

COUNTRY PROFILE

NETHERLANDS

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: NETHERLANDS

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



HUMAN NATIONAL LOSS TOTALS: NETHERLANDS

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



FULL COUNTRY ASSESSMENT: NETHERLANDS

	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			15	25									
FLOODS AND LANDSLIDES			15	40	1	1	2	3					
STORMS			1	5			0	0					
WILDFIRES													
TOTAL			31	70	1	1	2	3					
HABITAT CHANGE													
BIODIVERSITY			150	400					-500	-1,000	90	300	
DESERTIFICATION													
HEATING AND COOLING			-1,250	-3,500					-5,250	-9,500	-2,500	-4,500	
LABOUR PRODUCTIVITY									6	6			
PERMAFROST													
SEA-LEVEL RISE			1,250	1,250			15	15	20	25			
WATER			150	500						0			
TOTAL			300	-1,350			15	15					
HEALTH IMPACT													
DIARRHEAL INFECTIONS					0	0	0	0					
HEAT AND COLD ILLNESSES					-10	1							
HUNGER													
MALARIA AND VECTOR-BORNE													
MENINGITIS													
TOTAL					-10	1	0	0					
INDUSTRY STRESS													
AGRICULTURE			50	100									
FISHERIES			15	45									
FORESTRY													
HYDRO ENERGY													
TOURISM			-1	-5									
TRANSPORT			35	150									
TOTAL			99	290									
CLIMATE TOTAL			430	-990	-10	1	17	18					
CARBON													
ENVIRONMENTAL DISASTERS													
OIL SANDS													
OIL SPILLS													
TOTAL			0	0									
HABITAT CHANGE													
BIODIVERSITY			45	150					65	150			
CORROSION			5	5									
WATER			40	50					950	850			
TOTAL			90	205									
HEALTH IMPACT													
AIR POLLUTION					2,750	3,250	35	45					
INDOOR SMOKE					400	550	4	6					
OCCUPATIONAL HAZARDS					150	150	15	15					
SKIN CANCER					250	500	1	2					
TOTAL					3,550	4,450	55	68					
INDUSTRY STRESS													
AGRICULTURE			65	-60									
FISHERIES			10	35									
FORESTRY			60	70									
TOTAL			135	45									
CARBON TOTAL			225	250	3,550	4,450	55	68					

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 (1000s)

OIL SPILLS: Gallons oil spill (1000s)

BIODIVERSITY: Decline in biological richness

WATER: Volume of water to treat (millions m³)