

LANDSLIDE AREAS IN BILLINGS COUNTY, NORTH DAKOTA

EXPLANATION

Qls **Landslide Deposits**
A mass of material that has moved downslope. Includes earth flows, slumps, and areas of soil creep.

A **Abandoned Mine Lands (AML) location data** maintained by the North Dakota Public Service Commission's Abandoned Mine Lands Program.

ROAD CLASSIFICATION

Expressway Highway
Local Road
Interstate Route US Route State Route
Water Railroad

Scale: 1:125,000

0 1.5 3 4.5 6
Miles
0 1.5 3 4.5 6
Kilometers

North American 1983 Datum
Central Meridian 103°22'30"W
Mercator Projection
Standard Parallel 46°37'30"N

A cross-sectional diagram of a landslide. The diagram shows a slope with a yellow background representing the main body of displaced rock. A black line represents the rupture surface. A headscarp is visible at the top right, with tension cracks above it. The toe of the landslide is at the bottom left. The main body of displaced rock is labeled. The rupture surface is labeled. The toe is labeled. Tension cracks are labeled. Headscarp is labeled.

Figure 1. Generalized diagram of a rotational bedrock slump common to the badlands terrain of western North Dakota.

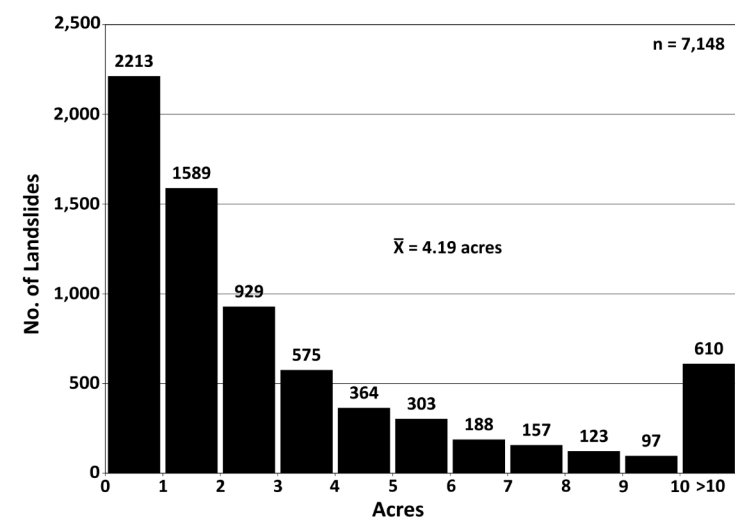
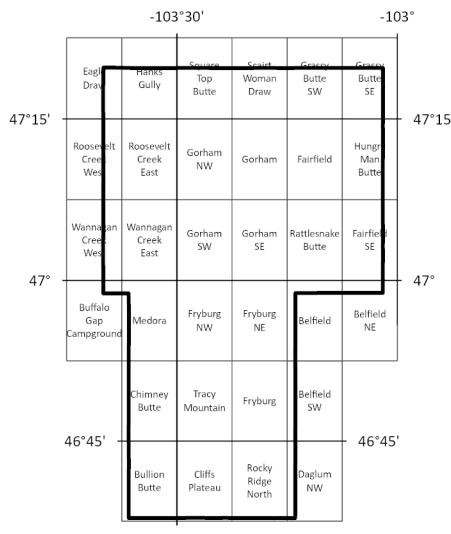
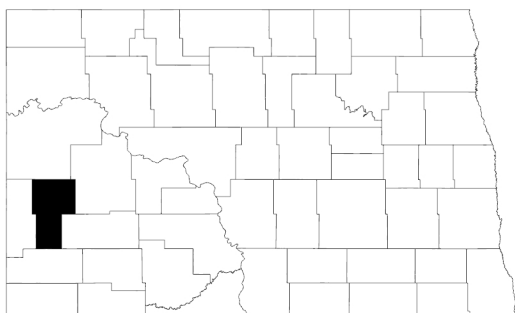


Figure 2. Distribution of landslide areas mapped in Billings County. Most landslide areas (74%) cover less than four acres. Some slides (8.5%) are over ten acres in size. The mean (\bar{x}) landslide area size is 4.19 acres. The number of landslide areas (n) in this distribution is 7,148. Within the 610 landslide areas that are greater than 10 acres, the mean is 24 acres. The largest landslide area mapped in the county covers 707 acres.



Index to 1:24,000 Quadrangles



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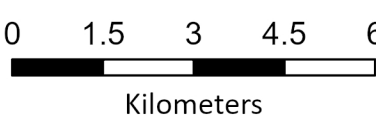
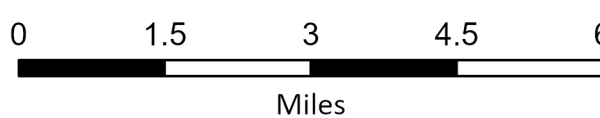
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