

SANITARY FACILITIES
Shawnee County, Kansas

Sanitary Facilities

The following tables show the degree and kind of soil limitations that affect septic tank absorption fields, sewage lagoons, sanitary landfills, and daily cover for landfill. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. Slightly limited indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. Somewhat limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 60 inches is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Permeability, depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

Sewage lagoons are shallow ponds constructed to hold sewage while aerobic bacteria decompose the solid and liquid wastes. Lagoons should have a nearly level floor surrounded by cut slopes or embankments of compacted soil. Nearly impervious soil material for the lagoon floor and sides is required to minimize seepage and contamination of ground water. Considered in the ratings are slope, permeability, depth to a water table, ponding, depth to bedrock or a cemented pan, flooding, large stones, and content of organic matter.

Soil permeability is a critical property affecting the suitability for sewage lagoons. Most porous soils eventually become sealed when they are used as sites for sewage lagoons. Until sealing occurs, however, the hazard of pollution is severe. Soils that have a permeability rate of more than 2 inches per hour are too porous for the proper functioning of sewage lagoons. In these soils, seepage of the effluent can result in contamination of the ground water. Ground-water contamination is also a hazard if fractured bedrock is within a depth of 40 inches, if the water table is high enough to raise the level of sewage in the lagoon, or if floodwater overtops the lagoon.

A high content of organic matter is detrimental to proper functioning of the lagoon because it inhibits aerobic activity. Slope, bedrock, and cemented pans can cause construction problems, and large stones can hinder compaction of the lagoon floor. If the lagoon is to be uniformly deep throughout, the slope must be gentle enough and the soil material must be thick enough over bedrock or a cemented pan to make land smoothing practical.

A trench sanitary landfill is an area where solid waste is placed in successive layers in an excavated trench. The waste is spread, compacted, and covered daily with a thin layer of soil excavated at the site. When the trench is full, a final cover of soil material at least 2 feet thick is placed over the landfill. The ratings in the table are based on the soil properties that affect the risk of pollution, the ease of excavation, trafficability, and revegetation. These properties include permeability, depth to bedrock or a cemented pan, depth to a water table, ponding, slope, flooding, texture, stones and boulders, highly organic layers, soil reaction, and content of salts and sodium. Unless otherwise stated, the ratings apply only to that part of the soil within a depth of about 6 feet. For deeper trenches, onsite investigation may be needed.

Hard, nonrippable bedrock, creviced bedrock, or highly permeable strata in or directly below the proposed trench bottom can affect the ease of excavation and the hazard of ground-water pollution. Slope affects construction of the trenches and the movement of surface water around the landfill. It also affects the construction and performance of roads in areas of the landfill.

Soil texture and consistence affect the ease with which the trench is dug and the ease with which the soil can be used as daily or final cover. They determine the workability of the soil when dry and when wet. Soils that are plastic and sticky when wet are difficult to excavate, grade, or compact and are difficult to place as a uniformly thick cover over a layer of refuse.

The soil material used as the final cover for a trench landfill should be suitable for plants. It should not have excess sodium or salts and should not be too acid. The surface layer generally has the best workability, the highest content of organic matter, and the best potential for plants. Material from the surface layer should be stockpiled for use as the final cover.

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In an area sanitary landfill, solid waste is placed in successive layers on the surface of the soil. The waste is spread, compacted, and covered daily with a thin layer of soil from a source away from the site. A final cover of soil material at least 2 feet thick is placed over the completed landfill. The ratings in the table are based on the soil properties that affect trafficability and the risk of pollution. These properties include flooding, permeability, depth to a water table, ponding, slope, and depth to bedrock or a cemented pan.

Flooding is a serious problem because it can result in pollution in areas downstream from the landfill. If permeability is too rapid or if fractured bedrock, a fractured cemented pan, or the water table is close to the surface, the leachate can contaminate the water supply. Slope is a consideration because of the extra grading required to maintain roads in the steeper areas of the landfill. Also, leachate may flow along the surface of the soils in the steeper areas and cause difficult seepage problems.

Daily cover for landfill is the soil material that is used to cover compacted solid waste in an area sanitary landfill. The soil material is obtained offsite, transported to the landfill, and spread over the waste. The ratings in the table also apply to the final cover for a landfill. They are based on the soil properties that affect workability, the ease of digging, and the ease of moving and spreading the material over the refuse daily during wet and dry periods. These properties include soil texture, depth to a water table, ponding, rock fragments, slope, depth to bedrock or a cemented pan, reaction, and content of salts, sodium, or lime.

