

Soil Features

(See text for definitions of terms used in this table. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

Poweshiek County, Iowa

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
5: ACKMORE-----	---	> 80	---	---	---	---	High-----	High-----	Low.
COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
7: WIOTA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
8B: JUDSON-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
8C: JUDSON-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
11B: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
ELY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
20C: KILLDUFF-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
20C2: KILLDUFF-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
20D2: KILLDUFF-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
24D2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
24E: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
24E2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.

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		In	In		In	In			
24F: SHELBY-----	---	> 80	---	---	---	---	Moderate---	Moderate---	Moderate.
41C: SPARTA-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
41D: SPARTA-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
43: BREMER-----	---	> 80	---	---	---	---	High-----	Moderate---	Moderate.
51: VESSER-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
54: ZOOK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
65D: LINDLEY-----	---	> 80	---	---	---	---	Moderate---	Moderate---	Moderate.
65E: LINDLEY-----	---	> 80	---	---	---	---	Moderate---	Moderate---	Moderate.
65E3: LINDLEY-----	---	> 80	---	---	---	---	Moderate---	Moderate---	Moderate.
65F: LINDLEY-----	---	> 80	---	---	---	---	Moderate---	Moderate---	Moderate.
65F3: LINDLEY-----	---	> 80	---	---	---	---	Moderate---	Moderate---	Moderate.
65G: LINDLEY-----	---	> 80	---	---	---	---	Moderate---	Moderate---	Moderate.
75: GIVIN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
76B: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
76C: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
76C2: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
76D: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
76D2: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
80C: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
80C2: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
80D: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
80D2: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
80E2: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
88: NEVIN-----	---	> 80	---	---	---	---	High-----	High-----	Low.
93D2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
ADAIR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
93E2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
ADAIR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
118: GARWIN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
119: MUSCATINE-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
120: TAMA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
120B: TAMA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
120C: TAMA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
120C2: TAMA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
120D2: TAMA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
122: SPERRY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
133: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
133+: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
162B: DOWNS-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
162C2: DOWNS-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
162D: DOWNS-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
162D2: DOWNS-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
163C: FAYETTE-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
163C2: FAYETTE-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
163D2: FAYETTE-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
163E2: FAYETTE-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
179D: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
179D2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
179E: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
179E2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
179F: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
192D2: ADAIR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
220: NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
222C: CLARINDA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
222C2: CLARINDA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
222D2: CLARINDA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
273B: OLMITZ-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
273C: OLMITZ-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
279: TAINTOR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
280: MAHASKA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
281B: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
281C: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
281C2: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
281D2: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
291: ATTERBERRY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
293D2: CHELSEA-----	---	> 80	---	---	---	---	Low-----	Low-----	Low.
LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
293E2: CHELSEA-----	---	> 80	---	---	---	---	Low-----	Low-----	Low.
LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
293F: CHELSEA-----	---	> 80	---	---	---	---	Low-----	Low-----	Low.
LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
377C2: DINSDALE-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
377D2: DINSDALE-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
422: AMANA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
424D2: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
KESWICK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
425D2: KESWICK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
428B: ELY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
430: ACKMORE-----	---	> 80	---	---	---	---	High-----	High-----	Low.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
442E2: DOWNS-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
CHELSEA-----	---	> 80	---	---	---	---	Low-----	Low-----	Low.
451D2: CALEB-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
453: TUSKEEGO-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
462B: DOWNS-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
462C2: DOWNS-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
484: LAWSON-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
488C2: DOWNS VARIANT-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
488D2: DOWNS VARIANT-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
570C2: NIRA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
570D2: NIRA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
571C2: HEDRICK-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
571D2: HEDRICK-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
592D2: MYSTIC-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
683D2: LISCOMB-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
687: WATKINS-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
688: KOSZTA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
792D2: ARMSTRONG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
822D2: LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
822E2: LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
876B: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
876C2: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
881B: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
881C2: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
993D2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
ARMSTRONG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
993E2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
ARMSTRONG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
1220: NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
ACKMORE-----	---	> 80	---	---	---	---	High-----	High-----	Low.
5030: QUARRY-----	Bedrock (lithic)	0- 4	---	---	---	---	---	---	---
5040: ORTHENTS-----	---	---	---	---	---	---	None-----	---	---
W: WATER-----	---	---	---	---	---	---	---	---	---