

COUNTRY PROFILE

GHANA

CLIMATE: **ACUTE** 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: GHANA

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



HUMAN NATIONAL LOSS TOTALS: GHANA

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



FULL COUNTRY ASSESSMENT: GHANA

	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	+	+	5	15								
FLOODS AND LANDSLIDES			1	5	1	1	6	9				
STORMS												
WILDFIRES												
TOTAL			6	20	1	1	6	9				
HABITAT CHANGE												
BIODIVERSITY		-	55	350					-3,000	-6,000	150	500
DESERTIFICATION	-	+	10	65			75	200	750	1,500		
HEATING AND COOLING	-	+	30	250					350	900	60	150
LABOUR PRODUCTIVITY	-	+	2,000	15,000					55	45		
PERMAFROST												
SEA-LEVEL RISE			200	850					15	35		
WATER			10	55					0	0		
TOTAL			2,305	16,570			75	200	0	0		
HEALTH IMPACT												
DIARRHEAL INFECTIONS	-	-			900	1,250	1					
HEAT AND COLD ILLNESSES	+	+			200	250						
HUNGER	-	+			900	950	0	0				
MALARIA AND VECTOR-BORNE	-	+			100	65	30	20				
MENINGITIS	-	+			95	150	0	0				
TOTAL					2,195	2,665	31	20				
INDUSTRY STRESS												
AGRICULTURE	-	+	200	1,500								
FISHERIES	+	+	200	2,250								
FORESTRY	-	+	15	150								
HYDRO ENERGY			-5	-35								
TOURISM												
TRANSPORT												
TOTAL			410	3,865								
CLIMATE TOTAL			2,720	20,455	2,195	2,666	113	230				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	-	+	600	4,000					2,000	5,000		
CORROSION												
WATER			1	5					250	350		
TOTAL			601	4005								
HEALTH IMPACT												
AIR POLLUTION	+	+			2,250	3,500	40	100				
INDOOR SMOKE	+	+			10,000	8,250	450	350				
OCCUPATIONAL HAZARDS					30	50	6	10				
SKIN CANCER					25	60	0	0				
TOTAL					12305	11860	496	460				
INDUSTRY STRESS												
AGRICULTURE			-65	-1,750								
FISHERIES												
FORESTRY			1	15								
TOTAL			-64	-1734								
CARBON TOTAL			537	2,271	12,305	11,860	496	460				

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)	