14	Loam	CL, CL-ML, ML	A-4	0	0	90-100	90-100	85-95	50-75	25-35	5-10
		14-34	Clay loam, loam, sandy clay loam	CL, SC	A-6, A-7	0	0	90-100	90-100	75-90	45-70	30-45	10-20
		34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
214B:													
Rockton---------	100	0-14	Loam	CL, ML, CL-ML	A-4	0	0	90-100	90-100	85-95	50-75	25-35	5-10
		14-25	Clay loam, loam, sandy clay loam	SC, CL	A-7, A-6	0	0	90-100	90-100	75-90	45-70	30-45	10-20
		25-29	Unweathered bedrock			---	---	---	---	---	---	---	---
214C:													
Rockton---------	100	0-14	Loam	CL-ML, CL, ML	A-4	0	0	90-100	90-100	85-95	50-75	25-35	5-10
		14-25	Clay loam, loam, sandy clay loam	CL, SC	A-6, A-7	0	0	90-100	90-100	75-90	45-70	30-45	10-20
		25-29	Unweathered bedrock			---	---	---	---	---	---	---	---
216B:													
Ripon----------	100	0-13	Silt loam	CL, ML, CL-ML	A-4	0	0	100	100	90-100	85-100	20-30	3-10
		13-30	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	90-100	85-100	30-45	10-25
		30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
216C:													
Ripon----------	100	0-13	Silt loam	ML, CL-ML, CL	A-4	0	0	100	100	90-100	85-100	20-30	3-10
		13-30	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	30-45	10-25
		30-34	Unweathered bedrock			---	---	---	---	---	---	---	---

