

COUNTRY PROFILE

RUSSIA

CLIMATE: **LOW**

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

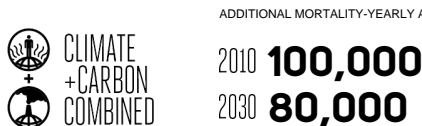
ECONOMIC NATIONAL LOSS TOTALS: RUSSIA

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



HUMAN NATIONAL LOSS TOTALS: RUSSIA

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



FULL COUNTRY ASSESSMENT: RUSSIA

	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
ENVIRONMENTAL DISASTERS												
DROUGHT	-	+	90	400								
FLOODS AND LANDSLIDES			75	550	10	5	35	25				
STORMS			1	10	-1	-5	0	0				
WILDFIRES	+	-	5	40								
TOTAL			171	1,000	9	0	34	24				
HABITAT CHANGE												
BIODIVERSITY	-	-	3,250	25,000					-70,000	-150,000	10	30
DESERTIFICATION	-	-	200	1,250			25	50	3,250	6,250		
HEATING AND COOLING			-2,250	-15,000					-20,000	-45,000	-15,000	-25,000
LABOUR PRODUCTIVITY			-2,000	-15,000					6	6		
PERMAFROST	-	+	15,000	75,000			4,500	9,500				
SEA-LEVEL RISE			3,000	10,000			1	1	400	1,000		
WATER			-2,500	-15,000					-5	-10		
TOTAL			14,700	66,250			4,526	9,551				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					5	0	0	0				
HEAT AND COLD ILLNESSES	-	+			2,250	3,000						
HUNGER												
MALARIA AND VECTOR-BORNE					1	1	0	0				
MENINGITIS					200	200	0	0				
TOTAL					2,456	3,201	0	1				
INDUSTRY STRESS												
AGRICULTURE			400	2,750								
FISHERIES			-1,250	-8,250								
FORESTRY			150	850								
HYDRO ENERGY			-300	-1,500								
TOURISM			-65	-500								
TRANSPORT												
TOTAL			-1,065	-6,650								
CLIMATE TOTAL			13,806	60,600	2,464	3,201	4,562	9,577				
ENVIRONMENTAL DISASTERS												
OIL SANDS			50	350					700	1,250		
OIL SPILLS			300	1,000					1,500	1,750		
TOTAL			350	1,350								
HABITAT CHANGE												
BIODIVERSITY			15,000	100,000					40	100		
CORROSION	-	+	60	250								
WATER			100	500					4,500	5,250		
TOTAL			15160	100750								
HEALTH IMPACT												
AIR POLLUTION	+	+			65,000	70,000	900	1,000				
INDOOR SMOKE					30,000	2,750	200	15				
OCCUPATIONAL HAZARDS	+	+			1,500	1,500	350	350				
SKIN CANCER	+	-			850	1,500	1	3				
TOTAL					97350	75750	1451	1368				
INDUSTRY STRESS												
AGRICULTURE	+	+	1,500	4,750								
FISHERIES												
FORESTRY			450	1,750								
TOTAL			1950	6500								
CARBON TOTAL			17,460	108,600	97,350	75,750	1,451	1,368				

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

BIODIVERSITY OTHER VALUE 1: Contraction of biological zones (km²) (cumulative); OTHER VALUE 2: 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)