

Agricultural Waste Management

Carroll 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
1C3: Ida-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
1D3: Ida-----	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
5B: Ackmore-----	60	Very limited Depth to saturated zone Flooding	1.00 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
Judson-----	25	Not limited		Not limited		Somewhat limited Too steep for surface application	0.01
6: Okoboji-----	90	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
8B: Judson-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8C: Judson-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
9: Marshall-----	95	Not limited		Not limited		Not limited	
9B: Marshall-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
9B2: Marshall-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
9C: Marshall-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
9C2: Marshall-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
9D2: Marshall-----	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
						Too steep for sprinkler application	0.77
9E2: Marshall-----	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
11B: Colo-----	60	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
Judson-----	25	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
27B: Terril-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
27C: Terril-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
28B: Dickman-----	95	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Filtering capacity Too acid	1.00 0.14	Very limited Filtering capacity Too acid	1.00 0.14

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
28B2: Dickman-----	95	Too acid	0.03	Droughty	0.01	Too steep for surface application	0.08
		Droughty	0.01			Droughty	0.01
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Leaching limitation	0.45	Too acid	0.14	Too acid	0.14
		Too acid	0.03	Droughty	0.01	Too steep for surface application	0.08
28C2: Dickman-----	90	Droughty	0.01			Droughty	0.01
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Leaching limitation	0.45	Too acid	0.14	Too steep for surface application	0.91
		Too acid	0.03	Droughty	0.01	Too acid	0.14
		Droughty	0.01			Too steep for sprinkler application	0.02
28D2: Dickman-----	90					Droughty	0.01
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Filtering capacity	1.00
		Leaching limitation	0.45	Too acid	0.14	Too steep for sprinkler application	0.77
		Too acid	0.03	Droughty	0.01	Too acid	0.14
34B: Estherville-----	85	Droughty	0.01			Droughty	0.01
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	0.86	Droughty	0.86	Droughty	0.86

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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
34C2: Estherville-----	85	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	0.86	Droughty	0.86	Too steep for surface application	0.91
						Droughty	0.86
						Too steep for sprinkler application	0.02
48: Knoke-----	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
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
54: Zook-----	85	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				
55: Nicollet-----	85	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02	Somewhat limited Depth to saturated zone	0.02
59C2: Burchard-----	90	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application	0.91
						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		
59D2: Burchard-----	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
						Restricted permeability	0.30	Restricted permeability	0.22
59E2: Burchard-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Restricted permeability	0.22		
						Very limited		Too steep for sprinkler application	0.22
						Very limited		Too steep for surface application	1.00
59F2: Burchard-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Too steep for sprinkler application	1.00		
						Very limited		Restricted permeability	0.22
						Very limited		Too steep for surface application	1.00
62C2: Storden-----	85	Not limited		Not limited		Restricted permeability	0.22		
						Very limited		Too steep for sprinkler application	0.22
						Somewhat limited		Too steep for surface application	0.91
62D2: Storden-----	85	Somewhat limited		Somewhat limited		Too steep for sprinkler application	0.02		
						Very limited			

