

M 5.8, SOUTH ISLAND OF NEW ZEALAND

Origin Time: Sun 2016-02-14 00:13:44 UTC (00:13:44 local)

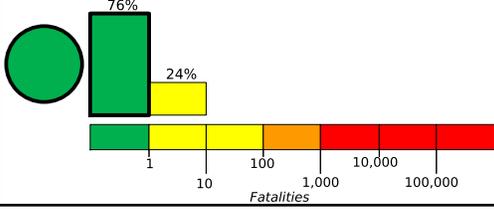
Location: 43.48°S 172.77°E Depth: 7 km

Created: 8 weeks, 2 days after earthquake

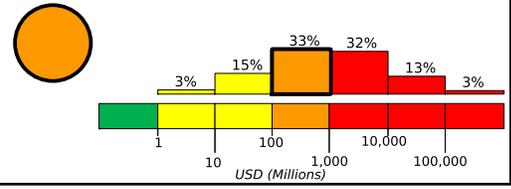
Estimated Fatalities

Orange alert level for economic losses. Significant damage is likely and the disaster is potentially widespread. Estimated economic losses are 0-1% GDP of New Zealand. Past events with this alert level have required a regional or national level response.

Green alert level for shaking-related fatalities. There is a low likelihood of casualties.



Estimated Economic Losses



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--*	82k*	91k	61k	212k	141k	8k	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



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
2001-12-07	330	5.8	VII(476)	0
1984-06-24	176	6.1	VIII(18)	0
1990-02-10	132	6.0	VIII(61)	0

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Christchurch	364k
VI	Kaiapoi	10k
VI	Woodend	3k
V	Lincoln	2k
IV	Rolleston	3k
IV	Amberley	1k
IV	Ashburton	30k
IV	Tinwald	3k
III	Timaru	28k
III	Hokitika	3k
III	Greymouth	9k

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/earthquakes/eventpage/us20005019>

Event ID: us20005019