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: SAMOA

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

CLIMAIE CHANGE

2010 **5.2%**_{GDP}

2030 **9.9%**cm

CARBON INTENSIVENESS LOSSES PER YEAR

2010 **0.3%**_{GDP} 2030 NIL

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE



HUMAN NATIONAL LOSS TOTALS: SAMOA

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

ΔΠΠΙΤΙΠΝΔΙ

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON

2010 70 2030 70 🙀 CLIMATE

🔊 CARBON

ADDITIONAL

2010 3,000

2010 **15,000**

2030 **15,000**

2030 4,000

FULL COUNTRY ASSESSMENT: SAMOA

TOTAL				VULNERABILITY LEVEL	ECONOM (MILLION	IIONAL IIC COSTS USD PPP)	ADDIT MORT	IONAL ALITY	AFFECTED POPULATION (1000s)		OTHER VALUE 1*		OTHER VALUE 2*		_				
DROUGHT				2010 2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030					
FLOODS AND LANDSLIDES			ENVIRONMENTAL DISASTERS																
WILDFIRES		_													+ Acute+	+ High+			
MILDERIES															- Acute-	- High-			
WILD-FIRES		₩		+		-1		1	0	5					_	_	rato		
### ABBITAT CHANGE BROOMERSITY DESERTIFICATION			WILDFIRES												_		ate		
BIODIVERSITY		1			0	-1	0	1	0	5					- Severe-	Low			
## Comparison																			
## HEATING AND COOLING	IMATE	%	BIODIVERSITY																
LABOUR PRODUCTIVITY			DESERTIFICATION																
PERMINENTIAL 15 150 0 0 0 0 0 0 0 0 0													1	10					
Packer P				- +	20	150					33	23			. Ω Γουίσορου	ahal diaaahasa			
WATER															<u> </u>				
TOTAL				+ -					0	0					(habitat ch	ange			
TOTAL				-											. Health imu	pact			
HEAT AND COLD ILLNESSES					41	315			0	0									
HEAT AND COLD ILLNESSES															M Industry stress				
HUNGER									0										
MALARIA AND VECTOR-BORNE MALARIA AND VECTOR-BORNE 1 0 0															CLIMATE =	mpact/Vulner	ability		
MENINGITIS TOTAL INDUSTRY STRESS AGRICULTURE 1		lacksquare					1									o Climate Cha	nge		
NOTICE								1	0	0					CARBON =	mpact/Vulner	ability		
NOUSTRY STRESS AGRICULTURE 1																to Carbon Intensiveness			
AGRICULTURE FISHERIES FORESTRY HYDRO ENERGY TRANSPORT TOTAL ELIMATE TOTAL BIODVERSITY CORROSION WATER BIODVERSITY CORROSION WATER TOTAL BIODVERSITY CORROSION WATER TOTAL BIODVERSITY BIODVERSITY CORROSION WATER BIODVERSITY CORROSION WA		%					2	3	0	0									
FISHERIES FORESTRY FORESTRY FORESTRY HYDRO ENERGY TOURISM TRANSPORT TOTAL 15 105 CLIMATE TOTAL 56 419 2 2 0 6 ENVIRONMENTAL DISASTERS OIL SANDS OIL SPILLS TOTAL 0 0 0 LABOUR HABITAT CHANGE BIODIVERSITY CORROSION Workforce PRODUCTIVITY FISHERIES FORESTRY Workforce Workforc																OTHER	OTHER		
FORESTRY																VALUE 1	VALUE 2		
HYDRO ENERGY Consistency				+ +	5	40											Doction in		
TOURISM															BIODIVERSITY		biological		
TOTAL																zones (km²) (cumulative)	richness		
TOTAL 15				+ +	5	35													
ENVIRONMENTAL DISASTERS COOLING Control Country Country Corrections Country Country Country Corrections Country Coun					45	105									DESERTI-	degraded (km²)			
ENVIRONMENTAL DISASTERS COOLING Connection energy Cooling							2	2	0	6					TICATION	(cumulative)			
ABOUR SANDS OIL SANDS OIL SPILLS O O O O O O O O O O O O O O O O O			CLIMATE TOTAL		50	413			U	•					HEATING &	Change in energ	au		
ABOUR Share of voltage Sha	CARBON		ENVIRONMENTAL DISASTERS												COOLING	load (GWh)			
PRODUCTIVITY Speticularly SEA_LEVEL Net loss of land (km²)																Share of			
TOTAL																workforce			
HABITAT CHANGE SEA-LEVEL Net loss of land (km²) CORROSION WATER TOTAL O 0 US NED (km²) COCUPATIONAL HAZARDS 1 1 0 0 OCCUPATIONAL HAZARDS 1 1 1 0 OCCUPATIONAL HAZARDS 1 1 1 0 OCCUPATIONAL HAZARDS 1 1 1 OCCUPATIONAL HAZARDS 1 1 1 OCCUPATIONAL HAZARDS 1 1 OCCUPATIONAL HAZARDS					0	0									PRODUCTIVITY				
BIODIVERSITY			HABITAT CHANGE																
CORROSION WATER TOTAL INDUSTRY STRESS AGRICULTURE FISHERIES FIGHERIES FIGHERIES Cumulative) (cumulative)																			
WATER TOTAL			CORROSION												RISE	(cumulative)			
HEALTH IMPACT			WATER																
NDOOR SMOKE			TOTAL		0	0									WATER	runoff 2030			
NDOOR SMOKE		•	HEALTH IMPACT													(KITI")			
NDOOR SMOKE			AIR POLLUTION					1	0	0					OIL SANDS				
OCCUPATIONAL HAZARDS SKIN CANCER TOTAL INDUSTRY STRESS AGRICULTURE -1 -15 FISHERIES FISHERIES WATER WATER WATER Galtons oil Spill (1000s) Gill SPILLS Galtons oil Spill (1000s) Spill (1000s) Gill SPILLS Galtons oil Spill (1000s) Spill (1000s) VILL SPILLS Galtons oil Spill (1000s) VILL S			INDOOR SMOKE	+ -			60	60	3	3						waste (1000s)			
SKIN CANCER TOTAL INDUSTRY STRESS AGRICULTURE FISHERIES FIGHERIES WATER WATER WATER Split (1000s) Split (100s) Split (1000s) Split (1000s) Split (100s) Spli			OCCUPATIONAL HAZARDS	+ +			1	1	0	0						Gallons oil			
INDUSTRY STRESS AGRICULTURE FISHERIES FORESTRY WATER WATER WATER WATER WATER Decline in biological richness Volume of water to real			SKIN CANCER												OIL SPILLS				
AGRICULTURE -1 -15 biological richness FISHERIES VALUE							60.5	61.25	3	3									
AGRICULTURE -1 -15 UNUQUENTED STATES OF THE			INDUSTRY STRESS												BIODIVERSITY				
FORESTRY WATER water to treat		>			-1	-15										piological richne	ess		
		_																	
101AL -0.5 -15		1														(initions int)			
CARBON TOTAL 0 -15 60 61 3 3			CARBON TOTAL		0	-15	60	61	3	3									