CLIMATE VULNERABILITY MONITOR







COUNTRY PROFILE







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



LOSSES PER YEAR

2010 **0.2%**_{GDP} 2030 **0.5%**_{GDP}

CARBON INTENSIVENESS IMPACT LOSSES PER YEAR

2010 **0.5%**_{GDP} 2030 **0.5%**_{GDP}



HUMAN NATIONAL LOSS TOTALS: LEBANON

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

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON

COMBINED

2010 **1,500** 2030 **2,000**

CLIMATE

🔊 CARBON

ΔΠΠΙΤΙΠΝΔΙ

IIVIATE

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **200,000**

2030 **250,000**

2010 **20,000** 2030 **25,000**

FULL COUNTRY ASSESSMENT: LEBANON

HEATING AND COOLING			VULNERABILITY LEVEL	ECONOM	IONAL IIC COSTS USD PPP)	ADDIT MORT	IONAL ALITY	ADDITIONAL AFFECTED POPULATION (1000s)		OTHER VALUE 1*		OTHER VALUE 2*		_					
BOOLOGIST CLOSES IND. 1 1 2 3			2010 2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030		T				
FLOODS AND LANDSLIDES 1 1 5 1 2 3		ENVIRONMENTAL DISASTERS	SASTERS							VULNERABILITY LEVELS:									
MILDERES 1			- +	1	10									+ Acute+	+ High-	-			
MILDERES 1						1	1	2	3					Acute-	- High-				
WILLIFINES 1				1	5									Severe+	Mode	rate			
### HABITAT CHANGE BIODIVERSITY 15 100 -65 -150 20 70														_	_				
BIODIVERSITY				2	15	1	1	2	3					Severe-	LUW				
DESERTIFICATION																			
## ATTING AND COOLING										-65	-150	20	70	+ = Upper tier of vulnerability level					
## PROPORTIVITY			-											- = Lower tier of vulnerability level					
PERMAFROST												-65	-20						
### Additional family and the standard of the	CLIMATE (25	150					20	13			A Fovironme	ental disasters				
WATER														~					
TOTAL 51 390 0 0 0 Preduitinipad. Market Hall Infections 1 0 0 0								0	0					· ·					
HEAT AND COLD ILLNESSES								0	0					■ Health impact					
HEAT AND COLD ILLNESSES				51	390			0	0					(Industrius tross					
HEAT AND COLD ILLNESSES						4	^	0						y industry si	(1633				
HUNGER								U						•					
MALARIA AND VECTOR-BORNE MALARIA AND VECTOR-BORNE			- +					0	0					CLIMATE =	Impact/Vulne	ability			
MENINGITIS						5	15	U	U					_		-			
NOTAL						-	-	0	0										
NOUSTRY STRESS AGRICULTURE 1															to Carbon Inter	nsiveness			
AGRICULTURE FISHERIES FORESTRY						40	00	U	U										
FISHERIES FORESTRY FORESTRY TOURISM TANNSPORT TOTAL CHIMATE TOTAL DISANDS OIL SANDS OI				70	550											OTHER			
FORESTRY HYDRO ENERGY TOURISM TRANSPORT TOTAL CLIMATE TOTAL 128 1,005 46 60 2 3 ENVIRONMENTAL DISASTERS OIL SPILLS OIL SPILLS TOTAL BIODIVERSITY DISABOR TOTAL BOOK STORM TOTAL BOOK STORM BIODIVERSITY DISABOR COULING STORM BIODIVERSITY DISABOR COULING STORM BIODIVERSITY DISABOR BI																VALUE 2			
HYDRO ENERGY																Decline in			
TOURISM TRANSPORT TOTAL 76 600 FICATION Additional land degraded km² (Cumulalkve) Total CLIMATE TOTAL 128 1,005 46 60 2 3 FICATION (Cumulalkve) FICATION (1	15									BIODIVERSITY		biological			
TRANSPORT TOTAL																richness			
TOTAL 76 600 FICATION Cognidate (arm) Council (arm) Cognidate (arm) Council (a														DESERTI-					
CLIMATE TOTAL 128 1,005 46 60 2 3				76	600									FICATION	degraded (km²)				
EATING & Change in energy Ch						46	60	2	3										
OIL SANDS OIL SPILLS O																			
## PRODUCTIVITY particularly affected (%) ## PRODUCTIVITY particula															Charact				
## PRODUCTIVITY particularly affected (%) ## I to 70 ## I to 70 ## I to 70 ## I to 40 ## I to				ee.	250					400	450			LABOUR					
HABITAT CHANGE 10 70 25 65 SEA-LEVEL Net Uses of Land (km²) (cumulative) 10 70 25 65 SEA-LEVEL Net Uses of Land (km²) (cumulative) 10 80										400	450				particularly				
BIODIVERSITY				65	250										affected (%)				
CORROSION				10	70					25	ee.			SEA-LEVEL					
WATER TOTAL AIR POLLUTION INDOOR SMOKE OCCUPATIONAL HAZARDS SKIN CANCER TOTAL INDUSTRY STRESS AGRICULTURE FORESTRY AGRICULTURE FORESTRY AGRICULTURE FORESTRY ATRIBUTION 11,250 1,500 15 20 0IL SSIN WATER 1,500 1,500 15 20 0IL SPILLS Gallos oil split (1000s) 100 0 0 0IL SPILLS Gallos oil split (1000s) BIODIVERSITY Decline in biological richness FORESTRY WATER WATER WATER WATER WATER LOSS in water unord 2030 ((m²) 10 0IL SSIN DANDS Tonnes toxic value (1000s) Total 10 10 11 10 10 10 10 10 10 1	CARBON									23	00			RISE					
TOTAL 20 110 HEALTH IMPACT				10	40														
HEALTH IMPACT				20	110									WATER	runoff 2030				
INDOOR SMOKE				20	110										(km³)				
INDOOR SMOKE						1 250	1 500	15	20					OIL CANDO	Tonnes toxic				
OCCUPATIONAL HAZARDS														UIL SAINDS	waste (1000s)				
SKIN CANCER																			
TOTAL 1660 1965 18 23 INDUSTRY STRESS AGRICULTURE			- +											OIL SPILLS					
INDUSTRY STRESS AGRICULTURE															эрік (1000э)				
AGRICULTURE 10 -40														DIODIVEDCITY	Decline in				
FISHERIES			+	10	-40									DIODIVERSITY	biological richn	ess			
FORESTRY + + 70 350 WATER water to treat															Valume of				
			+ +	70	350									WATER water to treat					
				80	310										(millions m³)				
CARBON TOTAL 165 670 1,660 1,965 18 23		CARBON TOTAL				1,660	1,965	18	23										