

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.)

Clarke 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
13B: Olmitz-----	40	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
Zook-----	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	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				
Colo-----	20	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			Too steep for surface application	0.08
23C: Arispe-----	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
						Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
23C2: Arispe-----	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
24D: Shelby-----	90	Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Restricted permeability	1.00
						Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
24D2: Shelby-----	90	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
24E: Shelby-----	90	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
24E2: Shelby-----	90	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Slope	1.00	Slope	1.00	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
24E3: Shelby-----	90	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
24F: 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
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
51: Vesser-----	95	Very limited		Very limited		Very limited	

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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
51B: Vesser-----	95	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		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
		Flooding	0.60	Flooding	1.00	Flooding Too steep for surface application	0.08
54: Zook-----	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	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				
54+: Zook-----	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	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				
56C: Cantril-----	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

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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
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.32
65D: Lindley-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too acid	0.07
		Restricted permeability	0.30	Too acid	0.31	Very limited Too steep for surface application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too steep for sprinkler application	0.78
						Too acid	0.31
						Restricted permeability	0.22
65E: 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-----	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
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65F2: Lindley-----	95	Very limited		Very limited		Very limited	

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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		
65G: Lindley-----	100	Slope	1.00	Slope	1.00	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		
		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		
		69C: Clearfield-----	90	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
								Too steep for surface application	0.92
								Too steep for sprinkler application	0.02
69C2: Clearfield-----	90			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
						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
76C2: Ladoga-----	100					Too steep for sprinkler application	0.02
		Somewhat limited		Somewhat limited		Somewhat limited	
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	0.92
						Restricted permeability	0.22
87B: Zook-----	60					Too steep for sprinkler application	0.02
		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	Flooding	1.00	Restricted permeability	1.00
Colo-----	40	Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				
		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
93D: Shelby-----	65	Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60			Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Slope	0.63	Slope	0.63	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	0.22

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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	
Adair-----	35	Very limited	1.00	Very limited	1.00	Too acid	0.07	
		Restricted permeability				Depth to saturated zone (NOV-JUL)	Depth to saturated zone (NOV-JUL)	1.00
		Depth to saturated zone (NOV-JUL)				Restricted permeability	Too steep for surface application	1.00
93D2: Shelby-----	60	Slope	0.63	Slope	0.63	Restricted permeability	1.00	
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.78	
						Very limited	Too steep for surface application	1.00
						Restricted permeability	Too steep for sprinkler application	0.78
						Too acid	Restricted permeability	0.22
Adair-----	40	Too acid	0.02	Too acid	0.07	Too acid	0.07	
		Very limited	1.00	Very limited	1.00	Restricted permeability	0.22	
		Restricted		Depth to		Depth to	1.00	
		permeability		saturated zone (NOV-JUL)		saturated zone (NOV-JUL)		
		Depth to saturated zone (NOV-JUL)		Restricted permeability		Too steep for surface application	1.00	
Slope	Slope	0.63		Restricted permeability		1.00		
93D3: Adair-----	50	Very limited	1.00	Very limited	1.00	Too steep for sprinkler application	0.78	
		Restricted permeability		Depth to saturated zone (NOV-JUL)		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
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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
Shelby-----	50	Slope	0.63	Slope	0.63	Restricted permeability	1.00
						Too steep for sprinkler application	0.78
		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
94D: Caleb-----	70	Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
Mystic-----	30	Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.78
						Too acid	0.31
		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
94D2: Caleb-----	60	Slope	0.63	Slope	0.63	Restricted permeability	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.78
						Too acid	0.31
		Very limited Depth to	1.00	Very limited Depth to	1.00	Very limited Depth to	1.00

	saturated zone (NOV-JUL)		saturated zone (NOV-JUL)		saturated zone (NOV-JUL)
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mystic-----	40	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
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Too steep for surface application	1.00
94E2: Caleb-----	60	Slope	0.63	Slope	0.63	Restricted permeability	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.78
						Too acid	0.31
		Very limited Depth to saturated zone (NOV-JUL)	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Too steep for surface application	1.00
Mystic-----	40	Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Too acid	0.08	Too acid	0.31	Too acid	0.31
		Very limited Restricted permeability	1.00	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	Restricted permeability	1.00	Too steep for surface application	1.00
Mystic-----	40	Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Too acid	0.08	Too acid	0.31	Restricted permeability	1.00