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
217B:													
Ripon----------	100	0-18	Silt loam	CL, ML, CL-ML	A-4	0	0	100	100	90-100	85-100	20-30	3-10
		18-34	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	90-100	85-100	30-45	10-25
		34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
217C:													
Ripon----------	100	0-18	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	85-100	20-30	3-10
		18-34	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	30-45	10-25
		34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
221:													
Palms----------	100	0-39	Muck	GP	A-1-a	---	---	---	---	---	---	---	---
		39-60	Clay loam, silty clay loam, fine sandy loam	CL, CL-ML	A-4, A-6	0	0	85-100	80-100	70-95	50-90	25-40	5-20
226:													
Lawler----------	95	0-17	Loam	CL, ML	A-6, A-7	0	0	100	90-100	70-90	55-75	35-45	10-20
		17-35	Loam, sandy clay loam, clay loam	SC, CL	A-6	0	0-5	85-95	80-95	70-85	45-65	25-40	10-20
		35-60	Very gravelly loamy sand, gravelly coarse sand, gravelly loamy sand, loamy coarse sand	SP	A-1	0	2-10	50-90	50-85	20-40	3-10	0-14	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
249:													
Zwingle---------	100	0-10	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-35	5-15
		10-60	Silty clay, silty clay loam, clay	CH	A-7	0	0	100	100	100	95-100	55-70	30-40
249B:													
Zwingle---------	95	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		10-60	Silty clay, silty clay loam, clay	CH	A-7	0	0	100	100	100	95-100	55-70	30-40
284B:													
Flagler---------	100	0-19	Sandy loam	SC-SM, SC	A-4, A-2	0	0	95-100	90-95	60-70	25-40	15-25	5-10
		19-35	Sandy loam	SC-SM, SC	A-4, A-2	0	0	95-100	90-95	50-70	25-40	15-25	5-10
		35-60	Loamy sand, gravelly sand, sand	SP, SW-SM, SW, SP-SM	A-1	0	0-5	70-90	70-85	20-40	3-12	0-14	NP
284C:													
Flagler---------	100	0-19	Sandy loam	SC-SM, SC	A-2, A-4	0	0	95-100	90-95	60-70	25-40	15-25	5-10
		19-35	Sandy loam	SC, SC-SM	A-2, A-4	0	0	95-100	90-95	50-70	25-40	15-25	5-10
		35-60	Loamy sand, gravelly sand, sand	SW-SM, SW, SP, SP-SM	A-1	0	0-5	70-90	70-85	20-40	3-12	0-14	NP
285B:													
Burkhardt-------	100	0-14	Sandy loam	SM	A-4, A-2	0	0	95-100	90-100	55-70	25-40	15-26	2-7
		14-26	Sandy loam, loam	SM, SC, ML, CL	A-4, A-2	0	0	95-100	85-100	50-95	25-75	15-30	2-10
		26-60	Coarse sand, gravelly coarse sand	SP	A-1	0	0	50-85	45-85	20-35	1-5	0-14	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
285D:													
Burkhardt-------	100	0-14	Sandy loam	SM	A-2, A-4	0	0	95-100	90-100	55-70	25-40	15-26	2-7
		14-26	Sandy loam, loam	SM, SC, CL, ML	A-2, A-4	0	0	95-100	85-100	50-95	25-75	15-30	2-10
		26-60	Coarse sand, gravelly coarse sand	SP	A-1	0	0	50-85	45-85	20-35	1-5	0-14	NP
285F2:													
Burkhardt-------	100	0-14	Sandy loam	SM	A-4, A-2	0	0	95-100	90-100	55-70	25-40	15-26	2-7
		14-26	Sandy loam, loam	SC, CL, SM, ML	A-4, A-2	0	0	95-100	85-100	50-95	25-75	15-30	2-10
		26-60	Coarse sand, gravelly coarse sand	SP	A-1	0	0	50-85	45-85	20-35	1-5	0-14	NP
291:													
Atterberry------	95	0-9	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	95-100	95-100	25-40	5-15
		9-17	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	95-100	25-35	5-15
		17-44	Silt loam, silty clay loam	CH, CL	A-6, A-7	0	0	100	100	95-100	95-100	35-55	15-30
		44-60	Silt loam, loam	CL	A-6	0	0	100	100	95-100	95-100	30-40	10-20
293E:													
Chelsea---------	30	0-6	Loamy fine sand	SM	A-2-4	0	0	100	100	65-95	10-35	0-14	NP
		6-60	Fine sand, sand, loamy sand	SP, SM	A-2-4, A-3	0	0	100	100	65-95	3-15	0-14	NP
Fayette---------	30	0-8	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		8-56	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		56-72	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
Lamont----------	30	0-9	Fine sandy loam	SC, SC-SM	A-2, A-4	0	0	100	100	80-95	25-50	15-25	5-10
		9-13	Fine sandy loam, loamy fine sand	SM, SC-SM	A-2, A-4	0	0	100	100	80-95	15-50	15-25	NP-5
		13-30	Fine sandy loam, loam, sandy clay loam	SC-SM, SC	A-2, A-4	0	0	100	100	85-95	30-50	20-30	5-10
		30-60	Loamy fine sand, loamy sand, sand	SM	A-2, A-3	0	0	100	100	70-90	5-25	0-14	NP
315:													
Fluvents--------	50	---	---	---	---	---	---	---	---	---	---	---	---
Ambraw----------	30	0-8	Silty clay loam	CL	A-7, A-6	0	0	100	100	85-95	70-95	30-45	10-20
		8-22	Clay loam, clay, silty clay loam	CH, CL	A-7, A-6	0	0	100	100	80-90	60-80	35-55	15-30
		22-47	Clay loam, sandy clay loam	CL	A-7, A-6	0	0	100	90-100	85-95	50-85	30-50	10-25
		47-64	Sandy loam, silty clay loam	SM, ML, SC, CL	A-6, A-4	0	0	100	90-100	80-90	40-80	20-40	NP-17
350:													
Waukegan--------	95	0-15	Silt loam	ML	A-4	0	0	95-100	95-100	95-100	85-95	25-40	3-10
		15-35	Silt loam, loam	CL-ML, CL	A-4, A-6	0	0	95-100	95-100	95-100	85-95	25-40	5-15
		35-60	Very gravelly loamy sand, gravelly coarse sand, gravelly sand	SW, SP, SP-SM	A-1	---	0-2	80-95	65-85	30-50	3-10	0-14	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
350B:													
Waukegan--------	95	0-15	Silt loam	ML	A-4	0	0	95-100	95-100	95-100	85-95	25-40	3-10
		15-35	Silt loam, loam	CL, CL-ML	A-6, A-4	0	0	95-100	95-100	95-100	85-95	25-40	5-15
		35-60	Very gravelly loamy sand, gravelly coarse sand, gravelly sand	SW, SP, SP-SM	A-1	---	0-2	80-95	65-85	30-50	3-10	0-14	NP
350C:													
Waukegan--------	95	0-15	Silt loam	ML	A-4	0	0	95-100	95-100	95-100	85-95	25-40	3-10
		15-35	Silt loam, loam	CL, CL-ML	A-4, A-6	0	0	95-100	95-100	95-100	85-95	25-40	5-15
		35-60	Very gravelly loamy sand, gravelly coarse sand, gravelly sand	SW, SP, SP-SM	A-1	---	0-2	80-95	65-85	30-50	3-10	0-14	NP
351:													
Atterberry------	95	0-16	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-40	5-15
		16-46	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	20-30
		46-50	Sandy loam	SC, SC-SM	A-4	0	0	100	95-100	80-90	35-50	20-30	5-10
		50-60	Loamy sand, sand	SM	A-3, A-2	0	0	100	95-100	80-90	5-20	15-20	NP-5
352B:													
Whittier--------	100	0-13	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	85-95	25-35	5-15
		13-31	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	90-95	35-45	15-25
		31-60	Loamy fine sand, fine sand, loamy sand	SM	A-2, A-3	0	0	100	95-100	80-90	5-20	15-20	NP-5

