

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.)

Madison 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			
Au: ALLUVIAL LAND-----	---	---	---	---	---	---	Low-----	Low-----	Moderate.
Av: ALLUVIAL LAND-----	---	---	---	---	---	---	Low-----	Low-----	Moderate.
AwD: ARBOR-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
Br: BREMER-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
CbD2: CALEB-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
CeD2: CALEB-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
MYSTIC-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
CeE2: CALEB-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
MYSTIC-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
ClD2: CLANTON-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
ClF2: CLANTON-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
CmD2: CLANTON-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
GOSPORT----- Bedrock (paralithic)		20- 40	---	---	---	---	Moderate----	High-----	High.

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		In	In		In	In			
CmE2: CLANTON-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
GOSPORT-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	High-----	High.
CmF2: CLANTON-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
GOSPORT-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	High-----	High.
CmG2: CLANTON-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
GOSPORT-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	High-----	High.
CnC: CLARINDA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
CnC2: CLARINDA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
CoC: CLEARFIELD-----	---	> 80	---	---	---	---	High-----	High-----	Low.
CoC2: CLEARFIELD-----	---	> 80	---	---	---	---	High-----	High-----	Low.
CsB: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
CsC: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
CsC2: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
CsD2: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
CtB: CLINTON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
Cu: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
Cv: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
CwB: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
ELY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
CyB: COLO-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
ELY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
DbD2: DUNBARTON VARIANT--	Bedrock (paralithic)	20- 40	---	---	---	---	High-----	Moderate----	Moderate.
E1B: ELY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
Fg: FLAGGY ALLUVIAL LAND-----	---	---	---	---	---	---	Low-----	Low-----	Moderate.
GaC2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
GaD2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
GaE: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
GaE2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
GaF2: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
GaG: GARA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
Gn: GIVIN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
Go: GIVIN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
GpE: GOSPORT-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	High-----	High.
GpF: GOSPORT-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	High-----	High.
HxG: HIXTON-----	Bedrock (paralithic)	20- 40	---	---	---	---	Moderate----	Low-----	Moderate.
JuB: JUDSON-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
Ke: KENNEBEC-----	---	> 80	---	---	---	---	High-----	Moderate----	Low.
Kkd2: KESWICK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
LaB: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LaB2: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LaC: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LaC2: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LaD: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LaD2: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LaE2: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LbB: LADOGA-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LcC: LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
LcC2: LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
LcD: LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
LcD2: LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
LcD3: LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	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			
LdD2: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LdE2: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LdF: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LdG: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LeE3: LINDLEY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
MbA: MACKSBURG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
MbB: MACKSBURG-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
MgB: MARTINSBURG-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
MtD2: MYSTIC-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
MyD2: MYSTIC-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
CLANTON-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
MyE2: MYSTIC-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
CLANTON-----	---	> 80	---	---	---	---	Moderate----	High-----	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			
NeA: NEVIN-----	---	> 80	---	---	---	---	High-----	High-----	Low.
NeB: NEVIN-----	---	> 80	---	---	---	---	High-----	High-----	Low.
N1C2: NIRA-----	---	> 80	---	---	---	---	High-----	Moderate---	Moderate.
NM: NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate---	Low.
Nn: NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate---	Low.
NoB: NODAWAY-----	---	> 80	---	---	---	---	High-----	Moderate---	Low.
MARTINSBURG-----	---	> 80	---	---	---	---	High-----	Moderate---	Moderate.
NrE: NORDNESS-----	Bedrock (lithic)	8- 20	---	---	---	---	Low-----	Low-----	Low.
OmB: OLMITZ-----	---	> 80	---	---	---	---	Moderate---	Moderate---	Moderate.
OmC: OLMITZ-----	---	> 80	---	---	---	---	Moderate---	Moderate---	Moderate.
SbA: SHARPSBURG-----	---	> 80	---	---	---	---	High-----	Moderate---	Moderate.
SbB: SHARPSBURG-----	---	> 80	---	---	---	---	High-----	Moderate---	Moderate.
SbB2: SHARPSBURG-----	---	> 80	---	---	---	---	High-----	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			
SbC: SHARPSBURG-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
SbC2: SHARPSBURG-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
SbD2: SHARPSBURG-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
ScA: SHARPSBURG-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
ScB: SHARPSBURG-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
ShD2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
ShE: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
ShE2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
ShF2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
SKE3: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
S1C2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	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			
S1D: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
S1D2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
S1D3: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
S1E2: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
S1E3: SHELBY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
LAMONI-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
SoE: SLOPING STONY LAND-	---	---	---	---	---	---	---	---	---
Sp: SPERRY-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
Sr: SPILLVILLE-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
Ss: SPILLVILLE-----	---	> 80	---	---	---	---	Moderate----	High-----	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			
StG: STEEP ROCK LAND----	---	---	---	---	---	---	---	---	---
VeA: VESSER-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
VeB: VESSER-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
Wa: WABASH-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
Wb: WABASH-----	---	> 80	---	---	---	---	Moderate----	High-----	Moderate.
Wc: WINTERSET-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
WoA: WIOTA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
WoB: WIOTA-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
ZoA: ZOOK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
ZoB: ZOOK-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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Mills 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			
1C: IDA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
1C3: IDA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
1D: IDA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
1D3: IDA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
1E: IDA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
1E3: IDA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
1F: IDA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
1F3: IDA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
2G: HAMBURG-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
IDA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
3E: CASTANA-----	---	> 80	---	---	---	---	High-----	Low-----	Low.
8B: JUDSON-----	---	> 80	---	---	---	---	High-----	Moderate---	Low.
8C: JUDSON-----	---	> 80	---	---	---	---	High-----	Moderate---	Low.