

COUNTRY PROFILE

GUINEA

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: GUINEA

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



HUMAN NATIONAL LOSS TOTALS: GUINEA

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



FULL COUNTRY ASSESSMENT: GUINEA

	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
CLIMATE												
ENVIRONMENTAL DISASTERS												
DROUGHT	+	-	1	1								
FLOODS AND LANDSLIDES					1	5	15	25				
STORMS												
WILDFIRES												
TOTAL			1	2	1	5	15	25				
HABITAT CHANGE												
BIODIVERSITY	+	-	30	200					-4,250	-8,500	200	550
DESERTIFICATION	+	-	5	30								
HEATING AND COOLING	+	-	15	100					95	250	25	60
LABOUR PRODUCTIVITY	-	+	350	2,000					57	47		
PERMAFROST												
SEA-LEVEL RISE	+	+	250	1,500			0	0	45	100		
WATER	-	+	10	60					0	1		
TOTAL			660	3,890			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	+	+			400	550	0	0				
HEAT AND COLD ILLNESSES	-	-			150	250						
HUNGER	+	+			800	850	0	0				
MALARIA AND VECTOR-BORNE	+	+			200	100	50	35				
MENINGITIS	+	+			250	400	0	0				
TOTAL					1,800	2,150	51	36				
INDUSTRY STRESS												
AGRICULTURE	+	+	150	900								
FISHERIES	-	+	55	550								
FORESTRY	+	+	10	100								
HYDRO ENERGY												
TOURISM												
TRANSPORT												
TOTAL			215	1,550								
CLIMATE TOTAL			875	5,441	1,801	2,155	66	61				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	-	+	300	2,000					2,000	5,000		
CORROSION												
WATER									25	35		
TOTAL			300	2,000								
HEALTH IMPACT												
AIR POLLUTION	-	-			1,500	2,500	25	70				
INDOOR SMOKE	-	-			8,750	7,250	350	300				
OCCUPATIONAL HAZARDS	-	-			15	25	3	5				
SKIN CANCER					5	20	0	0				
TOTAL					10,270	9,795	378	375				
INDUSTRY STRESS												
AGRICULTURE			-10	-250								
FISHERIES												
FORESTRY			1	5								
TOTAL			-9	-245								
CARBON TOTAL			291	1,755	10,270	9,795	378	375				

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 (1000s)	
OIL SPILLS	Gallons oil spill (1000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m ³)	