

COUNTRY PROFILE

ZAMBIA

CLIMATE: **ACUTE** CARBON: **SEVERE**

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: ZAMBIA

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



HUMAN NATIONAL LOSS TOTALS: ZAMBIA

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



FULL COUNTRY ASSESSMENT: ZAMBIA

	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												
	-	+	1	1								
					1	1	10	20				
TOTAL			1	2	1	1	10	20				
HABITAT CHANGE												
	-	+	65	400					-85,000	-150,000	70	200
			-1	-15								
			-1	-5					-55	-45		
	+	+	200	1,500					54	43		
TOTAL			262	1,875			0	0				
HEALTH IMPACT												
	+	-			400	750	0					
	+	+			250	400						
	-	+			600	900	0	0				
	+	+			600	600	150	150				
	-	+			250	400	0	0				
TOTAL					2,100	3,050	151	151				
INDUSTRY STRESS												
	-	+	85	600								
	-	-	35	500								
	+	+	150	1,500								
			-5	-25								
TOTAL			265	2,575								
CLIMATE TOTAL			527	4,452	2,101	3,051	161	171				
ENVIRONMENTAL DISASTERS												
TOTAL			0	0								
HABITAT CHANGE												
	-	+	600	3,750					600	1,750		
									20	30		
TOTAL			600	3750								
HEALTH IMPACT												
	-	+			2,000	3,750	40	150				
	+	+			10,000	9,000	550	500				
	-	-			35	50	10	15				
					20	55	0	0				
TOTAL					12055	12855	600	665				
INDUSTRY STRESS												
			-5	-200								
	+	+	50	250								
TOTAL			45	50								
CARBON TOTAL			645	3,800	12,055	12,855	600	665				

VULNERABILITY LEVELS:

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

	OTHER VALUE 1	OTHER VALUE 2
BIODIVERSITY	Contraction of biological zones (km²) (cumulative)	Decline in biological richness
DESERTIFICATION	Additional land degraded (km²) (cumulative)	
HEATING & COOLING	Change in energy load (GWh)	
LABOUR PRODUCTIVITY	Share of workforce particularly affected (%)	
SEA-LEVEL RISE	Net loss of land (km²) (cumulative)	
WATER	Loss in water runoff 2030 (km³)	
OIL SANDS	Tonnes toxic waste ('000s)	
OIL SPILLS	Gallons oil spill ('000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m³)	