

COUNTRY PROFILE

SWEDEN

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: SWEDEN

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



LOSSES PER YEAR

2010 **NIL**
2030 **NIL**



LOSSES PER YEAR

2010 **0.4% GDP**
2030 **0.7% GDP**

HUMAN NATIONAL LOSS TOTALS: SWEDEN

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



ADDITIONAL MORTALITY-YEARLY AVERAGE

2010 **2,000**
2030 **2,500**



ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **550,000** 2030 **650,000**
2010 **35,000** 2030 **50,000**

FULL COUNTRY ASSESSMENT: SWEDEN

	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	+	+	5	10								
FLOODS AND LANDSLIDES	+	+		1			0	0				
STORMS	+	+	5	10			0	0				
WILDFIRES	+	+										
TOTAL			10	21	0	0	0	0				
HABITAT CHANGE												
BIODIVERSITY	-	-	400	950					-3,250	-6,500	30	80
DESERTIFICATION	+	+										
HEATING AND COOLING	+	+	-1,250	-3,250					-5,000	-9,000	-150	-300
LABOUR PRODUCTIVITY	+	+	-300	-950					6	6		
PERMAFROST	+	+	85	150			20	40				
SEA-LEVEL RISE	+	+	150	300			0	0	5	10		
WATER	+	+	-1,500	-4,500					-1	-1		
TOTAL			-2,415	-7,300			20	40				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	+	+			0	0	0	0				
HEAT AND COLD ILLNESSES	+	+			45	90						
HUNGER	+	+										
MALARIA AND VECTOR-BORNE	+	+										
MENINGITIS	+	+										
TOTAL					45	90	0	0				
INDUSTRY STRESS												
AGRICULTURE	+	+	-20	-40								
FISHERIES	+	+	10	25								
FORESTRY	+	+	10	25								
HYDRO ENERGY	+	+	40	-60								
TOURISM	+	+	1	15								
TRANSPORT	+	+										
TOTAL			41	-35								
CLIMATE TOTAL			-2,364	-7,315	45	90	20	41				
ENVIRONMENTAL DISASTERS												
OIL SANDS	+	+										
OIL SPILLS	+	+										
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	+	+	1,000	3,250					75	250		
CORROSION	+	+	1	1								
WATER	+	+	60	80					1,750	1,500		
TOTAL			1060.5	3330.5								
HEALTH IMPACT												
AIR POLLUTION	+	+			1,250	1,250	20	35				
INDOOR SMOKE	+	+			400	500	4	5				
OCCUPATIONAL HAZARDS	+	+			65	70	10	10				
SKIN CANCER	+	+			150	350	0	1				
TOTAL					1865	2170	35	52				
INDUSTRY STRESS												
AGRICULTURE	+	+	35	30								
FISHERIES	+	+	1	1								
FORESTRY	+	+	40	90								
TOTAL			75.75	121								
CARBON TOTAL			1,135	3,451	1,865	2,170	35	52				

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)