EXPLANATION PAGE FOR NATIONAL SEISMIC HAZARD MAPS AND EARTHQUAKE EPICENTERS

1Hz (1.0 Second) SA, 2% PE in 50 years

Fraction of acceleration of gravity (g)
Contour interval 0.01g

Contours display the spectral acceleration (SA) for a given frequency (1 Hz) having a 2% chance of being exceeded in 50 years. Spectral acceleration approximates the swaying of a building, as modeled by a particle on a massless vertical rod having the same natural period of vibration as the building. The unit of frequency is Hertz (abbreviated Hz). One hertz has a periodic interval of one second. Spectral ground motions are applied in seismic provisions of building codes, insurance rate structures, and risk assessments. The contours reflect consensus opinions of experts, and new findings (as of 2008) on earthquake ground shaking, faults, seismicity, and geodesy. The National Seismic Hazard Maps are updated by the USGS every 6 years or so. These contours will be updated in 2014.

For further information, please consult:


EARTHQUAKE MAGNITUDE

- 1.000000 - 2.000000
- 2.000001 - 3.000000
- 3.000001 - 4.000000
- 4.000001 - 5.000000
- 5.000001 - 6.200000
USGS National Seismic Hazard Map and Earthquake Epicenters of 
Bear Lake County, Idaho

1Hz (1.0 Second) SA, 2% PE in 50 years

Available at www.idahogeology.org.
Source of epicenter data: ANSS Composite Earthquake Catalog (1970-2011/1/27)
http://quake.geo.berkeley.edu/cnss/
Digital cartography by C.Gantenbein.
Projection: Idaho Transverse Mercator, NAD 1927.

See explanation page for National Seismic Hazard Maps and Epicenters for further information.
Available at www.idahogeology.org.
Source of epicenter data: ANSS Composite Earthquake Catalog (1970-2011/1/27)
http://quake.geo.berkeley.edu/cnss/
Digital cartography by C.Gantenbein.
Projection: Idaho Transverse Mercator, NAD 1927.
See explanation page for National Seismic Hazard Maps and Epicenters for further information.
USGS National Seismic Hazard Map and Earthquake Epicenters of Franklin County, Idaho

1Hz (1.0 Second) SA, 2% PE in 50 years

Available at www.idahogeology.org.
Source of epicenter data: ANSS Composite Earthquake Catalog (1970-2011/1/27)
http://quake.geo.berkeley.edu/cnss/
Digital cartography by C. Gantenbein.
Projection: Idaho Transverse Mercator, NAD 1927.

See explanation page for National Seismic Hazard Maps and Epicenters for further information.
USGS National Seismic Hazard Map and
Earthquake Epicenters of
Gem County, Idaho

1Hz (1.0 Second) SA, 2% PE in 50 years
USGS National Seismic Hazard Map and Earthquake Epicenters of Jefferson County, Idaho

1Hz (1.0 Second) SA, 2% PE in 50 years

Available at www.idahogeology.org.
Source of epicenter data: ANSS Composite Earthquake Catalog (1970-2011/1/27)
http://quake.geo.berkeley.edu/cnss/
Digital cartography by C.Gantenbein.
Projection: Idaho Transverse Mercator, NAD 1927.
See explanation page for National Seismic Hazard Maps and Epicenters for further information.

Source of epicenter data: ANSS Composite Earthquake Catalog (1970-2011/1/27)
http://quake.geo.berkeley.edu/cnss/
Digital cartography by C.Gantenbein.
Projection: Idaho Transverse Mercator, NAD 1927.
See explanation page for National Seismic Hazard Maps and Epicenters for further information.
USGS National Seismic Hazard Map and Earthquake Epicenters of Power County, Idaho

1Hz (1.0 Second) SA, 2% PE in 50 years

Available at www.idahogeology.org.
Source of epicenter data: ANSS Composite Earthquake Catalog (1970-2011/1/27)
http://quake.geo.berkeley.edu/cnss/
Digital cartography by C.Gantenbein.
Projection: Idaho Transverse Mercator, NAD 1927.
See explanation page for National Seismic Hazard Maps and Epicenters for further information.
USGS National Seismic Hazard Map and Earthquake Epicenters of Shoshone County, Idaho

1Hz (1.0 Second) SA, 2% PE in 50 years

Available at www.idahogeology.org.
Source of epicenter data: ANSS Composite Earthquake Catalog (1970-2011/1/27)
http://quake.geo.berkeley.edu/cnss/
Digital cartography by C. Gantenbein.
Projection: Idaho Transverse Mercator, NAD 1927.
See explanation page for National Seismic Hazard Maps and Epicenters for further information.
USGS National Seismic Hazard Map and Earthquake Epicenters of Washington County, Idaho

1Hz (1.0 Second) SA, 2% PE in 50 years

Available at www.idahogeology.org.
Source of epicenter data: ANSS Composite Earthquake Catalog (1970-2011/1/27)
http://quake.geo.berkeley.edu/cnss/
Digital cartography by C.Gantenbein.
Projection: Idaho Transverse Mercator, NAD 1927.
See explanation page for National Seismic Hazard Maps and Epicenters for further information.