

## COUNTRY PROFILE

**IRAN**

CLIMATE: **MODERATE**

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

### ECONOMIC NATIONAL LOSS TOTALS: IRAN

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



### HUMAN NATIONAL LOSS TOTALS: IRAN

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



### FULL COUNTRY ASSESSMENT: IRAN

	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>CLIMATE</b>												
<b>ENVIRONMENTAL DISASTERS</b>												
DROUGHT	+	+	200	1,500			40	50				
FLOODS AND LANDSLIDES	+	+	200	1,750	10	10						
STORMS			250	1,750								
WILDFIRES												
<b>TOTAL</b>			650	5,000	10	10	40	50				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	3,250	25,000					-10,000	-20,000	30	100
DESERTIFICATION			1	20			1	4	35	70		
HEATING AND COOLING			-100	-350					-2,000	-2,000	-1,250	-1,250
LABOUR PRODUCTIVITY			400	2,750					19	13		
PERMAFROST												
SEA-LEVEL RISE			350	2,000			0	0	200	400		
WATER			300	2,250					1	1		
<b>TOTAL</b>			4,201	31,670			1	4				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS					100	0	0					
HEAT AND COLD ILLNESSES					250	300						
HUNGER					200	400	0	1				
MALARIA AND VECTOR-BORNE												
MENINGITIS					65	90	0	0				
<b>TOTAL</b>					615	790	1	2				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	-	+	1,250	8,750								
FISHERIES			450	5,000								
FORESTRY												
HYDRO ENERGY			25	150								
TOURISM												
TRANSPORT												
<b>TOTAL</b>			1,725	13,900								
<b>CLIMATE TOTAL</b>			6,576	50,570	625	800	43	56				
<b>CARBON</b>												
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY			550	4,250					5	20		
CORROSION	-	+	10	40								
WATER												
<b>TOTAL</b>			560	4290								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	-	+			20,000	40,000	250	800				
INDOOR SMOKE					6,000	6,750	25	30				
OCCUPATIONAL HAZARDS	+	-	300	450	150	200						
SKIN CANCER			150	350	0	0						
<b>TOTAL</b>					26450	47550	425	1030				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	+	-	200	1,500								
FISHERIES			5	15								
FORESTRY	-	-	200	1,000								
<b>TOTAL</b>			405	2515								
<b>CARBON TOTAL</b>			965	6,805	26,450	47,550	425	1,030				

**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: Contraction of biological zones (km<sup>2</sup>) (cumulative) OTHER VALUE 2: 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>)