

## COUNTRY PROFILE

### CHAD

CLIMATE: **ACUTE** CARBON: **HIGH**

### 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](http://www.daraint.org/cvm2) - [cvm@daraint.org](mailto:cvm@daraint.org) - +34 915310372

### ECONOMIC NATIONAL LOSS TOTALS: CHAD

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



### HUMAN NATIONAL LOSS TOTALS: CHAD

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



### FULL COUNTRY ASSESSMENT: CHAD

	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
<b>CLIMATE</b>												
<b>ENVIRONMENTAL DISASTERS</b>												
DROUGHT	+	+										
FLOODS AND LANDSLIDES	+	+			1	1	1	9				
STORMS	+	+										
WILDFIRES	+	+										
<b>TOTAL</b>			0	1	1	1	9	20				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	+	+	200	1,250					-20,000	-40,000	300	900
DESERTIFICATION	+	+	1	5								
HEATING AND COOLING	+	+	45	350					150	350	150	350
LABOUR PRODUCTIVITY	-	+	550	3,750					55	45		
PERMAFROST												
SEA-LEVEL RISE												
WATER			-25	-150					-1	-1		
<b>TOTAL</b>			771	5,205			0	0				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS	+	+			900	1,250	1					
HEAT AND COLD ILLNESSES	+	+			250	400						
HUNGER	+	+			1,250	1,500	0	0				
MALARIA AND VECTOR-BORNE	+	+			250	150	65	35				
MENINGITIS	+	+			300	550	0	0				
<b>TOTAL</b>					2,950	3,850	67	36				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	+	+	60	400								
FISHERIES												
FORESTRY												
HYDRO ENERGY												
TOURISM												
TRANSPORT												
<b>TOTAL</b>			60	400								
<b>CLIMATE TOTAL</b>			830	5,606	2,951	3,851	76	56				
<b>CARBON</b>												
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY			100	650					150	450		
CORROSION												
WATER				1					30	40		
<b>TOTAL</b>			100	650.5								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	+	+			1,250	2,500	20	60				
INDOOR SMOKE	+	+			15,000	15,000	650	600				
OCCUPATIONAL HAZARDS	-	+			15	25	3	6				
SKIN CANCER					10	35	0	0				
<b>TOTAL</b>					16,275	17,560	673	666				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			-5	-200								
FISHERIES												
FORESTRY			1	15								
<b>TOTAL</b>			-4	-185								
<b>CARBON TOTAL</b>			96	465	16,275	17,560	673	666				

**VULNERABILITY LEVELS:**

- Acute+ (Red +)
- Acute- (Red -)
- Severe+ (Orange +)
- Severe- (Orange -)
- High+ (Yellow +)
- High- (Yellow -)
- Moderate (Green)
- Low (Light Green)

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

BIODIVERSITY	OTHER VALUE 1	OTHER VALUE 2
DESERTIFICATION	Contraction of biological zones (km²) (cumulative)	Decline in biological richness
HEATING & COOLING	Additional land degraded (km²) (cumulative)	
LABOUR PRODUCTIVITY	Change in energy load (GWh)	
SEA-LEVEL RISE	Share of workforce particularly affected (%)	
WATER	Net loss of land (km²) (cumulative)	
OIL SANDS	Loss in water runoff 2030 (km²)	
OIL SPILLS	Tonnes toxic waste ('000s)	
BIODIVERSITY	Gallons oil spill ('000s)	
WATER	Decline in biological richness	
	Volume of water to treat (millions m³)	