Loamy or silty soils that are free of large stones and excess gravel are the best cover for a landfill. Clayey soils may be sticky and difficult to spread; sandy soils are subject to wind erosion.

Slope affects the ease of excavation and of moving the cover material. Also, it can influence runoff, erosion, and reclamation of the borrow area.

After soil material has been removed, the soil material remaining in the borrow area must be thick enough over bedrock, a cemented pan, or the water table to permit revegetation. The soil material used as the final cover for a landfill should be suitable for plants. It should not have excess sodium, salts, or lime and should not be too acid.

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(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 potential limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
045OE: Oskaloosa-----	88	Very limited Restricted permeability Depth to bedrock	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 0.67
045SV: Sibleyville-----	50	Very limited Depth to bedrock Restricted permeability Slope	1.00 0.50 0.37	Very limited Depth to soft bedrock Slope Seepage	1.00 1.00 0.50
045SX: Rock Outcrop-----	60	Not rated		Not rated	
Vinland-----	26	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope Seepage	1.00 1.00 0.50
045VM: Vinland-----	40	Very limited Depth to bedrock Slope	1.00 0.37	Very limited Depth to soft bedrock Slope Seepage	1.00 1.00 0.50
Martin-----	25	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.04	Very limited Depth to saturated zone Slope	1.00 1.00
045WS: Woodson-----	90	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Somewhat limited Slope	0.00
085KB: Kennebec-----	86	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.50
085MC: Martin-----	48	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.00	Very limited Depth to saturated zone Slope	1.00 1.00
Vinland-----	40	Very limited Depth to bedrock Slope	1.00 0.00	Very limited Depth to soft bedrock Slope Seepage	1.00 1.00 0.50
085ZA: Zook-----	90	Very limited Flooding Restricted permeability Depth to saturated zone	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
087EC: Eudora-----	65	Very limited Flooding Restricted permeability	1.00 0.50	Very limited Flooding Seepage	1.00 0.50
Bismarckgrove-----	20	Very limited Flooding Restricted permeability	1.00 0.50	Very limited Flooding Seepage	1.00 0.50
087HC: Haig-----	85	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Not limited	

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Map symbol and soil name	Pct of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
087KV: Konawa-----	91	Somewhat limited Restricted permeability	0.50	Very limited Seepage Slope	1.00 1.00
087RS: Rossville-----	85	Somewhat limited Restricted permeability Flooding	0.50 0.20	Somewhat limited Seepage Flooding	0.50 0.20
087SO: Shelby-----	65	Very limited Restricted permeability Slope	1.00 0.16	Very limited Slope	1.00
Pawnee-----	25	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.16	Very limited Slope	1.00
087WC: Wabash-----	94	Very limited Restricted permeability Depth to saturated zone Flooding	1.00 1.00 0.20	Very limited Depth to saturated zone Flooding	1.00 0.20
139ED: Elmont-----	85	Very limited Restricted permeability Depth to bedrock	1.00 0.69	Somewhat limited Slope Seepage Depth to soft bedrock	0.67 0.50 0.26
149KM: Kimo-----	90	Very limited Depth to saturated zone Restricted permeability Flooding	1.00 0.50 0.40	Very limited Depth to saturated zone Seepage Flooding	1.00 0.50 0.40
197IB: Irwin-----	80	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.00
197IV: Ivan-----	90	Very limited Flooding Restricted permeability	1.00 0.50	Very limited Flooding Seepage	1.00 0.50
197IX: Ivan-----	80	Very limited Flooding Restricted permeability	1.00 0.50	Very limited Flooding Seepage	1.00 0.50
197MR: Morrill-----	75	Very limited Restricted permeability	1.00	Somewhat limited Slope Seepage	0.91 0.32
197MS: Morrill, very stony-	75	Very limited Restricted permeability Slope	1.00 0.04	Very limited Slope Seepage	1.00 0.50
197SA: Sarpy-----	85	Very limited Flooding Filtering capacity	1.00 1.00	Very limited Flooding Seepage Slope	1.00 1.00 0.00
197WF: Wamego-----	75	Very limited Restricted permeability Depth to bedrock Slope	1.00 1.00 0.37	Very limited Depth to soft bedrock Slope	1.00 1.00
197WY: Wymore-----	100	Very limited		Somewhat limited	

