

COUNTRY PROFILE

UNITED STATES

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

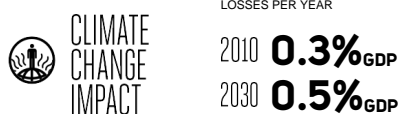
THE MONITOR ASSESSMENT

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: UNITED STATES

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



HUMAN NATIONAL LOSS TOTALS: UNITED STATES

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



FULL COUNTRY ASSESSMENT: UNITED STATES

	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	-	+	500	1,250								
FLOODS AND LANDSLIDES			600	2,250	5	5	15	35				
STORMS			2,500	8,250	1	1	4	6				
WILDFIRES			-5	-15								
TOTAL			3,595	11,735	6	6	19	41				
HABITAT CHANGE												
BIODIVERSITY	-	+	25,000	45,000					-25,000	-50,000	70	200
DESERTIFICATION			200	700			55	150	1,750	3,500		
HEATING AND COOLING			-650	-1,000					-5,750	-5,750	-3,500	-3,500
LABOUR PRODUCTIVITY			15,000	50,000					6	6		
PERMAFROST			650	1,250			90	200				
SEA-LEVEL RISE			4,250	9,000			10	15	10,000	25,000		
WATER			-1,250	-4,000					-1	-1		
TOTAL			43,200	100,950			155	365				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES					-1,500	-3,250						
HUNGER												
MALARIA AND VECTOR-BORNE					1	1	0	1				
MENINGITIS												
TOTAL					-1,499	-3,249	0	1				
INDUSTRY STRESS												
AGRICULTURE			1,000	2,500								
FISHERIES			-300	-1,000								
FORESTRY			-90	-300								
HYDRO ENERGY			-300	-700								
TOURISM			-1,500	-3,250								
TRANSPORT			1,000	5,750								
TOTAL			-190	3,000								
CLIMATE TOTAL			46,605	115,685	-1,493	-3,243	175	407				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS			60	150					1,250	2,250		
OIL SPILLS			3,500	6,250					15,000	15,000		
TOTAL			3560	6400								
HABITAT CHANGE												
BIODIVERSITY			80,000	250,000					250	1,250		
CORROSION			200	200								
WATER			1,500	2,250					30,000	25,000		
TOTAL			81700	252450								
HEALTH IMPACT												
AIR POLLUTION					55,000	75,000	850	1,500				
INDOOR SMOKE					15,000	25,000	200	300				
OCCUPATIONAL HAZARDS					3,250	4,000	300	400				
SKIN CANCER					3,500	8,000	15	40				
TOTAL					76750	112000	1365	2240				
INDUSTRY STRESS												
AGRICULTURE			6,750	8,000								
FISHERIES			250	700								
FORESTRY			10,000	15,000								
TOTAL			17000	23700								
CARBON TOTAL			102,260	282,550	76,750	112,000	1,365	2,240				

VULNERABILITY LEVELS:

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

- BIODIVERSITY: Contraction of biological zones (km²) (cumulative)
- 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)