

COUNTRY PROFILE



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

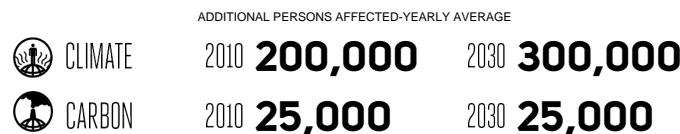
ECONOMIC NATIONAL LOSS TOTALS: PANAMA

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



HUMAN NATIONAL LOSS TOTALS: PANAMA

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



FULL COUNTRY ASSESSMENT: PANAMA

	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
ENVIRONMENTAL DISASTERS												
DROUGHT	-	+	1	10								
FLOODS AND LANDSLIDES			1	5	1	1	1	2				
STORMS												
WILDFIRES												
TOTAL			2	15	1	1	1	2				
HABITAT CHANGE												
BIODIVERSITY	-	+	75	550					-1,750	-3,500	150	500
DESERTIFICATION	+	+	90	700			75	200	1,500	3,250		
HEATING AND COOLING	-	+	30	500					200	750	60	250
LABOUR PRODUCTIVITY	+	+	1,000	7,750					41	32		
PERMAFROST												
SEA-LEVEL RISE	-	+	300	2,000			0	0	150	400		
WATER	+	+	200	1,250					1	1		
TOTAL			1,695	12,750			75	200				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES	-	+			15	20						
HUNGER					20	35	0	0				
MALARIA AND VECTOR-BORNE							0	0				
MENINGITIS					5	5	0	0				
TOTAL					40	60	0	0				
INDUSTRY STRESS												
AGRICULTURE			20	150								
FISHERIES	-	+	85	1,000								
FORESTRY	-	+	35	400								
HYDRO ENERGY	-	-	10	80								
TOURISM												
TRANSPORT												
TOTAL			150	1,630								
CLIMATE TOTAL			1,846	14,395	40	60	76	202				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	-	+	700	5,250					1,500	4,500		
CORROSION												
WATER												
TOTAL			700	5,250								
HEALTH IMPACT												
AIR POLLUTION	-	+			200	250	3	5				
INDOOR SMOKE					350	350	20	20				
OCCUPATIONAL HAZARDS	-	+			10	10	1	1				
SKIN CANCER					5	10	0	0				
TOTAL					565	620	24	26				
INDUSTRY STRESS												
AGRICULTURE	-	+	10	20								
FISHERIES												
FORESTRY	+	+	200	1,000								
TOTAL			210	1,020								
CARBON TOTAL			910	6,270	565	620	24	26				

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 (km²)
 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)