

RECREATIONAL INTERPRETATIONS  
Grant County, North Dakota

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.

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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.

RECREATION DEVELOPMENT--Continued  
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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
1B: AMOR-----	Slight	Slight	Moderate: area reclaim slope thin layer	Slight	Moderate: area reclaim thin layer
1C: AMOR-----	Slight	Slight	Severe: slope	Slight	Moderate: area reclaim thin layer
3D: AMOR-----	Moderate: large stones slope	Moderate: large stones slope	Severe: large stones slope	Slight	Moderate: large stones slope thin layer
CABBA-----	Moderate: slope	Moderate: slope	Severe: large stones slope	Slight	Moderate: area reclaim slope thin layer
5D: AMOR-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: area reclaim slope thin layer
CABBA-----	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Slight	Severe: depth to rock
6: ARNEGARD-----	Slight	Slight	Moderate: slope	Slight	Slight
6B: ARNEGARD-----	Slight	Slight	Moderate: slope	Slight	Slight
7: BANKS-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding droughty
8: BREIEN-----	Severe: flooding	Slight	Slight	Slight	Moderate: droughty
9: BOWDLE-----	Slight	Slight	Moderate: slope	Slight	Slight
10F: CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock
11F: CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Moderate: slope	Severe: slope depth to rock
BRANDENBURG-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty

RECREATION DEVELOPMENT--Continued  
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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
12C: CHAMA-----	Slight	Slight	Severe: slope	Slight	Moderate: area reclaim thin layer
CABBA-----	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Slight	Severe: depth to rock
12D: CHAMA-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: area reclaim slope thin layer
CABBA-----	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Slight	Severe: depth to rock
13F: BADLAND-----	Severe: excess salt depth to rock	Severe: excess salt depth to rock	Severe: excess salt slope depth to rock	Severe: erodes easily	Severe: excess salt depth to rock
CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Moderate: slope	Severe: slope depth to rock
15B: DAGLUM-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
19F: CABBA-----	Severe: large stones slope	Severe: large stones slope	Severe: large stones slope	Severe: slope	Severe: slope
20B: DESART-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
25C: EKALAKA-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
LEMERT-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
30F: FLASHER-----	Severe: area reclaim slope thin layer	Severe: area reclaim slope thin layer	Severe: area reclaim slope thin layer	Severe: slope	Severe: area reclaim slope thin layer
31F: FLASHER-----	Severe: large stones slope thin layer	Severe: large stones slope thin layer	Severe: large stones slope thin layer	Severe: slope	Severe: area reclaim slope thin layer
33: ARVESON-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
35: GRAIL-----	Slight	Slight	Moderate: slope	Severe: erodes easily	Slight
37: GRAIL-----	Slight	Slight	Moderate: slope	Severe: erodes easily	Slight
BELFIELD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
DAGLUM-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
40: HARRIET-----	Severe: flooding percs slowly wetness	Severe: excess sodium percs slowly wetness	Severe: percs slowly wetness	Severe: wetness	Severe: excess sodium wetness
41: HEIL-----	Severe: percs slowly too clayey ponding	Severe: excess sodium too clayey ponding	Severe: percs slowly too clayey ponding	Severe: too clayey ponding	Severe: excess sodium too clayey ponding
42: LAWTHER-----	Moderate: too clayey	Moderate: too clayey	Moderate: slope too clayey	Slight	Severe: too clayey
44B: LIHEN-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
46: DUMPS AND PITS--	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
48B: MOREAU-----	Slight	Slight	Moderate: slope thin layer	Slight	Moderate: thin layer
48C: MOREAU-----	Slight	Slight	Severe: slope	Slight	Moderate: thin layer
52: REGAN-----	Severe: flooding wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
53B: REGENT-----	Slight	Slight	Moderate: slope	Severe: erodes easily	Moderate: thin layer
53C: REGENT-----	Slight	Slight	Severe: slope	Severe: erodes easily	Moderate: thin layer
54B: REGENT-----	Slight	Slight	Moderate: slope	Severe: erodes easily	Moderate: thin layer

