

Agricultural Waste Management

Decatur 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 Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 1.00 1.00	Very limited Depth to saturated zone Restricted permeability Flooding	1.00 1.00 0.60
Vesser-----	20	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00 0.08
23C: Arispe-----	90	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too steep for sprinkler application	1.00 0.91 0.43 0.02
23C2: Arispe-----	90	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Too steep for surface application Depth to saturated zone	1.00 0.91 0.43

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24D: Shelby-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.02
						Very limited	
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
24D2: Shelby-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.77
						Very limited	
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
24E2: Shelby-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Too steep for sprinkler application	0.22
						Very limited	
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.22
24F2: Shelby-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Restricted permeability	0.22
						Very limited	
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.22

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
43: Bremer-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
51: Vesser-----	90	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00
		Flooding	0.60	Depth to saturated zone	1.00	Flooding	0.60
51B: Vesser-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
						Too steep for surface application	0.08
54: Zook-----	90	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	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	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				

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56B: Cantril-----	95	Somewhat limited Depth to saturated zone Too acid	0.43 0.02	Somewhat limited Depth to saturated zone Too acid	0.43 0.07	Somewhat limited Depth to saturated zone Too steep for surface application Too acid	0.43 0.08 0.07
56C: Cantril-----	100	Somewhat limited Depth to saturated zone Too acid	0.43 0.02	Somewhat limited Depth to saturated zone Too acid	0.43 0.07	Somewhat limited Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	0.91 0.43 0.07 0.02
58E: Douds-----	95	Very limited Slope Too acid	1.00 0.02	Very limited Slope Too acid	1.00 0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 0.07
58E2: Douds-----	95	Very limited Slope Too acid	1.00 0.02	Very limited Slope Too acid	1.00 0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 0.07
65D: Lindley-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited 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
65E: Lindley-----	95	Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	0.77
		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	Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
65E2: Lindley-----	95	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	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
65F2: Lindley-----	95					Restricted permeability	0.22
		Very limited Slope	1.00	Very limited Slope	1.00	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65G: 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
88: Nevin-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
94E: Caleb-----	70	Very limited Slope	1.00	Very limited Slope	1.00	Very limited 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-----	30	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited 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	0.77
						Too acid	0.31
94E2: Caleb-----	70	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler 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
						Too acid	0.31
Mystic-----	30	Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Too steep for	1.00
		permeability		permeability		surface	
		Slope	0.63	Slope	0.63	application	
		Too acid	0.08	Too acid	0.31	Restricted	1.00
						permeability	
						Too steep for	0.77
						sprinkler	
						application	
						Too acid	0.31
131B: Pershing-----	95	Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
		Depth to	0.43	Depth to	0.43	Depth to	0.43
		saturated zone		saturated zone		saturated zone	
		Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for	0.08
						surface	
						application	
131C: Pershing-----	90	Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
		Depth to	0.43	Depth to	0.43	Too steep for	0.91
		saturated zone		saturated zone		surface	
		Too acid	0.08	Too acid	0.31	application	
						Depth to	0.43
						saturated zone	
						Too acid	0.31
						Too steep for	0.02
						sprinkler	
						application	
131C2: Pershing-----	90	Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
		Depth to	0.43	Depth to	0.43	Too steep for	0.91
		saturated zone		saturated zone		surface	
		Too acid	0.08	Too acid	0.31	application	
						Depth to	0.43
						saturated zone	
						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
						Too steep for sprinkler application	0.02
132C: Weller-----	90	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
132C2: Weller-----	90	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.08	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.31	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
172: Wabash-----	95	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation Too acid	1.00 1.00 1.00 0.40 0.02	Very limited Restricted permeability Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.07	Very limited Restricted permeability Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.07
179D2: Gara-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited 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	0.77
						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	0.22
		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
179F: Gara-----	95	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
179F2: Gara-----	95	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
192C: Adair-----	95	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Restricted permeability Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too steep for sprinkler application	0.22 1.00 1.00 0.91 0.02
192C2: Adair-----	95	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too steep for sprinkler application	1.00 1.00 0.91 0.02
192D2: Adair-----	95	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.63	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.63	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application	1.00 1.00 1.00 0.77
208: Klum-----	85	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
211: Edina-----	100	Very limited		Very limited		Very limited	

