

Reconnaissance Landslide Map of the Healdsburg  
15-minute Quadrangle, Sonoma County, California  
by  
Carl M. Wentworth  
consisting of the Healdsburg, Guerneville, Geyserville,  
and Jintown 7 1/2 minute quadrangles

This map of landslides 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 landslide decision where slope stability may be of concern. Where the presence of landslides proves important, more detailed geologic study than is represented by this preliminary evaluation may be warranted. See Nilson 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 1:50,000, 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 dome-like 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 this map. 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 northernmost Marin County, California: U.S. Geological Survey Open-File Map, scale 1:50,000.  
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.  
Nilson, T.H., Wright, R.H., Vianic, T.C., and Spangle, W.R., 1979, Relative slope stability and landslide planning in the San Francisco Bay region, California: U.S. Geological Survey Professional Paper 948.  
Smith, T.C., and Hart, E.W., 1982, Landslides and related damage, January 1982, San Francisco Bay region: California Geology, v. 37, no. 7, p. 139-152.

EXPLANATION

- LANDSLIDES**  
marker of where identification uncertain, P where available, ? where uncertain, and dashed where only possible
- Landslides less than about 500 feet in diameter
  - landslide
  - slide or slip
  - mixed slide and slump
  - soil slide or debris creep
  - flow
  - slip
- OTHER SURFICIAL DEPOSITS**
- artificial fill
  - alluvium
  - stream terrace, lowest (intermediate terrace may be subject to flooding - none noted as T<sub>1</sub>)
  - interior stream terrace boundary, slope where terrace steps are evident, low terrace broad stream deposit where shown by hachures (on downslope of boundary)
  - alluvial fan
  - colluvium
  - bedrock (labeled only locally for clarity)
  - of, kf, various other combinations
  - complex units labeled by combinations of letters denoting several components, combined one final (for example, af - alluvium and alluvial fan, tf - stream terrace, colluvium and alluvial fan)
  - artificial lake
  - contact, dashed where uncertain

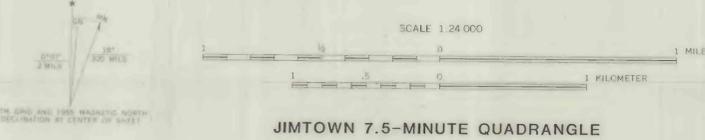


Geyserville	Jintown
3	4
2	1
Guerneville	Healdsburg



Healdsburg 15 minute Quadrangle

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



JINTOWN 7.5-MINUTE QUADRANGLE

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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1985