Earthquake Shaking Green Alert

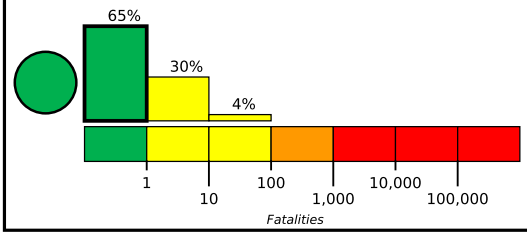
M 5.3, 216 km WSW of Laojunmiao, China

Origin Time: 2021-08-25 23:38:21 UTC (Thu 05:38:21 local)
Location: 38.9098° N 95.5261° E Depth: 10.0 km

PAGER Version 5

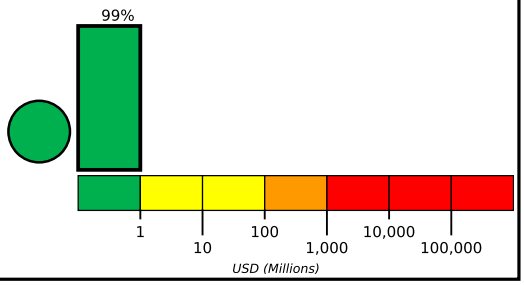
Created: 3 weeks, 1 day after earthquake

Estimated Fatalities



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

Estimated Economic Losses



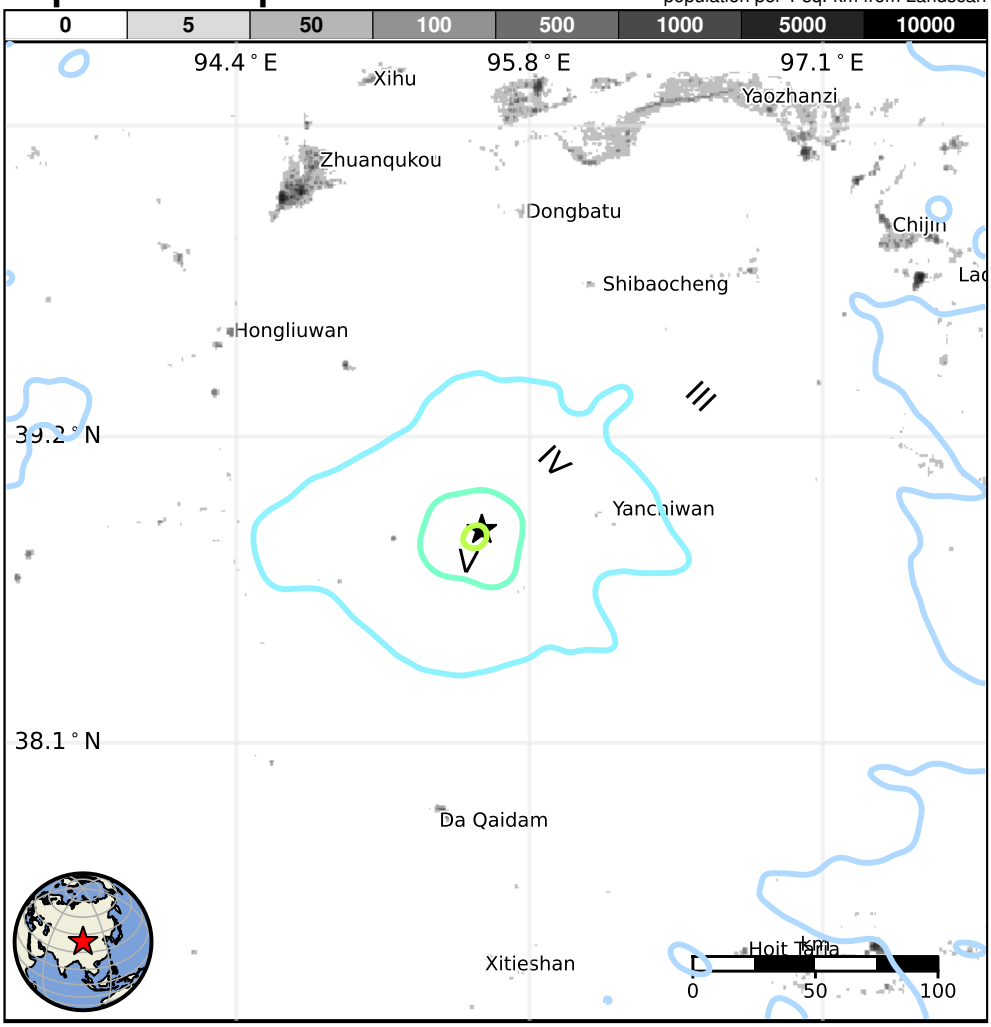
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	575k	3k	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	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./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 vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are adobe block and unreinforced brick with mud construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1997-02-09	346	5.5	V(5k)	–
1996-11-20	124	5.7	VII(1k)	–
2002-12-14	185	5.5	VI(102k)	2

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Yanchiwan**	**<1k**
III	**Da Qaidam**	**<1k**
III	Yangjiaqiao	<1k
III	Dangchengwan	<1k
III	Qili	<1k
III	Suzhou	<1k
III	Sanwei	<1k
III	**Zhuanqukou**	**<1k**
III	**Dongbatu**	**<1k**
III	Guazhou	<1k
III	**Laojunmiao**	**85k**

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.

https://earthquake.usgs.gov/earthquakes/eventpage/us7000f3xy#pager

Event ID: us7000f3xy