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
353:													
Tell----------	100	0-11	Silt loam	CL	A-4	0	0	100	100	90-100	85-95	25-30	7-10
		11-39	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	85-95	30-40	10-16
		39-60	Sand, loamy sand	SM, SP-SM, SP	A-1, A-3, A-2	0	0	100	90-100	45-75	0-30	0-14	NP
353B:													
Tell----------	100	0-11	Silt loam	CL	A-4	0	0	100	100	90-100	85-95	25-30	7-10
		11-30	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	85-95	30-40	10-16
		30-39	Loam, sandy loam, sandy clay loam	SC-SM, CL-ML, SC, CL	A-4, A-2, A-6	0	0	100	90-100	55-95	25-75	20-35	4-14
		39-60	Sand, loamy sand	SP, SP-SM, SM	A-1, A-3, A-2	0	0	100	90-100	45-75	0-30	0-14	NP
353C:													
Tell----------	100	0-11	Silt loam	CL	A-4	0	0	100	100	90-100	85-95	25-30	7-10
		11-39	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	85-95	30-40	10-16
		39-60	Sand, loamy sand	SP, SM, SP-SM	A-2, A-1, A-3	0	0	100	90-100	45-75	0-30	0-14	NP
354:													
Aquolls---------	95	0-40	Variable			---	---	---	---	---	---	---	---
373E2:													
Timula----------	100	0-6	Silt loam	ML	A-4	0	0	100	100	95-100	85-100	25-35	NP-10
		6-60	Silt loam, silt	ML	A-4	0	0	100	100	95-100	85-100	25-35	NP-10

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Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
377B:													
Dinsdale--------	90	0-18	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
		18-35	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	15-25
		35-60	Loam, clay loam, sandy clay loam	CL	A-6	0	0-5	90-95	85-90	75-85	55-65	25-35	10-20
377C:													
Dinsdale--------	90	0-18	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
		18-35	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	15-25
		35-60	Loam, clay loam, sandy clay loam	CL	A-6	0	0-5	90-95	85-90	75-85	55-65	25-35	10-20
382:													
Maxfield--------	85	0-19	Silty clay loam	CH, CL	A-7	0	0	100	100	100	95-100	45-55	20-30
		19-36	Silty clay loam, silt loam	CH, CL	A-7	0	0	100	100	100	95-100	45-55	25-35
		36-60	Loam	CL	A-6	0	0-5	90-95	85-90	75-85	55-65	25-35	10-20
399:													
Readlyn---------	95	0-14	Loam	CL	A-6	0	0	100	100	85-95	55-75	30-40	15-25
		14-47	Loam, clay loam, sandy clay loam	CL, SC	A-6	0	2-5	90-95	85-90	75-85	45-65	30-40	10-20
		47-60	Loam, sandy clay loam	SC, CL	A-6	0	2-5	90-95	85-90	75-85	45-65	25-35	10-20

