

Building Site Development

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Hardin County, Iowa

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6: Okoboji-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
7: Wiota-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
7B: Wiota-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
8B: Judson-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
11B: Colo-----	60	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
Ely-----	30	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
20C2: Killduff-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
20D3: Killduff-----	100	Very limited Frost action	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Low strength	1.00				
		Slope	0.63				
		Shrink-swell	0.50				
20E3: Killduff-----	100	Very limited Frost action	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00				
		Slope	1.00				
		Shrink-swell	0.50				
27B: Terril-----	100	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Frost action	0.50				
55: Nicollet-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.73	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
62C2: Storden-----	95	Somewhat limited Frost action	0.50	Not limited		Not limited	
62D2: Storden-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Frost action	0.50				
62E2: Storden-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Frost action	0.50				
62G2: Storden-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73C: Salida-----	90	Not limited		Very limited cutbanks cave	0.90	Very limited Droughty Gravel content	1.00 0.12
73E: Salida-----	95	Very limited Slope	0.96	Very limited Slope cutbanks cave	0.96 0.90	Very limited Droughty Slope Gravel content	1.00 0.96 0.12
83C2: Kenyon-----	100	Somewhat limited Frost action Low strength	0.50 0.22	Somewhat limited Depth to saturated zone	0.16	Not limited	
83E2: Kenyon-----	100	Very limited Slope Frost action Low strength	0.96 0.50 0.22	Very limited Slope Depth to saturated zone	0.96 0.16	Very limited Slope	0.96
90: Okoboji-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
95: Harps-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
96: Turlin-----	95	Somewhat limited Frost action Flooding	0.50 0.40	Very limited cutbanks cave Depth to saturated zone	0.90 0.61	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
107: Webster-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
118: Garwin-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
119: Muscatine-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
119B: Muscatine-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
120B: Tama-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
120C: Tama-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
120C2: Tama-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
120D2: Tama-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
122: Sperry-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 0.01	Very limited Depth to saturated zone	1.00
133: Colo-----	95	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
135: Coland-----	95	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
138B: Clarion-----	100	Somewhat limited Frost action	0.50	Not limited		Not limited	
138C2: Clarion-----	95	Somewhat limited Frost action	0.50	Not limited		Not limited	
138D2: Clarion-----	95	Somewhat limited Slope Frost action	0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
152: Marshan-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone cutbanks cave	1.00 0.90	Very limited Depth to saturated zone	1.00
162B: Downs-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
162C2: Downs-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
162D2: Downs-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
163B: Fayette-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
163C: Fayette-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
163D: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
168B: Hayden-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Not limited		Not limited	
168C: Hayden-----	95	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Not limited		Not limited	
168G: Hayden-----	95	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
177: Saude-----	95	Not limited		Very limited cutbanks cave	0.90	Not limited	
177B: Saude-----	95	Not limited		Very limited cutbanks cave	0.90	Not limited	
177C: Saude-----	95	Not limited		Very limited cutbanks cave	0.90	Not limited	
178: Waukee-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
178B: Waukee-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
184: Klinger-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
184B: Klinger-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength Shrink-swell	1.00 0.50				
188: Kensett-----	95	Very limited Frost action	1.00	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.26
		Low strength Shrink-swell Depth to hard bedrock	1.00 0.50 0.26	Depth to saturated zone	0.95		
201B: Coland-----	50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Flooding	0.60	Flooding	0.60
Terril-----	35	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Frost action	0.50				
212: Kennebec-----	95	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.61	Somewhat limited Flooding	0.60
		Flooding Low strength Shrink-swell	1.00 1.00 0.50	Flooding	0.60		
221: Palms-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Subsidence Frost action	1.00 1.00	Content of organic matter	1.00	Content of organic matter	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
225: Lawler-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00	cutbanks cave	0.90		
226: Lawler-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
				cutbanks cave	0.90		
236B: Lester-----	95	Very limited Low strength	1.00	Not limited		Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
236C: Lester-----	100	Very limited Low strength	1.00	Not limited		Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
236C2: Lester-----	95	Very limited Low strength	1.00	Not limited		Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
236D2: Lester-----	95	Very limited Low strength	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Slope	0.63				
		Shrink-swell	0.50				
		Frost action	0.50				
236F: Lester-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00				
		Shrink-swell	0.50				
		Frost action	0.50				
284: Flagler-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
284B: Flagler-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
284C2: Flagler-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
291: Atterberry-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength Depth to saturated zone	1.00 0.19				
325: Le Sueur-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength Shrink-swell	1.00 0.50				
329: Webster-----	50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action Low strength Shrink-swell	1.00 1.00 0.50				
Nicollet-----	30	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.73	Not limited	
		Low strength Shrink-swell	1.00 0.50				
335: Harcot-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action Low strength Shrink-swell	1.00 0.78 0.50	cutbanks cave	0.90		

