

Agricultural Waste Management

Hancock 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
6: Okoboji-----	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
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
28: Dickman-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Leaching limitation	0.45				
28B: Dickman-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Leaching limitation	0.45			Too steep for surface application	0.08
28D2: Dickman-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Leaching limitation	0.45	Slope	0.16	Filtering capacity	1.00
		Slope	0.16			Too steep for sprinkler application	0.39
52B: Bode-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
52C2: Bode-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91

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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
52D2: Bode-----	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	0.77
52E2: Bode-----	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
55: Nicollet-----	95	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02
72: Estherville-----	95	Very limited Filtering capacity Droughty	1.00 0.14	Very limited Filtering capacity Droughty	1.00 0.14	Very limited Filtering capacity Droughty	1.00 0.14
72B: Estherville-----	90	Very limited Filtering capacity Droughty	1.00 0.14	Very limited Filtering capacity Droughty	1.00 0.14	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.14 0.08
72C2: Estherville-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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72D2: Estherville-----	90	Droughty	0.14	Droughty	0.14	Too steep for surface application	0.91
						Droughty	0.14
						Too steep for sprinkler application	0.02
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Too steep for surface application	1.00
73C2: Salida-----	100	Slope	0.63	Slope	0.63	Filtering capacity	1.00
		Droughty	0.14	Droughty	0.14	Too steep for sprinkler application	0.77
						Droughty	0.14
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Filtering capacity	1.00
90: Okoboji-----	90	Droughty	1.00	Droughty	1.00	Droughty	1.00
		Leaching limitation	0.45			Too steep for surface application	0.66
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.01
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Depth to saturated zone	1.00
95: Harps-----	95	Leaching limitation	0.70			Restricted permeability	0.22
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Depth to saturated zone	1.00

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107: Webster-----	95	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
135: Coland-----	100	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
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	0.91 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 0.77
174: Bolan-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
174B: Bolan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
221: Palms-----	100	Very limited Depth to saturated zone Leaching limitation	1.00 0.90	Very limited Depth to saturated zone Low adsorption	1.00 1.00	Too steep for surface application	0.08
224: Linder-----	95	Very limited Filtering capacity Depth to saturated zone Droughty	1.00 0.43 0.01	Very limited Filtering capacity Depth to saturated zone Droughty	1.00 0.43 0.01	Very limited Filtering capacity Depth to saturated zone Droughty	1.00 0.43 0.01
236B: Lester-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
236C2: Lester-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
236D2: Lester-----	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 0.77
236F: Lester-----	90	Very limited Slope	1.00	Very limited Slope	1.00	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
						Too steep for sprinkler application	1.00
259: Biscay-----	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
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
274: Rolfe-----	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	Restricted permeability	1.00	Restricted permeability	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07
288: Ottoesen-----	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
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
308: Wadena-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
308B: Wadena-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.08
335: Harcot-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	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
348: Fieldon-----	85	Leaching limitation	0.70				
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
384: Collinwood-----	95	Leaching limitation	0.70				
		Somewhat limited		Somewhat limited		Somewhat limited	
		Restricted permeability	0.89	Restricted permeability	0.78	Restricted permeability	0.78
384B: Collinwood-----	95	Depth to saturated zone	0.09	Depth to saturated zone	0.09	Depth to saturated zone	0.09
		Somewhat limited		Somewhat limited		Somewhat limited	
		Restricted permeability	0.89	Restricted permeability	0.78	Restricted permeability	0.78
388: Kossuth-----	95	Depth to saturated zone	0.09	Depth to saturated zone	0.09	Depth to saturated zone	0.09
		Too steep for surface application					0.08
		Very limited		Very limited		Very limited	
390: Waldorf-----	95	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
390: Waldorf-----	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.89	Restricted permeability	0.78	Restricted permeability	0.78
		Leaching limitation	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
485B: Spillville-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
506: Wacousta-----	95	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
507: Canisteo-----	95	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
511: Blue Earth-----	100	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
524: Linder-----	95	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43
562D2: Storden-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.77
562E2: Storden-----	95	Very limited Slope	1.00	Very limited Slope	1.00	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		
562F2: Storden-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Too steep for sprinkler application	1.00		
						Very limited	Very limited	Too steep for surface application	1.00
								Too steep for sprinkler application	1.00
621: Houghton-----	100	Very limited Depth to saturated zone Low adsorption Leaching limitation Too acid	1.00 1.00 0.90 0.02	Very limited Depth to saturated zone Low adsorption Too acid	1.00 1.00 0.07	Very limited			
						Depth to saturated zone	Depth to saturated zone	Depth to saturated zone	1.00
						Low adsorption	Low adsorption	Low adsorption	1.00
						Leaching limitation	Too acid	Too acid	0.07
640C2: Sunburg-----	90	Not limited		Not limited		Somewhat limited			
						Too steep for surface application	0.91		
						Too steep for sprinkler application	0.02		
640D2: Sunburg-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited			
						Too steep for surface application	1.00		
						Too steep for sprinkler application	0.77		
640E2: Sunburg-----	90	Very limited Slope	1.00	Very limited Slope	1.00	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
						Too steep for sprinkler application	1.00
640F2: Sunburg-----	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
641B: Clarion-----	60	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
Sunburg-----	40	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
641C2: Clarion-----	60	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
Sunburg-----	40	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
641D2: Clarion-----	55	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
						Too steep for sprinkler application	0.77
Sunburg-----	45	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
641E2: Clarion-----	55	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
Sunburg-----	45	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
642D2: Sunburg-----	55	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
Salida-----	40	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	1.00	Droughty	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Droughty	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Leaching limitation	0.45			Too steep for sprinkler application	0.77
654: Corwith-----	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
655: Crippin-----	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
658: Mayer-----	95	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
659: Mayer-----	95	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
787B: Vinje-----	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
787C2: Vinje-----	95	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application Restricted permeability	0.91 0.22