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Map symbol and soil name	Pct of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
2797: Morrill, stony-----	85	Restricted permeability	1.00	Slope	0.33
		Depth to saturated zone	1.00		
		Very limited Restricted permeability	1.00	Very limited Slope	1.00
		Slope	0.04	Seepage	0.50
AED: Arents, Earthen Dam-	100	Not rated		Not rated	
An: Kennebec-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.50	Seepage	0.50
Bk: Martin-----	54	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	1.00
Kennebec-----	43	Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.50	Seepage	0.50
BOA: Borrow Areas-----	100	Not rated		Not rated	
Br: Fluvents-----	97	Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.50		
Dm: Dwight-----	60	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.00
Martin-----	30	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	0.00
Ds: Dwight-----	97	Very limited Restricted permeability	1.00	Not limited	
Dw: Dwight-----	85	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.00
El: Elmont-----	90	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.67
		Depth to bedrock	0.78	Depth to soft bedrock	0.42
Em: Elmont, eroded-----	90	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.67
		Depth to bedrock	0.78	Depth to soft bedrock	0.42
En: Elmont-----	90	Very limited Restricted permeability	1.00	Very limited Slope	1.00
		Depth to bedrock	0.78	Depth to soft bedrock	0.42
		Slope	0.16		
Eo: Elmont, eroded-----	90	Very limited		Very limited	

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Map symbol and soil name	Pct of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ep: Elmont, eroded-----	75	Restricted permeability	1.00	Slope	1.00
		Depth to bedrock	0.78	Depth to soft bedrock	0.42
		Slope	0.16		
Dwight-----	25	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.67
		Depth to bedrock	0.78	Depth to soft bedrock	0.42
Es: Eudora-----	95	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.09
Et: Eudora-----	90	Somewhat limited Restricted permeability	0.50	Somewhat limited Seepage	0.50
		Flooding	0.40	Flooding Slope	0.40 0.00
Eu: Eudora-----	85	Somewhat limited Restricted permeability	0.50	Somewhat limited Seepage	0.50
		Flooding	0.40	Flooding	0.40
Ev: Eudora-----	60	Somewhat limited Restricted permeability	0.50	Very limited Slope	1.00
		Flooding	0.40	Seepage	0.50
		Slope	0.04	Flooding	0.40
Kimo-----	30	Somewhat limited Restricted permeability	0.50	Somewhat limited Seepage	0.50
		Flooding	0.40	Flooding	0.40
Ew: Eudora-----	60	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Seepage	0.50
		Flooding	0.40	Flooding	0.40
Kimo-----	30	Somewhat limited Restricted permeability	0.50	Somewhat limited Seepage	0.50
		Flooding	0.40	Flooding	0.40
Gm: Gymer-----	88	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
				Seepage	0.50
Gy: Gymer-----	100	Somewhat limited Restricted permeability	1.00	Somewhat limited Slope	0.91
				Seepage	0.50
INL: Aquolls-----	100	Very limited Flooding	1.00	Very limited Ponding	1.00
		Ponding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
Kb: Kennebec-----	95	Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Restricted permeability	0.50	Seepage	0.50
Kc: Chase-----	85	Very limited Flooding	1.00	Very limited Flooding	1.00

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Map symbol and soil name	Pct of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
KF: Kennebec-----	98	Restricted permeability	1.00	Depth to saturated zone	0.25
		Depth to saturated zone	1.00		
		Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
Km: Kimo-----	90	Restricted permeability	0.50	Seepage	0.50
		Depth to saturated zone	1.00		
		Flooding	1.00	Very limited Depth to saturated zone	1.00
		Seepage	0.40	Seepage	0.50
Ko: Kimo-----	95	Depth to saturated zone	1.00	Flooding	0.40
		Flooding	1.00		
		Restricted permeability	1.00	Very limited Ponding	1.00
		Ponding	1.00	Flooding	1.00
Ks: Kipson-----	50	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Seepage	0.50	Seepage	0.50
		Very limited Depth to bedrock	1.00	Very limited Depth to soft bedrock	1.00
		Slope	0.96	Slope	1.00
Sogn-----	35	Seepage	0.50	Seepage	0.50
		Very limited Depth to bedrock	1.00	Very limited Depth to hard bedrock	1.00
		Slope	0.16	Slope	1.00
Ku: Konawa-----	85			Somewhat limited Slope	0.91
		Somewhat limited Restricted permeability	0.50	Seepage	0.50
Kw: Konawa-----	85	Somewhat limited Restricted permeability	0.50	Very limited Slope	1.00
		Slope	0.16	Seepage	0.50
La: Labette-----	88	Very limited Restricted permeability	1.00	Very limited Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Slope	0.00
Lb: Labette-----	85	Very limited Restricted permeability	1.00	Very limited Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Slope	0.67
Lc: Labette, eroded----	95	Very limited Restricted permeability	1.00	Very limited Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Slope	0.67
Ld: Ladysmith-----	90	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00		
LIQ: Limestone Quarry----	100	Not rated		Not rated	
Lm: Ladysmith-----	85	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	0.00
Ls: Ladysmith, eroded---	100	Very limited		Very limited	

