

Agricultural Waste 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	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5B: Ackmore-----	50	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00  0.60	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00  1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding Too steep for surface application	1.00  0.60 0.08
Colo-----	35	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00  0.60	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00  1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding Too steep for surface application	1.00  0.60 0.08
7: Wiota-----	95	Somewhat limited Too acid	0.02	Somewhat limited Flooding Too acid	0.40 0.07	Somewhat limited Too acid	0.07
8: Judson-----	95	Not limited		Not limited		Not limited	
8B: Judson-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
8C: Judson-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.92  0.02
20C2: Killduff-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.92



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
24F2: Shelby-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22 0.07
27B: Terril-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
41B: Sparta-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Leaching limitation	0.45	Droughty	0.26	Droughty	0.26
		Droughty	0.26				
41C2: Sparta-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Leaching limitation	0.45	Droughty	0.26	Too steep for surface application	0.92
		Droughty	0.26			Droughty Too steep for sprinkler application	0.26 0.02
41D2: Sparta-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Slope	0.96	Slope	0.96	Filtering capacity	1.00
		Leaching limitation	0.45	Droughty	0.32	Too steep for sprinkler application	0.98
		Droughty	0.32			Droughty	0.32

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
43: Bremer-----	95	Very limited Depth to saturated zone (NOV-JUL) Flooding Restricted permeability	1.00  0.60 0.30	Very limited Depth to saturated zone (NOV-JUL) Flooding Restricted permeability	1.00  1.00 0.22	Very limited Depth to saturated zone (NOV-JUL) Flooding Restricted permeability	1.00  0.60 0.22
54: Zook-----	90	Very limited Restricted permeability  Depth to saturated zone (NOV-JUL) Flooding  Leaching limitation	1.00  1.00 0.60 0.50	Very limited Depth to saturated zone (NOV-JUL) Flooding  Restricted permeability	1.00  1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Restricted permeability  Flooding	1.00  1.00 0.60
55: Nicollet-----	95	Very limited Depth to saturated zone (NOV-JUL) Too acid	1.00  0.08	Very limited Depth to saturated zone (NOV-JUL) Too acid	1.00  0.31	Very limited Depth to saturated zone (NOV-JUL) Too acid	1.00  0.31
62D: Storden-----	95	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Too steep for surface application Too steep for sprinkler application	1.00  0.40
62E: Storden-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application	1.00  1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
62F: Storden-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application Too steep for surface application	1.00  1.00
63C: Chelsea-----	90	Very limited Filtering capacity Droughty	1.00  0.53	Very limited Filtering capacity Droughty	1.00  0.53	Very limited Filtering capacity Too steep for surface application Droughty	1.00  0.92  0.53
		Leaching limitation	0.45			Too steep for sprinkler application	0.02
63D: Chelsea-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Filtering capacity	1.00
		Droughty	0.53	Droughty	0.53	Too steep for sprinkler application	0.78
		Leaching limitation	0.45			Droughty	0.53
63E: Chelsea-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Too steep for sprinkler application	1.00
		Droughty	0.53	Droughty	0.53	Filtering capacity	1.00
		Leaching limitation	0.45			Droughty	0.53

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65E: Lindley-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65E3: Lindley-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65F: Lindley-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for surface application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65G: Lindley-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for surface application	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
76B: Ladoga-----	100	Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
		Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Restricted permeability Too steep for surface application	0.22 0.08
76C2: Ladoga-----	100	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	0.92 0.22 0.02
76D2: Ladoga-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability	1.00 0.78 0.22
80C2: Clinton-----	100	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application Restricted permeability Too acid Too steep for sprinkler application	0.92 0.22 0.07 0.02
		Too acid	0.02	Too acid	0.07		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80D2: Clinton-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.78
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22 0.07
80D3: Clinton-----	85	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.78
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22 0.07
80E2: Clinton-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22 0.07
88: Nevin-----	90	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 0.40	Very limited Depth to saturated zone (NOV-JUL)	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
93D2: Shelby-----	60	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.78
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22 0.07
Adair-----	30	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability Too steep for sprinkler application	1.00 0.78
93E2: Shelby-----	70	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22 0.07
Adair-----	20	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Slope	1.00	Slope	1.00	Too steep for surface application Too steep for sprinkler application	1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
94D2: Caleb-----	55	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.78
						Too acid	0.31
Mystic-----	45	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Dense layer	1.00	Slope	0.63	Restricted permeability	1.00
		Slope	0.63	Too acid	0.31	Too steep for sprinkler application	0.78
		Too acid	0.08			Too acid	0.31
94E2: Caleb-----	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	1.00
						Too acid	0.31
Mystic-----	50	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Dense layer	1.00	Too acid	0.31	Restricted permeability	1.00
		Too acid	0.08			Too acid	0.31

