EXPLANATION PAGE FOR NATIONAL SEISMIC HAZARD MAPS AND EARTHQUAKE EPICENTERS

5Hz (0.2 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 (5 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). Five hertz has a periodic interval of 0.2 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 Adams County, Idaho

5Hz (0.2 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 Bear Lake County, Idaho

5Hz (0.2 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 Benewah County, Idaho

5Hz (0.2 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 Boise County, Idaho

5Hz (0.2 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 Bonner County, Idaho

5Hz (0.2 Second) SA, 2% PE in 50 years


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 Bonneville County, Idaho
5Hz (0.2 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 Boundary County, Idaho

5Hz (0.2 Second) SA, 2% PE in 50 years
USGS National Seismic Hazard Map and Earthquake Epicenters of Butte County, Idaho

5Hz (0.2 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.

Some 5 Hz contours cross in areas where contours are very close. This error will be fixed in future versions of this map. Users should consult the original data released by the U.S. Geological Survey at: http://earthquake.usgs.gov/hazards/products/conterminous/2008/data/.
USGS National Seismic Hazard Map and Earthquake Epicenters of Camas County, Idaho

5Hz (0.2Second) 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 Cassia County, Idaho
5Hz (0.2 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 Clark County, Idaho

5Hz (0.2 Second) SA, 2% PE in 50 years

Available at www.idahogeology.org.
Source of Hazard Map Data: US Geological Survey, 2008 NSHM Gridded Data:
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 Gem County, Idaho
5Hz (0.2 Second) SA, 2% PE in 50 years
USGS National Seismic Hazard Map and
Earthquake Epicenters of
Jefferson County, Idaho

5Hz (0.2 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 Jerome County, Idaho

5Hz (0.2 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 Kootenai County, Idaho

5Hz (0.2 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 Latah County, Idaho

5Hz (0.2 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 Lincoln County, Idaho

5Hz (0.2 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.

1:350,000
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/css/
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 Owyhee County, Idaho

5Hz (0.2 Second) SA, 2% PE in 50 years


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 Payette County, Idaho

5Hz (0.2 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 Power County, Idaho

5Hz (0.2 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

5Hz (0.2 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.