

## COUNTRY PROFILE

### BENIN

CLIMATE: **ACUTE**

CARBON: **MODERATE**

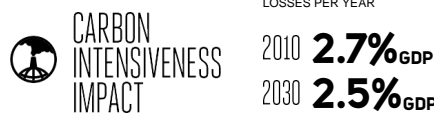
### THE MONITOR ASSESSMENT

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: BENIN

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



### HUMAN NATIONAL LOSS TOTALS: BENIN

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



### FULL COUNTRY ASSESSMENT: BENIN

	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	5								
FLOODS AND LANDSLIDES			1	5	1	1	7	15				
STORMS												
WILDFIRES												
<b>TOTAL</b>			1	10	1	1	7	15				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	20	100					-6,000	-10,000	200	550
DESERTIFICATION	+	+	15	100			100	350	1,500	3,000		
HEATING AND COOLING	+	+	15	150					100	300	85	200
LABOUR PRODUCTIVITY	-	+	400	2,750					59	48		
PERMAFROST												
SEA-LEVEL RISE			25	150					60	85		
WATER			10	75					0	1		
<b>TOTAL</b>			485	3,325			100	350				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS	-	-			350	450	0					
HEAT AND COLD ILLNESSES	-	-			90	150						
HUNGER	-	+			600	650	0	0				
MALARIA AND VECTOR-BORNE	-	+			95	60	25	20				
MENINGITIS	+	+			250	350	0	0				
<b>TOTAL</b>					1,385	1,660	26	20				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	-	+	90	600								
FISHERIES	-	-	25	350								
FORESTRY	+	+	20	200								
HYDRO ENERGY												
TOURISM												
TRANSPORT												
<b>TOTAL</b>			135	1,150								
<b>CLIMATE TOTAL</b>			621	4,485	1,386	1,661	133	385				
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	150	950					1,500	4,500		
CORROSION												
WATER												
<b>TOTAL</b>			150	950								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	+	-			1,000	1,750	15	45				
INDOOR SMOKE	+	+			6,750	5,750	350	300				
OCCUPATIONAL HAZARDS					10	15	2	3				
SKIN CANCER					10	25	0	0				
<b>TOTAL</b>					7,770	7,540	367	348				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			-10	-250								
FISHERIES												
FORESTRY			1	5								
<b>TOTAL</b>			-9	-244								
<b>CARBON TOTAL</b>			141	706	7,770	7,540	367	348				

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