

COUNTRY PROFILE

CUBA

CLIMATE: **SEVERE** 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

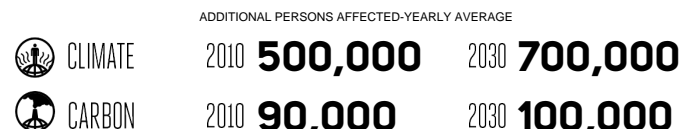
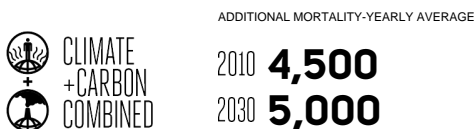
ECONOMIC NATIONAL LOSS TOTALS: CUBA

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



HUMAN NATIONAL LOSS TOTALS: CUBA

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



FULL COUNTRY ASSESSMENT: CUBA

	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	-	+	10	65								
FLOODS AND LANDSLIDES			1	20	1	1	2	2				
STORMS	-	+	100	850	-1	-1	-75	-200				
WILDFIRES												
TOTAL			111	935	0	-1	-72	-197				
HABITAT CHANGE												
BIODIVERSITY			85	650					-2,250	-4,250	150	500
DESERTIFICATION	-	+	65	450			150	250	1,250	2,500		
HEATING AND COOLING			55	850					550	2,250	450	1,750
LABOUR PRODUCTIVITY	+	-	1,750	15,000					38	30		
PERMAFROST												
SEA-LEVEL RISE			550	3,000			0	0	1,500	3,500		
WATER	-	+	150	1,250								
TOTAL			2,655	21,200			150	250				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES	-	-			150	150						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS					5	5	0	0				
TOTAL					155	155	0	0				
INDUSTRY STRESS												
AGRICULTURE	+	+	250	2,000								
FISHERIES			5	35								
FORESTRY	-	+	40	450								
HYDRO ENERGY				1								
TOURISM	-	-	150	1,250								
TRANSPORT												
TOTAL			445	3,736								
CLIMATE TOTAL			3,211	25,871	155	155	77	52				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			250	1,750					450	1,250		
CORROSION												
WATER												
TOTAL			250	1,750								
HEALTH IMPACT												
AIR POLLUTION	-	+			3,000	3,250	30	45				
INDOOR SMOKE					1,250	1,000	50	45				
OCCUPATIONAL HAZARDS	-	+			85	100	7	8				
SKIN CANCER	+	+			100	200	0	0				
TOTAL					4,435	4,550	87	99				
INDUSTRY STRESS												
AGRICULTURE			-10	-650								
FISHERIES			1	5								
FORESTRY			1	10								
TOTAL			-8.5	-635								
CARBON TOTAL			242	1,115	4,435	4,550	87	99				

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 (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 (1000s)	
OIL SPILLS	Gallons oil spill (1000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m ³)	