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Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

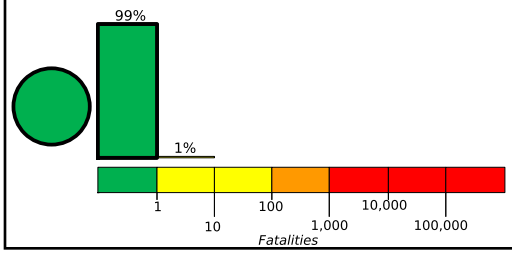
M 5.5, COOK STRAIT, NEW ZEALAND

Origin Time: Fri 2013-08-16 02:45:27 UTC (14:45:27 local)
Location: 41.76°S 174.12°E Depth: 5 km

PAGER Version 12

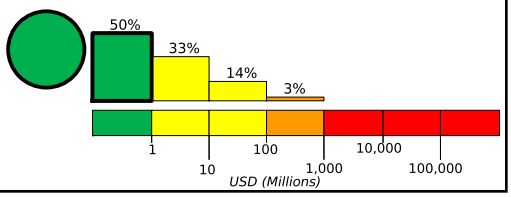
Created: 5 weeks, 6 days after earthquake

Estimated Fatalities



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

Estimated Economic Losses



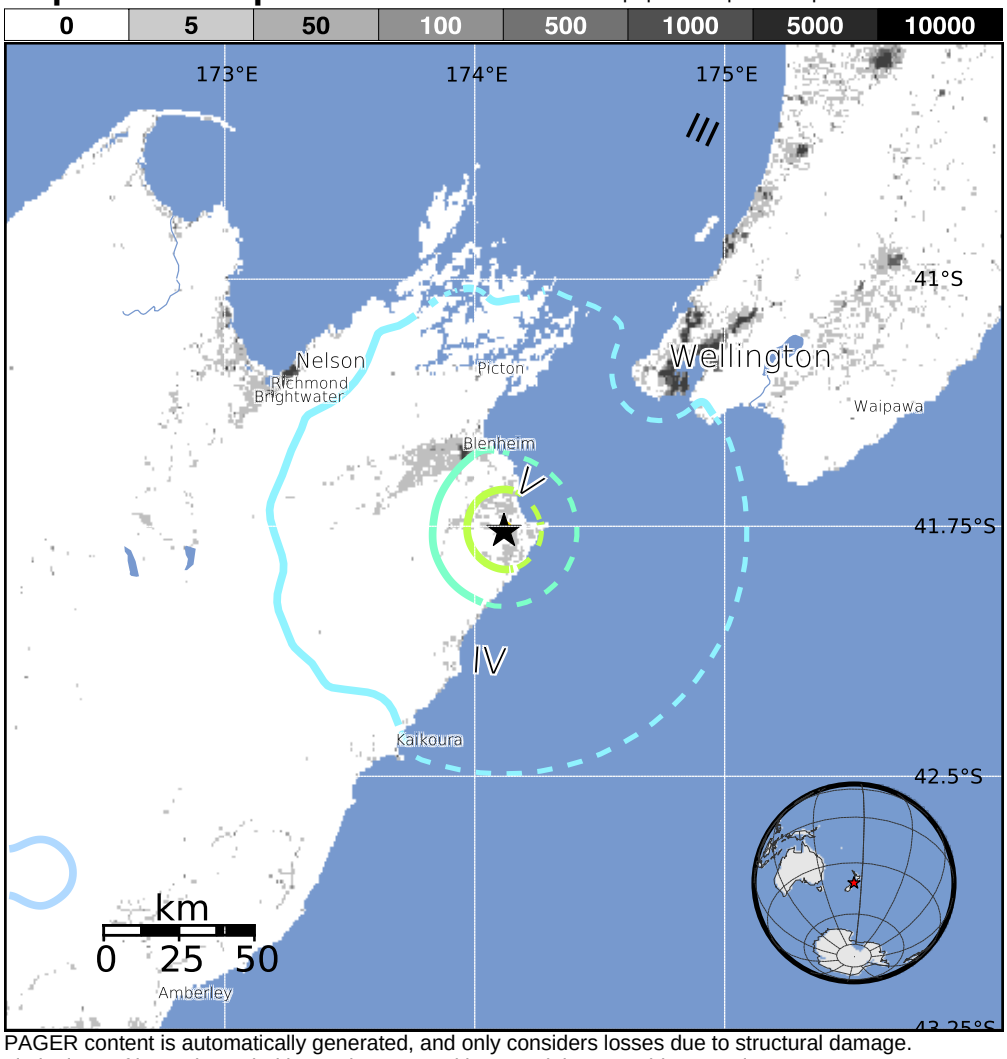
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	708k*	61k	2k	3k	1k	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
1995-11-24	232	6.1	VII(71)	0
1990-02-10	124	6.0	VIII(61)	0
1990-05-13	237	6.4	VIII(440)	0

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Blenheim**	**27k**
IV	**Picton**	**3k**
IV	**Richmond**	**14k**
IV	Wakefield	2k
III	Mapua	2k
III	Petone	7k
III	Lower Hutt	101k
III	Porirua	51k
III	**Wellington**	**382k**
III	**Nelson**	**59k**
III	Palmerston North	76k

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: usb000j4j6