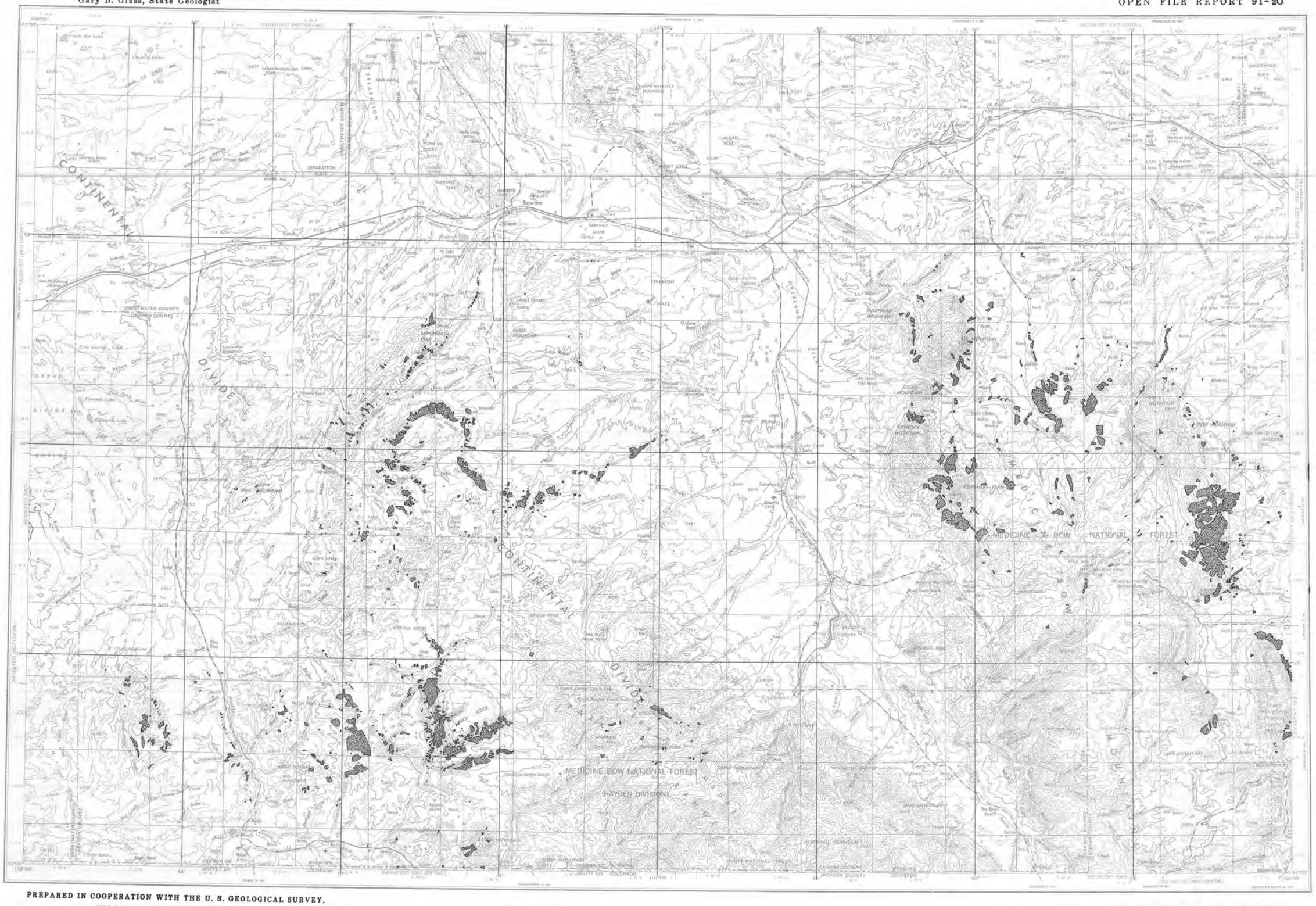
GEOLOGICAL SURVEY OF WYOMING
Gary B. Glass, State Geologist

OPEN FILE REPORT 91-20



Explanation

Landslides. Includes all mapped Quaternary and Holocene landslides. Current levels of activity not determined (All landslides may not be shown.)

Landslides are present in many areas of Wyoming, and they have been directly or indirectly responsible for loss of life and significant property damage. In 1985, the Geological Survey of Wyoming was awarded a contract (14-08-0001-A0223) from the U.S. Geological Survey to map landslides in Wyoming. That contract initiated an extensive landslide mapping project in the State. Over 800 7 1/2-minute and 25 15-minute quadrangles were mapped or remapped for landslides from 1985 to 1990.

On the 7 1/2-minute and 15-minute quadrangles, landslides were classified as complexes of falls, topples, slides, spreads, cohesive flows, and non-cohesive flows in bedrock, debris, or earth. The landslides were primarily identified through aerial photo interpretation with limited field checking. All landslides mapped are Quaternary age unless otherwise noted, and the majority are Holocene. Relative landslide ages were not assigned, and current levels of activity (active to stable) were not determined.

This 1° x 2° landslide map is compiled from the 7 1/2- and 15-minute landslide maps, which were photo reduced to a scale of 1:250,000 and transferred, by legal location, to the 1:250,000 scale base. Due to inaccuracies on the 1° x 2° bases, not all landslides plotted by legal location register exactly with topographic contours.

Due to the high landslide density in some areas, landslide classifications could not be shown on the 1° x 2° sheets. The 7 1/2- and 15-minute quadrangles with landslides are on file at the Geological Survey of Wyoming, and they should be used when classifications or exact locational-topographic relationships are required. Many of the 7 1/2- and 15-minute quadrangles are available for purchase in the Preliminary Landslide Map publication series. (Call for availability of particular quadrangles.) The 1 ° x 2° sheets are subdivided into 15-minute blocks, which are equivalent to four 7 1/2-minute quadrangles, to assist in locating the 7 1/2-minute quadrangles.

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BASE MAP FROM THE U.S. GEOLOGICAL SURVEY.

LANDSLIDE MAP OF THE RAWLINS 1° x 2° QUADRANGLE

MAPPED BY JAMES C. CASE AND LAURA L. LARSEN

1991

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