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Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
404:													
Thorp----------	100	0-10	Silt loam	CL	A-4, A-6	0	0	95-100	95-100	90-100	75-95	20-40	8-19
		10-22	Silt loam	CL	A-4, A-6	0	0	95-100	95-100	90-100	75-95	25-35	7-15
		22-41	Silty clay loam, silt loam	CL	A-7, A-6	0	0	95-100	95-100	90-100	75-95	35-50	13-27
		41-46	Silt loam, clay loam, sandy clay loam	CL	A-4, A-7, A-6	0	0	90-100	90-100	90-100	70-90	20-50	8-26
		46-60	Sandy loam, sand	SM, SC-SM, CL-ML, ML	A-4, A-2	0	0	85-100	75-95	65-85	20-60	15-20	NP-6
407B:													
Schley----------	95	0-14	Loam	CL, CL-ML	A-6, A-4	0	0	100	95-100	80-90	55-75	25-40	5-15
		14-44	Loam, sandy loam, silty clay loam	SC-SM, SC, CL-ML, CL	A-4, A-2	0	2-8	92-100	90-95	50-70	20-60	20-30	5-10
		44-67	Loam, sandy clay loam, clay loam	CL	A-6	0	2-5	90-95	85-95	70-85	50-65	25-40	10-20
408B:													
Olin----------	100	0-25	Fine sandy loam	SC, SC-SM	A-4, A-2	0	0	100	95-100	85-95	30-50	20-30	5-10
		25-34	Loam, clay loam, sandy clay loam	SC, CL	A-6	0	2-5	90-95	85-95	80-90	45-65	25-35	10-20
		34-60	Loam, clay loam	CL	A-6	0	2-5	90-95	85-95	80-90	50-65	25-35	10-20
409B:													
Dickinson-------	100	0-19	Fine sandy loam	SM, SC-SM, SC	A-4, A-2	0	0	100	100	80-95	30-50	15-30	NP-10
		19-45	Fine sandy loam, sandy loam, loamy sand	SP, SM, SC-SM	A-3, A-2	0	0	100	100	80-95	3-20	10-20	NP-5
		45-60	Loam	CL	A-6	0	2-5	90-95	85-95	80-90	55-65	25-35	11-20

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
412D:													
Sogn----------	100	0-11	Clay loam	CL	A-6, A-7-6	0	0-10	85-100	85-100	80-100	65-80	35-45	15-20
		11-13	Loam	CL	A-6	---	0-10	85-100	85-100	85-100	70-100	25-40	11-23
		13-17	Unweathered bedrock			---	---	---	---	---	---	---	---
420:													
Tama----------	95	0-19	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-40	5-15
		19-44	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	15-25
		44-60	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
420B:													
Tama----------	100	0-19	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-40	5-15
		19-44	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	15-25
		44-60	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
426B:													
Aredale---------	100	0-17	Loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-95	55-75	25-35	5-15
		17-42	Loam, clay loam	SC, CL	A-6	0	0-5	100	100	80-90	45-70	30-40	10-20
		42-60	Loam	CL	A-6	0	2-5	90-95	85-95	80-90	50-65	25-35	11-20
428B:													
Ely----------	95	0-26	Silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	30-45	10-25
		26-60	Silty clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	95-100	35-50	10-25
		60-64	Silt loam, silty clay loam, loam	CL	A-6	0	0	100	100	90-100	85-100	25-40	10-20
462:													
Downs----------	95	0-12	Silt loam	CL-ML, CL	A-6, A-4	0	0	100	100	100	95-100	25-35	5-15
		12-43	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		43-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
462B:													
Downs----------	100	0-12	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-35	5-15
		12-43	Silty clay loam, silt loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-45	15-25
		43-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
462C:													
Downs----------	95	0-12	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		12-43	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		43-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
463B:													
Fayette---------	100	0-8	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		8-56	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
		56-72	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	10-20
478G:													
Nordness--------	45	0-12	Silt loam	CL, CL-ML	A-4	0	0	100	100	90-100	70-90	20-30	5-10
		12-15	Silt loam, silty clay loam, loam	CL	A-6, A-7	0	0	100	100	90-100	70-90	30-45	15-25
		15-19	Silty clay loam, clay loam, loam	CL	A-6, A-7	0	2-10	85-95	80-90	70-85	65-85	30-45	15-25
		19-60	Unweathered bedrock, weathered bedrock			---	---	---	---	---	---	---	---
Rock Outcrop----	45	---	---	---	---	---	---	---	---	---	---	---	---

