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: LIBERIA

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



2010 **9.9%**_{GDP} 2030 **17.5%**cm

CARBON INTENSIVENESS

2010 **6.1%**_{GDP} 2030 **7.5%**_{GDB}



HUMAN NATIONAL LOSS TOTALS: LIBERIA

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

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON

2010 6,000 2030 7,000

CLIMATE

🕽 CARBON

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **350,000**

2030 550,000

2010 300,000 2030 350,000

FULL COUNTRY ASSESSMENT: LIBERIA

			VULNERABILITY LEVEL	(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					
CLIMATE	(4)	ENVIRONMENTAL DISASTERS													VULNERABILITY LEVELS:			
		DROUGHT	- +											+ Acute+	+ High+			
		FLOODS AND LANDSLIDES	-			1	1	5	15					- Acute-	- High-			
		STORMS												Severe+	Mode	rate		
		WILDFIRES						_						- Severe-	Low			
		TOTAL		0	0	1	1	5	15					Severe-	LOW			
		HABITAT CHANGE								. ==0	0.750		=00					
		BIODIVERSITY		1	20					-1,750	-3,750	150	500	+ = Upper tier				
	(%)	DESERTIFICATION	+ -	1 5	5 50					40	400	05	65	- = Lowertier	- = Lower tier of vulnerability level			
		HEATING AND COOLING	+ +	50	350					40 48	100 39	25	65					
		LABOUR PRODUCTIVITY	- +	50	350					40	39			Environmental disasters				
	●	PERMAFROST SEA-LEVEL RISE		80	400					30	75			Habitat cha	2000			
		WATER	+ +	1	1					30	73			~ ~	-			
		TOTAL		137	826			0	0					Health imp	oact			
		HEALTH IMPACT		107	020			Ū	Ū					ndustry stress				
		DIARRHEAL INFECTIONS	- +			150	200	0						. •				
		HEAT AND COLD ILLNESSES	+ +			75	150							CLIMATE =	mnact/Vulner	ahilitu		
		HUNGER				250	250	0	0					CLIMATE -	o Climate Cha	nae		
		MALARIA AND VECTOR-BORNE				40	25	10	6					_				
		MENINGITIS	+ +			90	150	0	0					carbon = Impac	o Carbon Inter			
		TOTAL				605	775	10	7					,	to Carbonnite			
		INDUSTRY STRESS												1	OTHER	OTHER		
		AGRICULTURE	+ +	15	100										VALUE 1	VALUE 2		
		FISHERIES		1	25										Contraction			
		FORESTRY												BIODIVERSITY	of biological	Decline in biological		
		HYDRO ENERGY												DIODIVERSITI	zones (km²)	richness		
		TOURISM													(cumulative)			
		TRANSPORT												DESERTI-	Additional land degraded (km²)			
	,	TOTAL		16	125	005	770	45	00					FICATION	(cumulative)			
	ı	CLIMATE TOTAL		153	951	605	776	15	22					HEATING &	Change in energ	au		
CARBON		ENVIRONMENTAL DISASTERS												COOLING	load (GWh)	-		
		OIL SANDS												-	Share of			
		OIL SPILLS												LABOUR	workforce			
		TOTAL		0	0									PRODUCTIVITY particularly affected (5				
		HABITAT CHANGE													Net loss of			
		BIODIVERSITY	- +	55	350					3,250	5,000			SEA-LEVEL	land (km²)			
		CORROSION												RISE	(cumulative)			
		WATER												WATER	Loss in water			
	. !	TOTAL		55	350									WATER	runoff 2030 (km³)			
	•	HEALTH IMPACT																
		AIR POLLUTION	+ +			350	750	8	25					OIL SANDS	Tonnes toxic waste (1000s)			
		INDOOR SMOKE	+ +			5,250	5,250	300	300						Waste (10003)			
		OCCUPATIONAL HAZARDS				5	10	1	2					OIL SPILLS	Gallons oil			
		SKIN CANCER				1	10	0	0					OIL SPILLS	spill (1000s)			
	i	TOTAL				5606	6020	309	327						Daniina ia			
		INDUSTRY STRESS			40									BIODIVERSITY	Decline in biological richne	ess		
		AGRICULTURE FISHERIES		-1	-40													
		FORESTRY			1									Volume of WATER water to trea				
		TOTAL	-	-1	-39										(millions m ³)			
		CARBON TOTAL		54	311	5,606	6,020	309	327									
		OARBON TOTAL			- 511	-0,000	0,020	- 505	OLI.					1				