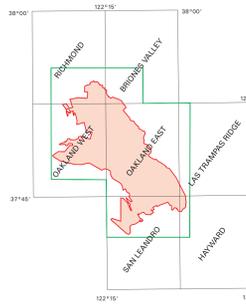


STABILITY INDEX	RELATIVE SUSCEPTIBILITY
VERY HIGH (0.05-1.00)	HIGHEST
HIGH (0.20-0.499)	↑
MODERATELY HIGH (0.10-0.199)	
MODERATE (0.05-0.099)	
MODERATELY LOW (0.02-0.049)	
LOW (0.00-0.019)	↓
NOT ANALYZED	LOWEST



Index map of 7.5' map quadrangles. Red boundary shows area limits for the cities of Berkeley, Piedmont, and Oakland; green boundary shows map extent.

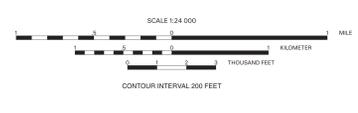
SUMMARY
This map describes the possible hazard from earthquake-induced landslides for the cities of Oakland, Piedmont, and Berkeley, California. The hazard depicted by this map was modeled for a scenario corresponding to an M_{7.1} earthquake on the Hayward Fault Zone. This magnitude is associated with complete rupture of the northern and southern segments of the Hayward Fault, an event that has an estimated return period of about 500 years. The modeled hazard also corresponds to completely saturated ground-water conditions resulting from either a storm event or a series of smaller storms. This combination of earthquake and ground-water scenarios represents a particularly severe state of hazard for earthquake-induced landslides. For any ground-water conditions, overall hazard will be low, while relative patterns of hazard are unlikely to change.

The map is intended as a tool for regional planning. Any site-specific planning or analysis should be undertaken with the assistance of a qualified geotechnical engineer. This hazard map should not be used as a substitute for the State of California Seismic Hazard Zones maps for the same area (California Geological Survey, 2003a,b,c,d). As previously noted for maps of this type by Wicorek and others (1985), this map should not be used as a basis to determine the absolute risk from seismically triggered landslides at any locality, as the site justification for zoning or rezoning and for detailed design of any facilities, for site-specific hazard reduction planning, or for setting or modifying insurance rates.

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Universal Transverse Mercator projection, Zone 10
North American Datum of 1983

Database by S.B. Miles and Steven Sobersky; digital cartography by S.B. Miles, Steven Sobersky, and A.W. Cooney, 2003-2006.
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Digital files available at <http://pubs.usgs.gov/sir/2007/5196/>

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Seismic Landslide Hazard Modeled for the cities of Oakland, Piedmont, and Berkeley, Northern California

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