

## COUNTRY PROFILE

### MOROCCO

CLIMATE: **HIGH** CARBON: **LOW**

#### 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](http://www.daraint.org/cvm2) - [cvm@daraint.org](mailto:cvm@daraint.org) - +34 915310372

#### ECONOMIC NATIONAL LOSS TOTALS: MOROCCO

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



#### HUMAN NATIONAL LOSS TOTALS: MOROCCO

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



#### FULL COUNTRY ASSESSMENT: MOROCCO

	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
<b>ENVIRONMENTAL DISASTERS</b>												
	+	+	40	300								
			5	30	1	1	15	20				
<b>TOTAL</b>			45	330	1	1	15	20				
<b>HABITAT CHANGE</b>												
	-	+	300	2,000					-10,000	-20,000	30	100
	-	+	30	200			85	200	1,250	2,500		
			-200	-1,000					-1,750	-2,500	-1,250	-1,750
			65	450					21	14		
			250	1,750			1	1	15	30		
			10	70						0		
<b>TOTAL</b>			455	3,470			86	201				
<b>HEALTH IMPACT</b>												
					150	250	0					
					100	150						
					500	600	0	0				
							0	0				
					40	55	0	0				
<b>TOTAL</b>					790	1,055	1	0				
<b>INDUSTRY STRESS</b>												
	+	+	400	3,000								
	-	+	650	7,250								
			5	75								
			-1	-5								
<b>TOTAL</b>			1,055	10,320								
<b>CLIMATE TOTAL</b>			1,554	14,120	791	1,056	102	222				
<b>ENVIRONMENTAL DISASTERS</b>												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
			35	250					5	15		
			1	5								
<b>TOTAL</b>			35.75	255								
<b>HEALTH IMPACT</b>												
	+	-			6,500	9,000	65	100				
					3,500	3,750	65	70				
					50	70	6	10				
					15	40	0	0				
<b>TOTAL</b>					10065	12860	136	180				
<b>INDUSTRY STRESS</b>												
			-15	-900								
			1	5								
			30	150								
<b>TOTAL</b>			15.5	-745								
<b>CARBON TOTAL</b>			50	-490	10,065	12,860	136	180				

**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 <sup>2</sup> ) (cumulative)	Decline in biological richness
DESERTIFICATION	Additional land degraded (km <sup>2</sup> ) (cumulative)	
HEATING & COOLING	Change in energy load (GWh)	
LABOUR PRODUCTIVITY	Share of workforce particularly affected (%)	
SEA-LEVEL RISE	Net loss of land (km <sup>2</sup> ) (cumulative)	
WATER	Loss in water runoff 2030 (km <sup>3</sup> )	
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 <sup>3</sup> )	