

COUNTRY PROFILE

ITALY

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: ITALY

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



HUMAN NATIONAL LOSS TOTALS: ITALY

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



FULL COUNTRY ASSESSMENT: ITALY

	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	-	+	55	150								
FLOODS AND LANDSLIDES	-	-	150	500	1	1	5	7				
STORMS	-	-	1	5								
WILDFIRES	-	-	-1	-1								
TOTAL			205	654	1	1	5	7				
HABITAT CHANGE												
BIODIVERSITY	-	-	700	2,000					-8,500	-15,000	70	200
DESERTIFICATION	-	-	450	1,250			1,000	2,500	6,250	10,000		
HEATING AND COOLING	-	-	-2,000	-5,250					-6,500	-10,000	-3,250	-5,750
LABOUR PRODUCTIVITY	-	-							4	4		
PERMAFROST	-	-										
SEA-LEVEL RISE	-	-	250	550			1	1	30	50		
WATER	-	+	2,250	6,750					1	5		
TOTAL			1,650	5,300			1,001	2,501				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	-	-			0	0	0	0				
HEAT AND COLD ILLNESSES	-	-			600	850						
HUNGER	-	-										
MALARIA AND VECTOR-BORNE	-	-										
MENINGITIS	-	-										
TOTAL					600	850	0	0				
INDUSTRY STRESS												
AGRICULTURE	-	-	300	650								
FISHERIES	-	-	20	60								
FORESTRY	-	-	15	50								
HYDRO ENERGY	-	-	35	100								
TOURISM	-	-	15	85								
TRANSPORT	-	-										
TOTAL			385	945								
CLIMATE TOTAL			2,240	6,899	601	851	1,006	2,508				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS	-	-		20						250		
OIL SPILLS	-	-	450	750					2,250	2,500		
TOTAL			450	770								
HABITAT CHANGE												
BIODIVERSITY	-	-	550	1,750					60	200		
CORROSION	-	-	10	10								
WATER	-	-	1	1					80	70		
TOTAL			561	1761								
HEALTH IMPACT												
AIR POLLUTION	-	+			9,750	10,000	150	200				
INDOOR SMOKE	-	-			2,250	2,750	25	30				
OCCUPATIONAL HAZARDS	-	+			500	550	55	55				
SKIN CANCER	-	+			650	1,250	3	5				
TOTAL					13150	14550	233	290				
INDUSTRY STRESS												
AGRICULTURE	-	-	150	-900								
FISHERIES	-	-	20	60								
FORESTRY	-	-	200	250								
TOTAL			370	-590								
CARBON TOTAL			1,381	1,941	13,150	14,550	233	290				

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	OTHER VALUE 2
DESERTIFICATION	Contraction of biological zones (km²) (cumulative)	Decline in biological richness
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)	