

COUNTRY PROFILE

COSTA RICA

CLIMATE: **HIGH** CARBON: **LOW**

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

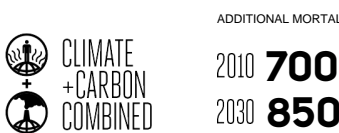
ECONOMIC NATIONAL LOSS TOTALS: COSTA RICA

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



HUMAN NATIONAL LOSS TOTALS: COSTA RICA

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



FULL COUNTRY ASSESSMENT: COSTA RICA

	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	15								
FLOODS AND LANDSLIDES	+	-	5	55	1	1	6	10				
STORMS	+	+	1	10			0	1				
WILDFIRES	+	+										
TOTAL			7	80	1	1	7	11				
HABITAT CHANGE												
BIODIVERSITY	+	-	35	300					-700	-1,500	150	500
DESERTIFICATION	-	+	25	200			50	150	550	1,250		
HEATING AND COOLING	+	+	10	150					100	400	5	15
LABOUR PRODUCTIVITY	+	+	1,250	9,000					40	31		
PERMAFROST												
SEA-LEVEL RISE	+	+	90	650			0	0	55	100		
WATER	-	+	150	1,000					1	1		
TOTAL			1,560	11,300			50	150				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	+	+			0	0	0	0				
HEAT AND COLD ILLNESSES	+	-			20	25						
HUNGER	+	+			5	10	0	0				
MALARIA AND VECTOR-BORNE	+	+					0	0				
MENINGITIS	+	+			5	5	0	0				
TOTAL					30	40	0	0				
INDUSTRY STRESS												
AGRICULTURE	-	+	100	850								
FISHERIES	+	+	5	55								
FORESTRY	+	+	10	150								
HYDRO ENERGY	-	+	15	100								
TOURISM	+	+										
TRANSPORT	+	+										
TOTAL			130	1,155								
CLIMATE TOTAL			1,697	12,535	31	41	57	161				
ENVIRONMENTAL DISASTERS												
OIL SANDS	+	+										
OIL SPILLS	+	+										
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	+	-	250	2,000					1,250	3,500		
CORROSION	+	+										
WATER	+	+										
TOTAL			250	2,000								
HEALTH IMPACT												
AIR POLLUTION	-	+			250	300	3	5				
INDOOR SMOKE	+	+			400	450	20	25				
OCCUPATIONAL HAZARDS	+	+			15	15	1	1				
SKIN CANCER	+	+			20	50	0	0				
TOTAL					685	815	24	31				
INDUSTRY STRESS												
AGRICULTURE	+	+	-10	-400								
FISHERIES	+	+										
FORESTRY	+	+	1	10								
TOTAL			-9	-390								
CARBON TOTAL			241	1,610	685	815	24	31				

VULNERABILITY LEVELS:

- Acute+ (Red +)
- Acute- (Red -)
- Severe+ (Orange +)
- Severe- (Orange -)
- High+ (Yellow +)
- High- (Yellow -)
- Moderate (Green)
- Low (Dark Green)

+ = 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 (km ²) (cumulative)	Decline in biological richness
DESERTIFICATION	Additional land degraded (km ²) (cumulative)	
HEATING & COOLING	Change in energy load (GWh)	
LABOUR PRODUCTIVITY	Share of workforce particularly affected (%)	
SEA-LEVEL RISE	Net loss of land (km ²) (cumulative)	
WATER	Loss in water runoff 2030 (km ²)	
OIL SANDS	Tonnes toxic waste ('000s)	
OIL SPILLS	Gallons oil spill ('000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m ³)	