

Agricultural Waste Management

Howard 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
21: Muck-----	95	Very limited Depth to saturated zone Leaching limitation Low adsorption	1.00 0.90 0.01	Very limited Depth to saturated zone Low adsorption	1.00 1.00	Very limited Depth to saturated zone Low adsorption  Too steep for surface application	1.00 0.01 0.01
27A: Terril-----	100	Not limited		Not limited		Not limited	
27B: Terril-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
41A: Sparta-----	100	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.26	Very limited Filtering capacity Droughty	1.00 0.26	Very limited Filtering capacity Droughty	1.00 0.26
41B: Sparta-----	100	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.26	Very limited Filtering capacity Droughty	1.00 0.26	Very limited Filtering capacity Droughty  Too steep for surface application	1.00 0.26 0.08
41C: Sparta-----	100	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.26	Very limited Filtering capacity Droughty	1.00 0.26	Very limited Filtering capacity Too steep for surface application Droughty	1.00 0.91 0.26

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
83B: Kenyon-----	100	Not limited		Not limited		Too steep for sprinkler application	0.02
						Somewhat limited Too steep for surface application	0.08
83C: Kenyon-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
83C2: Kenyon-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
84: Clyde-----	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
96: Turlin Variant-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
109B: Backbone-----	100	Somewhat limited Droughty Depth to bedrock	0.86 0.46	Somewhat limited Droughty Depth to bedrock	0.86 0.46	Somewhat limited Droughty Depth to bedrock Too steep for surface application	0.86 0.46 0.08

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
109C: Backbone-----	100	Somewhat limited Droughty	0.86	Somewhat limited Droughty	0.86	Somewhat limited Too steep for surface application	0.91
		Depth to bedrock	0.46	Depth to bedrock	0.46	Droughty Depth to bedrock Too steep for sprinkler application	0.86 0.46 0.02
110A: Lamont-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07
110B: Lamont-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid	0.08 0.07
110C: Lamont-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
133: Colo-----	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				
136A: Ankeny-----	100	Very limited		Very limited		Very limited	