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Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
499D:													
Nordness--------	100	0-12	Silt loam	CL, CL-ML	A-4	0	0	100	100	90-100	70-90	20-30	5-10
		12-15	Silt loam, silty clay loam, loam	CL	A-7, A-6	0	0	100	100	90-100	70-90	30-45	15-25
		15-19	Silty clay loam, clay loam, loam	CL	A-7, A-6	0	2-10	85-95	80-90	70-85	65-85	30-45	15-25
		19-60	Unweathered bedrock, weathered bedrock			---	---	---	---	---	---	---	---
499F:													
Nordness--------	100	0-12	Silt loam	CL-ML, CL	A-4	0	0	100	100	90-100	70-90	20-30	5-10
		12-15	Silt loam, silty clay loam, loam	CL	A-7, A-6	0	0	100	100	90-100	70-90	30-45	15-25
		15-19	Silty clay loam, clay loam, loam	CL	A-6, A-7	0	2-10	85-95	80-90	70-85	65-85	30-45	15-25
		19-60	Unweathered bedrock, weathered bedrock			---	---	---	---	---	---	---	---
591B:													
Clyde----------	55	0-18	Silty clay loam	OH, MH, OL, ML	A-7	0	0-5	95-100	95-100	80-90	55-75	45-60	15-25
		18-43	Clay loam, loam, silty clay loam	CL, ML	A-7, A-6	0	0-5	95-100	90-95	75-90	50-75	30-50	10-20
		43-60	Loam, sandy clay loam	SC, CL	A-6	0-5	2-5	90-95	85-90	75-90	45-65	25-35	10-20

