

COUNTRY PROFILE

SIERRA LEONE

CLIMATE: **ACUTE** CARBON: **SEVERE**

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: SIERRA LEONE

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



HUMAN NATIONAL LOSS TOTALS: SIERRA LEONE

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



FULL COUNTRY ASSESSMENT: SIERRA LEONE

	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								
FLOODS AND LANDSLIDES	-	-		1	1	5	15	30				
STORMS	+	+										
WILDFIRES	+	+										
TOTAL			0	2	1	5	15	30				
HABITAT CHANGE												
BIODIVERSITY	-	+	5	40					-600	-1,250	150	500
DESERTIFICATION	+	+	1	10								
HEATING AND COOLING	-	+	10	75					65	150	30	80
LABOUR PRODUCTIVITY	-	+	150	900					54	44		
PERMAFROST	+	+										
SEA-LEVEL RISE	-	+	200	1,000			0	0	35	85		
WATER	+	+		-1								
TOTAL			366	2,024			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	+	+			350	450	0					
HEAT AND COLD ILLNESSES	+	+			75	100						
HUNGER	+	+			650	700	0	0				
MALARIA AND VECTOR-BORNE	+	+			150	75	35	20				
MENINGITIS	+	+			150	300	0	0				
TOTAL					1,375	1,625	36	20				
INDUSTRY STRESS												
AGRICULTURE	-	+	30	200								
FISHERIES	+	+	65	650								
FORESTRY	-	-	1	10								
HYDRO ENERGY	+	+										
TOURISM	+	+										
TRANSPORT	+	+										
TOTAL			96	860								
CLIMATE TOTAL			462	2,885	1,376	1,630	51	50				
ENVIRONMENTAL DISASTERS												
OIL SANDS	+	+										
OIL SPILLS	+	+										
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	+	+	85	550					2,250	5,000		
CORROSION	+	+										
WATER	+	+										
TOTAL			85	550								
HEALTH IMPACT												
AIR POLLUTION	+	+			550	950	8	25				
INDOOR SMOKE	+	+			15,000	15,000	750	650				
OCCUPATIONAL HAZARDS	+	+			1	5	0	0				
SKIN CANCER	+	+			5	10	0	0				
TOTAL					15,556	15,965	759	675				
INDUSTRY STRESS												
AGRICULTURE	+	+	-5	-80								
FISHERIES	+	+										
FORESTRY	+	+										
TOTAL			-5	-78.25								
CARBON TOTAL			80	472	15,556	15,965	759	675				

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 ('000s)	
OIL SPILLS	Gallons oil spill ('000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m ³)	