

RECREATIONAL INTERPRETATIONS
Linn County, Kansas

Recreation

The soils of the survey area are rated in the following tables according to limitations that affect their suitability for recreation. 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 the recreational 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).

The ratings in the tables are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in this table can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, sanitary facilities, and water management.

Camp areas require site preparation, such as shaping and leveling the tent and parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas.

The soil properties that affect the performance of the areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Picnic areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking areas. The ratings are based on the soil properties that affect the ease of developing picnic areas and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of picnic areas. For good trafficability, the surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Playgrounds require soils that are nearly level, are free of stones, and can withstand intensive foot traffic. The ratings are based on the soil properties that affect the ease of developing playgrounds and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of playgrounds. For good trafficability, the surface of the playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Paths and trails for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These properties are stoniness, depth to a water table, ponding, flooding, slope, and texture of the surface layer.

Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

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Map symbol and soil name	Pct of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
003CD: Collinsville-----	65	Very limited Depth to bedrock Slope	1.00 0.04	Very limited Depth to bedrock Slope	1.00 0.04	Very limited Depth to bedrock Slope Gravel content Content of large stones	1.00 1.00 0.28 0.03
Collinsville Taxadjunct-----	20	Not limited		Not limited		Very limited Slope Depth to bedrock Gravel content Content of large stones	1.00 0.95 0.28 0.03
003DE: Dennis, eroded-----	95	Very limited Depth to saturated zone Restricted permeability	1.00 0.94	Somewhat limited Restricted permeability Depth to saturated zone	0.94 0.94	Very limited Depth to saturated zone Restricted permeability Slope	1.00 1.00 0.94 0.13
003EH: Eram, eroded-----	85	Very limited Depth to saturated zone Restricted permeability	1.00 0.15	Very limited Depth to saturated zone Restricted permeability	1.00 0.15	Very limited Depth to saturated zone Slope Depth to bedrock Restricted permeability	1.00 1.00 1.00 0.20 0.15
003EK: Eram-----	60	Very limited Depth to saturated zone Restricted permeability Slope	1.00 0.15 0.00	Very limited Depth to saturated zone Restricted permeability Slope	1.00 0.15 0.00	Very limited Depth to saturated zone Slope Depth to bedrock Restricted permeability	1.00 1.00 1.00 0.20 0.15
Clareson-----	20	Somewhat limited Restricted permeability Content of large stones Slope	0.94 0.01 0.00	Somewhat limited Restricted permeability Content of large stones Slope	0.94 0.01 0.00	Very limited Slope Content of large stones Restricted permeability Depth to bedrock	1.00 1.00 0.94 0.90
003LE: Leanna, drained-----	88	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.94	Somewhat limited Restricted permeability Depth to saturated zone	0.94 0.94	Very limited Depth to saturated zone Restricted permeability Flooding	1.00 0.94 0.60
003LH: Lula-----	85	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability Slope	0.94 0.00
003SE: Stony Land-----	60	Not rated		Not rated		Not rated	
Talihina-----	20	Very limited Depth to bedrock Depth to saturated zone Slope Restricted permeability	1.00 1.00 0.84 0.15	Very limited Depth to bedrock Depth to saturated zone Slope Restricted permeability	1.00 0.94 0.84 0.15	Very limited Depth to bedrock Slope Depth to saturated zone Restricted permeability	1.00 1.00 1.00 0.15
003WF: Woodson-----	85	Very limited Depth to saturated zone Restricted permeability	1.00 1.00	Very limited Depth to saturated zone Restricted permeability	1.00 1.00	Very limited Depth to saturated zone Restricted permeability Slope	1.00 1.00 1.00 0.00
011CA: Catoosa-----	85	Somewhat limited		Somewhat limited		Somewhat limited	

