

Recreational Interpretations

General

The purpose of these interpretative ratings are to help engineers, planners, and others understand how soil properties influence behavior when used for recreational uses such as camp areas, picnic areas, playgrounds, and paths and trails. Soils are rated for the uses expected to be important or potentially important to users of soil survey information. Ratings for proposed uses are given in terms of limitations. Only the most restrictive features are listed. Other features may need to be treated to overcome soil limitations for a specific purpose.

Soils are rated in their "natural" state, that is, no unusual modification of the soil site or material is made other than that which is considered normal practice for the rated use. Even though soils may have limitations, it is important to remember that engineers and others can modify soil features or can design or adjust the plans for a recreational use to compensate for most degrees of limitations. Most of these practices are costly. The final decision in selecting a site for a particular use generally involves weighing the costs for site preparation and maintenance.

Limitation Ratings

SLIGHT - is the rating given soils that have properties favorable for the use. The degree of limitation is minor and can be overcome easily. Good performance and low maintenance can be expected.

MODERATE - is the rating given soils that have properties moderately favorable for the use. This degree of limitation can be overcome or modified by special planning, design, or maintenance. During some part of the year, the expected performance is less desirable than for soils rated slight.

SEVERE - is the rating given soils that have one or more properties unfavorable for the rated use, such as steep slopes, bedrock near the surface, flooding, or a seasonal high water table. This degree of limitation generally requires major soil reclamation, special design, or intensive maintenance, which in most situations is difficult and costly.

Other important considerations for evaluating a site include:

- ✓ Location and accessibility of the area
- ✓ Size and shape of the area and its scenic quality
- ✓ The ability of the soil to support vegetation
- ✓ Access to water
- ✓ Potential water impoundment sites available
- ✓ Access to public sewer lines or capacity of the soil to absorb septic tank effluent.

Camp Areas

These are tracts of land used intensively as sites for tents, trailers, campers, and accompanying activities of outdoor living. Camp areas require such site preparation as shaping and leveling in areas for tents and parking areas, for stabilizing roads and intensively used areas, and for installing sanitary facilities and utility lines. Camp areas

are subject to heavy foot traffic and some vehicular traffic. The soils are rated on the basis of soil properties that influence the ease of developing camping area and the performance of the camping area after development. Soil properties that influence trafficability and promote the growth of vegetation after heavy use are also important.

Picnic Areas

Picnic areas are natural or landscaped tracts used primarily for preparing meals and eating outdoors. These areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking lots. Soils are rated on the basis of properties that influence development costs of shaping the site, trafficability, and growth of vegetation after development. The surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry.

Playgrounds

These are areas used intensively for games such as baseball, football, and similar activities. Playgrounds require a nearly level soil that is free of stones and that can withstand heavy foot traffic and still maintain adequate vegetation. Soils are rated on the basis of properties that influence cost of shaping, trafficability, and growth of vegetation. Slope and stoniness are the main concerns in developing playgrounds. For good trafficability, the surface of playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry.

Paths and Trails

Paths and trails are used for walking, horseback riding, and similar uses, and should require little or no cutting and filling in site preparation. Soils are rated on properties that influence trafficability and erodibility. Paths and trails should remain firm under foot traffic and not be dusty when dry.

This subsection includes:

- **Recreational Site Development**

Linn County, Missouri: Detailed Soil Map Legend

Recreation Site Development

(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 0.00 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	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1B2: Armstrong-----	Moderately limited ~wetness (moderately limited)	0.50	Moderately limited ~percs slowly (moderately limited)	0.39	Moderately limited ~wetness (moderately limited)	0.50	Slightly limited ~wetness (slightly limited)	0.28
	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~slope (moderately limited)	0.40		
					~percs slowly (moderately limited)	0.39		
1C2: Armstrong-----	Moderately limited ~too clayey (moderately limited)	0.60	Moderately limited ~too clayey (moderately limited)	0.60	Very limited ~slope (very limited)	1.00	Moderately limited ~too clayey (moderately limited)	0.60
	~wetness (moderately limited)	0.50	~percs slowly (moderately limited)	0.39	~too clayey (moderately limited)	0.60	~wetness (slightly limited)	0.28
	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~wetness (moderately limited)	0.50		
1C3: Armstrong-----	Moderately limited ~too clayey (moderately limited)	0.60	Moderately limited ~too clayey (moderately limited)	0.60	Very limited ~slope (very limited)	1.00	Moderately limited ~too clayey (moderately limited)	0.60
	~wetness (moderately limited)	0.50	~percs slowly (moderately limited)	0.39	~too clayey (moderately limited)	0.60	~wetness (slightly limited)	0.28
	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~wetness (moderately limited)	0.50		

