

RECREATIONAL INTERPRETATIONS  
Atchison 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
013PD: Padonia-----	50	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Very limited Slope	1.00
Martin-----	40	Somewhat limited Restricted permeability Depth to saturated zone Slope	0.94	Somewhat limited Restricted permeability Depth to saturated zone Slope	0.94	Restricted permeability	0.94
			0.39		0.19	Depth to bedrock	0.03
			0.00		0.00	Very limited Slope	1.00
013SG: Shelby-----	88	Somewhat limited Restricted permeability Slope	0.15	Somewhat limited Restricted permeability Slope	0.15	Restricted permeability	0.94
			0.04		0.04	Depth to saturated zone	0.39
013SM: Shelby-----	85	Very limited Slope Restricted permeability	1.00	Very limited Slope Restricted permeability	1.00	Very limited Slope	1.00
			0.15		0.15	Restricted permeability	0.15
085WB: Wymore-----	85	Very limited Depth to saturated zone Restricted permeability	1.00	Very limited Depth to saturated zone Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
			0.94		0.94	Restricted permeability	0.94
085WC: Wymore, eroded-----	88	Very limited Depth to saturated zone Restricted permeability	1.00	Very limited Depth to saturated zone Restricted permeability	1.00	Slope	0.00
			0.94		0.94	Depth to saturated zone	1.00
						Restricted permeability	0.94
087MO: Martin-----	40	Somewhat limited Restricted permeability Depth to saturated zone	0.94	Somewhat limited Restricted permeability Depth to saturated zone	0.94	Restricted permeability	0.50
			0.39		0.19	Slope	0.87
						Depth to saturated zone	0.39
Oska-----	30	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94
						Slope	0.87
						Depth to bedrock	0.01
087SC: Shelby-----	55	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Very limited Slope	1.00
						Restricted permeability	0.15
Pawnee-----	30	Very limited Depth to saturated zone Restricted permeability	1.00	Very limited Depth to saturated zone Restricted permeability	1.00	Very limited Depth to saturated zone	1.00
			0.94		0.94	Slope	1.00
						Restricted permeability	0.94
601GC: Gosport-----	50	Very limited Restricted permeability Slope	1.00	Very limited Restricted permeability Slope	1.00	Very limited Slope	1.00
			1.00		1.00	Restricted permeability	1.00
601GT: Grundy-----	90	Somewhat limited Depth to saturated zone Restricted permeability	0.98	Somewhat limited Restricted permeability Depth to saturated zone	0.94	Depth to bedrock	0.20
			0.94		0.75	Somewhat limited Depth to saturated zone	0.98
						Restricted permeability	0.94
601KH: Knox-----	80	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Slope	0.00
						Very limited Slope	1.00

