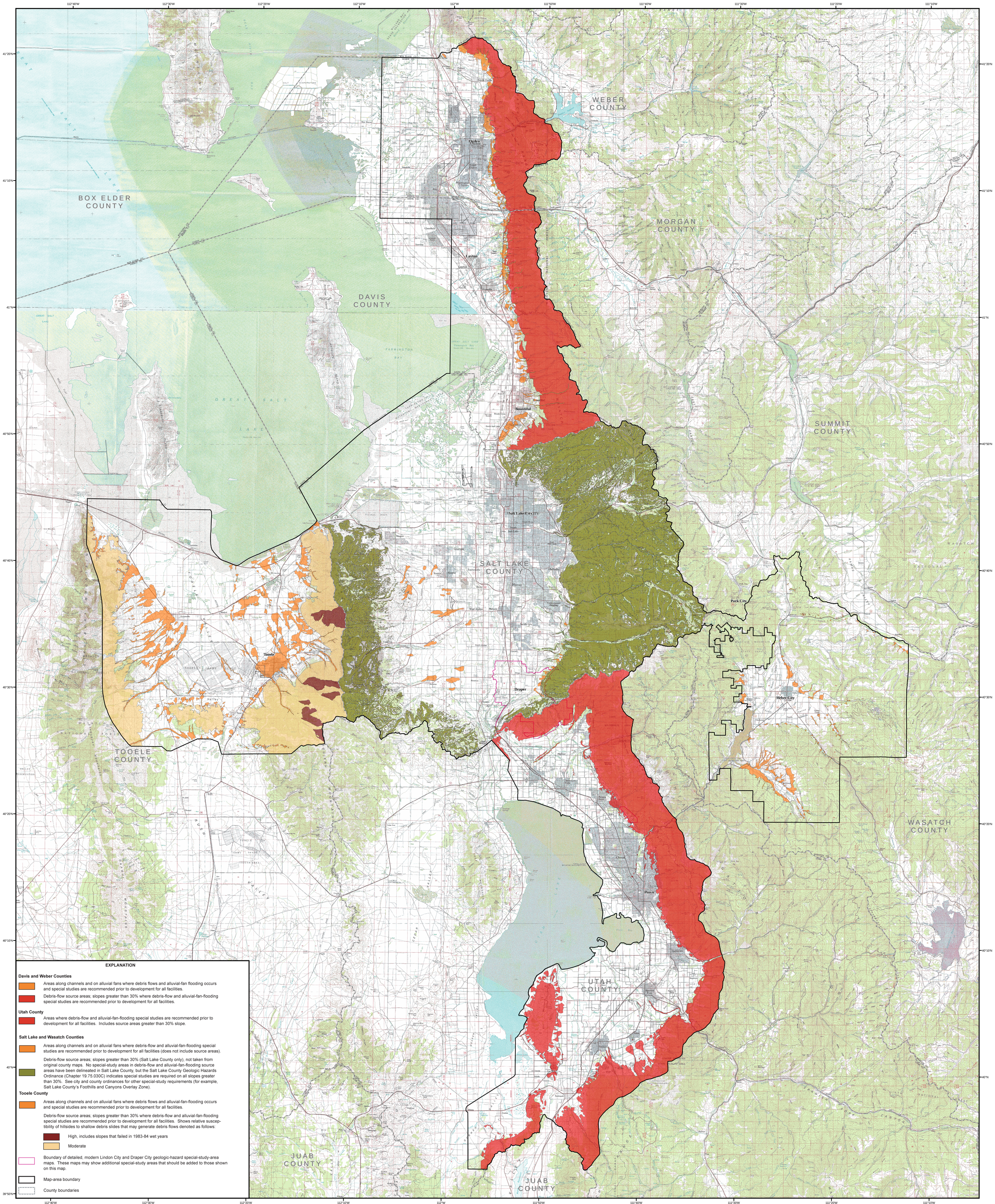
UTAH GEOLOGICAL SURVEY
a division of
Utah Department of Natural Resources