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1D2: Armstrong-----	Limited ~slope (limited) ~too clayey (moderately limited) ~wetness (moderately limited)	0.63 0.60 0.50	Limited ~slope (limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	0.63 0.60 0.39	Very limited ~slope (very limited) ~too clayey (moderately limited) ~wetness (moderately limited)	1.00 0.60 0.50	Moderately limited ~too clayey (moderately limited) ~wetness (slightly limited)	0.60 0.28
1D3: Armstrong-----	Limited ~slope (limited) ~too clayey (moderately limited) ~wetness (moderately limited)	0.63 0.60 0.50	Limited ~slope (limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	0.63 0.60 0.39	Very limited ~slope (very limited) ~too clayey (moderately limited) ~wetness (moderately limited)	1.00 0.60 0.50	Moderately limited ~too clayey (moderately limited) ~wetness (slightly limited)	0.60 0.28
2D2: Purdin-----	Limited ~slope (limited) ~percs slowly (moderately limited)	0.63 0.39	Limited ~slope (limited) ~percs slowly (moderately limited)	0.63 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Not limited	

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
2D3: Purdin-----	Limited ~slope (limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	0.63 0.60 0.39	Limited ~slope (limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	0.63 0.60 0.39	Very limited ~slope (very limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	1.00 0.60 0.39	Moderately limited ~too clayey (moderately limited)	0.60
2E2: Purdin-----	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Slightly limited ~slope (slightly limited)	0.25
2E3: Purdin-----	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~slope (very limited) ~percs slowly (moderately limited)	1.00 0.39	Slightly limited ~slope (slightly limited)	0.25
3B: Kilwinning-----	Very limited ~percs slowly (very limited) ~wetness (limited)	1.00 0.96	Very limited ~percs slowly (very limited) ~wetness (limited)	1.00 0.60	Very limited ~percs slowly (very limited) ~wetness (limited) ~slope (moderately limited)	1.00 0.96 0.40	Limited ~wetness (limited)	0.60

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
4D2: Winnegan-----	Limited ~slope (limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	0.63 0.60 0.39	Limited ~slope (limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	0.63 0.60 0.39	Very limited ~slope (very limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	1.00 0.60 0.39	Moderately limited ~too clayey (moderately limited)	0.60
4D3: Winnegan-----	Limited ~slope (limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	0.63 0.60 0.39	Limited ~slope (limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	0.63 0.60 0.39	Very limited ~slope (very limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	1.00 0.60 0.39	Moderately limited ~too clayey (moderately limited)	0.60
4E2: Winnegan-----	Very limited ~slope (very limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	1.00 0.60 0.39	Very limited ~slope (very limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	1.00 0.60 0.39	Very limited ~slope (very limited) ~too clayey (moderately limited) ~percs slowly (moderately limited)	1.00 0.60 0.39	Moderately limited ~too clayey (moderately limited) ~slope (slightly limited)	0.60 0.25

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
4E3: Winnegan-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Moderately limited ~too clayey (moderately limited)	0.60
	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60	~slope (slightly limited)	0.25
	~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39		
4F: Winnegan-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00
	~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39		
5B2: Leonard-----	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~slope (moderately limited)	0.40		
					~percs slowly (moderately limited)	0.39		

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7B: Grundy-----	Limited ~wetness (limited) ~percs slowly (moderately limited)	0.75 0.39	Moderately limited ~wetness (moderately limited) ~percs slowly (moderately limited)	0.45 0.39	Limited ~wetness (limited) ~percs slowly (moderately limited) ~slope (slightly limited)	0.75 0.39 0.10	Moderately limited ~wetness (moderately limited)	0.45
9B2: Lagonda-----	Moderately limited ~wetness (moderately limited) ~percs slowly (moderately limited)	0.50 0.39	Moderately limited ~percs slowly (moderately limited) ~wetness (slightly limited)	0.39 0.28	Moderately limited ~wetness (moderately limited) ~slope (moderately limited) ~percs slowly (moderately limited)	0.50 0.40 0.39	Slightly limited ~wetness (slightly limited)	0.28
9C2: Lagonda-----	Moderately limited ~wetness (moderately limited) ~percs slowly (moderately limited)	0.50 0.39	Moderately limited ~percs slowly (moderately limited) ~wetness (slightly limited)	0.39 0.28	Very limited ~slope (very limited) ~wetness (moderately limited) ~percs slowly (moderately limited)	1.00 0.50 0.39	Slightly limited ~wetness (slightly limited)	0.28

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
10F2: Gosport-----	Very limited ~percs slowly (very limited)	1.00	Very limited ~percs slowly (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~erodes easily (very limited)	1.00
	~slope (very limited)	1.00	~slope (very limited)	1.00	~percs slowly (very limited)	1.00	~slope (limited)	0.67
	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60
12C2: Keswick-----	Moderately limited ~too clayey (moderately limited)	0.60	Moderately limited ~too clayey (moderately limited)	0.60	Very limited ~slope (very limited)	1.00	Moderately limited ~too clayey (moderately limited)	0.60
	~wetness (moderately limited)	0.50	~percs slowly (moderately limited)	0.39	~too clayey (moderately limited)	0.60	~wetness (slightly limited)	0.28
	~percs slowly (moderately limited)	0.39	~wetness (slightly limited)	0.28	~wetness (moderately limited)	0.50		
12D2: Keswick-----	Limited ~slope (limited)	0.63	Limited ~slope (limited)	0.63	Very limited ~slope (very limited)	1.00	Very limited ~erodes easily (very limited)	1.00
	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60
	~wetness (moderately limited)	0.50	~percs slowly (moderately limited)	0.39	~wetness (moderately limited)	0.50	~wetness (slightly limited)	0.28