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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
601LA: Ladoga-----	80	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Very limited Slope  Restricted permeability	1.00  0.15
601SH: Shelby-----	80	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Very limited Slope  Restricted permeability	1.00  0.15
601SM: Shelby-----	90	Somewhat limited Slope Restricted permeability	0.16 0.15	Somewhat limited Slope Restricted permeability	0.16 0.15	Very limited Slope Restricted permeability	1.00 0.15
Ab: Albaton-----	86	Very limited Flooding Ponding Too clayey  Restricted permeability Depth to saturated zone	1.00 1.00 1.00  1.00 1.00	Very limited Too clayey Ponding Restricted permeability Depth to saturated zone	1.00 1.00 1.00 1.00 1.00	Very limited Too clayey Ponding Restricted permeability Depth to saturated zone Flooding	1.00 1.00 1.00 1.00 0.60
Ae: Aksarben-----	85	Somewhat limited Restricted permeability Slope	0.15 0.00	Somewhat limited Restricted permeability Slope	0.15 0.00	Very limited Slope  Restricted permeability	1.00 0.15
AED: Arents, Earthen Dam-	100	Not rated		Not rated		Not rated	
Aq: Fluvaquents-----	95	Very limited Depth to saturated zone Flooding  Ponding  Restricted permeability	1.00 1.00 1.00 1.00	Very limited Ponding  Depth to saturated zone Restricted permeability	1.00 1.00 1.00	Very limited Restricted permeability Depth to saturated zone Ponding Flooding	1.00 1.00 1.00 0.60
Ar: Armster-----	85	Somewhat limited Restricted permeability Slope	0.15 0.04	Somewhat limited Restricted permeability Slope	0.15 0.04	Very limited Slope  Restricted permeability	1.00 0.15
As: Armster-----	85	Somewhat limited Slope Restricted permeability	0.96 0.15	Somewhat limited Slope Restricted permeability	0.96 0.15	Very limited Slope Restricted permeability	1.00 0.15
Ch: Chase-----	90	Very limited Flooding  Restricted permeability Depth to saturated zone	1.00 0.94 0.39	Somewhat limited Restricted permeability Depth to saturated zone	0.94 0.19	Somewhat limited Restricted permeability Depth to saturated zone	0.94 0.39
Go: Gosport-----	85	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Restricted permeability	1.00 1.00	Very limited Slope Restricted permeability Depth to bedrock	1.00 1.00 0.10
Gr: Grundy-----	90	Very limited Depth to saturated zone Restricted permeability	1.00 0.94	Very limited Depth to saturated zone Restricted permeability	1.00 0.94	Very limited Depth to saturated zone Restricted permeability	1.00 0.94
Gu: Grundy-----	85	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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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
Gx: Grundy-----	90	Restricted permeability	0.94	Restricted permeability	0.94	Restricted permeability Slope	0.94 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
		Too clayey	1.00	Too clayey	1.00	Too clayey	1.00
		Restricted permeability	0.94	Restricted permeability	0.94	Restricted permeability Slope	0.94 0.87
Hn: Haynie-----	96	Very limited Flooding	1.00	Somewhat limited Depth to saturated zone	0.19	Somewhat limited Flooding	0.60
		Depth to saturated zone	0.39			Depth to saturated zone	0.39
Ho: Haynie-----	60	Very limited Flooding	1.00	Somewhat limited Depth to saturated zone	0.19	Somewhat limited Flooding	0.60
		Depth to saturated zone	0.39			Depth to saturated zone	0.39
Onawa-----	30	Very limited Flooding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Ponding	1.00	Restricted permeability	0.94	Restricted permeability	0.94
		Restricted permeability	0.94	Depth to saturated zone	0.19	Flooding	0.60
		Depth to saturated zone	0.39			Depth to saturated zone	0.39
Ju: Judson-----	95	Not limited		Not limited		Somewhat limited Slope	0.50
Ke: Kennebec-----	89	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
Kf: Kennebec, CHanneled-	85	Very limited Flooding	1.00	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
Kg: Kennebec-----	60	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
Colo-----	30	Very limited Flooding	1.00	Somewhat limited Depth to saturated zone	0.19	Somewhat limited Flooding	0.60
		Depth to saturated zone	0.39			Depth to saturated zone	0.39
Kn: Knox-----	90	Not limited		Not limited		Very limited Slope	1.00
Ky: Knox-----	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Gosport-----	30	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Slope	1.00
		Slope	1.00	Slope	1.00	Restricted permeability Depth to bedrock	1.00 0.42
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Mc: Martin-----	85	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94
		Depth to saturated zone	0.39	Depth to saturated zone	0.19	Slope	0.87
						Depth to saturated zone	0.39
Mw: Muscotah-----	87	Very limited Flooding	1.00	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94
		Restricted permeability	0.94	Depth to saturated zone	0.22	Flooding	0.60
		Depth to saturated zone	0.44			Depth to saturated zone	0.44
No: Nodaway-----	90	Very limited		Not 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
Od: Onawa-----	95	Flooding	1.00			Flooding	0.60
		Very limited Flooding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Ponding	1.00	Restricted permeability	0.94	Restricted permeability	0.94
		Restricted permeability	0.94			Flooding	0.60
On: Onawa, sic1, 0-2%, occ. flood-----	53	Very limited		Very limited		Very limited	
		Flooding	1.00	Ponding	1.00	Ponding	1.00
		Ponding	1.00	Restricted permeability	0.94	Restricted permeability	0.94
		Restricted permeability	0.94	Depth to saturated zone	0.19	Flooding	0.60
Waldron, sic1, 0-2%, occ. flooded-----	43	Depth to saturated zone	0.39			Depth to saturated zone	0.39
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Restricted permeability	1.00	Restricted permeability	1.00
Ow: Onawet-----	95	Restricted permeability	1.00			Flooding	0.60
		Very limited Flooding	1.00	Very limited Ponding	1.00	Very limited Flooding	1.00
		Ponding	1.00	Restricted permeability	0.94	Ponding	1.00
		Restricted permeability	0.94	Flooding	0.40	Restricted permeability	0.94
Pa: Knox-----	50	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
Pb: Palermo-----	50	Slope	0.96	Slope	0.96	Slope	1.00
		Very limited Slope	0.96	Very limited Slope	0.96	Very limited Slope	1.00
Pc: Pawnee-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Restricted permeability	1.00
		Restricted permeability	1.00	Restricted permeability	1.00	Slope	1.00
Pd: 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	1.00
		Restricted permeability	0.94	Restricted permeability	0.94	Restricted permeability	0.94
Pt: Pits, Quarries-----	100					Slope	0.87
Re: Reading-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
Sb: Sharpsburg-----	85	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15
						Slope	0.13
Sc: Sharpsburg-----	85	Somewhat limited Restricted permeability	0.15	Somewhat limited Restricted permeability	0.15	Very limited Slope	1.00
						Restricted permeability	0.15
Sh: Shelby-----	85	Somewhat limited		Somewhat limited		Very 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
Sm: Shelby, eroded-----	88	Restricted permeability	0.15	Restricted permeability	0.15	Slope	1.00
		Slope	0.00	Slope	0.00	Restricted permeability	0.15
		Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
		Restricted permeability	0.15	Restricted permeability	0.15	Restricted permeability	0.15
Ss: Shelby, eroded-----	55	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Restricted permeability	0.15	Restricted permeability	0.15	Restricted permeability	0.15
Steinauer-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Restricted permeability	0.15	Restricted permeability	0.15	Restricted permeability	0.15
Vr: Rock Outcrop-----	60	Not rated		Not rated		Not rated	
Vinland-----	26	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock Gravel content	1.00 0.04
Vs: Vinland-----	85	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	0.16	Slope	0.16	Slope Gravel content	1.00 0.04
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Wabash-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Restricted permeability	1.00			Flooding	0.60
Wb: Wabash-----	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
		Flooding	1.00	Restricted permeability	1.00	Flooding	1.00
		Restricted permeability	1.00	Too clayey	1.00	Restricted permeability	1.00
		Too clayey	1.00	Flooding	0.40	Too clayey	1.00
Wg: Wamego-----	50	Somewhat limited Restricted permeability	0.94	Somewhat limited Restricted permeability	0.94	Very limited Slope	1.00
		Slope	0.04	Slope	0.04	Restricted permeability	0.94
						Depth to bedrock	0.84
Vinland-----	40	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	0.04	Slope	0.04	Slope Gravel content	1.00 0.04
Wh: Wathena-----	55	Very limited Flooding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Ponding	1.00	Too sandy	0.50	Flooding	0.60
		Too sandy	0.50			Too sandy	0.50
Haynie-----	40	Very limited Flooding	1.00	Somewhat limited Depth to saturated zone	0.19	Somewhat limited Flooding	0.60
		Depth to saturated zone	0.39			Depth to saturated zone	0.39
Wm: Wymore-----	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
		Restricted permeability	0.94	Restricted permeability	0.94	Restricted permeability	0.94
						Slope	0.50

