CLIMATE VULNERABILITY MONITOR







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: BURUNDI

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

CLIMATE CHANGE LOSSES PER YEAR

2010 **3.9%_{GDP}**

2030 **8.7%**_{GDP}

CARBON INTENSIVENESS IMPACT LOSSES PER YEAR

2010 **3.5%_{GDP}** 2030 **1.3%_{GDP}**



HUMAN NATIONAL LOSS TOTALS: BURUNDI

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

ADDITIONAL

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON COMBINED

2010 **15,000**

2030 15,000

CLIMATE

CARBON CARBON

ADDITIONAL

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **850,000**

2030 **1,450,000**

2010 700,000 2030 600,000

FULL COUNTRY ASSESSMENT: BURUNDI

			VULNERABILITY ECONOMIC COSTS ADDITIONAL LEVEL (MILLION USD PPP) MORTALITY			AFFE POPULATI	CTED ON (1000s)	OTHER VALUE 1*		OTHER VALUE 2*		_					
			2010 2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030	_			
CLIMATE		ENVIRONMENTAL DISASTERS	IMENTAL DISASTERS											VULNERABILITY LEVELS:			
		DROUGHT	+ +		1									+ Acute+	+ High+		
		FLOODS AND LANDSLIDES	-		1	1	1	10	20					- Acute-	- High-		
		STORMS												+ Severe+	Mode	rato	
		WILDFIRES												_		ate	
		TOTAL		0	1	1	1	10	20					- Severe-	Low		
		HABITAT CHANGE															
		BIODIVERSITY		1	5					-650	-1,250	50	150	+ = Upper tier of vulnerability level			
	•	DESERTIFICATION		-1	-1									- = Lower tier	of vulnerability	j level	
		HEATING AND COOLING	- +	5	55					60	150	1	1				
		LABOUR PRODUCTIVITY	+ +	35	250					61	50			Environme	notal disastors		
		PERMAFROST												=			
		SEA-LEVEL RISE												Habitat ch	ange		
		WATER		-1	-10					-0	-0			. Health imp	pact		
		TOTAL		40	299			0	0					(V) Industru st			
		HEALTH IMPACT												(X) Industry st	ress		
		DIARRHEAL INFECTIONS	+ +			400	750	0									
		HEAT AND COLD ILLNESSES	+ +			150	200							CLIMATE =	mpact/Vulner	ability	
		HUNGER	- +			400	600	0	0						o Climate Cha	nge	
		MALARIA AND VECTOR-BORNE				150	150	40	40					CARBON =			
		MENINGITIS	+ +			200	300	0	0					, T	o Carbon Inter	siveness	
	%	TOTAL				1,300	2,000	41	40								
		INDUSTRY STRESS													OTHER	OTHER	
		AGRICULTURE	+ +	60	400										VALUE 1	VALUE 2	
		FISHERIES	+ +	15	200										Contraction	Decline in	
		FORESTRY												BIODIVERSITY	of biological	biological	
		HYDRO ENERGY													zones (km²) (cumulative)	richness	
		TOURISM													Additional land		
		TRANSPORT		75	600									DESERTI- FICATION	degraded (km²)		
		TOTAL CLIMATE TOTAL		114	900	1,301	2,001	51	60					TICATION	(cumulative)		
		CLIMATE TOTAL		114	900	1,301	2,001	31	60					HEATING &	Change in energ	9y	
CARBON		ENVIRONMENTAL DISASTERS												COOLING	load (GWh)		
		OIL SANDS													Share of		
		OIL SPILLS												LABOUR	workforce		
		TOTAL		0	0									PRODUCTIVITY	particularly affected (%)		
		HABITAT CHANGE													Net loss of		
		BIODIVERSITY		1	10					75	200			SEA-LEVEL	land (km²)		
		CORROSION												RISE	(cumulative)		
		WATER			1					200	250				Loss in water		
		TOTAL		1	11									WATER	runoff 2030 (km³)		
		HEALTH IMPACT															
	•	AIR POLLUTION	-			350	700	15	60					OIL SANDS	Tonnes toxic		
		INDOOR SMOKE	+ -			15,000	10,000	700	550						waste (1000s)		
		OCCUPATIONAL HAZARDS				15	25	5	8						Gallons oil		
		SKIN CANCER	-			10	25	0	0					OIL SPILLS	spill (1000s)		
		TOTAL				15375	10750	720	618								
		INDUSTRY STRESS												BIODIVERSITY	Decline in		
	N	AGRICULTURE		-5	-100										biological richne	:55	
		FISHERIES												Volume of WATER water to treat (millions m³)			
		FORESTRY															
		TOTAL		-5	-100										william)		
		CARBON TOTAL		-4	-89	15,375	10,750	720	618					l			