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



2010 **0.3%**_{GDP} 2030 **0.7%**_{GDB}

CARBON INTENSIVENESS

2010 **0.5%**_{GDP} 2030 **0.8%**_{GDB}

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE



HUMAN NATIONAL LOSS TOTALS: SYRIA

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

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON

2010 5,000 2030 7,000

CLIMATE

🛣 CARBON

2010 150,000

2010 **200,000**

2030 **200,000** 2030 200,000

FULL COUNTRY ASSESSMENT: SYRIA

	,	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												VULNERABIL	VULNERABILITY LEVELS:			
	DROUGHT		1	5									+ Acute+	+ High-	+		
	FLOODS AND LANDSLIDES				1	5	30	45					- Acute-	- High-			
	STORMS												+ Severe+	Mode			
	WILDFIRES												_	_	iote		
	TOTAL		1	5	1	5	30	45					- Severe-	Low			
	HABITAT CHANGE																
(BIODIVERSITY		200	1,500					-1,250	-2,250	40	100	+ = Upper tier of vulnerability level				
	DESERTIFICATION	-	15	95									 = Lower tier of vulnerability level 				
	HEATING AND COOLING		-25	55					-200	100	-100	70					
	LABOUR PRODUCTIVITY		35	200					18	12			Environmental disasters				
	PERMAFROST												•				
	SEA-LEVEL RISE		10	65			0	0		•			Habitat change				
<u>ш</u>	WATER		10	65			0	0		0			Health impact				
록	TOTAL		245	1,980			0	0					ndustry stress				
CLIMATE	HEALTH IMPACT DIARRHEAL INFECTIONS				15	0	0										
	HEAT AND COLD ILLNESSES				10	10	U										
	HUNGER				50	100	0	0					climate = Impact/Vulnerability to Climate Change				
	MALARIA AND VECTOR-BORNE				30	100	U	U					_				
	MENINGITIS				30	50	0	0					CARBON =				
	TOTAL				105	160	0	0						to Carbon Inter	nsiveness		
	INDUSTRY STRESS				100	100	Ū	U									
%	AGRICULTURE		90	700										OTHER VALUE 1	OTHER		
	FISHERIES		5	80											VALUE 2		
														Contraction of biological	Decline in		
	HYDRO ENERGY		20	100									BIODIVERSITY	zones (km²)	biological richness		
	TOURISM													(cumulative)			
	TRANSPORT												DESERTI-	Additional land			
	TOTAL		115	880									FICATION	degraded (km²) (cumulative)			
	CLIMATE TOTAL		361	2,865	106	165	30	45									
													HEATING & COOLING	Change in ener load (GWh)	·9y		
	ENVIRONMENTAL DISASTERS																
	OIL SANDS												LABOUR	Share of workforce			
9	OIL SPILLS		0	•									PRODUCTIVITY particular				
	TOTAL		0	0										affected (%)			
	HABITAT CHANGE BIODIVERSITY		5	50					1	5			SEA-LEVEL	Net loss of			
(CORROSION	- +	1	10						5			RISE	land (km²) (cumulative)			
	WATER		'	10										Loss in water			
_	TOTAL		6	60									WATER	runoff 2030			
CARBON	HEALTH IMPACT		U	00										(km³)			
	AIR POLLUTION				2,750	4,500	40	85					OIL SANDS	Tonnes toxic			
	INDOOR SMOKE				1,750	2.250	75	90					OIL SANDS	waste (1000s)			
	OCCUPATIONAL HAZARDS				40	60	15	20						0.11			
	SKIN CANCER				15	40	0	0					OIL SPILLS	Gallons oil spill (1000s)			
	TOTAL				4555	6850	130	195						.,			
	INDUSTRY STRESS												BIODIVERSITY	Decline in			
Na	AGRICULTURE	+ +	350	2,500									SIGDIVERSITI	biological richn	ess		
%	FISHERIES		1	5										Valume of			
	FORESTRY												WATER water to to (millions r				
1	TOTAL		351	2505										(initions int)			
	CARBON TOTAL		357	2,565	4,555	6,850	130	195									