

COUNTRY PROFILE

RWANDA

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: RWANDA

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



HUMAN NATIONAL LOSS TOTALS: RWANDA

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



FULL COUNTRY ASSESSMENT: RWANDA

	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	1								
FLOODS AND LANDSLIDES					1	1	15	25				
STORMS												
WILDFIRES												
TOTAL			1	1	1	1	15	25				
HABITAT CHANGE												
BIODIVERSITY			1	10					-650	-1,250	50	150
DESERTIFICATION			-1	-10								
HEATING AND COOLING			-1	5					-15	10	-5	1
LABOUR PRODUCTIVITY	+	+	150	850					68	55		
PERMAFROST												
SEA-LEVEL RISE												
WATER			-5	-40					-0	-1		
TOTAL			144	815			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	-	+			350	650	0	0				
HEAT AND COLD ILLNESSES	+	+			100	150						
HUNGER	+	+			350	550	0	0				
MALARIA AND VECTOR-BORNE	+	+			70	65	20	20				
MENINGITIS	-	-			150	250	0	0				
TOTAL					1,020	1,665	20	20				
INDUSTRY STRESS												
AGRICULTURE	+	+	100	750								
FISHERIES			5	55								
FORESTRY												
HYDRO ENERGY												
TOURISM												
TRANSPORT												
TOTAL			105	805								
CLIMATE TOTAL			249	1,621	1,021	1,666	35	45				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			1	15					75	200		
CORROSION												
WATER	-	-	1	1					200	250		
TOTAL			1.5	16								
HEALTH IMPACT												
AIR POLLUTION					350	550	9	30				
INDOOR SMOKE	+	-			15,000	15,000	850	700				
OCCUPATIONAL HAZARDS					10	20	2	4				
SKIN CANCER					15	45	0	0				
TOTAL					15,375	15,615	862	734				
INDUSTRY STRESS												
AGRICULTURE			-10	-250								
FISHERIES												
FORESTRY												
TOTAL			-10	-250								
CARBON TOTAL			-9	-234	15,375	15,615	862	734				

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 ³)	
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)	