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Map symbol and soil name	Pct of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
059CM: Clareson-----	55	Restricted permeability	0.15	Restricted permeability	0.15	Restricted permeability	0.15
		Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Slope	0.00
		Slope	0.04	Slope	0.04	Very limited Slope	1.00
Eram-----	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Restricted permeability	0.94
		Restricted permeability	0.94	Restricted permeability	0.94	Depth to bedrock	0.80
		Slope	0.00	Slope	0.00	Content of large stones	0.11
AED: Arents, Earthen Dam-	100	Not rated		Not rated		Very limited Depth to saturated zone	1.00
Bb: Bates-----	85	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Slope	1.00
Bc: Bates-----	85	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Restricted permeability	0.94
						Depth to bedrock	0.35
Cb: Catoosa-----	85	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Slope	0.13
						Very limited Slope	1.00
Cm: Clareson-----	60	Somewhat limited Slope Restricted permeability	0.37 0.15	Somewhat limited Slope Restricted permeability	0.37 0.15	Restricted permeability	0.94
						Depth to bedrock	0.35
						Somewhat limited Restricted permeability	0.15
Rock Outcrop-----	20	Not rated		Not rated		Slope	0.00
De: Dennis-----	90	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Depth to bedrock	1.00
Df: Dennis-----	85	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Depth to bedrock	0.20
						Restricted permeability	0.15
						Depth to bedrock	0.15
Ec: Eram-----	85	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Depth to bedrock	0.71
						Restricted permeability	0.15
						Slope	0.13
Ed: Eram-----	85	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Depth to bedrock	0.71
						Restricted permeability	0.15
						Slope	0.13

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Map symbol and soil name	Pct of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ef: Eram-----	50	Somewhat limited Restricted permeability Slope Depth to saturated zone	0.15 0.04 0.03	Somewhat limited Restricted permeability Slope Depth to saturated zone	0.15 0.04 0.02	Restricted permeability	0.15
						Depth to saturated zone	0.03
						Very limited Slope	1.00
						Depth to bedrock	0.71
						Restricted permeability	0.15
Lebo-----	30	Very limited Too clayey Slope Restricted permeability	1.00 0.96 0.94	Very limited Too clayey Slope Restricted permeability	1.00 0.96 0.94	Depth to saturated zone	0.03
						Very limited Slope	1.00
						Too clayey	1.00
						Restricted permeability	0.94
						Gravel content	0.32
Hp: Hepler-----	90	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 0.39 0.15	Somewhat limited Depth to saturated zone Restricted permeability	0.19 0.15	Depth to bedrock	0.01
						Somewhat limited Flooding	0.60
						Depth to saturated zone	0.39
						Restricted permeability	0.15
INT: Aquolls-----	100	Very limited Depth to saturated zone Restricted permeability Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Restricted permeability Ponding	1.00 1.00 1.00	Restricted permeability	1.00
						Depth to saturated zone	1.00
						Ponding	1.00
Ke: Kenoma-----	90	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94
						Slope	0.13
La: Lanton-----	90	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 0.99 0.15	Somewhat limited Depth to saturated zone Restricted permeability	0.78 0.15	Somewhat limited Depth to saturated zone	0.99
						Flooding	0.60
						Restricted permeability	0.15
Lb: Lebo-----	85	Very limited Slope Too clayey Restricted permeability Gravel content	1.00 1.00 0.94 0.08	Very limited Slope Too clayey Restricted permeability Gravel content	1.00 1.00 0.94 0.08	Very limited Slope	1.00
						Gravel content	1.00
						Too clayey	1.00
						Restricted permeability	0.94
						Depth to bedrock	0.01
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Mb: Mason-----	85	Very limited Flooding	1.00	Not limited		Not limited	
Nf: Newtonia-----	90	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15
Ng: Newtonia-----	90	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability Slope	0.15 0.13
Nh: Newtonia-----	85	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Very limited Slope	1.00
Oh: Okemah-----	90	Somewhat limited		Somewhat limited		Restricted permeability	0.15
						Somewhat limited	

