

COUNTRY PROFILE

JAMAICA

CLIMATE: **ACUTE** 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: JAMAICA

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



HUMAN NATIONAL LOSS TOTALS: JAMAICA

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



FULL COUNTRY ASSESSMENT: JAMAICA

	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	5								
FLOODS AND LANDSLIDES	-	+	1	20	1	1	3	4				
STORMS	-	+	100	800			1	1				
WILDFIRES												
TOTAL			102	825	1	2	4	6				
HABITAT CHANGE												
BIODIVERSITY			5	40					-400	-750	150	500
DESERTIFICATION			1	20			15	40	65	150		
HEATING AND COOLING	-	-	20	300					200	750	100	450
LABOUR PRODUCTIVITY	+	-	350	2,500					39	30		
PERMAFROST												
SEA-LEVEL RISE			75	450			0	0	75	95		
WATER	-	-	35	250								
TOTAL			486	3,560			15	40				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES	-	-			15	15						
HUNGER	-	-			35	65	0	0				
MALARIA AND VECTOR-BORNE							0	0				
MENINGITIS					5	10	0	0				
TOTAL					55	90	0	0				
INDUSTRY STRESS												
AGRICULTURE	+	+	250	2,000								
FISHERIES			5	65								
FORESTRY												
HYDRO ENERGY			1	1								
TOURISM	-	+	100	950								
TRANSPORT												
TOTAL			356	3,016								
CLIMATE TOTAL			943	7,401	55	91	19	46				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY												
CORROSION												
WATER												
TOTAL			0	0								
HEALTH IMPACT												
AIR POLLUTION	+	+			300	400	4	7				
INDOOR SMOKE	-	-			750	750	50	50				
OCCUPATIONAL HAZARDS	+	+			20	25	1	1				
SKIN CANCER					5	10	0	0				
TOTAL					1075	1185	56	59				
INDUSTRY STRESS												
AGRICULTURE			-10	-200								
FISHERIES												
FORESTRY				1								
TOTAL			-10	-199								
CARBON TOTAL			-10	-199	1,075	1,185	56	59				

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 ('000s)

OIL SPILLS Gallons oil spill ('000s)

BIODIVERSITY Decline in biological richness

WATER Volume of water to treat (millions m³)