



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 m/sec in the top 30 meters, corresponding to the boundary between NEHRP (National Earthquake Hazard Reduction Program) site classes B and C. Documentation, gridded values, interactive maps, and GIS data used to make the maps are available online at <http://eqhazmaps.usgs.gov/> or <http://pubs.usgs.gov/sim/2005/2883>

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California part of the map produced jointly with the California Geological Survey.

REFERENCES
Frankel, A.D., Petersen, M.D., Mueller, C.S., Haller, K.M., Wheeler, R.L., Leyendecker, E.V., Wesson, R.L., Harmsen, S.C., Cramer, C.H., Perkins, D.M., and Rukstales, K.S., 2002, Documentation for the 2002 Update of the National Seismic-Hazard Maps: U.S. Geological Survey Open-File Report 02-420, 39 p.
Haller, K.M., Wheeler, R.L., and Rukstales, K.S., 2002, Documentation of changes in fault parameters for the 2002 National Seismic Hazard Maps - Conterminous United States except California: U.S. Geological Survey Open-File Report 02-467, 34 p.

EXPLANATION

%g

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

Peak acceleration expressed as a percent of gravity

+ 6.2 Point value of peak acceleration expressed as a percent of gravity

— 10 Contour of peak acceleration expressed as a percent of gravity

Note: contours are irregularly spaced

United States county base map data from <http://nationalatlas.gov/>
All other base map data from ESRI Inc. Digital Chart of the World

Albers Equal-Area Conic Projection
Standard Parallels 29.5°N and 45.5°N
Central Meridian 96°W

SCALE 1:7,000,000

0 100 200 300 400 500 600 700 800 900 1000 KILOMETERS

0 100 200 300 400 500 600 700 800 900 1000 MILES

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**Peak Horizontal Acceleration
With 10 Percent Probability of Exceedance in 50 Years**

SEISMIC-HAZARD MAPS FOR THE CONTERMINOUS UNITED STATES

By
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2005

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This map was produced on request, directly from digital files, on an electronic plotter.
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GIS files and PDF files are available online at
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