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Map symbol and soil name	Pct of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Om: Kanima-----	100	Restricted permeability	0.94	Restricted permeability	0.94	Restricted permeability	0.94
		Depth to saturated zone	0.03	Depth to saturated zone	0.02	Depth to saturated zone	0.03
		Slope		Slope		Slope	0.00
Op: Kanima-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Too clayey	1.00	Too clayey	1.00	Too clayey	1.00
		Restricted permeability	0.15	Restricted permeability	0.15	Gravel content	0.37
Ot: Osage-----	85	Restricted permeability				Restricted permeability	0.15
		Very limited Too clayey	1.00	Very limited Too clayey	1.00	Very limited Slope	1.00
		Restricted permeability	0.15	Restricted permeability	0.15	Too clayey	1.00
Ov: Osage-----	90	Slope	0.04	Slope	0.04	Gravel content	0.37
						Restricted permeability	0.15
Pc: Parsons-----	90	Very limited Depth to saturated zone	1.00	Very limited Ponding	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00	Restricted permeability	0.94	Restricted permeability	0.94
Po: Pits, Quarries-----	100	Restricted permeability	0.94			Flooding	0.60
Sn: Summit-----	85	Very limited Depth to saturated zone	1.00	Very limited Ponding	1.00	Very limited Depth to saturated zone	1.00
		Restricted permeability	0.94	Depth to saturated zone	1.00	Ponding	1.00
				Too clayey	1.00	Too clayey	1.00
So: Summit-----	85	Restricted permeability		Restricted permeability	0.94	Restricted permeability	0.94
						Flooding	0.60
Vb: Verdigris-----	90	Very limited Flooding	1.00	Very limited Ponding	1.00	Very limited Depth to saturated zone	1.00
		Restricted permeability	0.15	Depth to saturated zone	1.00	Ponding	1.00
				Too clayey	1.00	Too clayey	1.00
Vc: Verdigris-----	85	Restricted permeability		Restricted permeability	0.94	Restricted permeability	0.94
						Flooding	0.60
						Restricted permeability	0.15
W: Water-----	100	Very limited Flooding	1.00	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
		Restricted permeability	0.15	Restricted permeability	0.15	Restricted permeability	0.15
We: Welda-----	90	Not rated		Not rated		Not rated	
We: Welda-----	90	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94

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Map symbol and soil name	Pct of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wo: Woodson-----	85					Slope	0.50
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Restricted permeability	0.94	Restricted permeability	0.94	Restricted permeability	0.94

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Map symbol and soil name	Pct of map unit	Paths and trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value
003CD: Collinsville-----	65	Not limited		Very limited Depth to bedrock Droughty Slope Content of large stones	1.00 1.00 0.04 0.03
Collinsville Taxadjunct-----	20	Not limited		Somewhat limited Depth to bedrock Droughty Content of large stones	 0.95 0.40 0.03
003DE: Dennis, eroded-----	95	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
003EH: Eram, eroded-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Depth to bedrock	1.00 0.20
003EK: Eram-----	60	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Depth to bedrock Slope	1.00 0.20 0.00
Clareson-----	20	Somewhat limited Content of large stones	0.01	Very limited Droughty Content of large stones Depth to bedrock Slope	1.00 1.00 0.90 0.00
003LE: Leanna, drained-----	88	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
003LH: Lula-----	85	Not limited		Not limited	
003SE: Stony Land-----	60	Not rated		Not rated	
Talihina-----	20	Somewhat limited Depth to saturated zone	0.86	Very limited Depth to bedrock Depth to saturated zone Slope Droughty	1.00 0.94 0.84 0.83
003WF: Woodson-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
011CA: Catoosa-----	85	Not limited		Somewhat limited Depth to bedrock	0.74
059CM: Clareson-----	55	Not limited		Somewhat limited Depth to bedrock Droughty Content of large stones Slope	0.80 0.31 0.11 0.04
Eram-----	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Depth to bedrock Slope	1.00 0.01 0.00
AED: Arents, Earthen Dam-	100	Not rated		Not rated	
Bb: Bates-----	85	Not limited		Somewhat limited Depth to bedrock	0.35
Bc: Bates-----	85	Not limited		Somewhat limited	