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RHOADES-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
54C: REGENT-----	Slight	Slight	Severe: slope	Severe: erodes easily	Moderate: thin layer
RHOADES-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium slope	Slight	Severe: excess sodium
55C: RHOADES-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
DAGLUM-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
56B: RUSO-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
57B: SAVAGE-----	Slight	Slight	Moderate: slope	Severe: erodes easily	Slight
59D: SEROCO-----	Moderate: slope too sandy	Moderate: slope too sandy	Severe: slope	Moderate: too sandy	Moderate: slope droughty
BLOWNOUT LAND---	Severe: too sandy wetness	Severe: too sandy wetness	Severe: too sandy wetness	Severe: too sandy wetness	Severe: wetness
60: SHAMBO-----	Slight	Slight	Moderate: slope	Slight	Slight
60B: SHAMBO-----	Slight	Slight	Moderate: slope	Slight	Slight
62B: DAGLUM VARIANT--	Severe: area reclaim excess sodium thin layer	Severe: area reclaim excess sodium thin layer	Severe: area reclaim excess sodium thin layer	Slight	Severe: area reclaim excess sodium thin layer
DAGLUM-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
63: STRAW-----	Severe: flooding	Slight	Slight	Slight	Slight
64: CHANNEL-----	---	---	---	---	---
STRAW-----	Severe: flooding	Moderate: flooding	Slight	Moderate: flooding	Severe: flooding
65B: PARSHALL-----	Slight	Slight	Moderate: slope	Slight	Slight

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68C: TELFER-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
SEROCO-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
70B: BEISIGL-----	Slight	Slight	Moderate: slope small stones thin layer	Slight	Moderate: thin layer droughty
LIHEN-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
FLASHER-----	Severe: area reclaim thin layer	Severe: area reclaim thin layer	Severe: area reclaim thin layer	Slight	Severe: area reclaim thin layer
70D: BEISIGL-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope thin layer droughty
FLASHER-----	Severe: area reclaim thin layer	Severe: area reclaim thin layer	Severe: area reclaim slope thin layer	Slight	Severe: area reclaim thin layer
71B: SEN-----	Slight	Slight	Moderate: slope depth to rock	Slight	Moderate: depth to rock
80B: VEBAR-----	Slight	Slight	Moderate: area reclaim slope thin layer	Slight	Moderate: area reclaim thin layer
PARSHALL-----	Slight	Slight	Moderate: slope	Slight	Slight
80C: VEBAR-----	Slight	Slight	Severe: slope	Slight	Moderate: area reclaim thin layer
83D: VEBAR-----	Moderate: large stones slope	Moderate: large stones slope	Severe: large stones slope	Slight	Severe: large stones
84D: VEBAR-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: area reclaim slope thin layer

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
FLASHER-----	Severe: area reclaim thin layer	Severe: area reclaim thin layer	Severe: area reclaim slope thin layer	Slight	Severe: area reclaim thin layer
90: VELVA-----	Severe: flooding	Slight	Slight	Slight	Slight
91F: SCHALLER-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope droughty
CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Moderate: slope	Severe: slope depth to rock
92: BELFIELD-----	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Slight	Severe: excess sodium excess salt
DAGLUM-----	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Slight	Severe: excess sodium excess salt
93: BELFIELD-----	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Slight	Severe: excess sodium excess salt
GRAIL-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Slight	Severe: excess salt
94: DAGLUM-----	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Slight	Severe: excess sodium excess salt
RHOADES-----	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Severe: excess sodium excess salt	Slight	Severe: excess sodium excess salt
95: MOREAU-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: too clayey	Severe: excess salt too clayey
96: PARSHALL-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Slight	Severe: excess salt
99D: AMOR-----	Slight	Slight	Severe: slope	Slight	Moderate: area reclaim thin layer
101: BRISBANE-----	Slight	Slight	Moderate: slope	Slight	Slight
M-W: MISCELLANEOUS WATER-----	---	---	---	---	---