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Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
Schley----------	35	0-14	Loam	CL, CL-ML	A-4, A-6	0	0	100	95-100	80-90	55-75	25-40	5-15
		14-44	Loam, sandy loam, silty clay loam	CL, SC-SM, SC, CL-ML	A-2, A-4	0	2-8	90-95	90-95	50-70	20-60	20-30	5-10
		44-67	Loam, sandy clay loam, clay loam	CL	A-6	0	2-5	90-95	85-95	70-85	50-65	25-40	10-20
662C2:													
Mt. Carroll-----	100	0-8	Silt loam	CL	A-4, A-6	0	0	100	100	100	95-100	25-36	7-18
		8-55	Silt loam	CL	A-4, A-6	0	0	100	100	100	95-100	27-40	8-20
		55-60	Silt loam	CL	A-4, A-6	0	0	100	100	100	90-100	26-37	7-17
662D2:													
Mt. Carroll-----	100	0-8	Silt loam	CL	A-4, A-6	0	0	100	100	100	95-100	25-36	7-18
		8-55	Silt loam	CL	A-4, A-6	0	0	100	100	100	95-100	27-40	8-20
		55-60	Silt loam	CL	A-4, A-6	0	0	100	100	100	90-100	26-37	7-17
662E2:													
Mt. Carroll-----	100	0-8	Silt loam	CL	A-4, A-6	0	0	100	100	100	95-100	25-36	7-18
		8-55	Silt loam	CL	A-4, A-6	0	0	100	100	100	95-100	27-40	8-20
		55-60	Silt loam	CL	A-4, A-6	0	0	100	100	100	90-100	26-37	7-17
688:													
Koszta----------	95	0-14	Silt loam	CL	A-6	0	0	100	100	95-100	95-100	30-40	10-20
		14-60	Silty clay loam	CL	A-7	0	0	100	100	95-100	95-100	40-50	20-30
727:													
Udolpho---------	95	0-15	Loam	ML, CL	A-7, A-6	0	0	100	100	90-100	70-95	30-50	10-20
		15-36	Loam, sandy clay loam, clay loam	ML, CL	A-7, A-6	---	0-2	95-100	85-100	80-95	60-85	30-50	10-20
		36-60	Coarse sand, sand, gravelly coarse sand	SP, GP, GP-GM, SP-SM	A-1	---	0-3	45-90	35-85	20-45	0-10	0-14	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
728:													
Udolpho---------	95	0-15	Loam	CL, ML	A-6, A-7	0	0	100	100	90-100	70-95	30-50	10-20
		15-30	Loam, sandy clay loam, clay loam	CL, ML	A-6, A-7	---	0-2	95-100	85-100	80-95	60-85	30-50	10-20
		30-60	Coarse sand, sand, gravelly coarse sand	SP, GP-GM, GP, SP-SM	A-1	---	0-3	45-90	35-85	20-45	0-10	0-14	NP
733:													
Calco----------	90	0-19	Silty clay loam	CL, CH	A-7	0	0	100	100	95-100	85-100	40-60	15-30
		19-44	Silty clay loam	CH, CL	A-7	0	0	100	100	95-100	85-100	40-60	15-30
		44-60	Silty clay loam, loam, clay loam	CL	A-7, A-6	0	0	100	100	90-100	80-100	30-45	10-20
760:													
Ansgar----------	95	0-16	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		16-39	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	20-30
		39-60	Loam, sandy clay loam, clay loam	SC, CL	A-6	0	2-5	90-95	85-95	75-85	45-65	25-35	10-20
777B:													
Wapsie----------	95	0-18	Loam	ML, CL, CL-ML	A-4	0	0	100	90-100	70-90	50-75	25-35	5-10
		18-29	Loam, sandy loam, sandy clay loam	SC-SM, CL, SC, CL-ML	A-4, A-6	0	0	85-95	80-95	70-85	40-60	20-35	5-15
		29-60	Gravelly loamy sand, gravelly sand, sand	SM, SW, SP, SP-SM	A-1	0	0	60-90	60-85	20-40	3-25	0-14	NP

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Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
777C:													
Wapsie----------	95	0-18	Loam	CL, CL-ML, ML	A-4	0	0	100	90-100	70-90	50-75	25-35	5-10
		18-29	Loam, sandy loam, sandy clay loam	SC, SC-SM, CL, CL-ML	A-4, A-6	0	0	85-95	80-95	70-85	40-60	20-35	5-15
		29-60	Gravelly loamy sand, gravelly sand, sand	SM, SW, SP, SP-SM	A-1	0	0	60-90	60-85	20-40	3-25	0-14	NP
809B:													
Bertram---------	100	0-33	Sandy loam	SC, SM, SC-SM	A-4, A-2	0	0	100	95-100	85-95	30-50	25-35	5-10
		33-37	Unweathered bedrock			---	---	---	---	---	---	---	---
918:													
Garwin----------	100	0-15	Silty clay loam	CH, CL	A-7	0	0	100	100	100	95-100	40-55	20-30
		15-42	Silty clay loam	CH, CL	A-7	0	0	100	100	100	95-100	45-55	25-35
		42-46	Sandy loam, loam	SC-SM, SC	A-4	0	0	100	95-100	80-90	35-50	20-30	5-10
		46-60	Loamy sand, sand	SM, SC-SM	A-2, A-3	0	0	100	95-100	80-90	5-20	15-20	NP-5
919:													
Muscatine-------	95	0-21	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-40	5-15
		21-47	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	20-30
		47-55	Sandy loam, loam	SC, SC-SM	A-4	0	0	100	95-100	80-90	35-50	20-30	5-10
		55-60	Loamy sand, sand	SM, SC-SM	A-2, A-3	0	0	100	95-100	80-90	5-20	15-20	NP-5

