

COUNTRY PROFILE

BELGIUM

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: BELGIUM

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

CLIMATE CHANGE IMPACT

LOSSES PER YEAR
2010 **NIL**
2030 **NIL**

CARBON INTENSIVENESS IMPACT

LOSSES PER YEAR
2010 **NIL**
2030 **NIL**

HUMAN NATIONAL LOSS TOTALS: BELGIUM

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

CLIMATE + CARBON COMBINED

ADDITIONAL MORTALITY-YEARLY AVERAGE
2010 **2,000**
2030 **2,500**

CLIMATE

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE
2010 **2,250,000** 2030 **2,250,000**

CARBON

2010 **50,000** 2030 **70,000**

FULL COUNTRY ASSESSMENT: BELGIUM

	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	+	-	10	15								
FLOODS AND LANDSLIDES			1	5			1	1	2			
STORMS			1	10			0	0				
WILDFIRES												
TOTAL			12	30	0	1	1	2				
HABITAT CHANGE												
BIODIVERSITY			100	350					-350	-750	90	300
DESERTIFICATION												
HEATING AND COOLING			-600	-1,750					-3,000	-5,250	-700	-1,250
LABOUR PRODUCTIVITY									5	5		
PERMAFROST												
SEA-LEVEL RISE			350	25			2	2	10	15		
WATER	-	+	350	1,000					0	1		
TOTAL			200	-375			2	2				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES					20	20						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS												
TOTAL					20	20	0	0				
INDUSTRY STRESS												
AGRICULTURE			35	85								
FISHERIES			1	5								
FORESTRY												
HYDRO ENERGY												
TOURISM			-1	-1								
TRANSPORT												
TOTAL			35	89								
CLIMATE TOTAL			247	-256	20	20	3	4				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			55	150					60	150		
CORROSION	+	+	15	15								
WATER			10	10					250	200		
TOTAL			80	175								
HEALTH IMPACT												
AIR POLLUTION	-	-			1,500	1,750	25	45				
INDOOR SMOKE					350	450	3	5				
OCCUPATIONAL HAZARDS	+	+			150	150	20	20				
SKIN CANCER	+	+			100	200	0	1				
TOTAL					2100	2550	49	71				
INDUSTRY STRESS												
AGRICULTURE	+		100	40								
FISHERIES												
FORESTRY												
TOTAL			100	41.5								
CARBON TOTAL			180	216	2,100	2,550	49	71				

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)	