Supplement Map to Utah Geological Survey Circular 106
Debris-Flow/Alluvial-Fan Special Study Areas, Wasatch Front, Utah



EXPLANATION

Davis and Weber Counties

- Areas along channels and on alluvial fans where debris flows and alluvial-fan flooding occurs and special studies are recommended prior to development for all facilities.
- Debris-flow source areas; slopes greater than 30% where debris-flow and alluvial-fan-flooding special studies are recommended prior to development for all facilities.

Utah County

- Areas where debris-flow and alluvial-fan-flooding special studies are recommended prior to development for all facilities. Includes source areas greater than 30% slope.

Salt Lake and Wasatch Counties

- Areas along channels and on alluvial fans where debris-flow and alluvial-fan-flooding special studies are recommended prior to development for all facilities (does not include source areas).
- Debris-flow source areas; slopes greater than 30% (Salt Lake County only), not taken from original county maps. No special-study areas in debris-flow and alluvial-fan-flooding source areas have been delineated in Salt Lake County, but the Salt Lake County Geologic Hazards Ordinance (Chapter 19.75.030C) indicates special studies are required on all slopes greater than 30%. See city and county ordinances for other special-study requirements (for example, Salt Lake County's Foothills and Canyons Overlay Zone).

Tooele County

- Areas along channels and on alluvial fans where debris flows and alluvial-fan-flooding occurs and special studies are recommended prior to development for all facilities.
- Debris-flow source areas; slopes greater than 30% where debris-flow and alluvial-fan-flooding special studies are recommended prior to development for all facilities. Shows relative susceptibility of hillsides to shallow debris slides that may generate debris flows denoted as follows:
  - High, includes slopes that failed in 1983-84 wet years
  - Moderate
- Boundary of detailed, modern Lindon City and Draper City geologic-hazard special-study-area maps. These maps may show additional special-study areas that should be added to those shown on this map.
- Map-area boundary
- County boundaries

This map is a compilation of existing digital and hard-copy county maps and data, based on information provided in Utah Geological Survey (UGS) Circular 106 (see report for list of county and technical data sources); the UGS does not warrantee the content or accuracy of the original maps.

The GIS data provided in Circular 106 is for use at 1:24,000 scale only. This overview map at a scale of 1:200,000 is for general representation only, and should not be relied upon for other purposes.

Special studies for critical facilities should evaluate all hazards, even where outside special-study areas are shown on this map.

This map does not preclude the need for site-specific study.

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SEE ORIGINAL CITY OR COUNTY MAPS (PURPLE OUTLINES SHOW NEW MAPS AVAILABLE FOR LINDON CITY AND DRAPER CITY) FOR OFFICIAL SPECIAL-STUDY-AREA BOUNDARIES, AND SEE CITY OR COUNTY ORDINANCES AND REGULATIONS TO DETERMINE ACTUAL SPECIAL-STUDY REQUIREMENTS, WHICH MAY VARY FROM SPECIAL STUDIES RECOMMENDED HERE.

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Base from U.S. Geological Survey 1:100,000 Digital Raster Graphic. Geologic data and base map in NAD 1983.

SCALE 1:200,000

0 5 10 20 30 Kilometers

0 5 10 20 30 Miles

Contour Interval 40 Feet

DEBRIS-FLOW/ALLUVIAL-FAN SPECIAL STUDY AREAS, WASATCH FRONT AND NEARBY AREAS, UTAH

Compiled by Gary E. Christenson and Lucas M. Shaw
2008

This overview map is based on Geographic Information System (GIS) data provided in UGS Circular 106. Circular 106 provides digital GIS data that requires specialized GIS software to view, analyze, and print. This supplemental overview map was created to illustrate the extent of the GIS data coverage and is for general informational purposes only.

