

10,000 100 1,000 100,000

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		*	*	487k*	2,147k*	3,657k	6,405k	3,083k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY			II-III	IV	V	VI	VII	VIII	IX	Х+
PERCEIVE	O SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

population per ~1 sq. km from Landscan

*Estimated exposure only includes population within the map area.

Population Exposure

10

0 5 500 5000 10000 50 100 1000 77°W **√**75°W 73°W 69°W 71°W La Ligua San Felipe Valparaiso 3305 Santiago San Bernardo Paine Rancagua Rengo Santa Cruz ŧ Curico 35°S Molina Talca San Javier 5 Linares Cauquenes Parral San Carlos Chillan Concepcion Coronel 37°S Arauco La Laja Curanilahue Los Angeles Lebu Canete Angol Mulchen Collipulli Victoria Lautaro Temuco Pitrufquen km^{utral-Co} Villarrica 0 100200 Panguipulli Valdivia

PAGER content is automatically generated, and does not consider secondary hazards in loss calculations. Limitations of input data, shaking estimates, and loss models may add uncertainty. http://earthquake.usgs.gov/pager

Structures:

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are low-rise reinforced/confined masonry and adobe block construction.

100

USD (Millior

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10,000

1,000

100,000

Historical Earthquakes (with MMI levels):

Date	Dist.	Mag.	Max	Shaking	
	(km)		MMI(#)	Deaths	
1985-03-03	308	7.9	VIII(301k)	0	
1985-03-03				0	
1985-03-03	313	7.9	VII(5,433k)	177	

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

Selected City Exposure from GeoNames.org

МЛКЛ	l City	Population
	Arauco	25k
VIII	Lota	50k
VIII	Concepcion	215k
VIII	Constitucion	38k
VII	Bulnes	13k
VII	Cabrero	18k
VI	Temuco	238k
VI	Valparaiso	282k
VI	Santiago	4,837k
IV	Mendoza	877k
Ш	Neuquen	242k
bold c	tities appear on map	(k = x1000)