

COUNTRY PROFILE

KYRGYZSTAN

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

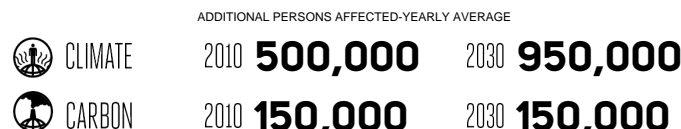
ECONOMIC NATIONAL LOSS TOTALS: KYRGYZSTAN

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



HUMAN NATIONAL LOSS TOTALS: KYRGYZSTAN

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



FULL COUNTRY ASSESSMENT: KYRGYZSTAN

	VULNERABILITY LEVEL		ADDITIONAL ECONOMIC COSTS (MILLION USD PPP)		ADDITIONAL MORTALITY		ADDITIONAL 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	35	1	1	9	15				
STORMS	-	+										
WILDFIRES	-	+										
TOTAL			5	35	1	1	9	15				
HABITAT CHANGE												
BIODIVERSITY	+	+	90	600					-1,250	-2,500	60	150
DESERTIFICATION	-	-										
HEATING AND COOLING	-	-	-10	-75					-250	-400	-20	-40
LABOUR PRODUCTIVITY	-	-	5	25					36	27		
PERMAFROST	+	+	400	1,750			450	850				
SEA-LEVEL RISE	-	+										
WATER	-	+	40	300					1	1		
TOTAL			525	2,600			450	850				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	-	-			15	5	0					
HEAT AND COLD ILLNESSES	-	-			60	75						
HUNGER	-	-										
MALARIA AND VECTOR-BORNE	-	-										
MENINGITIS	-	-			20	30	0	0				
TOTAL					95	110	0	0				
INDUSTRY STRESS												
AGRICULTURE	-	+	15	100								
FISHERIES	-	-										
FORESTRY	-	-	1	5								
HYDRO ENERGY	-	-	-40	-250								
TOURISM	-	-										
TRANSPORT	-	-										
TOTAL			-25	-145								
CLIMATE TOTAL			506	2,490	96	111	459	865				
ENVIRONMENTAL DISASTERS												
OIL SANDS	-	-										
OIL SPILLS	-	-										
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	-	-	25	150					15	50		
CORROSION	-	-										
WATER	-	-										
TOTAL			25	150								
HEALTH IMPACT												
AIR POLLUTION	+	-			650	950	6	10				
INDOOR SMOKE	-	-			3,250	3,750	150	150				
OCCUPATIONAL HAZARDS	+	-			35	35	1	1				
SKIN CANCER	-	-			5	15	0	0				
TOTAL					3940	4750	157	161				
INDUSTRY STRESS												
AGRICULTURE	-	-	-5	-250								
FISHERIES	-	-										
FORESTRY	-	-										
TOTAL			-5	-250								
CARBON TOTAL			20	-100	3,940	4,750	157	161				

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 (1000s)	
OIL SPILLS	Gallons oil spill (1000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m ³)	