

COUNTRY PROFILE

MONGOLIA

CLIMATE: **HIGH** 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: MONGOLIA

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



HUMAN NATIONAL LOSS TOTALS: MONGOLIA

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



FULL COUNTRY ASSESSMENT: MONGOLIA

	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				1								
FLOODS AND LANDSLIDES				1	1		4	3				
STORMS												
WILDFIRES	+	+	1	15								
TOTAL			1	17	1	0	4	3				
HABITAT CHANGE												
BIODIVERSITY	+	+	150	1,500					-3,000	-6,250	20	70
DESERTIFICATION												
HEATING AND COOLING			-40	-450					-350	-750	-500	-1,000
LABOUR PRODUCTIVITY			-15	-150					34	26		
PERMAFROST	+	+	600	4,000			550	1,000				
SEA-LEVEL RISE												
WATER			-1	-10								
TOTAL			694	4,890			550	1,000				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					5	0	0					
HEAT AND COLD ILLNESSES					15	10						
HUNGER					5	15	0	0				
MALARIA AND VECTOR-BORNE												
MENINGITIS					10	10	0	0				
TOTAL					35	35	0	0				
INDUSTRY STRESS												
AGRICULTURE			1	15								
FISHERIES												
FORESTRY			1	30								
HYDRO ENERGY												
TOURISM			-1	-5								
TRANSPORT												
TOTAL			2	40								
CLIMATE TOTAL			696	4,946	35	35	554	1,003				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			150	1,750					25	95		
CORROSION												
WATER												
TOTAL			150	1750								
HEALTH IMPACT												
AIR POLLUTION	+	+			600	750	4	6				
INDOOR SMOKE					650	650	20	20				
OCCUPATIONAL HAZARDS					20	25	0	0				
SKIN CANCER					5	10	0	0				
TOTAL					1275	1435	24	26				
INDUSTRY STRESS												
AGRICULTURE	+	+	5	60								
FISHERIES												
FORESTRY			1	5								
TOTAL			5.5	65								
CARBON TOTAL			155	1,815	1,275	1,435	24	26				

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)	