

COUNTRY PROFILE

SENEGAL

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: SENEGAL

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



HUMAN NATIONAL LOSS TOTALS: SENEGAL

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



FULL COUNTRY ASSESSMENT: SENEGAL

	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	+	+										
FLOODS AND LANDSLIDES	+	+	1	5	1	1	9	15				
STORMS	+	+										
WILDFIRES	+	+										
TOTAL			1	5	1	1	9	15				
HABITAT CHANGE												
BIODIVERSITY	-	+	75	500					-3,250	-6,500	400	1,250
DESERTIFICATION	+	+	10	50			50	150	750	1,500		
HEATING AND COOLING	+	+	30	250					200	550	150	400
LABOUR PRODUCTIVITY	-	+	700	4,750					57	46		
PERMAFROST												
SEA-LEVEL RISE	+	-	200	1,250			0	0	35	75		
WATER			1	5								
TOTAL			1,016	6,805			50	150				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	-	-			300	400	0	0				
HEAT AND COLD ILLNESSES	-	-			100	150						
HUNGER	-	+			550	550	0	0				
MALARIA AND VECTOR-BORNE	-	+			100	65	30	20				
MENINGITIS	+	+			100	150	0	0				
TOTAL					1,150	1,315	30	20				
INDUSTRY STRESS												
AGRICULTURE	+	+	250	1,750								
FISHERIES	+	+	90	950								
FORESTRY	+	+										
HYDRO ENERGY	+	+										
TOURISM	+	+										
TRANSPORT	+	+										
TOTAL			340	2,700								
CLIMATE TOTAL			1,355	9,510	1,151	1,316	90	186				
ENVIRONMENTAL DISASTERS												
OIL SANDS	+	+										
OIL SPILLS	+	+										
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	+	+	60	400					300	950		
CORROSION	+	+										
WATER	+	+										
TOTAL			60	400								
HEALTH IMPACT												
AIR POLLUTION	+	-			1,500	2,500	20	45				
INDOOR SMOKE	-	-			10,000	8,750	400	350				
OCCUPATIONAL HAZARDS	+	+			10	15	2	3				
SKIN CANCER	+	+			5	20	0	0				
TOTAL					11515	11285	422	398				
INDUSTRY STRESS												
AGRICULTURE	+	+	-10	-400								
FISHERIES	+	+										
FORESTRY	+	+	1	10								
TOTAL			-9	-389								
CARBON TOTAL			51	11	11,515	11,285	422	398				

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

BIODIVERSITY	OTHER VALUE 1	OTHER VALUE 2
	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)	