

RECREATIONAL INTERPRETATIONS
Mountrail 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.

RECREATIONAL INTERPRETATIONS
Mountrail County, North Dakota

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
Mountrail County, North Dakota

(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
2: PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
3: TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
4: VALLERS-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
5: BELFIELD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
9B: SAVAGE-----	Slight	Slight	Moderate: slope	Severe: erodes easily	Slight
10: MAKOTI-----	Slight	Slight	Moderate: slope	Slight	Slight
12: BOWDLE-----	Slight	Slight	Moderate: slope	Slight	Slight
14: DIVIDE-----	Slight	Slight	Slight	Slight	Slight
15: CHANNEL-----	---	---	---	---	---
STRAW-----	Severe: flooding	Moderate: flooding	Slight	Moderate: flooding	Severe: flooding
17: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Slight	Slight
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
18B: SHAMBO-----	Slight	Slight	Moderate: slope	Slight	Slight
18C: SHAMBO-----	Slight	Slight	Severe: slope	Slight	Slight
19: NUTLEY-----	Moderate: too clayey	Moderate: too clayey	Moderate: slope too clayey	Moderate: too clayey	Severe: too clayey
19B: NUTLEY-----	Moderate: too clayey	Moderate: too clayey	Moderate: slope too clayey	Moderate: too clayey	Severe: too clayey
23: WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight

RECREATION DEVELOPMENT--Continued
Mountrail County, North Dakota

(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
23B: WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
ZAHL-----	Slight	Slight	Moderate: slope	Slight	Slight
24C: WILLIAMS-----	Slight	Slight	Severe: slope	Slight	Slight
ZAHL-----	Slight	Slight	Severe: slope	Slight	Slight
24E: ZAHL-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
WILLIAMS-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
24F: ZAHL-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
MAX-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
25C: ZAHL-----	Slight	Slight	Severe: slope	Slight	Slight
WILLIAMS-----	Slight	Slight	Severe: slope	Slight	Slight
BOWBELLS-----	Slight	Slight	Moderate: slope	Slight	Slight
27: KORCHEA-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
STRAW-----	Severe: flooding	Slight	Slight	Slight	Moderate: flooding
32: BOWBELLS-----	Slight	Slight	Moderate: slope	Slight	Slight
35: BOWBELLS-----	Slight	Slight	Slight	Slight	Slight
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
39: FARNUF-----	Slight	Slight	Moderate: slope	Slight	Slight
39B: FARNUF-----	Slight	Slight	Moderate: slope	Slight	Slight
SAKAKAWEA-----	Slight	Slight	Moderate: slope	Slight	Slight

RECREATION DEVELOPMENT--Continued
Mountrail County, North Dakota

(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
41: HAMERLY-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt
DIVIDE-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Slight	Severe: excess salt
44B: LIHEN-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
45B: PARSHALL-----	Slight	Slight	Moderate: slope	Slight	Slight
47B: LEHR-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
49B: MANNING-----	Slight	Slight	Moderate: slope small stones	Slight	Moderate: droughty
50C: SAKAKAWEA-----	Slight	Slight	Severe: slope	Slight	Slight
51B: LIVONA-----	Slight	Slight	Moderate: slope	Slight	Slight
53C: LIHEN-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
SAKAKAWEA-----	Slight	Slight	Severe: slope	Slight	Slight
54E: WABEK-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
55E: CHERRY-----	Moderate: slope	Moderate: slope	Severe: slope	Severe: erodes easily	Moderate: slope
CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock
57F: BADLAND-----	Severe: excess salt slope depth to rock	Severe: excess salt slope depth to rock	Severe: excess salt slope depth to rock	Severe: erodes easily slope	Severe: excess salt slope depth to rock
CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock
58B: NOONAN-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight

RECREATION DEVELOPMENT--Continued
Mountrail County, North Dakota

(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
59E: MIRANDA-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
ZAHL-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
60: HARRIET-----	Severe: flooding percs slowly wetness	Severe: excess sodium percs slowly wetness	Severe: percs slowly wetness	Severe: wetness	Severe: excess sodium wetness
62E: RHOADES-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium slope	Slight	Severe: excess sodium
CABBA-----	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Slight	Severe: depth to rock
63F: CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock
SHAMBO-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
ARIKARA-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
65: SOUTHAM-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
66E: 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
VEBAR-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: area reclaim slope thin layer
67B: RHOADES-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
SAVAGE-----	Slight	Slight	Moderate: slope	Severe: erodes easily	Slight
71B: MIRANDA-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
NOONAN-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
76: PITS, GRAVEL----	Severe: slope small stones	Severe: slope too sandy	Severe: slope small stones	Severe: slope too sandy	Severe: slope small stones droughty

RECREATION DEVELOPMENT--Continued
Mountrail County, North Dakota

(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
80E: VEBAR-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: area reclaim slope thin layer
FLASHER-----	Severe: area reclaim slope thin layer	Severe: area reclaim slope thin layer	Severe: area reclaim slope thin layer	Moderate: slope	Severe: area reclaim slope thin layer
ZAHL-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
81F: CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock
BADLAND-----	Severe: excess salt slope depth to rock	Severe: excess salt slope depth to rock	Severe: excess salt slope depth to rock	Severe: erodes easily slope	Severe: excess salt slope depth to rock
82E: ZAHL-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
WILLIAMS-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding