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Slope	0.63	Slope	0.63	Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
62E2: Storden-----	85	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
62F: Storden-----	85	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
62G: Storden-----	85	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
71D2: Marshall-----	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
Dickman-----	30	Very limited Filtering capacity	1.00	Very limited Filtering capacity	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
90: Okoboji-----	90	Slope	0.63	Slope	0.63	Filtering capacity	1.00
		Leaching limitation	0.45	Too acid	0.14	Too steep for sprinkler application	0.77
		Too acid	0.03	Droughty	0.01	Too acid	0.14
		Droughty	0.01			Droughty	0.01
		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				
95: Harps-----	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
		Leaching limitation	0.70				
99C2: Exira-----	90	Somewhat limited Too acid	0.03	Somewhat limited Too acid	0.14	Somewhat limited Too steep for surface application	0.91
						Too acid	0.14
						Too steep for sprinkler application	0.02
99D2: Exira-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Too acid	0.03	Too acid	0.14	Too steep for sprinkler application	0.77
						Too acid	0.14
99E2: Exira-----	85	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Too acid	0.03	Too acid	0.14	Too steep for sprinkler application	1.00
						Too acid	0.14
107: Webster-----	85	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
108: Wadena-----	85	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
108B: Wadena-----	85	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
108C2: Wadena-----	85	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	1.00  0.91  0.02
133: Colo-----	85	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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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133+: Colo-----	85	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
135: Coland-----	85	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-----	85	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
138B2: Clarion-----	85	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
138C: Clarion-----	90	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
138C2: Clarion-----	85	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.91 0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
138D2: Clarion-----	85					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	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07
179E2: Gara-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
179F: Gara-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
179F2: Gara-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						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
179G: Gara-----	90					Too acid	0.07
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22 0.07
192D2: Adair-----	85	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
201B: Coland-----	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
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
Spillville-----	25	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
203: Cylinder-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
236C: Lester-----	90	Somewhat limited Too acid	0.03	Somewhat limited Too acid	0.14	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91  0.14 0.02
259: Biscay-----	85	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
268C: Knox-----	90	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
268D2: Knox-----	85	Somewhat limited Slope  Too acid	0.63  0.02	Somewhat limited Slope  Too acid	0.63  0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00  0.77 0.07
268E2: Knox-----	85	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	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
						Too acid	0.07
308: Wadena-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
308B: Wadena-----	90	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
430: Ackmore-----	85	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
485: Spillville-----	85	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
485B: Spillville-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
507: Canisteo-----	90	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
509B: Marshall-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.31
559: Talcot-----	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
638C2: Clarion-----	70	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
Storden-----	25	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.91
638D2: Clarion-----	60	Not limited		Not limited		Too steep for sprinkler application	0.02
Storden-----	25	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.91
638D2: Clarion-----	60	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.02
						Too steep for surface application	1.00
Storden-----	35	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.77
						Too steep for surface application	1.00
639C: Salida-----	40	Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	1.00	Droughty	1.00	Droughty	1.00
		Leaching limitation	0.45			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				
Storden-----	30	Not limited		Not limited		Too steep for sprinkler application	0.02				
						Somewhat limited		Too steep for surface application	0.91		
								Too steep for sprinkler application	0.02		
639D: Salida-----	40	Very limited		Very limited		Very limited					
								Filtering capacity	1.00	Filtering capacity	1.00
								Droughty	1.00	Droughty	1.00
										Too steep for surface application	1.00
		Slope	0.84	Slope	0.84	Droughty	1.00				
		Leaching limitation	0.45			Too steep for sprinkler application	0.89				
Storden-----	30	Somewhat limited		Somewhat limited		Very limited					
								Slope	0.84	Slope	0.84
										Too steep for surface application	1.00
						Too steep for sprinkler application	0.89				
733: Calco-----	85	Very limited		Very limited		Very limited					
								Depth to saturated zone	1.00	Depth to saturated zone	1.00
								Leaching limitation	0.70	Flooding	1.00
		Flooding	0.60								
822D3: Lamoni-----	90	Very limited		Very limited		Very limited					
								Restricted permeability	1.00	Restricted permeability	1.00
								Depth to saturated zone	1.00	Depth to saturated zone	1.00
						Too steep for surface application	1.00				
						Restricted permeability	1.00				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07
823: Ridgeport-----	85	Very limited Filtering capacity Droughty	1.00 0.86	Very limited Filtering capacity Droughty	1.00 0.86	Very limited Filtering capacity Droughty	1.00 1.00 0.86
924D2: Burchard-----	60	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
						Restricted permeability	0.22
Adair-----	25	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 Too steep for surface application	1.00 1.00 1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
						Too steep for sprinkler application	0.77
924E2: Burchard-----	70	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
Adair-----	20	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
993D2: Gara-----	70	Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for sprinkler application	1.00
						Depth to saturated zone	1.00
Armstrong-----	25	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	0.77
						Too steep for sprinkler application	0.22
						Restricted permeability	
993E2: Gara-----	70	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
						Too steep for sprinkler application	0.77
993E2: Gara-----	70	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
						Too steep for sprinkler application	0.22
						Restricted permeability	
Armstrong-----	25	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
2315: Fluvaquents-----	85	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
						Too steep for sprinkler application	0.77
		Very limited Slope	1.00	Very limited Droughty	1.00	Very limited Droughty	1.00
		Not Rated (miscellaneous unit)	1.00	Not Rated (miscellaneous unit)	1.00	Not Rated (miscellaneous unit)	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding Droughty	1.00 1.00	Slope Flooding	1.00 1.00	Flooding Too steep for surface application	1.00 1.00
5010: Pits-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Very limited Slope	1.00	Very limited Not Rated (miscellaneous unit)	1.00	Very limited Not Rated (miscellaneous unit)	1.00
		Not Rated (miscellaneous unit)	1.00	Slope	1.00	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