131B: Pershing-----	95	Very limited	Very limited	Very limited	0.31
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		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
		Too acid	0.08	Too acid	0.31	Too acid Too steep for surface application	0.31 0.08
131C: Pershing-----	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
		Too acid	0.08	Too acid	0.31	Too steep for surface application	0.92
						Too acid Too steep for sprinkler application	0.31 0.02
131C2: Pershing-----	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
		Too acid	0.08	Too acid	0.31	Too steep for surface application	0.92
						Too acid Too steep for sprinkler application	0.31 0.02
132C:							

Weller-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		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	0.08	Too acid	0.31	Too steep for surface application	0.92
						Too acid	0.31
						Too steep for sprinkler application	0.02
133: Colo-----	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
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
133B: Colo-----	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
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60			Too steep for surface application	0.08
179D: Gara-----	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
						Restricted permeability	0.22
179D2: Gara-----	95	Somewhat limited		Somewhat limited		Very limited	

	Slope	0.63	Slope	0.63	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
179E: Gara-----	90	Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.78
						Restricted permeability	0.22
		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
179E2: Gara-----	90	Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
		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
179E3: Gara-----	90	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
179F: Gara-----	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
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179F2: Gara-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Restricted permeability	0.22
		Restricted permeability	0.30	Restricted permeability	0.22	Very limited Too steep for sprinkler application	1.00
						Too steep for surface application	1.00
192C: Adair-----	100	Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	0.22
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
						Restricted permeability	1.00
						Too steep for surface application	0.92
192C2: Adair-----	100	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Too steep for sprinkler application	0.02
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00
						Restricted permeability	1.00
						Too steep for surface application	0.92
				Too steep for sprinkler application	0.02		

192D:						
Adair-----	100	Very limited		Very limited		Very limited

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Clarke 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
		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	0.63	Slope	0.63	Restricted permeability Too steep for sprinkler application	1.00 0.78
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
192D3: 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
211: Edina-----	95	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

	Depth to saturated zone (NOV-JUL)	1.00	(NOV-JUL) Restricted permeability	1.00	(NOV-JUL) Restricted permeability	1.00
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Clarke 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
		Runoff limitation Too acid	0.40 0.02	Too acid	0.07	Too acid	0.07
220: Nodaway-----	90	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
222C: Clarinda-----	90	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
222C2: Clarinda-----	90	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
222C3: Clarinda-----	90	Very limited Restricted permeability Depth to saturated zone (NOV-JUL)	1.00 1.00	Very limited Restricted permeability Depth to saturated zone (NOV-JUL)	1.00 1.00	Very limited Restricted permeability Depth to saturated zone (NOV-JUL)	1.00 1.00

Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.92
Too acid	0.02			Too acid	0.07

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Clarke County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
222D2: Clarinda-----	90					Too steep for sprinkler application	0.02
		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
		Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for sprinkler application	0.78
269: Humeston-----	100	Too acid	0.02			Too acid	0.07
		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
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Leaching limitation	0.50	Too acid	0.07	Too acid	0.07
273B: Olmitz-----	95	Too acid	0.02				
		Not limited		Not limited		Somewhat limited	
273C: Olmitz-----	100					Too steep for surface application	0.08
		Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.92
						Too steep for sprinkler	0.02

					application
362: Haig-----	95	Very limited		Very limited	Very limited

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Clarke County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		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
		Leaching limitation	0.50				
364B: Grundy-----	98	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
						Too steep for surface application	0.08
368: Macksburg-----	98	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
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
		Too acid	0.02	Too acid	0.07	Too acid	0.07
368B: Macksburg-----	98	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
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07
369: Winterset-----	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
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Clarke 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
370B: Sharpsburg-----	95	Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
		Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Restricted permeability	0.22
		Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid	0.08 0.07
370C: Sharpsburg-----	90	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application	0.92
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid Too steep for sprinkler application	0.22 0.07 0.02
		Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application	0.92
370C2: Sharpsburg-----	90	Too acid	0.02	Too acid	0.07	Restricted permeability Too acid Too steep for sprinkler application	0.22 0.07 0.02
		Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application	0.92
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid Too steep for sprinkler application	0.22 0.07 0.02
423C2: Bucknell-----	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	Restricted permeability	1.00