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		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	Slope	0.00
Ma: Made Land-----	100	Not rated		Not rated	
Mb: Martin-----	90	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	0.00
Mc: Martin-----	85	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	0.67
Me: Martin, eroded-----	90	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	0.67
Mf: Martin-----	90	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	1.00
		Slope	0.04		
Mh: Martin, eroded-----	85	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	1.00
		Slope	0.04		
Mk: Martin-----	90	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	0.67
Mm: Morrill-----	91	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.91
				Seepage	0.32
Mn: Morrill, eroded-----	91	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.91
				Seepage	0.32
Mo: Morrill-----	91	Very limited Restricted permeability	1.00	Very limited Slope	1.00
		Slope	0.16	Seepage	0.32
MOO: Morrill-----	90	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.67
Mp: Morrill-----	55	Very limited Restricted permeability	1.00	Very limited Slope	1.00
		Slope	0.00	Seepage	0.32
Gravelly Land-----	30	Not rated		Not rated	
Mr: Muir-----	85	Somewhat limited Restricted permeability	0.50	Somewhat limited Seepage	0.50
		Flooding	0.40	Flooding	0.40
MRR: Morrill-----	90	Very limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Pawnee-----	100	Restricted permeability	1.00	Slope	0.67
				Seepage	0.32
		Very limited Restricted permeability	1.00	Somewhat limited Slope	0.00
Pc: Pawnee-----	85	Depth to saturated zone	1.00		
		Very limited Restricted permeability	1.00	Somewhat limited Slope	0.67
		Depth to saturated zone	1.00		
Pe: Pawnee, eroded-----	90	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.67
		Depth to saturated zone	1.00		
		Very limited Restricted permeability	1.00	Somewhat limited Slope	0.67
Pn: Pawnee-----	85	Depth to saturated zone	1.00		
		Very limited Restricted permeability	1.00	Very limited Slope	1.00
		Depth to saturated zone	1.00		
RD: Reading-----	90	Slope	0.04		
		Somewhat limited Restricted permeability	0.68	Somewhat limited Flooding	0.40
		Flooding	0.40	Seepage	0.32
Re: Reading-----	85	Somewhat limited Restricted permeability	0.68	Somewhat limited Flooding	0.40
		Flooding	0.40	Seepage	0.32
Rv: River Wash-----	100	Not rated		Not rated	
Sa: Sarpy-----	100	Very limited Flooding	1.00	Very limited Flooding	1.00
		Filtering capacity	1.00	Seepage	1.00
SAP: Sand Pit-----	100	Not rated		Not rated	
Se: Sarpy-----	55	Very limited Flooding	1.00	Very limited Flooding	1.00
		Filtering capacity	1.00	Seepage	1.00
Eudora-----	45	Very limited Flooding	1.00	Very limited Flooding	1.00
		Restricted permeability	0.50	Seepage	0.50
Sg: Sharpsburg-----	88	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.00
Sh: Sharpsburg-----	85	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.67
Sk: Shelby-----	95	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.00
Sm: Shelby-----	88	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.91
Sn: Shelby, eroded-----	100	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.91
So: Shelby-----	85	Very limited		Very limited	