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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		Very limited		Very limited	
		Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Leaching limitation	0.70				
117: Garwin-----	60	Very limited		Very limited		Very limited	
		Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Leaching limitation	0.70				
Sperry-----	35	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Leaching limitation	0.50				
118: Garwin-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Leaching limitation	0.70				
119: Muscatine-----	90	Very limited		Very limited		Very limited	
		Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07
120: Tama-----	95	Somewhat limited		Somewhat limited		Somewhat limited	
		Too acid	0.02	Too acid	0.07	Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
120B: Tama-----	100	Somewhat limited		Somewhat limited		Somewhat limited	
		Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid	0.08 0.07
120C2: Tama-----	90	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.92 0.07 0.02
120D2: Tama-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 0.78 0.07
122: Sperry-----	90	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Leaching limitation	0.50				
133: Colo-----	100	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133+: Colo-----	100	Very limited Depth to saturated zone (NOV-JUL) Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 0.60
135: Coland-----	95	Very limited Depth to saturated zone (NOV-JUL) Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 0.60
135B: Coland-----	100	Very limited Depth to saturated zone (NOV-JUL) Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding  Too steep for surface application	1.00 0.60  0.08
138B: Clarion-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
138C2: Clarion-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.92 0.02
138D2: Clarion-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.78

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138E2: Clarion-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
162: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too acid	0.07
162B: Downs-----	95	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.08
						Too acid	0.07
162C2: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.92
						Too acid	0.07
						Too steep for sprinkler application	0.02
162D2: Downs-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.78
						Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
162E2: Downs-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application Too acid	1.00 0.07
163B: Fayette-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
163C2: Fayette-----	95	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.92 0.07 0.02
163D2: Fayette-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 0.78 0.07
163D3: Fayette-----	85	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 0.78 0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163E2: Fayette-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application Too acid	1.00 0.07
163F2: Fayette-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid	1.00 0.07
168E2: Hayden-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
168F: Hayden-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
						Too steep for surface application	1.00
168G: Hayden-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
						Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
172: Wabash-----	95	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Ponding	1.00	Flooding	1.00	Ponding	1.00
		Flooding	0.60	Ponding	1.00	Flooding	0.60
		Runoff limitation	0.40	Too acid	0.07	Too acid	0.07
174: Bolan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
175B: Dickinson-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.08
175C: Dickinson-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
175D: Dickinson-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Filtering capacity	1.00
						Too steep for sprinkler application	0.78

Agricultural Waste Management

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179D2: Gara-----	85	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted permeability	0.78 0.22
179E2: Gara-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted permeability	1.00 0.22
179F2: Gara-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application Restricted permeability	1.00 0.22
179G: Gara-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application Restricted permeability	1.00 0.22

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
185E2: Bauer-----	95	Very limited Restricted permeability Slope	1.00 0.96	Very limited Restricted permeability Low adsorption	1.00 1.00	Very limited Restricted permeability Too steep for surface application	1.00 1.00
		Droughty	0.93	Slope	0.96	Too steep for sprinkler application	0.98
		Depth to bedrock Too acid	0.46 0.02	Droughty Depth to bedrock	0.93 0.46	Droughty Depth to bedrock	0.93 0.46
185F2: Bauer-----	95	Very limited Slope	1.00	Very limited Restricted permeability Slope	1.00 1.00	Very limited Restricted permeability Too steep for sprinkler application	1.00 1.00
		Restricted permeability	1.00	Low adsorption	1.00	Too steep for sprinkler application	1.00
		Droughty	0.93	Droughty	0.93	Too steep for surface application	1.00
		Depth to bedrock Too acid	0.46 0.02	Droughty Depth to bedrock	0.93 0.46	Droughty Depth to bedrock	0.93 0.46
192D2: Adair-----	100	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability Too steep for sprinkler application	1.00 0.78
212: Kennebec-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
220: Nodaway-----	85	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
222C2: Clarinda-----	95	Very limited Restricted permeability Depth to saturated zone (NOV-JUL) Runoff limitation  Too acid	1.00 1.00 0.40  0.02	Very limited Restricted permeability Depth to saturated zone (NOV-JUL) Too acid	1.00 1.00 0.07	Very limited Restricted permeability Depth to saturated zone (NOV-JUL) Too steep for surface application Too acid Too steep for sprinkler application	1.00 1.00 0.92  0.07 0.02
222D2: Clarinda-----	90	Very limited Restricted permeability Depth to saturated zone (NOV-JUL) Slope  Runoff limitation  Too acid	1.00 1.00 0.63  0.40  0.02	Very limited Restricted permeability Depth to saturated zone (NOV-JUL) Slope  Too acid	1.00 1.00 0.63  0.07	Very limited Restricted permeability Depth to saturated zone (NOV-JUL) Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 1.00  0.78  0.07
225: Lawler-----	95	Very limited Filtering capacity Depth to saturated zone (NOV-JUL)	1.00 1.00	Very limited Filtering capacity Depth to saturated zone (NOV-JUL)	1.00 1.00	Very limited Filtering capacity Depth to saturated zone (NOV-JUL)	1.00 1.00
226: Lawler-----	95	Very limited Depth to saturated zone (NOV-JUL) Filtering capacity	1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Filtering capacity	1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Filtering capacity	1.00 1.00
236B: Lester-----	95	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Restricted permeability Too steep for surface application	0.22 0.08

