

COUNTRY PROFILE

SRI LANKA

CLIMATE: **SEVERE** CARBON: **MODERATE**

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: SRI LANKA

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

LOSSES PER YEAR		LOSSES PER YEAR			
CLIMATE CHANGE IMPACT	2010	3.6% GDP	CARBON INTENSIVENESS IMPACT	2010	0.6% GDP
	2030	7.4% GDP		2030	0.7% GDP

HUMAN NATIONAL LOSS TOTALS: SRI LANKA

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

ADDITIONAL MORTALITY-YEARLY AVERAGE		ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE					
CLIMATE + CARBON COMBINED	2010	8,500	CLIMATE	2010	900,000	2030	1,100,000
	2030	9,000		CARBON	2010	500,000	2030

FULL COUNTRY ASSESSMENT: SRI LANKA

	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	+	+	5	25								
FLOODS AND LANDSLIDES	-	+	15	150	5	5	45	40				
STORMS			5	35			2	0				
WILDFIRES												
TOTAL			25	210	5	5	47	40				
HABITAT CHANGE												
BIODIVERSITY			30	250					-1,250	-2,750	150	500
DESERTIFICATION												
HEATING AND COOLING			5	100					150	600	70	300
LABOUR PRODUCTIVITY	-	+	3,000	25,000					33	26		
PERMAFROST												
SEA-LEVEL RISE			150	1,000			0	1	45	75		
WATER			-1	-20								
TOTAL			3,184	26,330			0	1				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES	-	+			90	150						
HUNGER					200	350	0	0				
MALARIA AND VECTOR-BORNE												
MENINGITIS					25	25	0	0				
TOTAL					315	525	0	0				
INDUSTRY STRESS												
AGRICULTURE		-	100	900								
FISHERIES	-	-	150	2,000								
FORESTRY			1	15								
HYDRO ENERGY			-10	-55								
TOURISM		-	200	1,750								
TRANSPORT												
TOTAL			441	4,610								
CLIMATE TOTAL			3,650	31,150	320	530	48	41				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			300	2,250					1,500	4,500		
CORROSION												
WATER												
TOTAL			300	2,250								
HEALTH IMPACT												
AIR POLLUTION	-	+			900	1,750	65	250				
INDOOR SMOKE					7,250	6,500	400	350				
OCCUPATIONAL HAZARDS	-	+			150	250	45	55				
SKIN CANCER					20	45	0	0				
TOTAL					8,320	8,545	510	655				
INDUSTRY STRESS												
AGRICULTURE			-15	-550								
FISHERIES			1	10								
FORESTRY				1								
TOTAL			-14	-539.25								
CARBON TOTAL			286	1,711	8,320	8,545	510	655				

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 (km ²) (cumulative)	Decline in biological richness
DESERTIFICATION	Additional land degraded (km ²) (cumulative)	
HEATING & COOLING	Change in energy load (GWh)	
LABOUR PRODUCTIVITY	Share of workforce particularly affected (%)	
SEA-LEVEL RISE	Net loss of land (km ²) (cumulative)	
WATER	Loss in water runoff 2030 (km ³)	
OIL SANDS	Tonnes toxic waste ('000s)	
OIL SPILLS	Gallons oil spill ('000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m ³)	