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Map symbol and soil name	Pct of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Sp: Morrill-----	85	Restricted permeability	1.00	Slope	1.00
		Slope	0.16		
Sr: Morrill, eroded----	85	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.91
				Seepage	0.32
Ss: Morrill-----	85	Very limited Restricted permeability	1.00	Somewhat limited Slope	0.91
				Seepage	0.32
St: Sibleyville-----	85	Very limited Restricted permeability	1.00	Very limited Slope	1.00
		Slope	0.16	Seepage	0.32
Su: Sibleyville-----	90	Very limited Depth to bedrock	1.00	Very limited Depth to soft bedrock	1.00
		Restricted permeability	0.50	Slope	0.67
Sv: Sogn-----	55			Seepage	0.50
		Very limited Depth to bedrock	1.00	Very limited Depth to hard bedrock	1.00
Vinland-----	25	Slope	0.00	Slope	1.00
		Very limited Depth to bedrock	1.00	Very limited Depth to soft bedrock	1.00
Sw: Stony Steep Land----	60	Slope	0.96	Slope	1.00
				Seepage	0.50
Vinland-----	26	Not rated		Not rated	
		Very limited Depth to bedrock	1.00	Very limited Depth to soft bedrock	1.00
Vn: Vinland-----	100	Slope	1.00	Slope	1.00
				Seepage	0.50
W: Water-----	100	Very limited Depth to bedrock	1.00	Very limited Depth to soft bedrock	1.00
				Slope	1.00
Wa: Wabash-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00
		Restricted permeability	1.00	Depth to saturated zone	1.00
Wb: Wabash-----	88	Depth to saturated zone	1.00		
		Very limited Flooding	1.00	Very limited Flooding	1.00
We: Welda-----	95	Restricted permeability	1.00	Depth to saturated zone	1.00
				Very limited Slope	1.00

SANITARY FACILITIES--Continued
Shawnee County, Kansas

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Map symbol and soil name	Pct of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
045OE: Oska-----	88	Very limited Depth to bedrock Too clayey Seepage	1.00 1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Hard to compact	1.00 1.00 1.00
045SV: Sibleyville-----	50	Very limited Depth to bedrock Seepage Slope	1.00 1.00 0.37	Very limited Depth to bedrock Slope	1.00 0.37	Very limited Depth to bedrock Slope	1.00 0.37
045SX: Rock Outcrop-----	60	Not rated		Not rated		Not rated	
Vinland-----	26	Very limited Slope Depth to bedrock Seepage Too clayey	1.00 1.00 1.00 0.50	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50
045VM: Vinland-----	40	Very limited Depth to bedrock Seepage Too clayey Slope	1.00 1.00 0.50 0.37	Very limited Depth to bedrock Slope	1.00 0.37	Very limited Depth to bedrock Too clayey Slope	1.00 0.50 0.37
Martin-----	25	Very limited Depth to saturated zone Too clayey Slope	1.00 1.00 1.00 0.04	Very limited Depth to saturated zone Slope	1.00 0.04	Very limited Too clayey Hard to compact Depth to saturated zone Slope	1.00 1.00 0.86 0.04
045WS: Woodson-----	90	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00
085KB: Kennebec-----	86	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	
085MC: Martin-----	48	Very limited Depth to saturated zone Too clayey Slope	1.00 1.00 1.00 0.00	Very limited Depth to saturated zone Slope	1.00 0.00	Very limited Too clayey Hard to compact Depth to saturated zone Slope	1.00 1.00 0.86 0.00
Vinland-----	40	Very limited Depth to bedrock Seepage Too clayey Slope	1.00 1.00 0.50 0.00	Very limited Depth to bedrock Slope	1.00 0.00	Very limited Depth to bedrock Too clayey Slope	1.00 0.50 0.00
085ZA: Zook-----	90	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Hard to compact Too clayey	1.00 1.00 1.00 0.50
087EC: Eudora-----	65	Very limited Flooding	1.00	Very limited Flooding	1.00	Not limited	
Bismarckgrove-----	20	Very limited Flooding Too clayey	1.00 0.50	Very limited Flooding	1.00	Somewhat limited Too clayey	0.50
087HC: Haig-----	85	Very limited Depth to saturated zone Too clayey	1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Hard to compact Too clayey	1.00 1.00 0.50
087KV: Konawa-----	91	Very limited Seepage	1.00	Not limited		Not limited	
087RS: Rossville-----	85	Somewhat limited Flooding	0.20	Somewhat limited Flooding	0.20	Not limited	

