

COUNTRY PROFILE

EGYPT

CLIMATE: **LOW**

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 - cvm@daraint.org - +34 915310372

ECONOMIC NATIONAL LOSS TOTALS: EGYPT

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

CLIMATE CHANGE IMPACT

LOSSES PER YEAR

2010 **0.5%GDP**

2030 **1.0%GDP**

CARBON INTENSIVENESS IMPACT

LOSSES PER YEAR

2010 **0.2%GDP**

2030 **NIL**

HUMAN NATIONAL LOSS TOTALS: EGYPT

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

CLIMATE + CARBON COMBINED

ADDITIONAL MORTALITY-YEARLY AVERAGE

2010 **25,000**

2030 **30,000**

CLIMATE

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **3,500,000** 2030 **5,550,000**

CARBON

2010 **300,000** 2030 **450,000**

FULL COUNTRY ASSESSMENT: EGYPT

	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	+	-	10	50								
FLOODS AND LANDSLIDES			5	30	5	10	65	80				
STORMS												
WILDFIRES												
TOTAL			15	80	5	10	65	80				
HABITAT CHANGE												
BIODIVERSITY			10	60					-25,000	-50,000	10	30
DESERTIFICATION	-	+	250	1,250			150	400	2,000	4,000		
HEATING AND COOLING			-150	200					-1,250	550	-700	300
LABOUR PRODUCTIVITY			200	1,000					21	14		
PERMAFROST												
SEA-LEVEL RISE			1,500	10,000			2	3	200	450		
WATER			1	15								
TOTAL			1,811	12,525			152	403				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					95	150	0					
HEAT AND COLD ILLNESSES	-	-			450	500						
HUNGER					600	750	0	0				
MALARIA AND VECTOR-BORNE					10	10	4	5				
MENINGITIS					200	300	0	0				
TOTAL					1,355	1,710	5	6				
INDUSTRY STRESS												
AGRICULTURE			-350	-2,750								
FISHERIES			150	2,250								
FORESTRY												
HYDRO ENERGY			-15	-95								
TOURISM	-	-	600	5,000								
TRANSPORT												
TOTAL			385	4,405								
CLIMATE TOTAL			2,211	17,010	1,360	1,720	223	489				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			10	80					35	80		
CORROSION	+	+	15	80								
WATER												
TOTAL			25	160								
HEALTH IMPACT												
AIR POLLUTION	-	+			15,000	20,000	150	300				
INDOOR SMOKE					8,000	8,750	100	100				
OCCUPATIONAL HAZARDS	-	-			150	200	40	55				
SKIN CANCER					45	100	0	0				
TOTAL					23195	29050	290	455				
INDUSTRY STRESS												
AGRICULTURE	+	+	150	-2,250								
FISHERIES			1	5								
FORESTRY												
TOTAL			150.75	-2245								
CARBON TOTAL			175	-2,085	23,195	29,050	290	455				

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

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 (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)