



**SEISMIC-HAZARD MAPS FOR THE CONTERMINOUS UNITED STATES
MAP K - HORIZONTAL SPECTRAL RESPONSE ACCELERATION FOR 1.0 SECOND PERIOD (5% OF CRITICAL DAMPING)
WITH 5% PROBABILITY OF EXCEEDANCE IN 50 YEARS**

By

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1997

Explanation

100	%g
80	
60	
40	
30	
25	
20	
15	
10	
9	
8	
7	
6	
5	
4	
3	
2	
1	
0	

+ 6.2 Point value of spectral response acceleration expressed as a percent of gravity

— 10 — Contour of spectral response acceleration expressed as a percent of gravity

Note: contours are irregularly spaced

DISCUSSION

The acceleration values contoured are the random horizontal component. Reference site condition is firm rock, defined as having an average shear-wave velocity of 760 msec in the top 30 meters, corresponding to the boundary between NEHRP site classes B and C. Documentation, gridded values, and ARC/INFO coverages used to make the maps are available at: <http://geohazards.cr.usgs.gov/eq/>

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REFERENCES

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Frankel, A., Mueller, C., Barnhard, T., Perkins, D., Leyendecker, E.V., Dickman, N., Hanson, S., and Hopper, M., 1997, Seismic-Hazard Maps for California, Nevada and Western Arizona/Utah: U.S. Geological Survey Open-File Report 97-130, 12 sheets, scale 1:2,000,000.

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For sale by U.S. Geological Survey, Earthquake Maps, Box 25046, Federal Center, MS-967, Denver, CO 80225

Digital data prepared with ARC/INFO 7.04 running under Solaris 2.5 on a UNIX workstation

Albers Equal-Area Conic Projection
Standard Parallels 29.5°N and 45.5°N
Central Meridian 95°W