

COUNTRY PROFILE

AFGHANISTAN

CLIMATE: **SEVERE**

CARBON: **HIGH**

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: AFGHANISTAN

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



HUMAN NATIONAL LOSS TOTALS: AFGHANISTAN

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



FULL COUNTRY ASSESSMENT: AFGHANISTAN

	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
CLIMATE												
ENVIRONMENTAL DISASTERS												
DROUGHT	+	+	5	40								
FLOODS AND LANDSLIDES	-	-	5	35	5	10	55	90				
STORMS												
WILDFIRES												
TOTAL			10	75	5	10	55	90				
HABITAT CHANGE												
BIODIVERSITY	-	+	80	650					-10,000	-20,000	70	200
DESERTIFICATION	-	-	5	30			25	80	500	1,000		
HEATING AND COOLING			-30	-150					-650	-800	-150	-200
LABOUR PRODUCTIVITY			350	3,000					29	23		
PERMAFROST			20	100			90	200				
SEA-LEVEL RISE												
WATER	-	+	35	250					1	5		
TOTAL			460	3,880			115	280				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	+	+			2,000	4,000	2					
HEAT AND COLD ILLNESSES	+	+			250	400						
HUNGER	+	+			5,750	7,500	5	6				
MALARIA AND VECTOR-BORNE					10	15	2	6				
MENINGITIS	-	-			500	850	0	1				
TOTAL					8,510	12,765	11	13				
INDUSTRY STRESS												
AGRICULTURE	+	-	85	700								
FISHERIES												
FORESTRY												
HYDRO ENERGY												
TOURISM												
TRANSPORT												
TOTAL			85	700								
CLIMATE TOTAL			555	4,655	8,515	12,775	181	383				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			10	65					5	20		
CORROSION												
WATER												
TOTAL			10	65								
HEALTH IMPACT												
AIR POLLUTION	+	+			4,000	10,000	55	200				
INDOOR SMOKE	+	+			80,000	100,000	4,500	6,000				
OCCUPATIONAL HAZARDS	-	-			80	100	20	30				
SKIN CANCER					50	150	0	0				
TOTAL					84,130	110,250	4,575	6,230				
INDUSTRY STRESS												
AGRICULTURE			-10	-350								
FISHERIES												
FORESTRY												
TOTAL			-10	-350								
CARBON TOTAL			0	-285	84,130	110,250	4,575	6,230				

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)	