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Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

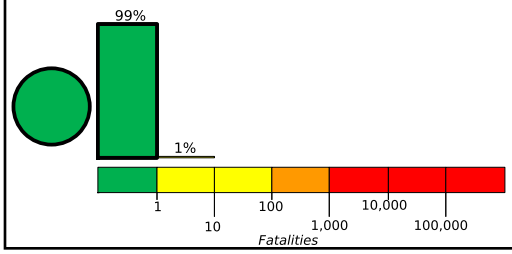
M 4.0, ARIZONA

Origin Time: Mon 2015-11-02 06:49:32 UTC (23:49:32 local)
Location: 34.11°N 112.13°W Depth: 9 km

PAGER Version 2

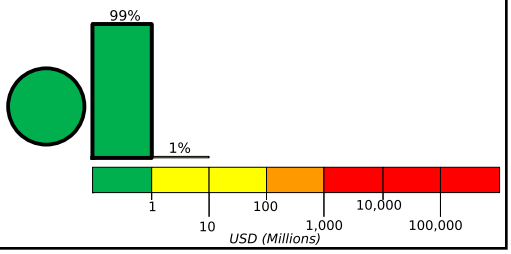
Created: 2 hours, 2 minutes after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses



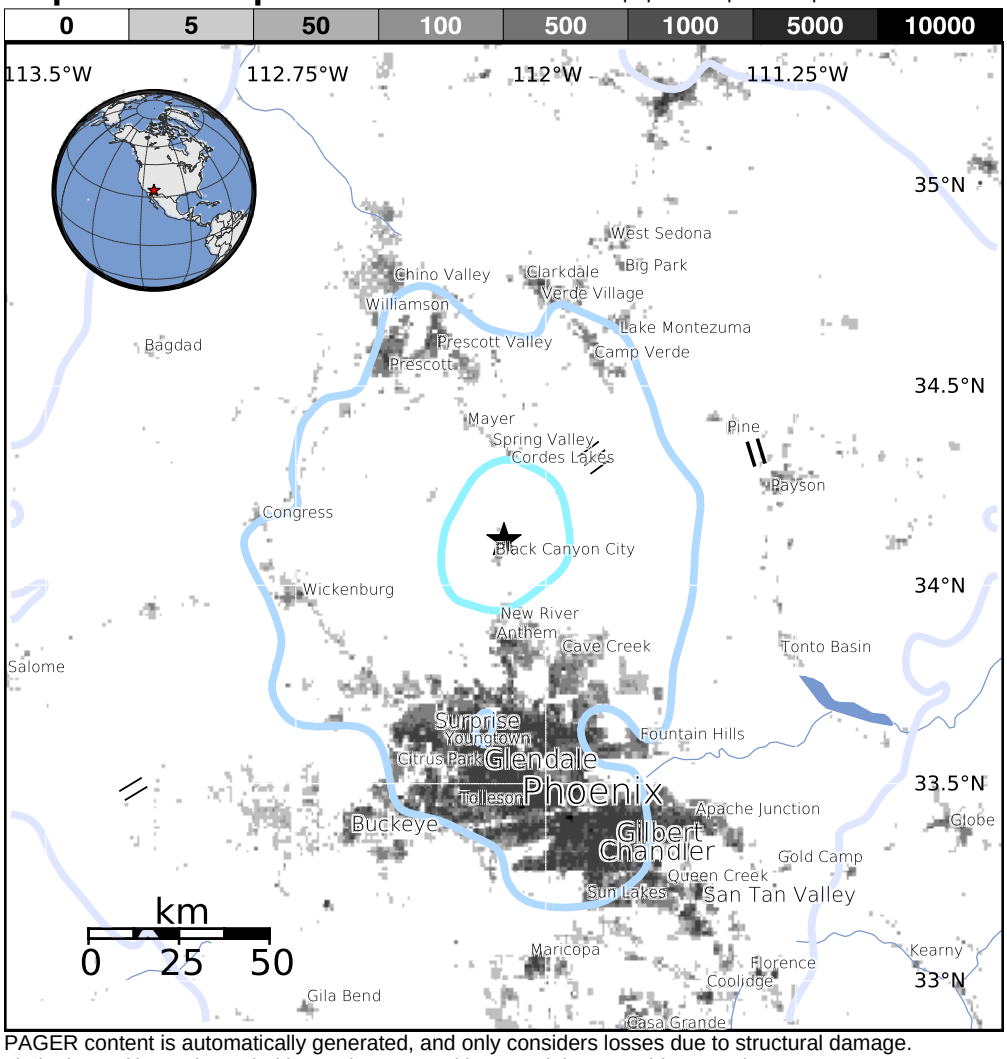
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		44k*	4,575k	4k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landscan



Structures:
Overall, the population in this region resides in structures that are resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1979-10-16	371	5.1	VII(77)	0
1999-10-16	398	7.1	IX(17k)	0
1980-06-09	330	6.3	IX(336)	1

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Black Canyon City**	**3k**
IV	**Cordes Lakes**	**3k**
IV	**Spring Valley**	**1k**
IV	**New River**	**15k**
III	**Anthem**	**22k**
III	**Mayer**	**1k**
III	**Phoenix**	**1,446k**
III	Mesa	439k
III	**Chandler**	**236k**
III	Scottsdale	217k
III	**Glendale**	**227k**

bold cities appear on map (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

http://earthquake.usgs.gov/pager

Event ID: us2000419q