

Water Management

(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.)

Jasper County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5B: Ackmore-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.02	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
7: Wiota-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.15	Very limited Depth to water	1.00
8: Judson-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.56	Very limited Depth to water	1.00
8B: Judson-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.11	Very limited Depth to water	1.00
8C: Judson-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.11	Very limited Depth to water	1.00
20C2: Killduff-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.12	Very limited Depth to water	1.00
20D2: Killduff-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.12	Very limited Depth to water	1.00
20E2: Killduff-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.12	Very limited Depth to water	1.00
24D2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Depth to water	1.00

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24E2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Depth to water	1.00
24F2: Shelby-----	Somewhat limited Slope Seepage	0.18 0.05	Not limited		Very limited Depth to water	1.00
27B: Terril-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.72	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
41B: Sparta-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.82	Very limited Depth to water	1.00
41C2: Sparta-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.82	Very limited Depth to water	1.00
41D2: Sparta-----	Very limited Seepage Slope	1.00 0.02	Somewhat limited Seepage	0.82	Very limited Depth to water	1.00
43: Bremer-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.51	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
54: Zook-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.75	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
55: Nicollet-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.10	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
62D: Storden-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Depth to water	1.00
62E: Storden-----	Somewhat limited Seepage Slope	0.70 0.04	Very limited Piping	1.00	Very limited Depth to water	1.00
62F: Storden-----	Somewhat limited Seepage Slope	0.70 0.18	Very limited Piping	1.00	Very limited Depth to water	1.00
63C: Chelsea-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.12	Very limited Depth to water	1.00
63D: Chelsea-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.12	Very limited Depth to water	1.00
63E: Chelsea-----	Very limited Seepage Slope	1.00 0.12	Somewhat limited Seepage	0.12	Very limited Depth to water	1.00
65E: Lindley-----	Somewhat limited Seepage Slope	0.05 0.04	Somewhat limited Piping	0.60	Very limited Depth to water	1.00
65E3: Lindley-----	Somewhat limited Seepage Slope	0.05 0.04	Somewhat limited Piping	0.50	Very limited Depth to water	1.00
65F: Lindley-----	Somewhat limited Slope Seepage	0.18 0.05	Somewhat limited Piping	0.60	Very limited Depth to water	1.00
65G: Lindley-----	Somewhat limited Slope Seepage	0.64 0.05	Somewhat limited Piping	0.60	Very limited Depth to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
76B: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
76C2: Ladoga-----	Somewhat limited Seepage	0.70	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
76D2: Ladoga-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
80C2: Clinton-----	Somewhat limited Seepage	0.70	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
80D2: Clinton-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
80D3: Clinton-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
80E2: Clinton-----	Somewhat limited Seepage Slope	0.70 0.04	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
88: Nevin-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
93D2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Somewhat limited Slow refill Depth to water Cutbanks cave	0.95 0.81 0.10
Adair-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Very limited Depth to water	1.00
93E2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Somewhat limited Slow refill Depth to water Cutbanks cave	0.95 0.81 0.10
Adair-----	Somewhat limited Seepage Slope	0.05 0.04	Very limited Depth to saturated zone	1.00	Very limited Depth to water	1.00
94D2: Caleb-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.08	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
Mystic-----	Somewhat limited Seepage Slope	0.70 0.01	Very limited Depth to saturated zone Piping	1.00 0.16	Very limited Depth to water	1.00
94E2: Caleb-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.08	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
Mystic-----	Somewhat limited Seepage Slope	0.70 0.04	Very limited Depth to saturated zone Piping	1.00 0.16	Very limited Depth to water	1.00
107: Webster-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
117: Garwin-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Sperry-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Ponding Hard to pack	1.00 1.00 0.11	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
118: Garwin-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
119: Muscatine-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
120: Tama-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
120B: Tama-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
120C2: Tama-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
120D2: Tama-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
122: Sperry-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Ponding Hard to pack	1.00 1.00 0.11	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.30
					Cutbanks cave	0.10
133+: Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.01	Somewhat limited Slow refill	0.30
					Cutbanks cave	0.10
135: Coland-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Piping	1.00 0.98	Somewhat limited Cutbanks cave	0.10
135B: Coland-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Piping	1.00 0.98	Somewhat limited Cutbanks cave	0.10
138B: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Depth to water	1.00
138C2: Clarion-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Very limited Depth to water	1.00
138D2: Clarion-----	Somewhat limited Seepage Slope	0.70 0.01	Very limited Piping	1.00	Very limited Depth to water	1.00
138E2: Clarion-----	Somewhat limited Seepage Slope	0.70 0.04	Very limited Piping	1.00	Very limited Depth to water	1.00
162: Downs-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.09	Very limited Depth to water	1.00
162B: Downs-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.09	Very limited Depth to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
162C2: Downs-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.09	Very limited Depth to water	1.00
162D2: Downs-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.09	Very limited Depth to water	1.00
162E2: Downs-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.09	Very limited Depth to water	1.00
163B: Fayette-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.12	Very limited Depth to water	1.00
163C2: Fayette-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.05	Very limited Depth to water	1.00
163D2: Fayette-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.05	Very limited Depth to water	1.00
163D3: Fayette-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.05	Very limited Depth to water	1.00
163E2: Fayette-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.05	Very limited Depth to water	1.00
163F2: Fayette-----	Somewhat limited Seepage Slope	0.70 0.18	Somewhat limited Piping	0.05	Very limited Depth to water	1.00
168E2: Hayden-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.28	Very limited Depth to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
168F: Hayden-----	Somewhat limited Seepage Slope	0.70 0.18	Somewhat limited Piping	0.28	Very limited Depth to water	1.00
168G: Hayden-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.28	Very limited Depth to water	1.00
	Slope	0.64				
172: Wabash-----	Not limited		Very limited Depth to saturated zone Hard to pack Ponding	1.00 1.00 1.00	Very limited Slow refill Cutbanks cave	1.00 0.10
174: Bolan-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.02	Very limited Depth to water	1.00
175B: Dickinson-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.02	Very limited Depth to water	1.00
175C: Dickinson-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.02	Very limited Depth to water	1.00
175D: Dickinson-----	Very limited Seepage Slope	1.00 0.01	Somewhat limited Seepage	0.02	Very limited Depth to water	1.00
179D2: Gara-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Depth to water	1.00
179E2: Gara-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Depth to water	1.00
179F2: Gara-----	Somewhat limited Slope Seepage	0.18 0.05	Not limited		Very limited Depth to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179G: Gara-----	Somewhat limited Slope Seepage	0.64 0.05	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
185E2: Bauer-----	Somewhat limited Depth to bedrock Slope	0.11 0.02	Somewhat limited Thin layer Hard to pack	0.86 0.34	Very limited Slow refill Depth to water	1.00 0.81
185F2: Bauer-----	Somewhat limited Slope Depth to bedrock	0.45 0.11	Somewhat limited Thin layer Hard to pack	0.86 0.34	Cutbanks cave Very limited Slow refill Depth to water Cutbanks cave	0.10 1.00 0.81 0.10
192D2: Adair-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Very limited Depth to water	1.00
212: Kennebec-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.84	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
220: Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
222C2: Clarinda-----	Somewhat limited Seepage	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.91	Very limited Depth to water	1.00
222D2: Clarinda-----	Somewhat limited Seepage Slope	0.01 0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.91	Very limited Depth to water	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-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.14	Very limited Cutbanks cave	1.00
226: Lawler-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.02	Very limited Cutbanks cave	1.00
236B: Lester-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.06	Very limited Depth to water	1.00
236C2: Lester-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.06	Very limited Depth to water	1.00
236D2: Lester-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.06	Very limited Depth to water	1.00
273B: Olmitz-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.32	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
273C: Olmitz-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.32	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
279: Taintor-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.25	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
280: Mahaska-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
281B: Otley-----	Somewhat limited Seepage	0.70	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
281C2: Otley-----	Somewhat limited Seepage	0.70	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
281D2: Otley-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
284B: Flagler-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.08	Very limited Depth to water	1.00
291: Atterberry-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.01	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
293G: Chelsea-----	Very limited Seepage Slope	1.00 0.64	Somewhat limited Seepage	0.12	Very limited Depth to water	1.00
Fayette-----	Somewhat limited Seepage Slope	0.70 0.64	Somewhat limited Piping	0.12	Very limited Depth to water	1.00
315: Alluvial Land-----	Not limited		Not rated Not rated; Fragments > 75mm Not rated Not rated Not rated		Not rated Not rated; Fragments > 75mm Depth to water	1.00
Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10