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148A: Winneshiek Variant--	100	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
152: Marshan-----	100	Too acid	0.01	Too acid	0.03	Too acid	0.03
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
153: Marshan-----	100	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
		Very limited		Very limited		Very limited	
162B: Downs-----	100	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
		Leaching limitation	0.70				
162C: Downs-----	100	Somewhat limited		Somewhat limited		Somewhat limited	
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07
162C2: Downs-----	100	Somewhat limited		Somewhat limited		Somewhat limited	
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07
						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
162D2: Downs-----	100	Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
162E2: Downs-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	1.00
						Too steep for surface application	
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
163C: Fayette-----	100					Too acid	0.07
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	1.00
163D: Fayette-----	100					Too steep for sprinkler application	1.00
		Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Too acid	0.07
						Too steep for sprinkler application	0.02
163D: Fayette-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	1.00
						Too steep for surface application	
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163E: Fayette-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application Too acid	0.07
163F: Fayette-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application Too acid	0.07
171A: Bassett-----	100	Very limited Depth to dense layer	1.00	Somewhat limited Too acid	0.07	Somewhat limited Too acid	0.07
		Too acid	0.02				
171B: Bassett-----	100	Very limited Depth to dense layer	1.00	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.08
		Too acid	0.02			Too acid	0.07
171C: Bassett-----	100	Very limited Depth to dense layer	1.00	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.91
		Too acid	0.02			Too acid Too steep for sprinkler application	0.07 0.02
171C2: Bassett-----	100	Very limited Depth to dense layer	1.00	Somewhat limited Too acid	0.07	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 acid	0.02			Too acid Too steep for sprinkler application	0.07 0.02
175A: Dickinson-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
175B: Dickinson-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
177A: Saude-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
177B: Saude-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
178A: Waukee-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
178B: Waukee-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
195B: Huntsville-----	50	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Radford-----	45	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Flooding Depth to saturated zone	1.00 1.00	Too steep for surface application	0.08
						Very limited Depth to saturated zone Flooding	1.00 0.60
						Too steep for surface application	0.08
198B: Floyd-----	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
						Too steep for surface application	0.01
207B: Whalan-----	100	Somewhat limited Restricted permeability Depth to bedrock Droughty	0.89 0.46 0.04	Somewhat limited Restricted permeability Depth to bedrock Droughty	0.78 0.46 0.04	Somewhat limited Restricted permeability	0.78
						Depth to bedrock	0.46
						Too steep for surface application	0.08
						Droughty	0.04
207C: Whalan-----	100	Somewhat limited Restricted permeability Depth to bedrock Droughty	0.89 0.46 0.04	Somewhat limited Restricted permeability Depth to bedrock Droughty	0.78 0.46 0.04	Somewhat limited Too steep for surface application	0.91
						Restricted permeability	0.78
						Depth to bedrock	0.46
						Droughty	0.04
213A: Rockton-----	100	Somewhat limited Depth to bedrock Too acid	0.46 0.02	Somewhat limited Depth to bedrock Too acid	0.46 0.07	Somewhat limited Depth to bedrock	0.46
						Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
213B: Rockton-----	100	Droughty	0.01	Droughty	0.01	Droughty	0.01
		Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
213C: Rockton-----	100	Droughty	0.01	Droughty	0.01	Too acid	0.07
		Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Droughty	0.01
		Too acid	0.02	Too acid	0.07	Somewhat limited Too steep for surface application	0.91
214A: Rockton-----	100	Droughty	0.01	Droughty	0.01	Depth to bedrock	0.46
		Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Too steep for surface application	0.46
		Too acid	0.02	Too acid	0.07	Depth to bedrock	0.46
214B: Rockton-----	100	Droughty	0.01	Droughty	0.01	Too acid	0.07
		Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Too steep for sprinkler application	0.02
		Too acid	0.02	Too acid	0.07	Droughty	0.01
214C: Rockton-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46
		Droughty	0.10	Droughty	0.10	Too steep for surface application	0.08
		Too acid	0.02	Too acid	0.07	Too acid	0.07
214C: Rockton-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Somewhat limited Too steep for surface application	0.91
		Droughty	0.10	Droughty	0.10	Depth to bedrock	0.46
		Too acid	0.02	Too acid	0.07	Droughty	0.10
214C: Rockton-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Too acid	0.07
		Droughty	0.10	Droughty	0.10	Depth to bedrock	0.46
		Too acid	0.02	Too acid	0.07	Droughty	0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value				
214C2: Rockton-----	100	Somewhat limited Depth to bedrock	0.46	Somewhat limited Depth to bedrock	0.46	Too steep for sprinkler application	0.02				
						Droughty Too acid	0.17 0.02	Droughty Too acid	0.17 0.07	Somewhat limited	
										Too steep for surface application	0.91
										Depth to bedrock	0.46
Droughty	0.17	Droughty	0.17	Too steep for sprinkler application	0.02						
Droughty	0.02	Too acid	0.07	Too steep for sprinkler application	0.02						
221: Muck-----	95	Very limited Depth to saturated zone Leaching limitation Low adsorption	1.00 0.90 0.01	Very limited Depth to saturated zone Low adsorption	1.00 1.00	Very limited					
						Depth to saturated zone	1.00	Depth to saturated zone	1.00		
								Low adsorption	0.01		
								Too steep for surface application	0.01		
225: Lawler-----	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	1.00	Filtering capacity	1.00		
								Depth to saturated zone	0.43		
226: Lawler-----	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	1.00	Filtering capacity	1.00		
								Depth to saturated zone	0.43		
284A: Saude-----	100	Very limited Filtering capacity Droughty	1.00 0.22	Very limited Filtering capacity Droughty	1.00 0.22	Very limited					
						Filtering capacity	1.00	Filtering capacity	1.00		
								Droughty	0.22		
284B: Saude-----	100	Very limited		Very limited		Very limited					

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285C: Burkhardt-----	100	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	0.22	Droughty	0.22	Droughty	0.22
		Too steep for surface application		Too steep for surface application		Too steep for surface application	0.08
302B: Coggon-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.66
						Too acid	0.07
303B: Pinicon-----	95	Too steep for sprinkler application		Too steep for sprinkler application		Too steep for sprinkler application	0.01
		Somewhat limited		Somewhat limited		Somewhat limited	
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
315: Colo-----	50	Too acid	0.08	Too acid	0.31	Too acid	0.31
		Somewhat limited		Somewhat limited		Too steep for surface application	0.01
		Depth to saturated zone	0.95	Depth to saturated zone	0.95	Depth to saturated zone	0.95
Alluvial Land-----	40	Leaching limitation	0.70	Leaching limitation		Leaching limitation	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Not rated		Not rated		Not rated	

