

COUNTRY PROFILE

MEXICO

CLIMATE: HIGH **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: MEXICO

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



HUMAN NATIONAL LOSS TOTALS: MEXICO

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



FULL COUNTRY ASSESSMENT: MEXICO

	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	+	+	95	600								
FLOODS AND LANDSLIDES			55	500	10	10	40	40				
STORMS			150	1,250	10	15	70	85				
WILDFIRES		-										
TOTAL			300	2,350	20	25	110	125				
HABITAT CHANGE												
BIODIVERSITY	-	-	2,500	20,000					-50,000	-100,000	250	800
DESERTIFICATION	+	-	600	4,500			600	1,500	10,000	20,000		
HEATING AND COOLING			600	10,000					6,250	30,000	3,000	15,000
LABOUR PRODUCTIVITY	+	+	35,000	250,000					39	30		
PERMAFROST												
SEA-LEVEL RISE			2,250	15,000			1	1	1,000	2,000		
WATER	+	-	4,000	30,000					20	35		
TOTAL			44,950	329,500			601	1,501				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES					150	95						
HUNGER					1,000	1,750	2	4				
MALARIA AND VECTOR-BORNE					1	5	0	1				
MENINGITIS					30	45	0	0				
TOTAL					1,181	1,895	3	5				
INDUSTRY STRESS												
AGRICULTURE		-	1,250	7,750								
FISHERIES			100	950								
FORESTRY	+	-	1,000	7,750								
HYDRO ENERGY			-60	-350								
TOURISM												
TRANSPORT	+	+	75	950								
TOTAL			2,365	17,050								
CLIMATE TOTAL			47,615	348,900	1,201	1,920	714	1,632				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS			5	25					40	45		
TOTAL			5	25								
HABITAT CHANGE												
BIODIVERSITY		-	8,000	60,000					850	2,500		
CORROSION		-	15	35								
WATER												
TOTAL			8015	60035								
HEALTH IMPACT												
AIR POLLUTION	-	-			15,000	20,000	200	300				
INDOOR SMOKE					9,500	15,000	500	750				
OCCUPATIONAL HAZARDS					250	350	25	30				
SKIN CANCER					400	950	0	1				
TOTAL					25150	36300	725	1081				
INDUSTRY STRESS												
AGRICULTURE			75	-1,750								
FISHERIES			45	350								
FORESTRY		+	1,500	4,750								
TOTAL			1620	3350								
CARBON TOTAL			9,640	63,410	25,150	36,300	725	1,081				

VULNERABILITY LEVELS:

- Acute+ (Red +)
- Acute- (Red -)
- Severe+ (Orange +)
- Severe- (Orange -)
- High+ (Yellow +)
- High- (Yellow -)
- Moderate (Green)
- Low (Light 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 (km²) (cumulative)	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 (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)	