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
236C2: Lester-----	100	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	0.92 0.22 0.02
236D2: Lester-----	95	Somewhat limited Slope  Restricted permeability	0.63  0.30	Somewhat limited Slope  Restricted permeability	0.63  0.22	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability	1.00 0.78 0.22
273B: Olmitz-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
273C: Olmitz-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.92 0.02
279: Taintor-----	95	Very limited Depth to saturated zone (NOV-JUL) Leaching limitation Restricted permeability	1.00 0.50 0.30	Very limited Depth to saturated zone (NOV-JUL) Restricted permeability	1.00 0.22	Very limited Depth to saturated zone (NOV-JUL) Restricted permeability	1.00 0.22

Agricultural Waste Management

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
280: Mahaska-----	95	Very limited Depth to saturated zone (NOV-JUL) Too acid	1.00  0.02	Very limited Depth to saturated zone (NOV-JUL) Too acid	1.00  0.07	Very limited Depth to saturated zone (NOV-JUL) Too acid	1.00  0.07
281B: Otley-----	95	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08  0.07
281C2: Otley-----	90	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.92  0.07 0.02
281D2: Otley-----	85	Somewhat limited Slope  Too acid	0.63  0.02	Somewhat limited Slope  Too acid	0.63  0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00  0.78 0.07
284B: Flagler-----	90	Very limited Filtering capacity Droughty	1.00  0.27	Very limited Filtering capacity Droughty	1.00  0.27	Very limited Filtering capacity Droughty	1.00  0.27
291: Atterberry-----	95	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00

Agricultural Waste Management

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293G: Chelsea-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Too steep for surface application	1.00
		Droughty	0.53	Droughty	0.53	Filtering capacity	1.00
		Leaching limitation	0.45			Droughty	0.53
Fayette-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	1.00
						Too acid	0.07
315: Alluvial Land-----	65	Not Rated Not rated; Ksat Not rated; Ksat Not rated; Bulk density Not rated; Hydrologic group Not rated; Fragments > 250mm		Not Rated Not rated; AWC Not rated; Ksat Not rated; Ksat Not rated; pH Not rated; Fragments > 250mm		Not Rated Not rated; AWC Not rated; Ksat Not rated; Ksat Not rated; pH Not rated; Fragments 75 to 250mm	
Nodaway-----	25	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
354: Marsh-----	90	Very limited Depth to saturated zone (NOV-JUL) Ponding Leaching limitation Flooding	1.00 1.00 0.70 0.60	Very limited Depth to saturated zone (NOV-JUL) Flooding Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Ponding Flooding	1.00 1.00 0.60

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
428B: Ely-----	95	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL) Too steep for surface application	1.00 0.08
430: Ackmore-----	85	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 0.60	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 0.60
453: Tuskeego-----	95	Very limited Restricted permeability Depth to saturated zone (NOV-JUL) Leaching limitation Too acid	1.00 1.00 0.50 0.02	Very limited Restricted permeability Depth to saturated zone (NOV-JUL) Flooding Too acid	1.00 1.00 0.40 0.07	Very limited Restricted permeability Depth to saturated zone (NOV-JUL) Too acid	1.00 1.00 0.07
507: Canisteeo-----	95	Very limited Depth to saturated zone (NOV-JUL) Leaching limitation	1.00 0.70	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
570B2: Nira-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
570C2: Nira-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.92 0.02

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
570D2: Nira-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.78
620C2: Port Byron-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
620D2: Port Byron-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.78
620E2: Port Byron-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
620F2: Port Byron-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00
						Too steep for surface application	1.00

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
742B: Martinsburg-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
742C: Martinsburg-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.92 0.02
792D2: Armstrong-----	100	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability Too steep for sprinkler application	1.00 0.78
822D2: Lamoni-----	95	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	1.00
		Too acid	0.01	Too acid	0.01	Too steep for sprinkler application Too acid	0.78 0.01

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
822E2: Lamoni-----	95	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Too acid	0.01	Too acid	0.01	Restricted permeability	1.00
						Too acid	0.01
993D2: Gara-----	50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.78
						Restricted permeability	0.22
Armstrong-----	40	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	1.00
						Too steep for sprinkler application	0.78
993E2: Gara-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
						Restricted permeability	0.22

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Armstrong-----	30	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
						Restricted permeability	1.00
993E3: Gara-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
						Restricted permeability	0.22
Armstrong-----	30	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
						Restricted permeability	1.00
5010: Pits, Sand And Gravel-----	100	Not rated		Not rated		Not rated	

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Jasper County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
C5B: Ackmore-----	50	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding Too steep for surface application	1.00 1.00 0.08
Colo-----	35	Very limited Depth to saturated zone (NOV-JUL) Flooding Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone (NOV-JUL) Flooding	1.00 1.00	Very limited Depth to saturated zone (NOV-JUL) Flooding Too steep for surface application	1.00 1.00 0.08
C315: Alluvial Land-----	85	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
T120B: Tama-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
T120C: Tama-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.92 0.07 0.02
T162B: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07

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Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
T162C: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.92  0.07 0.02
W: Water-----	100	Not rated		Not rated		Not rated	