

COUNTRY PROFILE

LEBANON

CLIMATE: **MODERATE**

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

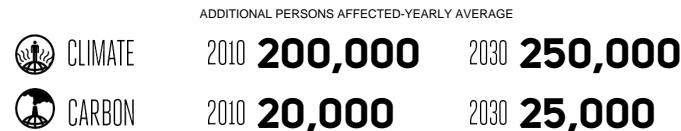
ECONOMIC NATIONAL LOSS TOTALS: LEBANON

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



HUMAN NATIONAL LOSS TOTALS: LEBANON

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



FULL COUNTRY ASSESSMENT: LEBANON

	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	-	+	1	10			2	3				
FLOODS AND LANDSLIDES					1	1						
STORMS			1	5								
WILDFIRES												
TOTAL			2	15	1	1	2	3				
HABITAT CHANGE												
BIODIVERSITY			15	100					-65	-150	20	70
DESERTIFICATION		-	5	50								
HEATING AND COOLING			-10	-15					-85	-30	-65	-20
LABOUR PRODUCTIVITY			25	150					20	13		
PERMAFROST												
SEA-LEVEL RISE			15	95			0	0				
WATER			1	10								
TOTAL			51	390			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					1	0	0	0				
HEAT AND COLD ILLNESSES	-	+			35	40						
HUNGER					5	15	0	0				
MALARIA AND VECTOR-BORNE												
MENINGITIS					5	5	0	0				
TOTAL					46	60	0	0				
INDUSTRY STRESS												
AGRICULTURE	-	+	70	550								
FISHERIES			5	35								
FORESTRY												
HYDRO ENERGY			1	15								
TOURISM												
TRANSPORT												
TOTAL			76	600								
CLIMATE TOTAL			128	1,005	46	60	2	3				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS	-	-	65	250					400	450		
TOTAL			65	250								
HABITAT CHANGE												
BIODIVERSITY			10	70					25	65		
CORROSION	+	+	10	40								
WATER												
TOTAL			20	110								
HEALTH IMPACT												
AIR POLLUTION	+	+			1,250	1,500	15	20				
INDOOR SMOKE					350	350	2	2				
OCCUPATIONAL HAZARDS	-	-			10	15	0	1				
SKIN CANCER	-	+			50	100	0	0				
TOTAL					1660	1965	18	23				
INDUSTRY STRESS												
AGRICULTURE	+	+	10	-40								
FISHERIES												
FORESTRY	+	+	70	350								
TOTAL			80	310								
CARBON TOTAL			165	670	1,660	1,965	18	23				

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 (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)