

RECREATIONAL INTERPRETATIONS
Nelson County Area, 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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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: PLAYMOOR, SALINE	Severe: excess salt flooding wetness	Severe: excess salt wetness	Severe: excess salt flooding wetness	Severe: wetness	Severe: excess salt flooding wetness
4: SOUTHAM-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
5: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
7: PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
VALLERS-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
10: SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
11B: SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
BUSE-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
11C: SVEA-----	Slight	Slight	Severe: slope	Slight	Slight
BUSE-----	Slight	Slight	Severe: slope	Slight	Slight
12B: BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
13D: BUSE-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
SVEA-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
13E: BUSE-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
SVEA-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
14D: SIOUX-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope droughty
BARNES-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
15: BORUP-----	Severe: flooding wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
17: BORUP, SALINE---	Severe: excess salt flooding wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
20: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
20B: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly slope wetness	Moderate: wetness	Moderate: wetness
21: VALLERS, SALINE-	Severe: excess salt flooding wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
HAMERLY, SALINE-	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt
22: VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
23: CAVOUR-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
24: CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
SVEA-----	Slight	Slight	Moderate: small stones	Slight	Slight

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25: MIRANDA-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
CAVOUR-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
26B: CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
27: HAMAR-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
28E: WAMDUSKA-----	Severe: large stones slope	Severe: large stones slope	Severe: large stones slope small stones	Severe: large stones slope	Severe: large stones slope droughty
29B: MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
30: EMBDEN-----	Slight	Slight	Slight	Slight	Slight
31B: EGELAND-----	Slight	Slight	Moderate: slope	Slight	Slight
32B: GARDENA-----	Slight	Slight	Moderate: slope	Slight	Slight
33: GLYNDON-----	Slight	Slight	Slight	Slight	Slight
34: LADELLE-----	Severe: flooding	Slight	Slight	Slight	Moderate: flooding
35: LADELLE, CHANNELED-----	Severe: flooding	Moderate: flooding	Slight	Moderate: flooding	Severe: flooding
36B: ARVILLA-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
37: FORDVILLE-----	Slight	Slight	Slight	Slight	Slight
38B: RENSHAW-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty

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39E: SIOUX-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
40: DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
41: VANG-----	Slight	Slight	Slight	Slight	Slight
42B: BRANTFORD-----	Slight	Slight	Moderate: slope small stones	Slight	Moderate: droughty
43E: COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
44B: WALSH-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
44C: WALSH-----	Slight	Slight	Severe: slope	Slight	Slight
45E: ZELL-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
MADDOCK-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope too sandy	Severe: slope
46C: WAMDUSKA-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Severe: droughty
MAUVAIS-----	Severe: flooding wetness	Moderate: excess salt wetness	Severe: wetness	Moderate: wetness	Moderate: excess salt wetness
47: LALLIE, SALINE--	Severe: flooding ponding	Severe: excess salt ponding	Severe: flooding ponding	Severe: ponding	Severe: excess salt flooding ponding
48B: RENSHAW-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight

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70E: KLOTEN-----	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
BUSE-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
73: LAMOURE-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
W: WATER-----	---	---	---	---	---