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354: Marsh-----	95	Not rated		Not rated		Not rated	
391B: Clyde-----	60	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
Floyd-----	40	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone Too steep for surface application	0.43 0.01
394A: Ostrander-----	100	Not limited		Not limited		Not limited	
394B: Ostrander-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
394C: Ostrander-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
394C2: Ostrander-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
398: Tripoli-----	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
399A: Readlyn-----	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 acid	0.43 0.07
399B: Readlyn-----	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
407B: Schley-----	95	Very limited Depth to saturated zone Too acid	1.00 0.08	Very limited Depth to saturated zone Too acid	1.00 0.31	Very limited Depth to saturated zone Too acid Too steep for surface application	1.00 0.31 0.01
412B: Sogn-----	100	Very limited Depth to bedrock Droughty Runoff limitation	1.00 1.00 0.40	Very limited Droughty Depth to bedrock	1.00 1.00	Very limited Droughty Depth to bedrock Too steep for surface application	1.00 1.00 0.08
412D: Sogn-----	100	Very limited Depth to bedrock Droughty Runoff limitation	1.00 1.00 0.40	Very limited Droughty Depth to bedrock Slope	1.00 1.00 0.16	Very limited Droughty Depth to bedrock Too steep for surface application	1.00 1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
412F: Sogn-----	100	Slope	0.16			Too steep for sprinkler application	0.39
		Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Droughty	1.00	Droughty	1.00
		Droughty	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
444: Jacwin-----	95	Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Runoff limitation	0.40			Too steep for sprinkler application	1.00
		Somewhat limited		Somewhat limited		Somewhat limited	
467: Radford-----	95	Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Very limited		Very limited		Very limited	
471A: Oran-----	95	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
471B: Oran-----	95	Somewhat limited		Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
482A: Racine-----	100	Too acid	0.02	Too acid	0.07	Too acid	0.07
		Somewhat limited		Somewhat limited		Somewhat limited	
482B: Racine-----	100	Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
482C: Racine-----	100	Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid	0.08 0.07
		Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
482C2: Racine-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
485: Spillville-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
491B: Renova-----	100	Somewhat limited Too acid	0.03	Somewhat limited Too acid	0.14	Somewhat limited Too acid Too steep for surface application	0.14 0.08
575B: Dickinson-----	50	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
Ostrander-----	30	Not limited		Not limited		Somewhat limited	

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576B: Dickinson-----	50	Very limited Filtering capacity Droughty	1.00 0.05	Very limited Filtering capacity Droughty	1.00 0.05	Too steep for surface application	0.08	
						Very limited Filtering capacity Droughty	1.00 0.08	
						Very limited Filtering capacity Droughty	1.00 0.05	
Racine-----	30	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	
						Somewhat limited Too steep for surface application Too acid	0.08 0.07	
585: Spillville-----	50	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60	
Colo-----	30	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	
							Very limited Depth to saturated zone Flooding	1.00 0.60
							Very limited Depth to saturated zone Flooding	1.00 0.60
615: Spillville-----	50	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00	
Colo-----	30	Very limited Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.70	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
							Very limited Depth to saturated zone Flooding	1.00 1.00
620B: Port Byron-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08	

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621: Muck-----	95	Very limited Depth to saturated zone Low adsorption Leaching limitation	1.00 1.00 0.90	Very limited Depth to saturated zone Low adsorption	1.00 1.00	Very limited Depth to saturated zone Low adsorption	1.00 1.00
713A: Winneshiek-----	100	Somewhat limited Depth to bedrock Droughty	0.46 0.02	Somewhat limited Depth to bedrock Droughty	0.46 0.02	Somewhat limited Depth to bedrock Droughty	0.46 0.02
713B: Winneshiek-----	100	Somewhat limited Depth to bedrock Droughty	0.46 0.02	Somewhat limited Depth to bedrock Droughty	0.46 0.02	Somewhat limited Depth to bedrock Too steep for surface application Droughty	0.46 0.08 0.02
713C: Winneshiek-----	100	Somewhat limited Depth to bedrock  Droughty	0.46 0.02	Somewhat limited Depth to bedrock  Droughty	0.46 0.02	Somewhat limited Too steep for surface application Depth to bedrock Too steep for sprinkler application Droughty	0.91 0.46 0.02 0.02
714A: Winneshiek-----	100	Very limited Restricted permeability Depth to bedrock Droughty	1.00 0.46 0.24	Very limited Restricted permeability Depth to bedrock Droughty	1.00 0.46 0.24	Very limited Restricted permeability Depth to bedrock Droughty	1.00 0.46 0.24
714B: Winneshiek-----	100	Very limited Restricted permeability Depth to bedrock Droughty	1.00 0.46 0.24	Very limited Restricted permeability Depth to bedrock Droughty	1.00 0.46 0.24	Very limited Restricted permeability Depth to bedrock Droughty	1.00 0.46 0.24

