

COUNTRY PROFILE

MOLDOVA

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: MOLDOVA

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



LOSSES PER YEAR

2010 **NIL**
2030 **0.4%GDP**



LOSSES PER YEAR

2010 **0.3%GDP**
2030 **NIL**

HUMAN NATIONAL LOSS TOTALS: MOLDOVA

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



ADDITIONAL MORTALITY-YEARLY AVERAGE

2010 **2,500**
2030 **2,500**



ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **6,000** 2030 **5,000**
2010 **30,000** 2030 **30,000**

FULL COUNTRY ASSESSMENT: MOLDOVA

	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	+	+	10	65								
FLOODS AND LANDSLIDES	+	+	15	100	1	1	5	5				
STORMS			1	5								
WILDFIRES												
TOTAL			26	170	1	1	5	5				
HABITAT CHANGE												
BIODIVERSITY	-	+	15	85					-300	-650	60	200
DESERTIFICATION												
HEATING AND COOLING			-65	-450					-350	-650	-250	-500
LABOUR PRODUCTIVITY			1	10					4	4		
PERMAFROST												
SEA-LEVEL RISE												
WATER	-	+	30	200					0	1		
TOTAL			-19	-155			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES	-	+			55	75						
HUNGER												
MALARIA AND VECTOR-BORNE							0	0				
MENINGITIS												
TOTAL					55	75	0	0				
INDUSTRY STRESS												
AGRICULTURE	-	+	15	90								
FISHERIES				5								
FORESTRY												
HYDRO ENERGY							1					
TOURISM												
TRANSPORT												
TOTAL			15	95								
CLIMATE TOTAL			21	110	55	75	5	5				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			10	50					80	200		
CORROSION												
WATER	+	+	10	40					1,250	1,750		
TOTAL			20	90								
HEALTH IMPACT												
AIR POLLUTION	+	+			1,500	1,750	10	15				
INDOOR SMOKE	-	+			800	700	20	15				
OCCUPATIONAL HAZARDS	+	+			20	25	1	1				
SKIN CANCER	+	+			35	70	0	0				
TOTAL					2355	2545	31	31				
INDUSTRY STRESS												
AGRICULTURE			-5	-150								
FISHERIES												
FORESTRY												
TOTAL			-5	-150								
CARBON TOTAL			15	-60	2,355	2,545	31	31				

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) | |