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		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
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	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.91
		Too acid	0.02			Too acid	0.07
						Too steep for sprinkler application	0.02
222C2: Clarinda-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.91
		Too acid	0.02			Too acid	0.07
						Too steep for sprinkler application	0.02
222D2: Clarinda-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
223C2: Rinda-----	95	Runoff limitation	0.40	Too acid	0.07	Too steep for sprinkler application	0.77
		Too acid	0.02			Too acid	0.07
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.91
		Too acid	0.02			Too acid Too steep for sprinkler application	0.07 0.02
223D2: Rinda-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for sprinkler application	0.77
		Too acid	0.02			Too acid	0.07
232C: Keswick-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for surface application	0.91
						Too acid Too steep for sprinkler application	0.31 0.02

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
232C2: Keswick-----	95	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.08	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.31	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00 1.00 0.91 0.31 0.02
269: Humeston-----	95	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation Too acid	1.00 1.00 0.60 0.50 0.02	Very limited Restricted permeability Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.07	Very limited Restricted permeability Depth to saturated zone Flooding Too acid	1.00 1.00 0.60 0.07
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	0.91 0.02
312B: Seymour-----	95	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
312C: Seymour-----	95	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Too steep for surface application	0.08
						Very limited Restricted permeability	1.00
						Too steep for surface application	0.91
						Depth to saturated zone	0.43
312C2: Seymour-----	95	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Too steep for sprinkler application	0.02
						Very limited Restricted permeability	1.00
						Too steep for surface application	0.91
						Depth to saturated zone	0.43
362: Haig-----	95	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00	Very limited Depth to saturated zone Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
						Restricted permeability	1.00
						Restricted permeability	1.00
						Leaching limitation	0.50
364B: Grundy-----	95	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability	1.00
						Depth to saturated zone	0.95
						Depth to saturated zone	0.95

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423C2: Bucknell-----	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.14	Too steep for surface application Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	0.08 1.00 1.00 0.91 0.14 0.02
423D2: Bucknell-----	90	Very limited Restricted permeability Depth to saturated zone Slope Runoff limitation Too acid	1.00 1.00 0.63 0.40 0.03	Very limited Restricted permeability Depth to saturated zone Slope Too acid	1.00 1.00 0.63 0.14	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application Too acid	1.00 1.00 1.00 0.77 0.14
425C: Keswick-----	90	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.08	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.31	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00 1.00 1.00 0.91 0.31 0.02
425D: Keswick-----	90	Very limited		Very limited		Very limited	

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425D2: Keswick-----	90	Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00	
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00	
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77	
						Too acid	0.31	
		Very limited		Very limited		Very limited		
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00	
Slope	0.63	Slope	0.63	Depth to saturated zone	1.00			
Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77			
				Too acid	0.31			
425D3: Keswick-----	90	Very limited		Very limited		Very limited		
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00	
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00	
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77	
				Low adsorption	0.11	Too acid	0.31	
451C2: Caleb-----	95	Somewhat limited		Somewhat limited		Somewhat limited		
		Too acid	0.08	Too acid	0.31	Too steep for surface application	0.91	
						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
451D2: Caleb-----	95					Too steep for sprinkler application	0.02
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
451E2: Caleb-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited 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
452C: Lineville-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to dense layer	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00			Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
452C2: Lineville-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to dense layer	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00			Too steep for surface application	0.91
						Too steep for sprinkler application	

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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
453: Tuskeego-----	95	Very limited Restricted permeability Depth to saturated zone Leaching limitation Too acid	1.00 1.00 0.50 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.07	Very limited Restricted permeability Depth to saturated zone Too acid	0.02 1.00 1.00 0.07
484: Lawson-----	90	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
520: Coppock-----	95	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
520B: Coppock-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00 0.08
531B: Kniffin-----	95	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.08	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.31	Very limited Restricted permeability Depth to saturated zone Too acid Too steep for surface application	1.00 0.43 0.31 0.08