SANITARY FACILITIES--Continued
Shawnee County, Kansas

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Map symbol and soil name	Pct of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
087SO: Shelby-----	65	Somewhat limited Too clayey Slope	0.50 0.16	Somewhat limited Slope	0.16	Somewhat limited Too clayey Slope	0.50 0.16
Pawnee-----	25	Very limited Depth to saturated zone Too clayey Slope	1.00 1.00 0.16	Very limited Depth to saturated zone Slope	1.00 0.16	Very limited Depth to saturated zone Too clayey Hard to compact Slope	1.00 1.00 1.00 0.16
087WC: Wabash-----	94	Very limited Depth to saturated zone Too clayey Flooding	1.00 1.00 0.20	Very limited Depth to saturated zone Flooding	1.00 0.20	Very limited Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00
139ED: Elmont-----	85	Very limited Depth to bedrock Seepage Too clayey	1.00 1.00 0.50	Somewhat limited Depth to bedrock	0.26	Somewhat limited Too clayey Depth to bedrock	0.50 0.26
149KM: Kimo-----	90	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Somewhat limited Depth to saturated zone	0.86
197IB: Irwin-----	80	Very limited Too clayey	1.00	Not limited		Very limited Too clayey Hard to compact	1.00 1.00
197IV: Ivan-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Not limited	
197IX: Ivan-----	80	Very limited Flooding Too clayey	1.00 0.50	Very limited Flooding	1.00	Somewhat limited Too clayey	0.50
197MR: Morrill-----	75	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
197MS: Morrill, very stony-	75	Somewhat limited Too clayey Slope	0.50 0.04	Somewhat limited Slope	0.04	Somewhat limited Too clayey Slope	0.50 0.04
197SA: Sarpy-----	85	Very limited Flooding Seepage Too Sandy	1.00 1.00 1.00	Very limited Flooding Seepage	1.00 1.00	Very limited Too Sandy Seepage	1.00 1.00
197WF: Wamego-----	75	Very limited Depth to bedrock Seepage Too clayey Slope	1.00 1.00 0.50 0.37	Very limited Depth to bedrock Slope	1.00 0.37	Very limited Depth to bedrock Too clayey Slope	1.00 0.50 0.37
197WY: Wymore-----	100	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00
2797: Morrill, stony-----	85	Somewhat limited Too clayey Slope	0.50 0.04	Somewhat limited Slope	0.04	Somewhat limited Too clayey Slope	0.50 0.04
AED: Arents, Earthen Dam-	100	Not rated		Not rated		Not rated	
An: Kennebec-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	
Bk: Martin-----	54	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey Hard to compact Depth to saturated zone	1.00 1.00 0.87
Kennebec-----	43	Very limited Flooding	1.00	Very limited Flooding	1.00	Not limited	

SANITARY FACILITIES--Continued
Shawnee County, Kansas

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Map symbol and soil name	Pct of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BOA: Borrow Areas-----	100	Depth to saturated zone Not rated	1.00	Depth to saturated zone Not rated	1.00	Not rated	
Br: Fluvents-----	97	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00	Somewhat limited Too clayey Depth to saturated zone	0.50 0.11
Dm: Dwight-----	60	Very limited Too clayey	1.00	Not limited		Very limited Too clayey Hard to compact	1.00 1.00
Martin-----	30	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey Hard to compact Depth to saturated zone	1.00 1.00 0.87
Ds: Dwight-----	97	Very limited Too clayey	1.00	Not limited		Very limited Too clayey Hard to compact	1.00 1.00
Dw: Dwight-----	85	Very limited Too clayey	1.00	Not limited		Very limited Too clayey Hard to compact	1.00 1.00
El: Elmont-----	90	Very limited Depth to bedrock Seepage Too clayey	1.00 1.00 0.50	Somewhat limited Depth to bedrock	0.42	Somewhat limited Too clayey Depth to bedrock	0.50 0.42
Em: Elmont, eroded-----	90	Very limited Depth to bedrock Seepage Too clayey	1.00 1.00 0.50	Somewhat limited Depth to bedrock	0.42	Somewhat limited Too clayey Depth to bedrock	0.50 0.42
En: Elmont-----	90	Very limited Depth to bedrock Seepage Too clayey Slope	1.00 1.00 0.50 0.16	Somewhat limited Depth to bedrock Slope	0.42 0.16	Somewhat limited Too clayey Depth to bedrock Slope	0.50 0.42 0.16
Eo: Elmont, eroded-----	90	Very limited Depth to bedrock Seepage Too clayey Slope	1.00 1.00 0.50 0.16	Somewhat limited Depth to bedrock Slope	0.42 0.16	Somewhat limited Too clayey Depth to bedrock Slope	0.50 0.42 0.16
Ep: Elmont, eroded-----	75	Very limited Depth to bedrock Seepage Too clayey	1.00 1.00 0.50	Somewhat limited Depth to bedrock	0.42	Somewhat limited Too clayey Depth to bedrock	0.50 0.42
Dwight-----	25	Very limited Too clayey	1.00	Not limited		Very limited Too clayey Hard to compact	1.00 1.00
Es: Eudora-----	95	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Not limited	
Et: Eudora-----	90	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Not limited	
Eu: Eudora-----	85	Somewhat limited Flooding Slope	0.40 0.04	Somewhat limited Flooding Slope	0.40 0.04	Somewhat limited Slope	0.04
Ev: Eudora-----	60	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Not limited	
Kimo-----	30	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Somewhat limited Depth to saturated zone	0.86
Ew: Eudora-----	60	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Not limited	
Kimo-----	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.86

