

COUNTRY PROFILE

BULGARIA

CLIMATE: **MODERATE**

CARBON: **SEVERE**

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: BULGARIA

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



HUMAN NATIONAL LOSS TOTALS: BULGARIA

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



FULL COUNTRY ASSESSMENT: BULGARIA

	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	20								
FLOODS AND LANDSLIDES	-	-	10	70	1	1	3	1				
STORMS												
WILDFIRES			-0	-1								
TOTAL			15	89	1	1	3	1				
HABITAT CHANGE												
BIODIVERSITY	+	+	250	1,500					-5,250	-10,000	90	250
DESERTIFICATION	-	-	10	80			10	20	150	350		
HEATING AND COOLING			-250	-1,500					-1,250	-2,250	-800	-1,500
LABOUR PRODUCTIVITY			1	15					5	5		
PERMAFROST												
SEA-LEVEL RISE			30	150			0	0				
WATER	+	+	600	4,000					1	1		
TOTAL			641	4,245			10	20				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					1	0	0	0				
HEAT AND COLD ILLNESSES	+	+			200	200						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS												
TOTAL					201	200	0	0				
INDUSTRY STRESS												
AGRICULTURE			40	250								
FISHERIES			1	25								
FORESTRY			10	100								
HYDRO ENERGY			5	95								
TOURISM			-1	-5								
TRANSPORT	+	+	5	65								
TOTAL			60	530								
CLIMATE TOTAL			715	4,864	200	200	13	21				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			150	1,000					60	200		
CORROSION	+	+	5	10								
WATER	-	-	5	20					150	200		
TOTAL			160	1030								
HEALTH IMPACT												
AIR POLLUTION	+	+			4,250	4,000	35	35				
INDOOR SMOKE	+	+			2,250	1,750	15	10				
OCCUPATIONAL HAZARDS	+	+			90	85	3	3				
SKIN CANCER	+	+			95	150	0	0				
TOTAL					6685	5985	53	48				
INDUSTRY STRESS												
AGRICULTURE	+	+	150	90								
FISHERIES			1	10								
FORESTRY	+	+	150	450								
TOTAL			301	550								
CARBON TOTAL			461	1,580	6,685	5,985	53	48				

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 (km²) (cumulative) Decline in biological richness
- DESERTIFICATION Additional land degraded (km²) (cumulative)
- HEATING & COOLING Change in energy load (GWh)
- LABOUR PRODUCTIVITY Share of workforce particularly affected (%)
- SEA-LEVEL RISE Net loss of land (km²) (cumulative)
- WATER Loss in water runoff 2030 (km³)
- OIL SANDS Tonnes toxic waste ('000s)
- OIL SPILLS Gallons oil spill ('000s)
- BIODIVERSITY Decline in biological richness
- WATER Volume of water to treat (millions m³)