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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
Wn: Wymore-----	82	Very limited		Very limited		Very limited	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Restricted	0.94	Restricted	0.94	Slope	1.00
		permeability		permeability		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
013PD: Padonia-----	50	Not limited		Somewhat limited Depth to bedrock	0.03
Martin-----	40	Not limited		Somewhat limited Depth to saturated zone	0.19
				Slope	0.00
013SG: Shelby-----	88	Not limited		Somewhat limited Slope	0.04
013SM: Shelby-----	85	Somewhat limited Slope	0.00	Very limited Slope	1.00
085WB: Wymore-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
085WC: Wymore, eroded----	88	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
087MO: Martin-----	40	Not limited		Somewhat limited Depth to saturated zone	0.19
Oska-----	30	Not limited		Somewhat limited Depth to bedrock	0.01
087SC: Shelby-----	55	Not limited		Not limited	
Pawnee-----	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
601GC: Gosport-----	50	Somewhat limited Slope	0.68	Very limited Slope Depth to bedrock	1.00 0.20
601GT: Grundy-----	90	Somewhat limited Depth to saturated zone	0.44	Somewhat limited Depth to saturated zone	0.75
601KH: Knox-----	80	Not limited		Somewhat limited Slope	0.16
601LA: Ladoga-----	80	Not limited		Not limited	
601SH: Shelby-----	80	Not limited		Not limited	
601SM: Shelby-----	90	Not limited		Somewhat limited Slope	0.16
Ab: Albaton-----	86	Very limited Too clayey Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Too clayey Ponding Depth to saturated zone Flooding	1.00 1.00 1.00 0.60
Ae: Aksarben-----	85	Not limited		Somewhat limited Slope	0.00
AED: Arents, Earthen Dam-	100	Not rated		Not rated	
Aq: Fluvaquents-----	95	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
Ar: Armster-----	85	Not limited		Somewhat limited Slope	0.04
As: Armster-----	85	Not limited		Somewhat limited Slope	0.96
Ch: Chase-----	90	Not limited		Somewhat limited Depth to saturated zone	0.19