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
920:													
Tama----------	100	0-22	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	100	95-100	25-40	5-15
		22-41	Silt loam, silty clay loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-50	15-25
		41-45	Sandy loam, loam	SC-SM, SC	A-4	0	0	100	95-100	80-90	35-50	20-30	5-10
		45-60	Loamy fine sand, loamy sand, fine sand	SC-SM, SM	A-2, A-3	0	0	100	95-100	80-90	5-20	15-20	NP-5
920B:													
Tama----------	100	0-22	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-40	5-15
		22-41	Silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-50	15-25
		41-45	Sandy loam, loam	SC-SM, SC	A-4	0	0	100	95-100	80-90	35-50	20-30	5-10
		45-60	Loamy fine sand, loamy sand, fine sand	SC-SM, SM	A-3, A-2	0	0	100	95-100	80-90	5-20	15-20	NP-5
923:													
Coyne----------	100	0-21	Fine sandy loam	SM, SC-SM, SC	A-4, A-2, A-6	0	0	100	95-100	60-70	20-50	20-35	3-15
		21-32	Fine sandy loam, loam	SC, SM, SC-SM	A-2, A-6, A-4	0	0	100	95-100	60-70	20-50	20-35	3-15
		32-55	Silty clay loam, loam, silt loam	CL	A-7, A-6	0	0	100	100	85-100	80-95	30-45	11-25
		55-60	Gravelly sand, sand	SM, SP, SP-SM	A-1	0	0	70-90	60-80	20-45	0-15	15-15	NP-3

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas-ticity index
		In				Pct	Pct					Pct	
933:													
Sawmill---------	95	0-50	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	85-100	30-50	15-30
		50-60	Silty clay loam, clay loam, silt loam	CL	A-4, A-7, A-6	0	0	100	100	75-100	65-95	20-50	8-30
949:													
Zwingle Variant-	100	0-7	Silty clay	CH	A-7	0	0	100	100	100	95-100	55-70	30-40
		7-60	Clay, silty clay	CH	A-7	0	0	100	100	100	95-100	60-85	40-60
951F:													
Medary----------	100	0-8	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		8-38	Silty clay loam, silty clay, clay	CH	A-7	0	0	100	100	100	95-100	55-70	30-40
		38-60	Stratified fine sand to silt loam	SC, CL, CL-ML, SC-SM	A-4	0	0	100	90-95	60-95	40-80	20-30	5-10
953:													
Darwin Variant--	100	0-9	Silty clay	CH	A-7	0	0	100	100	100	95-100	60-85	35-55
		9-20	Silty clay, clay	CH	A-7	0	0	100	100	100	95-100	60-85	35-55
		20-24	Unweathered bedrock			---	---	---	---	---	---	---	---
960:													
Shaffton--------	95	0-13	Loam	CL	A-6	0	0	100	100	85-95	60-70	30-40	11-20
		13-36	Loam	CL, CL-ML	A-6, A-4	0	0	100	100	85-95	55-65	25-35	5-15
		36-39	Loamy sand, sandy loam	SC-SM, SP-SM, SM	A-2	0	0	100	100	50-75	10-30	15-15	NP-5
		39-45	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	35-45	15-25
		45-60	Coarse sand, fine sand, sand	SP, SW-SM, SW, SP-SM	A-1	0	0	90-100	90-95	20-35	3-5	0-14	NP