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354: Marsh-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Ponding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
428B: Ely-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.15	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
430: Ackmore-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.02	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
453: Tuskeego-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.12	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
507: Canisteo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
570B2: Nira-----	Somewhat limited Seepage	0.70	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
570C2: Nira-----	Somewhat limited Seepage	0.70	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
570D2: Nira-----	Somewhat limited Seepage Slope	0.70 0.01	Not limited		Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
620C2: Port Byron-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.88	Very limited Depth to water	1.00
620D2: Port Byron-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.88	Very limited Depth to water	1.00
620E2: Port Byron-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.88	Very limited Depth to water	1.00
620F2: Port Byron-----	Somewhat limited Seepage Slope	0.70 0.18	Somewhat limited Piping	0.88	Very limited Depth to water	1.00
742B: Martinsburg-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.27	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
742C: Martinsburg-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.27	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
792D2: Armstrong-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.03	Very limited Depth to water	1.00
822D2: Lamoni-----	Somewhat limited Slope	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.25	Very limited Depth to water	1.00
822E2: Lamoni-----	Somewhat limited Slope	0.04	Very limited Depth to saturated zone Hard to pack	1.00 0.25	Very limited Depth to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
993D2: Gara-----	Somewhat limited Seepage	0.05	Not limited		Very limited Depth to water	1.00
	Slope	0.01				
Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00	Very limited Depth to water	1.00
	Slope	0.01				
993E2: Gara-----	Somewhat limited Seepage	0.05	Not limited		Very limited Depth to water	1.00
	Slope	0.04				
Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00	Very limited Depth to water	1.00
	Slope	0.04				
993E3: Gara-----	Somewhat limited Seepage	0.05	Not limited		Very limited Depth to water	1.00
	Slope	0.04				
Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00	Very limited Depth to water	1.00
	Slope	0.04				
5010: Pits, Sand And Gravel-----	Not rated		Not rated		Not rated	
C5B: Ackmore-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00	Somewhat limited Slow refill	0.30
Colo-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.30

Water Management

(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.)

Jasper County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
C315: Alluvial Land-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Depth to water Slow refill Cutbanks cave	0.81 0.30 0.10
T120B: Tama-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
T120C: Tama-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
T162B: Downs-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.09	Very limited Depth to water	1.00
T162C: Downs-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.09	Very limited Depth to water	1.00
W: Water-----	Not rated		Not rated		Not rated	