

Reconnaissance Landslide Map of the Healdsburg
15-minute Quadrangle, Sonoma County, California

by
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consisting of the Healdsburg, Guerneville, Geyserville,
and Jintown 7.5 minute quadrangles

This map of landslide and other surficial deposits gives a preliminary indication of the distribution of landslides in the Healdsburg 15-minute quadrangle. In combination with other data, particularly bedrock geology, slope steepness, and hydrology, the landslide information can aid land-use decisions where slope stability may be of concern. Where the presence of landslides proven important, more detailed geologic study than is represented by this preliminary evaluation may be warranted. See Wilson and others (1979) for terminology, methods, and application of such data in the San Francisco Bay region; this report is reference 4 (Healdsburg) of their landslide compilation of the region (their fig. 39). See Blake and others (1971) and McLaughlin (1978; parts of Geyserville and Jintown quadrangles) for geology of the area.

The map was prepared in 1970-1972 by stereographic interpretation of aerial photographs at scales of 1:20,000-1:30,000 and 1:80,000, supplemented by limited field reconnaissance. Landslides evident in the landscape were identified by the presence of such characteristic topographic features as scarps, closed depressions, and downslope bulges that contrast with adjacent, undeformed terrain.

Debris flows and other kinds of landslides that, while potentially very damaging, exist as landslides only briefly during their rapid downslope movement are not represented on the maps. Debris flows (Smith and Hart, 1982) may be common in steep terrain in the area during severe rainstorms.

REFERENCES CITED

Blake, M.C., Jr., Smith, J.T., Wentworth, C.M., and Wright, R.H., 1971, Preliminary geologic map of western Sonoma County and northern Marin County, California: U.S. Geological Survey Open-File Map, scale 1:62,500.
McLaughlin, R.J., 1978, Preliminary geologic map and structural sections of the central Mayacmas Mountains and the Geysers steam field, Sonoma, Lake, and Mendocino Counties, California: U.S. Geological Survey Open-File Report 78-389, scale 1:24,000.
Wilson, T.H., Wright, R.H., Vianello, T.C., and Spangle, W.E., 1979, Relative slope stability and land-use planning in the San Francisco Bay region, California: U.S. Geological Survey Professional Paper 844.
Smith, T.C., and Hart, R.W., 1982, Landslides and related damage, January 1982, San Francisco Bay region: California Geology, v. 35, no. 7, p. 199-197.

EXPLANATION

- LANDSLIDES**
marked + where identification uncertain, P where probable, ? where uncertain, and dashed where only possible
- landslides less than about 500 feet in diameter
 - landslide
 - slip or slide
 - slided slide and slump
 - soil slide or shallow creep
 - Flow
 - slide
- OTHER SURFICIAL DEPOSITS**
- artificial fill
 - alluvium
 - stream terrace. Lowest (innermost) terrace may be subject to flooding - some noted as T₁.
 - terrace. Internal stream terrace complex, suggest where terrace steps are evident, down-slope from stream valley (for source of boundary)
 - alluvial fan
 - colluvium
 - bedrock (labeled only locally for clarity)
- af, fb, etc. various other combinations
symbols with labels by combinations of letters denoting several components, distinct one first: for example, af - alluvium and alluvial fans; T₁ - stream terrace, colluvium and alluvial fans
- artificial lake
 - contact, dashed where uncertain



Geyserville	Jintown
3	4
2	1
Guerneville	Healdsburg



Healdsburg 15-minute Quadrangle

Base from U.S. Geological Survey
Guerneville Quadrangle, 1955, 1:24,000



Photointerpretation in 1970-1972

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature

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