

COUNTRY PROFILE

TURKMENISTAN



CLIMATE: **MODERATE**



CARBON: **LOW**

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

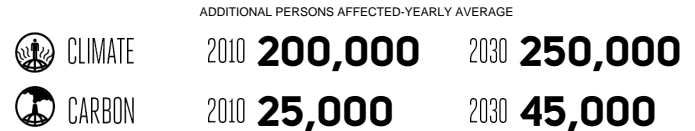
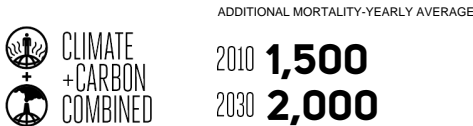
ECONOMIC NATIONAL LOSS TOTALS: TURKMENISTAN

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



HUMAN NATIONAL LOSS TOTALS: TURKMENISTAN

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



FULL COUNTRY ASSESSMENT: TURKMENISTAN

	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	+	-	5	25	5	10	55	80				
STORMS												
WILDFIRES												
TOTAL			5	25	5	10	55	80				
HABITAT CHANGE												
BIODIVERSITY	+	+	350	2,000					-8,000	-15,000	60	200
DESERTIFICATION										-1		
HEATING AND COOLING			-5	-25					-100	-150	-100	-100
LABOUR PRODUCTIVITY			15	90					32	24		
PERMAFROST												
SEA-LEVEL RISE												
WATER			10	75							0	
TOTAL			370	2,140			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					20	15	0					
HEAT AND COLD ILLNESSES					25	5						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS					25	35	0	0				
TOTAL					70	55	0	0				
INDUSTRY STRESS												
AGRICULTURE			40	300								
FISHERIES			5	65								
FORESTRY												
HYDRO ENERGY												
TOURISM												
TRANSPORT												
TOTAL			45	365								
CLIMATE TOTAL			420	2,530	75	65	55	80				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			40	250					5	25		
CORROSION												
WATER												
TOTAL			40	250								
HEALTH IMPACT												
AIR POLLUTION					650	1,000	15	35				
INDOOR SMOKE					900	1,000	4	4				
OCCUPATIONAL HAZARDS					10	10	6	6				
SKIN CANCER					5	15	0	0				
TOTAL					1565	2025	25	45				
INDUSTRY STRESS												
AGRICULTURE			-45	-1,250								
FISHERIES												
FORESTRY												
TOTAL			-45	-1250								
CARBON TOTAL			-5	-1,000	1,565	2,025	25	45				

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 (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)	