

COUNTRY PROFILE

SPAIN

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: SPAIN

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



HUMAN NATIONAL LOSS TOTALS: SPAIN

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



FULL COUNTRY ASSESSMENT: SPAIN

	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	+	+	200	650								
FLOODS AND LANDSLIDES			10	35	1	1	4	5				
STORMS			-1	-10								
WILDFIRES			-0	-1								
TOTAL			209	674	1	1	4	5				
HABITAT CHANGE												
BIODIVERSITY	-	+	1,500	4,250					-15,000	-30,000	80	250
DESERTIFICATION	-	+	200	600			250	450	2,750	5,500		
HEATING AND COOLING			-500	-1,250					-2,500	-4,000	-800	-1,250
LABOUR PRODUCTIVITY									5	5		
PERMAFROST												
SEA-LEVEL RISE			200	450			1	1	35	65		
WATER	+	+	4,750	15,000					5	5		
TOTAL			6,150	19,050			251	451				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES	-	+			250	300						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS												
TOTAL					250	300	0	0				
INDUSTRY STRESS												
AGRICULTURE			350	850								
FISHERIES			35	100								
FORESTRY			35	100								
HYDRO ENERGY			10	95								
TOURISM			5	30								
TRANSPORT												
TOTAL			435	1,175								
CLIMATE TOTAL			6,793	20,899	250	301	255	456				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS			500	800					2,250	2,500		
TOTAL			500	800								
HABITAT CHANGE												
BIODIVERSITY			1,250	3,500					70	200		
CORROSION	-	-	5	5								
WATER	-	-	90	100					2,750	2,500		
TOTAL			1345	3605								
HEALTH IMPACT												
AIR POLLUTION	-	+			8,000	8,750	150	200				
INDOOR SMOKE					1,750	2,250	40	45				
OCCUPATIONAL HAZARDS	-	-			350	350	55	55				
SKIN CANCER	+	+			400	750	2	3				
TOTAL					10500	12100	247	303				
INDUSTRY STRESS												
AGRICULTURE	-	-	250	-1,000								
FISHERIES	-	-	35	100								
FORESTRY	-	-	250	300								
TOTAL			535	-600								
CARBON TOTAL			2,380	3,805	10,500	12,100	247	303				

VULNERABILITY LEVELS:

- Acute+ (Red +)
- Acute- (Red -)
- Severe+ (Orange +)
- Severe- (Orange -)
- High+ (Yellow +)
- High- (Yellow -)
- Moderate (Green)
- Low (Dark Green)

+ = 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)	