

## COUNTRY PROFILE

# SUDAN-SOUTH SUDAN

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

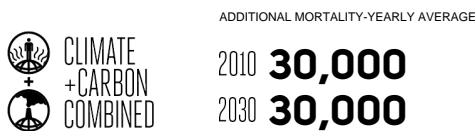
## ECONOMIC NATIONAL LOSS TOTALS: SUDAN-SOUTH SUDAN

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



## HUMAN NATIONAL LOSS TOTALS: SUDAN-SOUTH SUDAN

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



## FULL COUNTRY ASSESSMENT: SUDAN-SOUTH SUDAN

	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>ENVIRONMENTAL DISASTERS</b>												
DROUGHT			1	10								
FLOODS AND LANDSLIDES			5	40	5	5	40	55				
STORMS												
WILDFIRES												
<b>TOTAL</b>			6	50	5	5	40	55				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	300	2,000					-45,000	-90,000	70	200
DESERTIFICATION	-	+	20	150								
HEATING AND COOLING	-	+	80	750					750	2,000	250	700
LABOUR PRODUCTIVITY	+	+	1,000	7,500					39	32		
PERMAFROST												
SEA-LEVEL RISE			50	300			0	0	10	30		
WATER			-40	-300					-1	-1		
<b>TOTAL</b>			1,410	10,400			0	0				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS	-	-			850	1,500	1					
HEAT AND COLD ILLNESSES	-	+			600	850						
HUNGER	+	+			3,250	4,000	2	3				
MALARIA AND VECTOR-BORNE	+	+			750	950	200	300				
MENINGITIS	+	+			350	550	0	0				
<b>TOTAL</b>					5,800	7,850	204	304				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	+	+	650	5,000								
FISHERIES	-	+	40	650								
FORESTRY			10	100								
HYDRO ENERGY			-1	-5								
TOURISM			10	60								
TRANSPORT												
<b>TOTAL</b>			709	5,805								
<b>CLIMATE TOTAL</b>			2,125	16,255	5,805	7,855	244	359				
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY			40	300					10	30		
CORROSION												
WATER			1	1					100	150		
<b>TOTAL</b>			40.5	301								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	+	+			5,250	8,750	50	100				
INDOOR SMOKE	+	+			20,000	15,000	900	750				
OCCUPATIONAL HAZARDS	+	+			100	200	15	20				
SKIN CANCER					45	100	0	0				
<b>TOTAL</b>					25395	24050	965	870				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			5	40								
FISHERIES												
FORESTRY			1	10								
<b>TOTAL</b>			6	50								
<b>CARBON TOTAL</b>			46	351	25,395	24,050	965	870				

**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 <sup>2</sup> ) (cumulative)	Decline in biological richness
DESERTIFICATION	Additional land degraded (km <sup>2</sup> ) (cumulative)	
HEATING & COOLING	Change in energy load (GWh)	
LABOUR PRODUCTIVITY	Share of workforce particularly affected (%)	
SEA-LEVEL RISE	Net loss of land (km <sup>2</sup> ) (cumulative)	
WATER	Loss in water runoff 2030 (km <sup>3</sup> )	
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 <sup>3</sup> )	