

Agricultural Waste Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Palo Alto 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-----	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
34: Estherville-----	90	Very limited Filtering capacity Droughty	1.00 0.22	Very limited Filtering capacity Droughty	1.00 0.22	Very limited Filtering capacity Droughty	1.00 0.22
34B: Estherville-----	95	Very limited Filtering capacity Droughty	1.00 0.22	Very limited Filtering capacity Droughty	1.00 0.22	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.22 0.08
34C2: Estherville-----	100	Very limited Filtering capacity Droughty	1.00 0.22	Very limited Filtering capacity Droughty	1.00 0.22	Very limited Filtering capacity Too steep for surface application Droughty Too steep for sprinkler application	1.00 0.91 0.22 0.02
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
62C: Storden-----	90	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
62D: Storden-----	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
62E: 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
						Very limited Too steep for surface application	1.00
62F: 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
						Very limited Too steep for surface application	1.00
72: Estherville-----	90	Very limited Filtering capacity Droughty	1.00	Very limited Filtering capacity Droughty	1.00	Very limited Filtering capacity Droughty	1.00
						Very limited Filtering capacity Droughty	0.04
						Very limited Filtering capacity Droughty	0.04
72B: Estherville-----	100	Very limited Filtering capacity Droughty	1.00	Very limited Filtering capacity Droughty	1.00	Very limited Filtering capacity Droughty	1.00
						Too steep for surface application	0.08
						Droughty	0.04
73C: Salida-----	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
		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	Slope	0.01	Too steep for surface application	1.00
		Slope	0.01			Too steep for sprinkler application	0.10
90: 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				
95: Harps-----	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				
107: Webster-----	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				
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				
133B: Colo-----	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
138B: Clarion-----	85	Not limited		Not limited		Too steep for surface application	0.01
						Somewhat limited Too steep for surface application	0.08
138C: Clarion-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
138C2: Clarion-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
138D2: Clarion-----	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
141: Watseka-----	95	Very limited Droughty Filtering capacity Depth to saturated zone	1.00 1.00 1.00	Very limited Droughty Filtering capacity Depth to saturated zone	1.00 1.00 1.00	Very limited Droughty Filtering capacity Depth to saturated zone	1.00 1.00 1.00
150: Hanska-----	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
172: Wabash-----	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				
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
181B: Clarion-----	50	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Runoff limitation	0.40				
		Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
181C2: Clarion-----	50	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
203: Cylinder-----	95	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
221: 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
		Leaching limitation	0.90	Low adsorption	1.00		
224: Linder-----	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
253C: Farrar-----	95	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Droughty	0.03	Droughty	0.03	Droughty	0.03
259: Biscay-----	95	Very limited Depth to dense layer	1.00	Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
274: Rolfe-----	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				
308: Wadena-----	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
324: Dickman-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
324B: Dickman-----	100	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	0.02	Droughty	0.02	Droughty	0.02
324B: Dickman-----	100	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
		Droughty	0.01	Droughty	0.01	Too steep for surface application Droughty	0.08 0.01
339: Truman-----	100	Not limited		Not limited		Not limited	
339B: Truman-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
354: Marsh-----	95	Not rated		Not rated		Not rated	
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
485: Spillville-----	95	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
506: Wacousta-----	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

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
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-----	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-----	90	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
585B: Colo-----	75	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 0.08
638B: Clarion-----	50	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
639C: Storden-----	50	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
639D: Storden-----	50	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
639E: Storden-----	50	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
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-----	90	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
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
823: Flagler Variant----	100	Very limited Filtering capacity Droughty	1.00  0.78	Very limited Filtering capacity Droughty	1.00  0.78	Very limited Filtering capacity Droughty	1.00  0.78
823B: Flagler Variant----	100	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
895: Mayer-----	90	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Droughty	0.78	Droughty	0.78	Droughty	0.78
						Too steep for surface application	0.08
C485: Spillville-----	90	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
T6: Okoboji-----	90	Leaching limitation	0.70				
		Restricted permeability	0.30				
W: Water-----	100	Very limited		Very limited		Very limited	
		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
		Not rated		Not rated		Not rated	