

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.)

Wapello 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		
7: WIOTA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
11B: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
ELY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
13B: HUMESTON-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
VESSER-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
23C: ARISPE-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
23C2: ARISPE-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
41B: SPARTA-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
41C: SPARTA-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
41E: SPARTA-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
51: VESSER-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
54: ZOOK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
56B: CANTRIL-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In			In	In	In		
58D2: DOUDS-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
58E: DOUDS-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
58E2: DOUDS-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
58G: DOUDS-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
65E: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
65E2: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
65F: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
65G: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
75B: GIVIN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
76B: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
76C: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
80B: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
80C: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In			In	In			
80C2: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
80D2: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
88: NEVIN-----	---	> 80	---	---	---	---	High-----	High-----	Low.
93D2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
ADAIR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
122: SPERRY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
130: BELINDA-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
131B: PERSHING-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
131C: PERSHING-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
132B: WELLER-----	---	> 80	---	---	---	---	High-----	High-----	High.
132C: WELLER-----	---	> 80	---	---	---	---	High-----	High-----	High.
133: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
133+: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top In	Thickness In	Hardness	Initial In	Total In		Uncoated steel	Concrete
173: HOOPESTON-----	---	> 80	---	---	---	---	High-----	Low-----	Moderate.
178: WAUKEE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
179E: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
179E2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
179F: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
192C2: ADAIR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
192D: ADAIR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
192D2: ADAIR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
208: LANDES-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
211: EDINA-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
220: NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
222C: CLARINDA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
222C2: CLARINDA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
223C2: RINDA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
223D2: RINDA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
230C: ARISPE-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
CLEARFIELD-----	---	> 80	---	---	---	---	High-----	High-----	Low.
260: BECKWITH-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
269: HUMESTON-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
276C2: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
HEDRICK-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
279: TAINTOR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
280: MAHASKA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
280B: MAHASKA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
281B: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
281C: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.

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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			
313E: GOSPORT-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	High-----	High.
313E2: GOSPORT-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	High-----	High.
313F: GOSPORT-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	High-----	High.
315: LANDES-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
PERKS-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
362: HAIG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
363: HAIG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
364B: GRUNDY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
380B: MAHASKA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
424D2: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
KESWICK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
424E: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
KESWICK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
424E2: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
KESWICK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
425D: KESWICK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
425D2: KESWICK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
451D2: CALEB-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
453: TUSKEEGO-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
478G: GOSPORT-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	High-----	High.
ROCK OUTCROP-----	---	---	---	---	---	---	---	---	---
520: COPPOCK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
570C: NIRA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
581C2: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
NIRA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
592C2: MYSTIC-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
592D2: MYSTIC-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
594C2: GALLAND-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
594D2: GALLAND-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
594E2: GALLAND-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
688: KOSZTA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
715: NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
LANDES-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
730B: NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
CANTRIL-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
731C2: PERSHING-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
732C2: WELLER-----	---	> 80	---	---	---	---	High-----	High-----	High.
732D2: WELLER-----	---	> 80	---	---	---	---	High-----	High-----	High.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
779: KALONA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
792C2: ARMSTRONG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
792D: ARMSTRONG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
792D2: ARMSTRONG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
795D2: ASHGROVE-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
831C2: PERSHING-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
832C2: WELLER-----	---	> 80	---	---	---	---	High-----	High-----	High.
876B: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
876C: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
876C2: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
880B: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
880C: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
880C2: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
881B: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
881C2: OTLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
892D2: MYSTIC VARIANT----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
977: RICHWOOD-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
977B: RICHWOOD-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
993D2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
ARMSTRONG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
1075B: GIVIN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
1130: BELINDA-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
1131B: PERSHING-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
1132B: WELLER-----	---	> 80	---	---	---	---	High-----	High-----	High.
1220: NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
1279: TAINTOR-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
1280: MAHASKA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
1315: LANDES-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
PERKS-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
1977: RICHWOOD VARIANT---	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.
4000: URBAN LAND-----	---	---	---	---	---	---	---	---	---
5010: PITS-----	---	---	---	---	---	---	---	---	---
5020: PITS-----	---	---	---	---	---	---	---	---	---
5030: PITS-----	---	---	---	---	---	---	---	---	---
6313: ORTHENTS-----	---	---	---	---	---	---	---	---	---
W: WATER-----	---	---	---	---	---	---	---	---	---