

COUNTRY PROFILE

TAJIKISTAN

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

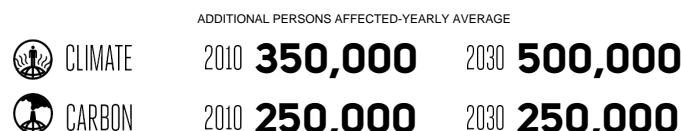
ECONOMIC NATIONAL LOSS TOTALS: TAJIKISTAN

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



HUMAN NATIONAL LOSS TOTALS: TAJIKISTAN

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



FULL COUNTRY ASSESSMENT: TAJIKISTAN

	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	+	+	5	20								
FLOODS AND LANDSLIDES	+	+	40	300	5	5	30	45				
STORMS			1	15								
WILDFIRES												
TOTAL			46	335	5	5	30	45				
HABITAT CHANGE												
BIODIVERSITY	-	+	45	300					-450	-850	80	250
DESERTIFICATION												
HEATING AND COOLING			-5	-15					-95	-90	-1	-1
LABOUR PRODUCTIVITY			5	25					35	26		
PERMAFROST	-	-	100	500			150	250				
SEA-LEVEL RISE												
WATER	-	+	45	300					1	1		
TOTAL			190	1,110			150	250				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	-				45	25	0	0				
HEAT AND COLD ILLNESSES	+				45	20						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS	+	+			55	80	0	0				
TOTAL					145	125	0	0				
INDUSTRY STRESS												
AGRICULTURE		-	15	100								
FISHERIES				1								
FORESTRY				1								
HYDRO ENERGY			-45	-250								
TOURISM												
TRANSPORT												
TOTAL			-30	-148								
CLIMATE TOTAL			206	1,297	150	130	180	295				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			10	70					20	55		
CORROSION	+	-										
WATER												
TOTAL			10	70								
HEALTH IMPACT												
AIR POLLUTION		-			300	450	4	10				
INDOOR SMOKE	+	+			5,500	6,250	250	250				
OCCUPATIONAL HAZARDS					5	5	0	0				
SKIN CANCER					5	10	0	0				
TOTAL					5810	6715	254	260				
INDUSTRY STRESS												
AGRICULTURE			-1	-250								
FISHERIES												
FORESTRY												
TOTAL			-1	-250								
CARBON TOTAL			9	-180	5,810	6,715	254	260				

VULNERABILITY LEVELS:

- Acute+ High+
- Acute- High-
- Severe+ Moderate
- Severe- Low

+ = Upper tier of vulnerability level
- = Lower tier of vulnerability level

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)