

Explanation

Contour intervals, % g

- 300 —
- 200 —
- 175 —
- 150 —
- 125 —
- 100 —
- 90 —
- 80 —
- 70 —
- 60 —
- 50 —
- 40 —
- 35 —
- 30 —
- 25 —
- 20 —
- 15 —
- 10 —
- 5 —
- 0 —

Note: contours are irregularly spaced

- Areas with a constant spectral response acceleration of 150% g
- Point value of spectral response acceleration expressed as a percent of gravity
- Contours of spectral response acceleration expressed as a percent of gravity. Hachures point in direction of decreasing values.
- Locations of faults (see DISCUSSION). The number on the fault is the median spectral response acceleration times 1.5, expressed as a percent of gravity.
- International boundary
- State boundary
- County boundary
- Selected major highways

DISCUSSION

The acceleration values contoured are the random horizontal component. For design purposes, the reference site condition for the map is to be taken as NEHRP site class B.

A line shown as a fault location is the projection to the earth's surface of the edge of the fault rupture area located closest to the earth's surface. The fault location is shown as solid and/or dashed. The fault is shown solid when deterministic values control over probabilistic values and dashed when probabilistic values control over deterministic values. The number on the fault is the deterministic median spectral response acceleration times 1.5. The values on the fault portion shown solid may be used for interpolation purposes. When the fault is shown dashed it is for the purpose of information only and should not be used for interpolation.

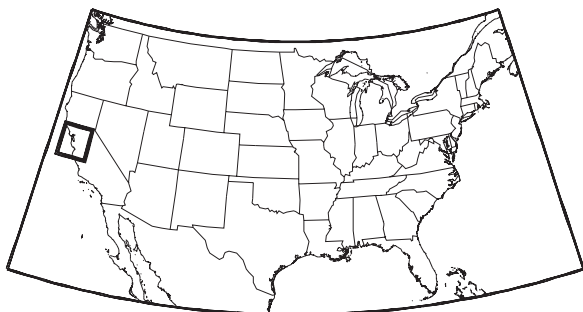
Selected contours near faults have been deleted for clarity. In these instances, interpolation may be done using fault values and the nearest adjacent contour.

REFERENCES

Frankel, A., Mueller, C., Bamhard, T., Perkins, D., Leyendecker, E.V., Dickman, N., Hanson, S., and Hopper, M., 1996, National Seismic-Hazard Maps: Documentation June 1996. U.S. Geological Survey Open-File Report 96-532, 110 p.

Frankel, A., Mueller, C., Bamhard, T., Perkins, D., Leyendecker, E.V., Dickman, N., Hanson, S., and Hopper, M., 1997, Seismic - Hazard Maps for California, Nevada and Western Arizona/Utah, Map F - Horizontal Spectral Response Acceleration for 0.2 Second Period with 2% Probability of Exceedance in 50 Years: U.S. Geological Survey Open-File Report 97-130-F, scale 1:2,000,000.

Petersen, M., Bryant, W., Cramer, C., Cao, T., Reichle, M., Frankel, A., Lienkaemper, J., McCrory, P., and Schwartz, D., 1996, Probabilistic Seismic Hazard Assessment for the State of California: California Division of Mines and Geology Open-File Report 96-08, 66 p., and U.S. Geological Survey Open-File Report 96-706, 66 p.



Index map showing location of study area

Scale 1:500,000



MAP 7
Maximum Considered Earthquake Ground Motion
for the San Francisco Bay Area
of
0.2 sec Spectral Response Acceleration (5% of Critical Damping)
Site Class B