CLIMATE VULNERABILITY MONITOR

DARA

Climate Vulnerable Forum

COUNTRY PROFILE

AZERBAIJAN

CLIMATE: LOW 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: AZERBAIJAN

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

	LOSSES PER YEAR	
CLIMATE CHANGE IMPACT	2010 **0.4%GDP**	2030 **0.7%GDP**
CARBON INTENSIVENESS IMPACT	2010 **0.4%GDP**	2030 **0.4%GDP**

HUMAN NATIONAL LOSS TOTALS: AZERBAIJAN

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

	ADDITIONAL MORTALITY-YEARLY AVERAGE	
CLIMATE +CARBON COMBINED	2010 **4,500**	2030 **4,500**

	ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE	
CLIMATE	2010 **150,000**	2030 **150,000**
CARBON	2010 **100,000**	2030 **150,000**

FULL COUNTRY ASSESSMENT: AZERBAIJAN

		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	30								
	FLOODS AND LANDSLIDES	-	-	5	30	1	1	9	10				
	STORMS												
	WILDFIRES												
	TOTAL			10	60	1	1	9	10				
	HABITAT CHANGE												
	BIODIVERSITY	+	+	200	1,250					-2,000	-4,000	80	250
	DESERTIFICATION				-1			0	-1	-5	-10		
	HEATING AND COOLING			-35	-200					-250	-400	-150	-250
	LABOUR PRODUCTIVITY			35	200					36	27		
	PERMAFROST												
	SEA-LEVEL RISE												
	WATER	-	+	100	800					0	1		
	TOTAL			300	2,049			0	-1				
	HEALTH IMPACT												
	DIARRHEAL INFECTIONS					15	10	0					
	HEAT AND COLD ILLNESSES	-	+			25	65						
	HUNGER												
	MALARIA AND VECTOR-BORNE												
	MENINGITIS					20	25	0	0				
	TOTAL					60	100	0	0				
	INDUSTRY STRESS												
	AGRICULTURE			25	200								
	FISHERIES				5								
	FORESTRY			1	25								
	HYDRO ENERGY			-5	-20								
	TOURISM												
	TRANSPORT												
	TOTAL			21	210								
	CLIMATE TOTAL			**331**	**2,319**	**61**	**101**	**9**	**8**				
CARBON	**ENVIRONMENTAL DISASTERS**												
	OIL SANDS												
	OIL SPILLS												
	TOTAL			0	0								
	HABITAT CHANGE												
	BIODIVERSITY			45	300					20	60		
	CORROSION	+	-	1	1								
	WATER												
	TOTAL			45.75	301								
	HEALTH IMPACT												
	AIR POLLUTION	-	+			1,500	2,000	20	35				
	INDOOR SMOKE	-	-			2,750	2,750	100	100				
	OCCUPATIONAL HAZARDS					5	5	3	3				
	SKIN CANCER		-			10	30	0	0				
	TOTAL					4265	4785	123	138				
	INDUSTRY STRESS												
	AGRICULTURE	+		20	-90								
	FISHERIES												
	FORESTRY												
	TOTAL			20	-90								
	CARBON TOTAL			**65**	**211**	**4,265**	**4,785**	**123**	**138**				

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)	