

SANDY RANGE SITE

1. TOPOGRAPHY

- a. This site is on nearly level to rolling glacial till plains, lake plains, and outwash plains. Slopes are typically from one to 15 percent.

2. SOILS

- a. These are deep, well drained, moderately coarse textured soils. Permeability is moderately rapid and available water capacity is moderate. These soils are friable and susceptible to wind erosion.

- b. Soil taxonomic units common to this site are:

Egeland sandy loam and fine sandy loam
Emlden sandy loam and fine sandy loam
Dickey sandy loam and fine sandy loam
Maddock sandy loam and fine sandy loam

Refer to Section II-A for a complete list of soil taxonomic units and range sites.

3. POTENTIAL VEGETATION

- a. Both cool and warm season midgrasses dominate the general appearance of this site. Principal plants are needleandthread, prairie sandreed, green needlegrass, western wheatgrass, and porcupinegrass. Other species are blue grama, sand dropseed, prairie dropseed, bearded wheatgrass, Kentucky bluegrass, and upland sedges. A variety of forbs make up about 10 percent of the total herbage production. Woody plants occur in smaller amounts.
- b. Continued heavy grazing by cattle results in a decrease of prairie sandreed, green needlegrass, western wheatgrass, porcupinegrass, prairie dropseed, and bearded wheatgrass. Needleandthread will initially increase and then decreases under heavy grazing. The species that increase are blue grama, sand dropseed, Kentucky bluegrass, and upland sedges.

Further deterioration of the site results in a dominance of short grasses, upland sedges, Kentucky bluegrass, and undesirable forbs and shrubs.

2--Sandy Range Site

- c. Approximate total annual production of this site in excellent condition is from 2150 to 2900 pounds of air-dry herbage per acre, depending on growing conditions.
- d. A detailed description of the vegetation in excellent condition is as follows:

Relative Percent Composition of the Potential Vegetation

	Mean Productivity	
	lbs/acre	% composition
Grasses		
Needleandthread	510	20
Prairie sandreed	383	15
Green needlegrass	128	5
Western wheatgrass	128	5
Prairie junegrass	128	5
Blue grama	127	5
Porcupinegrass	127	5
Little bluestem		
Prairie dropseed		
Bearded wheatgrass	255	10
Canada wildrye		
Sand dropseed		
Kentucky bluegrass		
Other grasses	127	5
Grasslikes		
Penn sedge		
Threadleaf sedge	255	10
Other sedges		
Forbs		
Heath aster		
Large goatsbeard		
Western yarrow		
Soft goldenrod	255	10
Cudweed sagewort		
Green sagewort		
Other forbs		
Shrubs and half-shrubs		
Fringed sagebrush		
Prairie rose		
Western snowberry	127	5
Leadplant amorphia		
Other shrubs		
Total	2550	100

3--Sandy Range Site

4. DOMESTIC LIVESTOCK GRAZING VALUE

- a. This site is suitable for both cattle and sheep grazing. A mixture of cool and warm season plants are available for forage. The best season of grazing is summer. The site also has spring and fall grazing value. Sites grazed during spring need a periodic rest to improve and maintain plant composition. Because of the wind erosion hazard, adequate cover should be maintained at all times.

5. WILDLIFE NATIVE TO THE SITE

- a. This site is used by the white-tailed deer and antelope. Small mammals found here are the pocket gopher, jackrabbit, and coyote. Upland birds common to this site are the sharp-tailed grouse, mourning dove, and upland plover. Songbirds using this site are the lark bunting, horned lark, meadowlark, and chestnut-collared longspur.

6. ESTHETIC AND RELATED VALUES

- a. This site offers something to the nature enthusiast and sportsman. It produces a variety of flowering plants during spring and summer. Both big game and upland game bird hunting are found on this range site.

7. HYDROLOGIC CHARACTERISTICS

- a. Runoff from good to excellent condition, properly grazed range site is slow. Water transmission rate of the soil is moderate.

8. A TYPICAL SITE LOCATION IN THIS AREA IS AS FOLLOWS