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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
531C: Kniffin-----	95	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
531C2: Kniffin-----	95	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
532C: Rathbun-----	95	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
532C2: Rathbun-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	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
587: Chequest-----	95	Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
592C: Mystic-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
592C2: Mystic-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Too acid	0.08	Too acid	0.31	Too steep for surface application	0.91
						Too acid	0.31
						Too steep for sprinkler application	0.02
592C2: Mystic-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Too acid	0.08	Too acid	0.31	Too steep for surface application	0.91
						Too acid	0.31
						Too steep for sprinkler application	0.02
592D2: Mystic-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited 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
594D: Galland-----	95	Slope	0.63	Slope	0.63	Restricted permeability	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	1.00
594D2: Galland-----	95	Runoff limitation	0.40			Too steep for sprinkler application	0.77
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	1.00
		Runoff limitation	0.40			Too steep for sprinkler application	0.77
678G: Gasconade-----	75	Very limited Slope	1.00	Very limited Droughty	1.00	Very limited Droughty	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Droughty	1.00	Slope	1.00	Too steep for surface application	1.00
		Cobble content	0.87	Cobble content	0.87	Too steep for sprinkler application	1.00
		Runoff limitation	0.40	Restricted permeability	0.22	Cobble content	0.87
715: Nodaway-----	50	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Lawson-----	30	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
		Depth to saturated zone	1.00	Flooding	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Depth to saturated zone	1.00	Flooding	0.60
Klum-----	15	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
730C: Cantril-----	40	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Depth to saturated zone	0.43
						Too acid	0.07
						Too steep for sprinkler application	0.02
Coppock-----	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
						Too steep for surface application	0.08
Nodaway-----	20	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
						Too steep for surface application	0.01
792C: Armstrong-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
792C2: Armstrong-----	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
792D: Armstrong-----	90	Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone Slope	1.00 0.63	Depth to saturated zone Slope	1.00 0.63	Restricted permeability Depth to saturated zone Too steep for sprinkler application	1.00 1.00 0.77
792D2: Armstrong-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone Too steep for sprinkler application	1.00 0.77
792D3: Armstrong-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	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
822C2: Lamoni-----	90					Too steep for sprinkler application	0.77
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too acid	0.01	Too acid	0.01	Too steep for surface application	0.91
822D2: Lamoni-----	90					Too steep for sprinkler application	0.02
		Very limited		Very limited		Too acid	0.01
		Restricted permeability	1.00	Restricted permeability	1.00	Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	1.00
831C2: Pershing-----	90	Too acid	0.01	Too acid	0.01	Depth to saturated zone	1.00
		Very limited		Very limited		Too steep for sprinkler application	0.77
		Restricted permeability	1.00	Restricted permeability	1.00	Too acid	0.01
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Very limited	
		Too acid	0.08	Too acid	0.31	Restricted permeability	1.00
832C2: Weller-----	90					Too steep for surface application	0.91
		Very limited		Very limited		Depth to saturated zone	0.43
		Very limited		Very limited		Too acid	0.31
		Very limited		Very limited		Too steep for sprinkler application	0.02
		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
994E: Douds-----	65	Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
Galland-----	35	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	1.00
						Too acid	0.07
994E2: Douds-----	65	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	1.00
		Runoff limitation	0.40			Too steep for sprinkler application	0.77
994E2: Douds-----	65	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	1.00
						Too acid	0.07
Galland-----	35	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	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
		Runoff limitation	0.40			Too steep for sprinkler application	0.77
1130: Belinda-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40				
1131B: Pershing-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.08	Too acid	0.31	Too acid Too steep for surface application	0.31 0.08
1131C: Pershing-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone Too acid Too steep for sprinkler application	0.43 0.31 0.02
1132C: Weller-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.08	Too acid	0.31	Too acid Too steep for surface application	0.31 0.08

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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
1715: Nodaway-----	40	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
Klum-----	30	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
Lawson-----	15	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
5030: Limestone-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	