Agricultural Waste Management

Howard 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		
714C: Winneshiek-----	100	Very limited Restricted permeability Depth to bedrock	1.00 0.46	Very limited Restricted permeability Depth to bedrock	1.00 0.46	Too steep for surface application	0.08		
						Droughty	Droughty	Very limited Restricted permeability	1.00
								Too steep for surface application	0.91
								Depth to bedrock Droughty Too steep for sprinkler application	0.46 0.24 0.02
714C2: Winneshiek-----	100	Very limited Restricted permeability Depth to bedrock	1.00 0.46	Very limited Restricted permeability Depth to bedrock	1.00 0.46	Very limited Restricted permeability	1.00		
						Droughty	Droughty	Too steep for surface application	0.91
								Depth to bedrock Droughty	0.46 0.27
								Too steep for sprinkler application	0.02
714D: Winneshiek-----	100	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00		
						Droughty	Droughty	Slope	1.00
								Depth to bedrock	0.77
								Too steep for sprinkler application Depth to bedrock Droughty	0.46 0.46 0.24
715: Colo-----	60	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00		

Agricultural Waste Management

Howard 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
Alluvial Land-----	30	Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
		Not rated					
725: Hayfield-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Depth to saturated zone	0.02				
		Very limited Filtering capacity	1.00				
Depth to saturated zone	0.02						
726: Hayfield-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Depth to saturated zone	0.02				
		Very limited Filtering capacity	1.00				
Depth to saturated zone	0.02						
776A: Lilah-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	1.00				
		Leaching limitation	0.45				
		Too acid	0.02				
776C: Lilah-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	1.00				
		Leaching limitation	0.45				
		Too acid	0.02				
		Too steep for surface application	0.07				
Too acid	0.07						
Too steep for sprinkler application	0.01						
776D: Lilah-----	100	Very limited		Very limited		Very limited	

Agricultural Waste Management

Howard 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
777A: Wapsie-----	100	Filtering capacity	1.00	Filtering capacity	1.00	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
		Leaching limitation	0.45	Too acid	0.07	Too steep for sprinkler application	0.77
		Too acid	0.02			Too acid	0.07
777B: Wapsie-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
777C: Wapsie-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
778A: Sattre-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
781B: Lourdes-----	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

Agricultural Waste Management

Howard 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
781C: Lourdes-----	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
782A: Donnan-----	95	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.86 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.86 0.07	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.86 0.07
782B: Donnan-----	95	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.86 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.86 0.07	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid	1.00 0.86 0.08 0.07
783B: Cresco-----	100	Somewhat limited Restricted permeability Too acid	0.30 0.02	Somewhat limited Restricted permeability Too acid	0.22 0.07	Somewhat limited Restricted permeability Too steep for surface application Too acid	0.22 0.08 0.07
783C: Cresco-----	100	Somewhat limited Restricted permeability Too acid	0.30 0.02	Somewhat limited Restricted permeability Too acid	0.22 0.07	Somewhat limited Too steep for surface application Restricted permeability Too acid	0.91 0.22 0.07

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Howard 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
784B: Riceville-----	95	Somewhat limited		Somewhat limited		Too steep for sprinkler application	0.02
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Somewhat limited	
		Restricted permeability	0.30	Too acid	0.31	Depth to saturated zone	0.43
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
797: Jameston-----	100	Very limited		Very limited		Restricted permeability	0.22
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for surface application	0.01
		Leaching limitation	0.50	Restricted permeability	0.22	Very limited	
		Restricted permeability	0.30	Very limited		Depth to saturated zone	1.00
798B: Protivin-----	95	Somewhat limited		Somewhat limited		Restricted permeability	0.22
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too acid	0.07
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	0.01
		Too acid	0.02	Too acid	0.07		