CLIMATE VULNERABILITY MONITOR







COUNTRY PROFILE







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: ARMENIA

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



2010 **0.6%**_{GDP} 2030 **1.2%**cpp



2010 **0.5%**_{GDP} 2030 **0.4%**_{GDB}

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE



HUMAN NATIONAL LOSS TOTALS: ARMENIA

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

ADDITIONAL

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON

2010 3,000 2030 3,000 CLIMATE

🔊 CARBON

ADDITIONAL

2010 **45,000**

2010 **65,000**

2030 **55,000**

2030 70,000

FULL COUNTRY ASSESSMENT: ARMENIA

		VULNERABILITY ECONO		ECONOM	MIC COSTS ADDITIONAL N USD PPP) MORTALITY		AFFE POPULATI	IONAL CTED ON (1000s)	OTHER VALUE 1*		OTHER VALUE 2*							
			2010 2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030	_				
		ENVIRONMENTAL DISASTERS												VULNERABIL	BILITY LEVELS:			
	(4)	DROUGHT	+ +	5	25									+ Acute+	+ High-	+		
		FLOODS AND LANDSLIDES	+ -		1	1	1	20	25					- Acute-	- High-			
		STORMS												- Severe+	Mode	rate		
		WILDFIRES												_	_	ide		
		TOTAL		5	26	1	1	20	25					- Severe-	Low			
		HABITAT CHANGE																
		BIODIVERSITY	+ +	35	250					-700	-1,500	70	200	+ = Upper tier	r of vulnerabilit	y level		
CLIMATE	•	DESERTIFICATION												- = Lower tier	r of vulnerabilit	y level		
		HEATING AND COOLING		-25	-150					-200	-300	-20	-40					
		LABOUR PRODUCTIVITY		5	40					25	19			Environm	ental disasters			
		PERMAFROST												Habitat change				
	•	SEA-LEVEL RISE			=00									_	-			
		WATER	+ +	70	500			^	^	0	1			, Pealth im	pact			
		TOTAL		85	640			0	0					Nondustry s	trace			
		HEALTH IMPACT						_						y industry stress				
		DIARRHEAL INFECTIONS				75	1	0						· •				
		HEAT AND COLD ILLNESSES	+ +			75	85							CLIMATE = Impact/Vulnera				
		HUNGER												_	to Climate Cha	9		
		MALARIA AND VECTOR-BORNE MENINGITIS				10	10	0	0					CARBON =				
		TOTAL	-			86	96	0	0						to Carbon Intensiver			
	Ì	INDUSTRY STRESS				00	90	U	U									
	%	AGRICULTURE		5	45										OTHER	OTHER		
		FISHERIES		3	1										VALUE 1	VALUE 2		
		FORESTRY		1	5										Contraction	Decline in		
	W	HYDRO ENERGY		-1	-15									BIODIVERSITY	of biological zones (km²)	biological		
		TOURISM		•	10										(cumulative)	richness		
		TRANSPORT												DESERTI-	Additional land			
		TOTAL		5	36									FICATION	degraded (km²) (cumulative)			
		CLIMATE TOTAL		94	702	87	96	20	25									
														HEATING & COOLING	Change in ener load (GWh)	·9y		
CARBON		ENVIRONMENTAL DISASTERS																
		OIL SANDS OIL SPILLS												LABOUR	Share of workforce			
				0	0									PRODUCTIVITY				
		TOTAL HABITAT CHANGE		U	U													
		BIODIVERSITY		15	85					25	75			SEA-LEVEL	Net loss of			
		CORROSION		10	65					23	75			RISE	land (km²) (cumulative)			
		WATER													Loss in water			
		TOTAL		15	85									WATER	runoff 2030			
	•	HEALTH IMPACT		10	00										(km³)			
		AIR POLLUTION	+ +			2,000	2,250	20	30					OIL SANDS	Tonnes toxic			
		INDOOR SMOKE	4 -			1,000	950	40	35					UIL SAINDS	waste (1000s)			
		OCCUPATIONAL HAZARDS	+ +			30	30	4	4									
		SKIN CANCER												OIL SPILLS	Gallons oil spill (1000s)			
		TOTAL				3030	3230	64	69						opin (10000)			
		INDUSTRY STRESS												BIODIVERSITY	Decline in			
		AGRICULTURE		-1	-90									DIODIVERSITI	biological richn	ess		
		FISHERIES																
	_	FORESTRY												WATER				
		TOTAL		-1	-90										(millions m³)			
		CARBON TOTAL		14	-5	3,030	3,230	64	69									