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Map symbol and soil name	Pct of map unit	Paths and trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ch: Catoosa-----	85	Not limited		Depth to bedrock	0.35
Cm: Clareson-----	60	Not limited		Somewhat limited Depth to bedrock	0.54
Rock Outcrop-----	20	Not rated		Somewhat limited Slope	0.37
				Depth to bedrock	0.20
				Droughty	0.00
				Not rated	
De: Dennis-----	90	Not limited		Somewhat limited Depth to saturated zone	0.02
Df: Dennis-----	85	Not limited		Somewhat limited Depth to saturated zone	0.02
Ec: Eram-----	85	Not limited		Somewhat limited Depth to bedrock	0.71
				Depth to saturated zone	0.02
Ed: Eram-----	85	Not limited		Somewhat limited Depth to bedrock	0.71
				Depth to saturated zone	0.02
Ef: Eram-----	50	Not limited		Somewhat limited Depth to bedrock	0.71
				Slope	0.04
				Depth to saturated zone	0.02
Lebo-----	30	Very limited Too clayey	1.00	Very limited Too clayey	1.00
				Slope	0.96
				Depth to bedrock	0.01
Hp: Hepler-----	90	Not limited		Somewhat limited Flooding	0.60
				Depth to saturated zone	0.19
INT: Aquolls-----	100	Very limited Depth to saturated zone Ponding	1.00	Very limited Depth to saturated zone	1.00
			1.00	Ponding	1.00
Ke: Kenoma-----	90	Not limited		Not limited	
La: Lanton-----	90	Somewhat limited Depth to saturated zone	0.50	Somewhat limited Depth to saturated zone	0.78
				Flooding	0.60
Lb: Lebo-----	85	Very limited Too clayey Slope	1.00 0.92	Very limited Slope	1.00
				Too clayey	1.00
				Gravel content	0.08
				Depth to bedrock	0.01
M-W: Miscellaneous Water-	100	Not rated		Not rated	
Mb: Mason-----	85	Not limited		Not limited	
Nf: Newtonia-----	90	Not limited		Not limited	
Ng: Newtonia-----	90	Not limited		Not limited	
Nh: Newtonia-----	85	Not limited		Not limited	
Oh: Okemah-----	90	Not limited		Somewhat limited Depth to saturated zone	0.02
Om: Kanima-----	100	Very limited		Very limited	

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Map symbol and soil name	Pct of map unit	Paths and trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Op: Kanima-----	100	Slope	1.00	Slope	1.00
		Too clayey	1.00	Too clayey	1.00
				Droughty	0.37
Ot: Osage-----	85	Very limited	1.00	Very limited	1.00
		Too clayey		Too clayey	0.37
				Droughty	0.04
Ov: Osage-----	90	Very limited	1.00	Very limited	1.00
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding		Depth to saturated zone	0.60
Pc: Parsons-----	90	Very limited	1.00	Very limited	1.00
		Depth to saturated zone	1.00	Ponding	1.00
		Too clayey	1.00	Depth to saturated zone	1.00
Po: Pits, Quarries-----	100			Too clayey	0.60
				Flooding	
Sn: Summit-----	85	Very limited	1.00	Very limited	1.00
So: Summit-----	85	Depth to saturated zone		Depth to saturated zone	
Vb: Verdigris-----	90	Not rated		Not rated	
Vc: Verdigris-----	85	Not limited		Not limited	
W: Water-----	100	Not limited		Not limited	
We: Welda-----	90	Not limited		Somewhat limited Flooding	0.60
Wo: Woodson-----	85	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
		Not rated		Not rated	
		Not limited		Not limited	
		Very limited	1.00	Very limited	1.00
		Depth to saturated zone		Depth to saturated zone	