Runoff limitation	0.40	Too acid	0.14	Too steep for surface application	0.92
Too acid	0.03			Too acid	0.14

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Clarke 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
423D: Bucknell-----	100	Very limited		Very limited		Too steep for sprinkler application	0.02
		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	0.63	Slope	0.63	Restricted permeability	1.00
		Runoff limitation	0.40	Too acid	0.14	Too steep for sprinkler application	0.78
		Too acid	0.03			Too acid	0.14
423D2: Bucknell-----	100	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	0.63	Slope	0.63	Restricted permeability	1.00
		Runoff limitation	0.40	Too acid	0.14	Too steep for sprinkler application	0.78
		Too acid	0.03			Too acid	0.14
425D: Keswick-----	100	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	0.63	Slope	0.63	Restricted permeability	1.00

	Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.78
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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
425D2: Keswick-----	100					Too acid	0.31
		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	0.08	Too acid	0.31	Too steep for sprinkler application	0.78
430: Ackmore-----	98					Too acid	0.31
		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
		Flooding	0.60	Flooding	1.00	Flooding	0.60
452C2: Lineville-----	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
		Dense layer	1.00			Too steep for surface application	0.92
484: Lawson-----	98					Too steep for sprinkler application	0.02
		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

		Flooding	0.60	Flooding	1.00	Flooding	0.60
570C: Nira-----	100	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
570C2: Nira-----	100	Very limited	1.00	Very limited	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	Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
570C2: Nira-----	100	Very limited	1.00	Very limited	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	Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
592C2: Mystic-----	100	Very limited	1.00	Very limited	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Restricted permeability	1.00	Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00
		Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	0.92
		Too acid	0.08	Too acid	0.31	Too acid	0.31
592D2: Mystic-----	100	Very limited	1.00	Very limited	1.00	Too steep for sprinkler application	0.02
		Restricted permeability	1.00	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)	1.00
		Depth to	1.00	Restricted	1.00	Too steep for	1.00

	saturated zone (NOV-JUL)		permeability		surface application	
	Slope	0.63	Slope	0.63	Restricted permeability	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.78
						Too acid	0.31
730C: Cantril-----	60	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
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.68
						Too acid	0.07
Nodaway-----	35	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
792C: 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	Restricted permeability	1.00
						Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
792C2: 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	Restricted permeability	1.00
						Too steep for surface application	0.92

Too steep for
sprinkler
application | 0.02

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
792D: 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	1.00
						Too steep for sprinkler application	0.78
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	1.00
						Too steep for sprinkler application	0.78
792D3: 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	1.00
						Too steep for sprinkler application	0.78
822C: Lamoni-----	100	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
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
822C2: Lamoni-----	100	Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Too acid	0.01	Too acid	0.01	Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
						Too acid	0.01
		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
822C3: Lamoni-----	100	Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	1.00	Too steep for surface application	0.92
		Too acid	0.01	Too acid	0.01	Too steep for sprinkler application	0.02
						Too acid	0.01
		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
		Too acid	0.01	Too acid	0.01	Too steep for surface application	0.92
822D:						Too steep for sprinkler application	0.02
						Too acid	0.01

Lamoni-----	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
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		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	0.78
						Too acid	0.01
822D2: Lamoni-----	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	1.00
		Too acid	0.01	Too acid	0.01	Too steep for sprinkler application	0.78
						Too acid	0.01
822D3: Lamoni-----	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	1.00
		Too acid	0.01	Too acid	0.01	Too steep for sprinkler application	0.78
						Too acid	0.01
892C2: Mystic Variant-----	100	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
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(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.)

Clarke 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
993D2: Gara-----	60	Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.92
		Too acid	0.02			Too acid	0.07
						Too steep for sprinkler application	0.02
Armstrong-----	40	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	1.00
						Too steep for sprinkler application	0.78
993E2: Gara-----	60	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone (NOV-JUL)	1.00	Restricted permeability	0.22
		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
Armstrong-----	40					Too steep for sprinkler application	0.78
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
						Restricted permeability	0.22
Armstrong-----	40	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
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(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.)

Clarke 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
		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
1715: Nodaway-----	50	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
Lawson-----	40	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
		Flooding	1.00	Flooding	1.00	Flooding	1.00
5030: Pits-----	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	

