

COUNTRY PROFILE

CHILE

CLIMATE: **MODERATE**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 - cvm@daraint.org - +34 915310372



ECONOMIC NATIONAL LOSS TOTALS: CHILE

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

CLIMATE
CHANGE
IMPACT

LOSSES PER YEAR

2010 **1.0%GDP**
2030 **1.9%GDP**

CARBON
INTENSIVENESS
IMPACT

LOSSES PER YEAR

2010 **0.8%GDP**
2030 **1.5%GDP**



HUMAN NATIONAL LOSS TOTALS: CHILE

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

CLIMATE
+ CARBON
COMBINED

ADDITIONAL MORTALITY-YEARLY AVERAGE

2010 **4,500**
2030 **6,000**



CLIMATE

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **450,000**2030 **600,000**

CARBON

2010 **45,000**2030 **70,000**

FULL COUNTRY ASSESSMENT: CHILE

	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
CLIMATE	ENVIRONMENTAL DISASTERS										
	DROUGHT	+	+	15	70						
	FLOODS AND LANDSLIDES			5	50	1	1	4	4		
	STORMS			1	10						
	WILDFIRES										
	TOTAL			21	130	1	1	4	4		
	HABITAT CHANGE										
	BIODIVERSITY	-	+	800	6,250			-15,000	-30,000	100	300
	DESERTIFICATION	-	+	40	300			700	1,500		
	HEATING AND COOLING			-400	-2,750			-2,000	-3,750	-850	-1,500
	LABOUR PRODUCTIVITY			-50	-400			37	29		
	PERMAFROST										
	SEA-LEVEL RISE			550	2,750	0	0	2,000	4,500		
	WATER	-	-	400	3,250			1	5		
	TOTAL			1,340	9,400						
	HEALTH IMPACT										
	DIARRHEAL INFECTIONS					0	0				
	HEAT AND COLD ILLNESSES					-20	-70				
	HUNGER					85	150	0	0		
	MALARIA AND VECTOR-BORNE										
	MENINGITIS					10	15	0	0		
	TOTAL					75	95	0	0		
CARBON	INDUSTRY STRESS										
	AGRICULTURE			150	800						
	FISHERIES	+	+	850	6,500						
	FORESTRY	+	+	300	2,000						
	HYDRO ENERGY			-10	-60						
	TOURISM			-1	-15						
	TRANSPORT										
	TOTAL			1,289	9,225						
	CLIMATE TOTAL			2,650	18,755	76	96	19	45		
	ENVIRONMENTAL DISASTERS										
	OIL SANDS										
	OIL SPILLS										
	TOTAL			0	0						
	HABITAT CHANGE										
	BIODIVERSITY		-	1,750	15,000			200	600		
	CORROSION			1	1						
	WATER										
	TOTAL			1750.5	15001						
	HEALTH IMPACT										
	AIR POLLUTION	+	-			3,250	4,500	35	55		
	INDOOR SMOKE					850	1,250	5	8		
	OCCUPATIONAL HAZARDS	+	+			55	70	5	6		
	SKIN CANCER	+	-			95	200	0	0		
	TOTAL					4250	6020	46	70		
	INDUSTRY STRESS										
	AGRICULTURE			10	-400						
	FISHERIES	+	+	80	600						
	FORESTRY			5	40						
	TOTAL			95	240						
	CARBON TOTAL			1,845	15,241	4,250	6,020	46	70		

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

OTHER VALUE 1 OTHER VALUE 2

BIODIVERSITY Contraction of biological zones (km²) (cumulative) Decline in biological richness

DESERTIFICATION Additional land degraded (km²) (cumulative)

HEATING & COOLING Change in energy load (GWh)

LABOUR PRODUCTIVITY Share of workforce particularly affected (%)

SEA-LEVEL RISE Net loss of land (km²) (cumulative)

WATER Loss in water runoff 2030 (km³)

OIL SANDS Tonnes toxic waste (1000s)

OIL SPILLS Gallons oil spill (1000s)

BIODIVERSITY Decline in biological richness

WATER Volume of water to treat (millions m³)