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas-ticity index
		In				Pct	Pct					Pct	
961:													
Ambraw----------	95	0-8	Silty clay loam	CL	A-7, A-6	0	0	100	100	85-95	70-95	30-45	10-20
		8-22	Clay loam, clay, silty clay loam	CH, CL	A-7, A-6	0	0	100	100	80-90	60-80	35-55	15-30
		22-47	Clay loam, sandy clay loam	CL	A-7, A-6	0	0	100	90-100	85-95	50-85	30-50	10-25
		47-64	Stratified sandy loam to silty clay loam	SM, CL, ML, SC	A-6, A-4	0	0	100	90-100	80-90	40-80	20-40	NP-17
962:													
Elvira----------	90	0-15	Silty clay loam	CH, CL	A-7	0	0	95-100	90-95	90-95	85-95	45-55	20-30
		15-48	Silty clay loam, clay loam	CL	A-7	0	0	95-100	90-95	85-95	80-90	40-50	15-25
		48-60	Stratified loamy sand to clay loam	SM, SC-SM, SC	A-2, A-6, A-4	0	0	95-100	85-95	60-70	30-40	10-40	NP-20
963:													
Elvers----------	95	0-35	Silt loam	CL, ML, CL-ML	A-4	0	0	100	100	90-100	85-100	20-28	3-9
		35-60	Muck	PT	A-1	0	0	---	---	---	---	---	---
976:													
Raddle----------	100	0-19	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	95-100	85-100	25-40	4-15
		19-60	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	80-100	20-35	4-15
1118:													
Garwin----------	95	0-18	Silty clay loam	CH, CL	A-7	0	0	100	100	100	95-100	45-55	20-30
		18-50	Silty clay loam	CL, CH	A-7	0	0	100	100	100	95-100	45-55	25-35
		50-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-40	15-20

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
		In				Pct	Pct					Pct	
1119:													
Muscatine-------	95	0-19	Silt loam	CL-ML, CL	A-6, A-4	0	0	100	100	100	95-100	25-40	5-15
		19-54	Silty clay loam	CL	A-7	0	0	100	100	100	95-100	40-50	20-30
		54-60	Silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	100	95-100	35-45	15-25
1142:													
Chaseburg-------	90	0-60	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	85-100	15-26	3-7
1160:													
Walford---------	100	0-9	Silt loam	CL	A-6	0	0	100	100	100	95-100	30-35	10-15
		9-19	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	100	95-100	25-35	5-15
		19-54	Silty clay loam	CH, CL	A-7	0	0	100	100	100	95-100	45-55	20-30
		54-60	Silt loam	CL	A-6	0	0	100	100	100	95-100	35-40	15-20
1291:													
Atterberry------	95	0-9	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	100	95-100	95-100	25-40	5-15
		9-17	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	95-100	95-100	25-35	5-15
		17-44	Silt loam, silty clay loam	CH, CL	A-6, A-7	0	0	100	100	95-100	95-100	35-55	15-30
		44-60	Silt loam, loam	CL	A-6	0	0	100	100	95-100	95-100	30-40	10-20
1777:													
Wapsie Variant--	90	0-9	Loam	CL, CL-ML, ML	A-4	0	0	100	95-100	70-90	50-75	25-35	5-10
		9-21	Loam, sandy loam	CL, SC-SM, SC, CL-ML	A-4	0	0	100	95-100	75-85	40-60	20-30	5-10
		21-60	Sand	SP, SP-SM, SM	A-3, A-2	0	0	100	80-95	50-70	3-15	0-14	NP
1954:													
Darwin----------	97	0-12	Silty clay	CH, CL	A-7	0	0	100	100	100	90-100	45-85	25-55
		12-36	Silty clay, clay	CH, CL	A-7	0	0	100	100	100	85-100	45-85	25-55
		36-48	Silty clay loam, silty clay	CL, CH	A-7, A-6	0	0	100	100	95-100	90-100	35-70	20-45
		48-60	Unweathered bedrock			---	---	---	---	---	---	---	---

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

Clinton County, Iowa

Map symbol and component name	Component percent	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas-ticity index
				Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
		In				Pct	Pct					Pct	
5010:													
Pits----------	100	---	---	---	---	---	---	---	---	---	---	---	---
5030:													
Pits----------	100	---	---	---	---	---	---	---	---	---	---	---	---
5040:													
Orthents--------	100	---	---	---	---	---	---	---	---	---	---	---	---