

COUNTRY PROFILE

TURKEY

CLIMATE: **MODERATE** CARBON: **MODERATE**

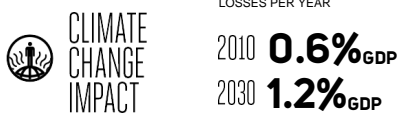
THE MONITOR ASSESSMENT

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 - cvm@daraint.org - +34 915310372

ECONOMIC NATIONAL LOSS TOTALS: TURKEY

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



HUMAN NATIONAL LOSS TOTALS: TURKEY

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



FULL COUNTRY ASSESSMENT: TURKEY

	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
ENVIRONMENTAL DISASTERS												
DROUGHT	-	-	35	65								
FLOODS AND LANDSLIDES			30	100	5	10	15	35				
STORMS												
WILDFIRES												
TOTAL			65	165	5	10	15	35				
HABITAT CHANGE												
BIODIVERSITY	-	-	1,500	4,750					-4,750	-9,750	40	100
DESERTIFICATION	+	+	350	950			600	1,500	6,250	15,000		
HEATING AND COOLING			-550	-1,250					-3,250	-5,250	-1,750	-2,750
LABOUR PRODUCTIVITY			400	1,250					20	14		
PERMAFROST												
SEA-LEVEL RISE			300	750			0	1	55	85		
WATER	+	+	1,750	5,500					10	20		
TOTAL			3,750	11,950			600	1,501				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					25	15	0					
HEAT AND COLD ILLNESSES					250	500						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS					100	150	0	0				
TOTAL					375	665	0	0				
INDUSTRY STRESS												
AGRICULTURE	-	-	1,250	3,000								
FISHERIES			400	1,250								
FORESTRY			5	20								
HYDRO ENERGY			85	250								
TOURISM				1								
TRANSPORT												
TOTAL			1,740	4,521								
CLIMATE TOTAL			5,555	16,636	380	675	616	1,536				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			650	2,000					15	45		
CORROSION	+	-	10	20								
WATER			5	5					150	250		
TOTAL			665	2025								
HEALTH IMPACT												
AIR POLLUTION	+	+			25,000	35,000	300	450				
INDOOR SMOKE	+	-			9,500	15,000	400	650				
OCCUPATIONAL HAZARDS	-	-			350	400	40	40				
SKIN CANCER					100	250	0	0				
TOTAL					34,950	50,650	740	1,140				
INDUSTRY STRESS												
AGRICULTURE	+	+	550	-1,000								
FISHERIES			5	15								
FORESTRY	+	-	500	1,000								
TOTAL			1,055	15								
CARBON TOTAL			1,720	2,040	34,950	50,650	740	1,140				

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 (km²) (cumulative); OTHER VALUE 2: 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 (km²)

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)