SANITARY FACILITIES--Continued
Shawnee County, Kansas

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Map symbol and soil name	Pct of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Gm: Gymer-----	88	Flooding	0.40	Flooding	0.40		
Gy: Gymer-----	100	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
INL: Aquolls-----	100	Somewhat limited Too clayey	0.50	Not limited		Very limited Hard to compact Too clayey	1.00 0.50
		Very limited Flooding Depth to saturated zone Ponding Seepage	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
Kb: Kennebec-----	95	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	
Kc: Chase-----	85	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.75	Somewhat limited Depth to saturated zone	0.86
KF: Kennebec-----	98	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	
Km: Kimo-----	90	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Somewhat limited Depth to saturated zone	0.86
Ko: Kimo-----	95	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
Ks: Kipson-----	50	Very limited Depth to bedrock Seepage Slope Too clayey	1.00 1.00 0.96 0.50	Very limited Depth to bedrock Slope	1.00 0.96	Very limited Depth to bedrock Carbonate content Slope Too clayey	1.00 1.00 0.96 0.50
Sogn-----	35	Very limited Depth to bedrock Seepage Slope	1.00 1.00 0.16	Very limited Depth to bedrock Slope	1.00 0.16	Very limited Depth to bedrock Hard to compact Too acid Seepage Slope	1.00 1.00 1.00 1.00 0.16
Ku: Konawa-----	85	Not limited		Very limited Seepage	1.00	Not limited	
Kw: Konawa-----	85	Somewhat limited Too clayey Slope	0.50 0.16	Very limited Seepage Slope	1.00 0.16	Somewhat limited Too clayey Slope	0.50 0.16
La: Labette-----	88	Very limited Depth to bedrock Too clayey Seepage	1.00 1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Hard to compact	1.00 1.00 1.00
Lb: Labette-----	85	Very limited Depth to bedrock Too clayey Seepage	1.00 1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Hard to compact	1.00 1.00 1.00
Lc: Labette, eroded----	95	Very limited Depth to bedrock Too clayey Seepage	1.00 1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey Hard to compact Gravel content	1.00 1.00 1.00 0.11
Ld: Ladysmith-----	90	Very limited		Very limited		Very limited	

SANITARY FACILITIES--Continued
Shawnee County, Kansas

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LIQ: Limestone Quarry----	100	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too clayey	1.00
		Too clayey	1.00			Hard to compact	1.00
						Depth to saturated zone	0.87
Lm: Ladysmith-----	85	Not rated		Not rated		Not rated	
Ls: Ladysmith, eroded---	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey	1.00
		Too clayey	1.00			Hard to compact	1.00
						Depth to saturated zone	0.86
Ma: Made Land-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey	1.00
		Too clayey	1.00			Hard to compact	1.00
						Depth to saturated zone	0.87
Mb: Martin-----	90	Not rated		Not rated		Not rated	
Mc: Martin-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey	1.00
		Too clayey	1.00			Hard to compact	1.00
						Depth to saturated zone	0.86
Me: Martin, eroded-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey	1.00
		Too clayey	1.00			Hard to compact	1.00
						Depth to saturated zone	0.86
Mf: Martin-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey	1.00
		Too clayey	1.00			Hard to compact	1.00
		Slope	0.04	Slope	0.04	Depth to saturated zone	0.87
Mh: Martin, eroded-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey	1.00
		Too clayey	1.00			Hard to compact	1.00
		Slope	0.04	Slope	0.04	Depth to saturated zone	0.87
Mk: Martin-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey	1.00
		Too clayey	1.00			Hard to compact	1.00
						Depth to saturated zone	0.87
Mm: Morrill-----	91	Not limited		Not limited		Not limited	
Mn: Morrill, eroded----	91	Not limited		Not limited		Not limited	
Mo: Morrill-----	91	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16
MOO: Morrill-----	90	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Mp: Morrill-----	55	Somewhat limited Slope	0.00	Somewhat limited Slope	0.00	Somewhat limited Slope	0.00