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
14B: Gorin-----	Moderately limited ~wetness (moderately limited) ~percs slowly (moderately limited)	0.50 0.39	Moderately limited ~percs slowly (moderately limited) ~wetness (slightly limited)	0.39 0.28	Moderately limited ~wetness (moderately limited) ~slope (moderately limited) ~percs slowly (moderately limited)	0.50 0.40 0.39	Slightly limited ~wetness (slightly limited)	0.28
14C2: Gorin-----	Moderately limited ~wetness (moderately limited) ~percs slowly (moderately limited)	0.50 0.39	Moderately limited ~percs slowly (moderately limited) ~wetness (slightly limited)	0.39 0.28	Very limited ~slope (very limited) ~wetness (moderately limited) ~percs slowly (moderately limited)	1.00 0.50 0.39	Slightly limited ~wetness (slightly limited)	0.28
22B: Olmitz-----	Not limited		Not limited		Moderately limited ~slope (moderately limited)	0.40	Not limited	
25: Chariton-----	Very limited ~wetness (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~wetness (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~wetness (very limited) ~percs slowly (moderately limited)	1.00 0.39	Very limited ~wetness (very limited)	1.00

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
27B: Gifford-----	Very limited ~percs slowly (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~percs slowly (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~percs slowly (very limited) ~wetness (very limited) ~slope (moderately limited)	1.00 1.00 0.40	Very limited ~wetness (very limited)	1.00
27C2: Gifford-----	Very limited ~percs slowly (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~percs slowly (very limited) ~wetness (very limited)	1.00 1.00	Very limited ~percs slowly (very limited) ~wetness (very limited) ~slope (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited)	1.00
29: Humeston-----	Very limited ~flooding (very limited) ~wetness (very limited) ~percs slowly (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~percs slowly (very limited)	1.00 1.00	Very limited ~wetness (very limited) ~percs slowly (very limited) ~flooding (moderately limited)	1.00 1.00 0.60	Very limited ~wetness (very limited)	1.00

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
31A: Colo-----	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (very limited)	1.00	~flooding (moderately limited)	0.60	~wetness (very limited)	1.00	~flooding (moderately limited)	0.60
	~too clayey (moderately limited)	0.30	~too clayey (moderately limited)	0.30	~too clayey (moderately limited)	0.30	~too clayey (moderately limited)	0.30
31B: Colo-----	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (very limited)	1.00	~flooding (moderately limited)	0.60	~wetness (very limited)	1.00	~flooding (moderately limited)	0.60
	~too clayey (moderately limited)	0.30	~too clayey (moderately limited)	0.30	~slope (moderately limited)	0.40	~too clayey (moderately limited)	0.30
35: Blackoar-----	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (very limited)	1.00	~flooding (moderately limited)	0.60	~wetness (very limited)	1.00	~flooding (moderately limited)	0.60

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
36: Chequest-----	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (very limited)	1.00	~too clayey (moderately limited)	0.60	~wetness (very limited)	1.00	~flooding (moderately limited)	0.60
	~too clayey (moderately limited)	0.60	~flooding (moderately limited)	0.60	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60
37: Zook-----	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (very limited)	1.00	~too clayey (moderately limited)	0.60	~flooding (moderately limited)	0.60	~too clayey (moderately limited)	0.60
	~too clayey (moderately limited)	0.60	~percs slowly (moderately limited)	0.39	~too clayey (moderately limited)	0.60		
38: Landes-----	Very limited ~flooding (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60	Very limited ~flooding (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60
39: Kennebec-----	Very limited ~flooding (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60	Very limited ~flooding (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40: Portage-----	Very limited ~too clayey (very limited)	1.00	Very limited ~too clayey (very limited)	1.00	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~flooding (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00	~too clayey (very limited)	1.00
	~wetness (very limited)	1.00	~percs slowly (very limited)	1.00	~too clayey (very limited)	1.00	~flooding (moderately limited)	0.60
41: Vesser-----	Very limited ~flooding (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~wetness (very limited)	1.00			~flooding (moderately limited)	0.60		
43: Fatima-----	Very limited ~flooding (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60	Very limited ~flooding (very limited)	1.00	Moderately limited ~flooding (moderately limited)	0.60
90: Udorthents-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Slightly limited ~slope (slightly limited)	0.08
					~large stones (slightly limited)	0.01		

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Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
94F: Lenzburg-----	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~slope (very limited)	1.00	Very limited ~erodes easily (very limited)	1.00
	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60	~too clayey (moderately limited)	0.60
	~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13	~slope (moderately limited)	0.42
M-W: Water-----	Not rated		Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated		Not rated	