

M 7.2, 67km WSW of Constitucion, Chile

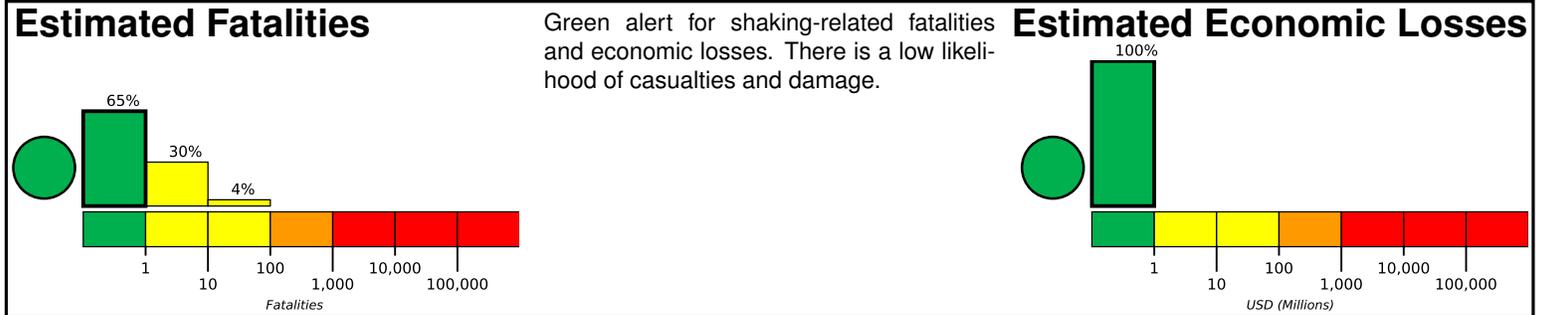
Origin Time: 2019-09-29 15:57:53 UTC (Sun 10:57:53 local)

Location: 35.4759° S 73.1447° W Depth: 9.8 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 23 minutes, 35 seconds after earthquake

PAGER Version 1

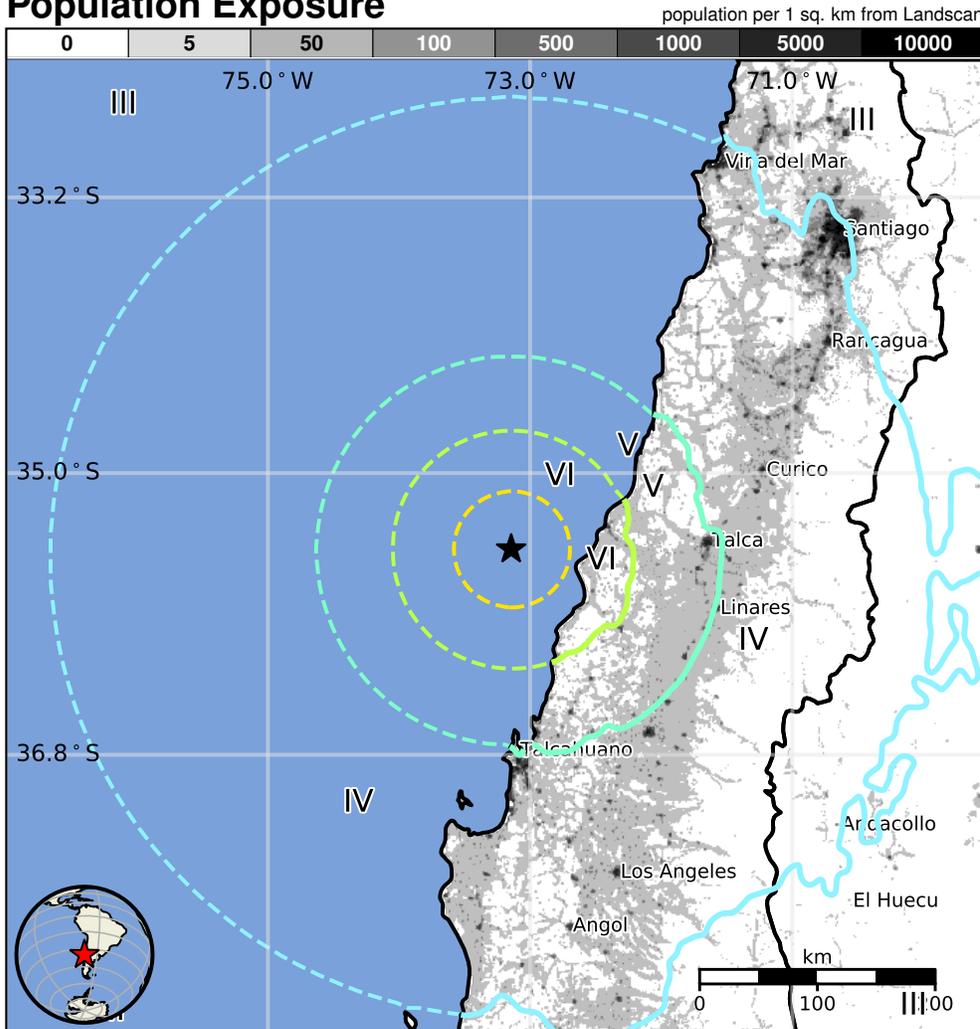


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	—*	1,250k*	11,314k	943k	69k	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



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1971-07-09	375	7.8	VIII(755k)	83
1960-05-22	313	9.6	IX(227k)	0
1985-03-03	289	7.9	VII(5,319k)	177

Recent earthquakes in this area have caused secondary hazards such as tsunamis and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VI	Constitucion	38k
V	Cauquenes	31k
V	San Javier	22k
V	Talca	197k
V	Parral	27k
V	Longavi	6k
IV	Concepcion	215k
IV	Rancagua	213k
IV	Puente Alto	510k
IV	Santiago	4,837k
III	Valparaiso	282k

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/us70005nie#pager>

bold cities appear on map.

(k=x1000)

Event ID: us70005nie