# **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: HAITI**

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



2010 **3.7%**<sub>GDP</sub> 2030 **7.1%**<sub>GDP</sub>

CARBON INTENSIVENESS

2010 **1.2%**<sub>GDP</sub> 2030 **0.9%**<sub>GDB</sub>



## **HUMAN NATIONAL LOSS TOTALS: HAITI**

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

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON

2010 8,000

2030 9,000

(LIMATE

ΔΠΠΙΤΙΠΝΔΙ

🕽 CARBON

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **700,000** 

2030 **850,000** 

2010 **250,000** 2030 300,000

## **FULL COUNTRY ASSESSMENT: HAITI**

			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		T			
		ENVIRONMENTAL DISASTERS												VULNERABIL				
1	_	DROUGHT	- +	1	1									+ Acute+	+ High-	-		
		FLOODS AND LANDSLIDES	- +	5	35	5	5	30	40					Acute-	- High-			
	₩	STORMS	+ +	25	200	15	20	5	8					Severe+	Mode	rate		
		WILDFIRES												_	_	rate		
CLIMATE	. !	TOTAL		31	236	20	25	35	48					- Severe-	Low			
		HABITAT CHANGE																
		BIODIVERSITY		1	20					-200	-400	150	500	+ = Upper tier	<ul><li>= Upper tier of vulnerability level</li><li>= Lower tier of vulnerability level</li></ul>			
		DESERTIFICATION												<ul><li>- = Lower tier</li></ul>				
		HEATING AND COOLING	- +	35	500					250	950	150	550					
		LABOUR PRODUCTIVITY	+ -	150	1,250					41	32			A Environme	ental disastors			
		PERMAFROST												•				
		SEA-LEVEL RISE	-	100	650			0	0	5	15			🚹 Habitat ch	ange			
		WATER		15	100									Health impact				
		TOTAL		301	2,520			0	0					(V) Industru stress				
		HEALTH IMPACT												y industry stress				
		DIARRHEAL INFECTIONS	+ -			150	100	0										
		HEAT AND COLD ILLNESSES	+ +			200	250							CLIMATE =				
	lacksquare	HUNGER	+ -			600	800	0	1						o Climate Cha	nge		
		MALARIA AND VECTOR-BORNE				35	45	10	20					CARBON =	mpact/Vulner	ability		
		MENINGITIS	+ +			200	300	0	0						to Carbon Intensivenes			
	1	TOTAL				1,185	1,495	11	21									
		INDUSTRY STRESS													OTHER	OTHER		
		AGRICULTURE	+ -	35	300										VALUE 1	VALUE 2		
		FISHERIES		1	15									_	Contraction	Deeline in		
		FORESTRY		1	5									BIODIVERSITY	of biological	Decline in biological		
		HYDRO ENERGY		1	5										zones (km²) (cumulative)	richness		
		TOURISM		1	25									_	Additional land			
		TRANSPORT			0.50									DESERTI- FICATION	degraded (km²)			
	,	TOTAL		39	350	4.005	4 500	47	70					FICATION	(cumulative)			
		CLIMATE TOTAL		369	3,106	1,205	1,520	47	70					HEATING &				
CARBON	_	<b>ENVIRONMENTAL DISASTERS</b>												COOLING	load (GWh)			
		OIL SANDS													Share of			
	<b>₩</b>	OIL SPILLS												LABOUR PRODUCTIVITY	workforce particularly			
	- !	TOTAL		0	0									PRODUCTIVITI	affected (%)			
		HABITAT CHANGE													Net loss of			
		BIODIVERSITY												SEA-LEVEL RISE	land (km²)			
		CORROSION													(cumulative)			
		WATER												WATER	Loss in water runoff 2030			
	- !	TOTAL		0	0									WATER	(km <sup>3</sup> )			
		HEALTH IMPACT																
		AIR POLLUTION	+ +			900	1,250	10	25					OIL SANDS	Tonnes toxic waste (1000s)			
		INDOOR SMOKE				6,000	6,250	250	250						Waste (1000s)			
	$\odot$	OCCUPATIONAL HAZARDS				10	10	4	4					OIL SPILLS	Gallons oil			
		SKIN CANCER				1	1		0					UIL SPILLS	spill (1000s)			
		TOTAL				6910.5	7511	264	279									
		INDUSTRY STRESS												BIODIVERSITY	Decline in biological richn	220		
	(1)	AGRICULTURE		-1	-80													
	(XC)	FISHERIES												Volume of				
		FORESTRY												WATER	water to treat (millions m³)			
		TOTAL		-1	-80	0.010												
		CARBON TOTAL		-1	-80	6,910	7,511	264	279									