

Agricultural Waste Management

Dickinson 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-----	85	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				
Calcareous-----	15	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Low adsorption	1.00
		Low adsorption	1.00	Low adsorption	1.00	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
27B: Terril-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
27C: Terril-----	97	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
28B: Dickman-----	85	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Leaching limitation	0.45	Droughty	0.01	Too steep for surface application	0.08
		Droughty	0.01			Droughty	0.01
Bolan-----	15	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08

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32: 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
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
62C2: Storden-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
62D: 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
62D2: 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
62E: Storden-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application	1.00 1.00

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62G: Storden-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
72: Estherville-----	90	Very limited Filtering capacity Droughty	1.00 0.33	Very limited Filtering capacity Droughty	1.00 0.33	Very limited Filtering capacity Droughty	1.00 0.33
72B: Estherville-----	90	Very limited Filtering capacity Droughty	1.00 0.37	Very limited Filtering capacity Droughty	1.00 0.37	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.37 0.08
72C2: Estherville-----	100	Very limited Filtering capacity Droughty Slope	1.00 0.45 0.16	Very limited Filtering capacity Droughty Slope	1.00 0.45 0.16	Very limited Too steep for surface application Filtering capacity Droughty Too steep for sprinkler application	1.00 1.00 0.45 0.39
73D: Salida-----	100	Very limited Filtering capacity Droughty Leaching limitation	1.00 1.00 0.45	Very limited Droughty Filtering capacity Slope	1.00 1.00 0.16	Very limited Droughty Filtering capacity Too steep for surface application	1.00 1.00 1.00

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		Slope	0.16			Too steep for sprinkler application	0.39
73E: Salida-----	100	Very limited Filtering capacity	1.00	Very limited Droughty	1.00	Very limited Droughty	1.00
		Droughty	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Leaching limitation	0.45			Too steep for sprinkler application	1.00
73G: Salida-----	100	Very limited Slope	1.00	Very limited Droughty	1.00	Very limited Droughty	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	1.00	Slope	1.00	Too steep for surface application	1.00
		Leaching limitation	0.45			Too steep for sprinkler application	1.00
77B: Sac-----	98	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
91: Primghar-----	99	Not limited		Not limited		Not limited	
91B: Primghar-----	98	Not limited		Not limited		Somewhat limited Too steep for surface application	0.01
92: Marcus-----	97	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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95: Harps-----	95	Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
107: Webster-----	99	Leaching limitation	0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Very limited Depth to saturated zone	1.00				
108: Wadena-----	95	Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	0.01				
108B: Wadena-----	95	Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	0.01				
108C: Wadena-----	85	Droughty	0.01	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Very limited Filtering capacity	1.00				
135: Coland-----	90	Too steep for sprinkler application	0.02	Very limited		Very limited	
		Droughty	0.01				

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		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
138B: Clarion-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
138C: Clarion-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
138C2: Clarion-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
138D: Clarion-----	100	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
138D2: Clarion-----	100	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
201B: Coland-----	70	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 Too steep for surface application	1.00 0.60 0.01
Spillville-----	28	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
202: Cylinder-----	99	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
203: Cylinder-----	99	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
259: Biscay-----	99	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
274: Rolfe-----	100	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.02	Very limited Depth to saturated zone Restricted permeability Too acid	1.00 1.00 0.07	Very limited Depth to saturated zone Restricted permeability Too acid	1.00 1.00 0.07
282: Ransom-----	98	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Restricted permeability	0.22

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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 Too steep for surface application	0.08
330: Kingston-----	99	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02
331: Madelia-----	98	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
384: Collinwood-----	98	Somewhat limited Restricted permeability Depth to saturated zone	0.89 0.09	Somewhat limited Restricted permeability Depth to saturated zone	0.78 0.09	Somewhat limited Restricted permeability Depth to saturated zone	0.78 0.09
390: Waldorf-----	95	Very limited Depth to saturated zone Restricted permeability Leaching limitation	1.00 0.89 0.50	Very limited Depth to saturated zone Restricted permeability	1.00 0.78	Very limited Depth to saturated zone Restricted permeability	1.00 0.78
397: Letri-----	94	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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456: Wilmington-----	93	Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
		Somewhat limited Restricted permeability	0.30				
		Depth to saturated zone	0.02	Depth to saturated zone	0.02	Depth to saturated zone	0.02
474B: Bolan-----	92	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
474C2: Bolan-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
485: Spillville-----	93	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
485B: Spillville-----	88	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
507: Canisteeo-----	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				

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511: Blue Earth-----	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
559: Talcot-----	100	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
577: Everly-----	100	Not limited		Not limited		Not limited	
577B: Everly-----	93	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
577C2: Everly-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
655: Crippin-----	90	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
733: Calco-----	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

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878: Ocheyedan-----	95	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too acid	0.07
878B: Ocheyedan-----	92	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
879: Fostoria-----	93	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
1202: Cylinder Variant----	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
1384B: Collinwood Variant--	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
1384C: Collinwood Variant--	100	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	0.91 0.22 0.02
1458: Millington-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00

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1511: Blue Earth-----	100	Leaching limitation	0.70				
		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				
5010: 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	