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377B: Dinsdale-----	100	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength Shrink-swell	1.00 0.50				
377C2: Dinsdale-----	100	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength Shrink-swell	1.00 0.50				
377D2: Dinsdale-----	100	Very limited Frost action	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Low strength Slope Shrink-swell	1.00 0.63 0.50	Depth to saturated zone	0.16		
382: Maxfield-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action Low strength Shrink-swell	1.00 1.00 1.00				
393C: Sparta-----	95	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.07
393D: Sparta-----	95	Somewhat limited Slope	0.63	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope Droughty	0.63 0.07
409B: Dickinson-----	100	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
409C: Dickinson-----	100	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	

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415G: Montieth-----	100	Very limited Slope Frost action	1.00 0.50	Very limited Slope cutbanks cave Depth to soft bedrock	1.00 0.90 0.26	Very limited Slope Droughty Depth to bedrock	1.00 0.63 0.26
428B: Ely-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
457: Du Page-----	95	Very limited Flooding Low strength Frost action	1.00 1.00 0.50	Somewhat limited Flooding Depth to saturated zone	0.60 0.15	Somewhat limited Flooding	0.60
485: Spillville-----	95	Very limited Flooding Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Somewhat limited Depth to saturated zone Flooding	0.61 0.60	Somewhat limited Flooding	0.60
491G: Renova-----	100	Very limited Slope Frost action	1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
506: Wacousta-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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507: Canisteo-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
536: Hanlon-----	95	Very limited Flooding Frost action	1.00 0.50	Very limited cutbanks cave Depth to saturated zone Flooding	0.90 0.61 0.60	Somewhat limited Flooding	0.60
595: Harpster-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
638C2: Clarion-----	55	Somewhat limited Frost action	0.50	Not limited		Not limited	
Storden-----	35	Somewhat limited Frost action	0.50	Not limited		Not limited	
638D2: Clarion-----	55	Somewhat limited Slope Frost action	0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
Storden-----	35	Somewhat limited Slope Frost action	0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63

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696: Tilfer-----	100	Very limited Depth to saturated zone Frost action	1.00 1.00 1.00	Very limited Depth to hard bedrock Depth to saturated zone Flooding	1.00 1.00 0.60	Very limited Depth to saturated zone Flooding Depth to bedrock	1.00 0.60 0.46
705C2: Downs Variant-----	90	Very limited Frost action	1.00	Not limited		Not limited	
705D2: Downs Variant-----	95	Very limited Frost action Slope	1.00 0.63	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
733: Calco-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
771B: Waubeek-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
771C2: Waubeek-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	

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771D2: Waubeek-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.16	Somewhat limited Slope	0.63
814: Rockton-----	100	Somewhat limited Frost action Depth to hard bedrock	0.50 0.46	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.46
814B: Rockton-----	100	Somewhat limited Frost action Depth to hard bedrock	0.50 0.46	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.46
814C2: Rockton-----	100	Somewhat limited Frost action Depth to hard bedrock	0.50 0.46	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.46
828B: Zenor-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.33
828C2: Zenor-----	90	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.38
933: Sawmill-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60

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936: Coland-----	50	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00 0.60
Spillville-----	25	Very limited Flooding Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Somewhat limited Depth to saturated zone Flooding	0.61 0.60	Somewhat limited Flooding	0.60
Hanlon-----	15	Very limited Flooding Frost action	1.00 0.50	Very limited cutbanks cave Depth to saturated zone Flooding	0.90 0.61 0.60	Somewhat limited Flooding	0.60
956: Okoboji-----	45	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Harps-----	40	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
1936: Coland-----	50	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00

Building Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Hardin County, Iowa

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Spillville-----	25	Very limited Flooding Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Somewhat limited Flooding Depth to saturated zone	0.80 0.61	Very limited Flooding	1.00
Hanlon-----	15	Very limited Flooding Frost action	1.00 0.50	Very limited cutbanks cave Flooding Depth to saturated zone	0.90 0.80 0.61	Very limited Flooding	1.00
4000: Urban Land-----	100	Not rated		Not rated		Not rated	
5010: Pits, Sand And Gravel-----	100	Not rated		Not rated		Not rated	
5030: Pits, Limeston Quarry-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	