SANITARY FACILITIES--Continued
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Gravelly Land-----	30	Not rated		Not rated		Not rated	
Mr: Muir-----	85	Somewhat limited Too clayey Flooding	0.50 0.40	Somewhat limited Flooding	0.40	Somewhat limited Too clayey	0.50
MRR: Morrill-----	90	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Pa: Pawnee-----	100	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too clayey Hard to compact	1.00 1.00
Pc: Pawnee-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Hard to compact	1.00
Pe: Pawnee, eroded-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Hard to compact	1.00
Pn: Pawnee-----	85	Very limited Depth to saturated zone Too clayey Slope	1.00 1.00 0.04	Very limited Depth to saturated zone Slope	1.00 0.04	Very limited Depth to saturated zone Too clayey Hard to compact Slope	1.00 1.00 0.04
RD: Reading-----	90	Somewhat limited Too clayey Flooding	0.50 0.40	Somewhat limited Flooding	0.40	Somewhat limited Too clayey	0.50
Re: Reading-----	85	Somewhat limited Too clayey Flooding	0.50 0.40	Somewhat limited Flooding	0.40	Somewhat limited Too clayey	0.50
Rv: River Wash-----	100	Not rated		Not rated		Not rated	
Sa: Sarpy-----	100	Very limited Flooding Seepage Too Sandy	1.00 1.00 1.00	Very limited Flooding Seepage	1.00 1.00	Very limited Too Sandy Seepage	1.00 1.00
SAP: Sand Pit-----	100	Not rated		Not rated		Not rated	
Se: Sarpy-----	55	Very limited Flooding Seepage Too Sandy	1.00 1.00 1.00	Very limited Flooding Seepage	1.00 1.00	Very limited Too Sandy Seepage	1.00 1.00
Eudora-----	45	Very limited Flooding	1.00	Very limited Flooding	1.00	Not limited	
Sg: Sharpsburg-----	88	Somewhat limited Too clayey	0.50	Not limited		Very limited Hard to compact Too clayey	1.00 0.50
Sh: Sharpsburg-----	85	Somewhat limited Too clayey	0.50	Not limited		Very limited Hard to compact Too clayey	1.00 0.50
Sk: Shelby-----	95	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Sm: Shelby-----	88	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Sn: Shelby, eroded-----	100	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
So: Shelby-----	85	Somewhat limited Too clayey Slope	0.50 0.16	Somewhat limited Slope	0.16	Somewhat limited Too clayey Slope	0.50 0.16
Sp: Morrill-----	85	Not limited		Not limited		Not limited	

SANITARY FACILITIES--Continued
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sr: Morrill, eroded-----	85	Not limited		Not limited		Not limited	
Ss: Morrill-----	85	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16
St: Sibleyville-----	90	Very limited Depth to bedrock Seepage	1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
Su: Sibleyville-----	90	Very limited Depth to bedrock Seepage Slope	1.00 1.00 0.04	Very limited Depth to bedrock Slope	1.00 0.04	Very limited Depth to bedrock Slope	1.00 0.04
Sv: Sogn-----	55	Very limited Depth to bedrock Seepage Slope	1.00 1.00 0.00	Very limited Depth to bedrock Slope	1.00 0.00	Very limited Depth to bedrock Hard to compact Too acid Seepage Slope	1.00 1.00 1.00 1.00 0.00
Vinland-----	25	Very limited Depth to bedrock Seepage Slope Too clayey	1.00 1.00 0.96 0.50	Very limited Depth to bedrock Slope	1.00 0.96	Very limited Depth to bedrock Slope Too clayey	1.00 0.96 0.50
Sw: Stony Steep Land----	60	Not rated		Not rated		Not rated	
Vinland-----	26	Very limited Depth to bedrock Slope Seepage Too clayey	1.00 1.00 1.00 0.50	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50
Vn: Vinland-----	100	Very limited Depth to bedrock Seepage Too clayey	1.00 1.00 0.50	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock Too clayey	1.00 0.50
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Wabash-----	90	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00
Wb: Wabash-----	88	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00
We: Welda-----	95	Very limited Too clayey	1.00	Not limited		Very limited Too clayey	1.00