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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
Go: Gosport-----	85	Very limited Slope	1.00	Very limited Slope Depth to bedrock	1.00 0.10
Gr: Grundy-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Gu: Grundy-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Gx: Grundy-----	90	Very limited Depth to saturated zone Too clayey	1.00	Very limited Depth to saturated zone Too clayey	1.00
Hn: Haynie-----	96	Not limited		Somewhat limited Flooding Depth to saturated zone	0.60 0.19
Ho: Haynie-----	60	Not limited		Somewhat limited Flooding Depth to saturated zone	0.60 0.19
Onawa-----	30	Very limited Ponding	1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 0.60 0.19
Ju: Judson-----	95	Not limited		Not limited	
Ke: Kennebec-----	89	Not limited		Somewhat limited Flooding	0.60
Kf: Kennebec, CHanneled-	85	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
Kg: Kennebec-----	60	Not limited		Somewhat limited Flooding	0.60
Colo-----	30	Not limited		Somewhat limited Flooding Depth to saturated zone	0.60 0.19
Kn: Knox-----	90	Not limited		Not limited	
Ky: Knox-----	60	Somewhat limited Slope	0.50	Very limited Slope	1.00
Gosport-----	30	Somewhat limited Slope	0.50	Very limited Slope Depth to bedrock	1.00 0.42
M-W: Miscellaneous Water-	100	Not rated		Not rated	
Mc: Martin-----	85	Not limited		Somewhat limited Depth to saturated zone	0.19
Mw: Muscotah-----	87	Not limited		Somewhat limited Flooding Depth to saturated zone	0.60 0.22
No: Nodaway-----	90	Not limited		Somewhat limited Flooding	0.60
Od: Onawa-----	95	Very limited Ponding	1.00	Very limited Ponding Flooding	1.00 0.60
On: Onawa, sicl, 0-2%, occ. flood-----	53	Very limited  Ponding	  1.00	Very limited  Ponding Flooding	  1.00 0.60

RECREATIONAL INTERPRETATIONS--Continued  
Atchison County, Kansas

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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
Waldron, sic1, 0-2%, occ. flooded-----	43	Very limited		Depth to saturated zone Very limited	0.19
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
Ow: Onawet-----	95	Very limited Ponding Flooding	1.00 0.40	Flooding	0.60
Pa: Knox-----	50	Not limited		Very limited Ponding Flooding	1.00 1.00
Palermo-----	50	Not limited		Somewhat limited Slope	0.96
Pb: Palermo-----	95	Somewhat limited Slope	0.82	Somewhat limited Slope	0.96
Pc: Pawnee-----	85	Very limited Depth to saturated zone	1.00	Very limited Slope	1.00
Pd: Pawnee, eroded-----	90	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 1.00
Pt: Pits, Quarries-----	100	Not rated		Not rated	
Re: Reading-----	90	Not limited		Not limited	
Sb: Sharpsburg-----	85	Not limited		Not limited	
Sc: Sharpsburg-----	85	Not limited		Not limited	
Sh: Shelby-----	85	Not limited		Somewhat limited Slope	0.00
Sm: Shelby, eroded-----	88	Not limited		Somewhat limited Slope	0.37
Ss: Shelby, eroded-----	55	Somewhat limited Slope	0.32	Very limited Slope	1.00
Steinauer-----	35	Somewhat limited Slope	0.32	Very limited Slope	1.00
Vr: Rock Outcrop-----	60	Not rated		Not rated	
Vinland-----	26	Very limited Slope	1.00	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.11
Vs: Vinland-----	85	Not limited		Very limited Depth to bedrock Slope Droughty	1.00 0.16 0.00
W: Water-----	100	Not rated		Not rated	
Wa: Wabash-----	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
Wb: Wabash-----	90	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Flooding	1.00
		Flooding	0.40	Depth to saturated zone Too clayey	1.00
Wg: Wamego-----	50	Not limited		Somewhat limited Depth to bedrock	0.84

RECREATIONAL INTERPRETATIONS--Continued  
Atchison County, Kansas

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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
Vinland-----	40	Not limited		Slope Very limited	0.04
				Depth to bedrock	1.00
				Slope	0.04
				Droughty	0.00
Wh: Wathena-----	55	Very limited Ponding Too sandy	1.00 0.50	Very limited Ponding	1.00
				Flooding	0.60
				Droughty	0.41
Haynie-----	40	Not limited		Somewhat limited	
				Flooding	0.60
				Depth to saturated zone	0.19
Wm: Wymore-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Wn: Wymore-----	82	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

