

## COUNTRY PROFILE

### NEW ZEALAND

CLIMATE: **LOW** CARBON: **MODERATE**

#### THE MONITOR ASSESSMENT

The Climate Vulnerability Monitor provides a comprehensive national-level assessment of vulnerabilities and impact specifically related to contemporary climate change and carbon intensiveness. This 2012 Monitor assessment was commissioned by the Climate Vulnerable Forum and has been independently developed by DARA. It is grounded in leading and up-to-date scientific studies, research and data assimilated on the basis of an externally reviewed methodology. The assessment spans 34 indicators of impact/vulnerability: 22 for climate change ("Climate") and 12 for carbon intensiveness ("Carbon"). Estimates in human, economic and environmental terms are for 2010 and 2030. Vulnerability at country-level and by indicator is comparative to the 184 countries included in the assessment.

→ For the full report, data & additional info: [www.daraint.org/cvm2](http://www.daraint.org/cvm2) - [cvm@daraint.org](mailto:cvm@daraint.org) - +34 915310372

#### ECONOMIC NATIONAL LOSS TOTALS: NEW ZEALAND

ADDITIONAL ECONOMIC COSTS (NEGATIVE NUMBERS SHOW POSITIVE EFFECTS) - YEARLY AVERAGE



LOSSES PER YEAR  
2010 **0.4%GDP**  
2030 **0.6%GDP**



LOSSES PER YEAR  
2010 **1.0%GDP**  
2030 **1.9%GDP**

#### HUMAN NATIONAL LOSS TOTALS: NEW ZEALAND

ADDITIONAL HUMAN IMPACTS (NEGATIVE NUMBERS SHOW POSITIVE EFFECTS) - YEARLY AVERAGE



ADDITIONAL MORTALITY-YEARLY AVERAGE  
2010 **1,000**  
2030 **1,500**



ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE  
2010 **650,000** 2030 **750,000**



2010 **20,000** 2030 **35,000**

#### FULL COUNTRY ASSESSMENT: NEW ZEALAND

	VULNERABILITY LEVEL		ADDITIONAL ECONOMIC COSTS (MILLION USD PPP)		ADDITIONAL MORTALITY		ADDITIONAL AFFECTED POPULATION (1000s)		OTHER VALUE 1*		OTHER VALUE 2*	
	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030
<b>ENVIRONMENTAL DISASTERS</b>												
	-	-	5	5			4	9				
	-	+	5	15	1	1	4	9				
			-5	-15			0	0				
<b>TOTAL</b>			5	5	1	1	4	9				
<b>HABITAT CHANGE</b>												
	+	+	250	400					-50	-100	150	400
	+	+	150	500			45	100	2,750	5,750		
			-65	-200					-400	-750	-65	-150
			5	15					6	6		
			200	400			0	0	450	1,250		
			-90	-250								
<b>TOTAL</b>			450	865			45	100		-0		
<b>HEALTH IMPACT</b>												
							0	0				
							20	50				
<b>TOTAL</b>							20	50				
<b>INDUSTRY STRESS</b>												
			-5	-10								
			30	90								
			10	25								
			1	5								
<b>TOTAL</b>			36	110								
<b>CLIMATE TOTAL</b>			490	980	21	51	50	110				
<b>ENVIRONMENTAL DISASTERS</b>												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
	-	+	1,000	3,000					600	3,000		
<b>TOTAL</b>			1,000	3,000								
<b>HEALTH IMPACT</b>												
							600	800				20
							300	450				5
							40	55				6
							100	250				1
<b>TOTAL</b>							1,040	1,555				33
<b>INDUSTRY STRESS</b>												
			-5	-85								
			20	60								
			1	5								
<b>TOTAL</b>			16	-20								
<b>CARBON TOTAL</b>			1,016	2,980	1,040	1,555	18	33				

**VULNERABILITY LEVELS:**  
 Acute+ High+  
 Acute- High-  
 Severe+ Moderate  
 Severe- Low

+ = Upper tier of vulnerability level  
 - = Lower tier of vulnerability level

Environmental disasters  
 Habitat change  
 Health impact  
 Industry stress

CLIMATE = Impact/Vulnerability to Climate Change  
 CARBON = Impact/Vulnerability to Carbon Intensiveness

**BIODIVERSITY** OTHER VALUE 1: Contraction of biological zones (km<sup>2</sup>) (cumulative) OTHER VALUE 2: Decline in biological richness

**DESERTIFICATION** Additional land degraded (km<sup>2</sup>) (cumulative)

**HEATING & COOLING** Change in energy load (GWh)

**LABOUR PRODUCTIVITY** Share of workforce particularly affected (%)

**SEA-LEVEL RISE** Net loss of land (km<sup>2</sup>) (cumulative)

**WATER** Loss in water runoff 2030 (km<sup>3</sup>)

**OIL SANDS** Tonnes toxic waste (1000s)

**OIL SPILLS** Gallons oil spill (1000s)

**BIODIVERSITY** Decline in biological richness

**WATER** Volume of water to treat (millions m<sup>3</sup>)