

COUNTRY PROFILE



CLIMATE: **HIGH** 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: KENYA

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



HUMAN NATIONAL LOSS TOTALS: KENYA

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



FULL COUNTRY ASSESSMENT: KENYA

	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	-	+	1	5								
FLOODS AND LANDSLIDES			1	10	5	5	40	50				
STORMS				-1								
WILDFIRES												
TOTAL			2	14	5	5	40	50				
HABITAT CHANGE												
BIODIVERSITY	-	+	100	700					-950	-2,000	70	200
DESERTIFICATION			-10	-50								
HEATING AND COOLING			-10	15					-60	35	-25	15
LABOUR PRODUCTIVITY	+	+	700	4,750					48	39		
PERMAFROST												
SEA-LEVEL RISE			200	900			0	0	20	60		
WATER			-65	-400					-1	-5		
TOTAL			915	5,915			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	-	+			800	1,500	1					
HEAT AND COLD ILLNESSES	-	+			350	450						
HUNGER	-	+			800	1,250	0	0				
MALARIA AND VECTOR-BORNE	-	+			250	250	65	70				
MENINGITIS	-	+			200	300	0	0				
TOTAL					2,400	3,750	66	71				
INDUSTRY STRESS												
AGRICULTURE			60	400								
FISHERIES			90	1,250								
FORESTRY			5	30								
HYDRO ENERGY			-1	-5								
TOURISM												
TRANSPORT												
TOTAL			154	1,675								
CLIMATE TOTAL			1,071	7,604	2,405	3,755	107	121				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			100	650					70	200		
CORROSION												
WATER									5	5		
TOTAL			100	650								
HEALTH IMPACT												
AIR POLLUTION	-	+			2,000	3,000	40	100				
INDOOR SMOKE	+	+			20,000	15,000	950	650				
OCCUPATIONAL HAZARDS					45	70	9	15				
SKIN CANCER					50	150	0	0				
TOTAL					22,095	18,220	999	765				
INDUSTRY STRESS												
AGRICULTURE			-45	-1,000								
FISHERIES												
FORESTRY			1	5								
TOTAL			-44.25	-995								
CARBON TOTAL			56	-345	22,095	18,220	999	765				

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 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 ³)	
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)	