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
811: Muskego-----	100	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.90	Very limited Depth to saturated zone Low adsorption Restricted permeability	1.00 1.00 1.00	Too steep for sprinkler application Very limited Depth to saturated zone Restricted permeability	0.02 1.00 1.00
823: Ridgeport-----	100	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty	1.00 0.93
823B: Ridgeport-----	100	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty	1.00 0.93	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.93 0.08
836B: Kilkenny-----	100	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
836C2: Kilkenny-----	95	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	0.91 0.22 0.02

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
836E2: Kilkenny-----	95	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted permeability	0.97 0.22
879: Fostoria-----	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
956: Harps-----	55	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Okoboji-----	35	Very limited Depth to saturated zone Leaching limitation Restricted permeability	1.00 0.70 0.30	Very limited Depth to saturated zone Restricted permeability	1.00 0.22	Very limited Depth to saturated zone Restricted permeability	1.00 0.22
1032: Spicer-----	95	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
1052B: Bode-----	60	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
Kamrar-----	35	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited 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
						Too steep for surface application	0.08
1135: Coland-----	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
		Leaching limitation	0.70				
1221: Palms-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Low adsorption	1.00	Low adsorption	1.00	Low adsorption	1.00
		Leaching limitation	0.90				
1259: Biscay-----	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
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
1339: Truman-----	100	Not limited		Not limited		Not limited	
1339B: Truman-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
1506: Wacousta-----	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
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
1507: Brownnton-----	95	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
		Restricted permeability	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Leaching limitation	0.50				
1595: Harpster-----	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
		Leaching limitation	0.70				
1733: Calco-----	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
		Leaching limitation	0.70				
2222: Adrian-----	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
		Filtering capacity	1.00	Low adsorption	1.00	Filtering capacity	1.00
		Leaching limitation	0.90	Filtering capacity	1.00	Too acid	0.07
		Too acid	0.02	Too acid	0.07	Low adsorption	0.01
		Low adsorption	0.01				
4000: Urban Land-----	100	Not rated		Not rated		Not rated	
5010: Pits-----	100	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5040: Orthents-----	90	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	