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: TANZANIA

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

CLIMATE CHANGE

LOSSES PER YEAR

2010 **2.5%**_{GDP}

2030 **4.8%**_{GDP}

CARBON INTENSIVENESS IMPACT LOSSES PER YEAR

2010 **2.1%**_{GDP} 2030 **1.8%**_{GDP}



HUMAN NATIONAL LOSS TOTALS: TANZANIA

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

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON COMBINED

2010 **30,000**

2030 **30,000**

climate 🔐

CARBON CARBON

ADDITIONAL

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 4,450,000 2030 6,750,000

2010 1,550,000 2030 1,150,000

FULL COUNTRY ASSESSMENT: TANZANIA

						DDITIONAL AFFECTED ORTALITY POPULATION (1000s)			OTHER VALUE 1*		OTHER VALUE 2*							
			2010 2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030	_				
CLIMATE		ENVIRONMENTAL DISASTERS												VULNERABIL	ITY LEVELS:			
	(4)	DROUGHT	+ +	5	15									+ Acute+	+ High-	-		
		FLOODS AND LANDSLIDES		1	10	1	5	20	30					- Acute-	- High-			
		STORMS		15	90									_	_			
		WILDFIRES												+ Severe+	Mode	rate		
		TOTAL		21	115	1	5	20	30					- Severe-	Low			
	1	HABITAT CHANGE												1				
		BIODIVERSITY	+ +	150	850					-10,000	-20,000	50	150	+ = Upper tier	+ = Upper tier of vulnerability level			
	•	DESERTIFICATION						0	0	-1	-5				 = Lower tier of vulnerability level 			
		HEATING AND COOLING		40	350					450	1,250	100	300	2011011101	01 10110100111	gtorot		
		LABOUR PRODUCTIVITY	+ +	650	4,000					63	51			- A -				
		PERMAFROST												Environme	Environmental disasters			
		SEA-LEVEL RISE		200	1,250			1	2	25	70			• Habitat cha	ange			
		WATER		-200	-1,250					-5	-10			Health imp	2001			
		TOTAL		840	5,200			1	1									
		HEALTH IMPACT												ndustry stress				
	•	DIARRHEAL INFECTIONS	- +			1,000	2,000	1										
		HEAT AND COLD ILLNESSES				350	550							CLIMATE =	mnact/Vulne	ahilitu		
		HUNGER	+ -			1,500	2,500	0	1					450 02	o Climate Cha	nae		
		MALARIA AND VECTOR-BORNE	+ +			1,750	1,750	450	450					CARBON =				
		MENINGITIS	+ +			800	1,250	1	2						:o Carbon Inter			
	!	TOTAL				5,400	8,050	453	453					,	.0 C010011111(C1	1314611633		
		INDUSTRY STRESS												1	OTHER	OTHER		
		AGRICULTURE	- +	350	2,500										VALUE 1	VALUE 2		
		FISHERIES	-	20	300											VALUE 2		
	 	FORESTRY	+ +	35	350										Contraction of biological	Decline in		
		HYDRO ENERGY		-1	-15									BIODIVERSITY	zones (km²)	biological richness		
		TOURISM	-	25	200										(cumulative)			
		TRANSPORT												DESERTI-	Additional land			
		TOTAL		429	3,335									FICATION	degraded (km²) (cumulative)			
		CLIMATE TOTAL		1,290	8,650	5,401	8,055	474	485									
CARBON		ENVIRONMENTAL DISASTERS												HEATING & COOLING	Change in ener load (GWh)	9y		
		OIL SANDS												-	Share of			
		OIL SPILLS												LABOUR	workforce			
		TOTAL		0	0									PRODUCTIVITY	particularly affected (%)			
		HABITAT CHANGE												-				
	(BIODIVERSITY	-	500	3,000					200	600			SEA-LEVEL	Net loss of land (km²)			
		CORROSION			-,									RISE	(cumulative)			
		WATER		1	5					350	450				Loss in water			
		TOTAL		501	3005									WATER	runoff 2030			
		HEALTH IMPACT												·	(km³)			
	•	AIR POLLUTION	- +			3,750	6,250	60	150					OIL SANDS	Tonnes toxic			
		INDOOR SMOKE				20,000	20,000	1,500	1,000					OIL SANDS	waste (1000s)			
		OCCUPATIONAL HAZARDS				30	50	6	10						0-11			
		SKIN CANCER				15	40	0	0					OIL SPILLS	Gallons oil spill (1000s)			
		TOTAL				23795	26340	1566	1160						Spilit (1000s)			
		INDUSTRY STRESS												BIODIVERSITY	Decline in			
		AGRICULTURE		-40	-1,250									. DIODIVERSITY	biological richn	ess		
		FISHERIES			,									Volume of				
		FORESTRY	-	10	50									WATER water to treat (millions m³)				
		TOTAL		-30	-1200													
		CARBON TOTAL		471	1,805	23,795	26,340	1,566	1,160					i .				