# **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: VENEZUELA**

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

CLIMAIE CHANGE

2010 **3.1%**<sub>GDP</sub>

2030 **6.2%**<sub>GDB</sub>

CARBON INTENSIVENESS LOSSES PER YEAR

2010 **1.3%**<sub>GDP</sub> 2030 **2.4%**GDP



## **HUMAN NATIONAL LOSS TOTALS: VENEZUELA**

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

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON

2010 5,000

2030 6,500

🕼 CLIMATE

CARBON

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 1,100,000

2030 1,400,000

2010 75,000

2030 95,000

## **FULL COUNTRY ASSESSMENT: VENEZUELA**

HYDRO ENERGY   -30 -200     -200				VULNERABILITY LEVEL	ECONOM	TIONAL IIC COSTS USD PPP)	ADDITIONAL MORTALITY		ADDITIONAL AFFECTED POPULATION (1000s)		OTHER VALUE 1*		OTHER VALUE 2*		_				
Acute				2010 2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030					
FLOODS AND LANDSLIDES   1   30   300   5   5   15   15			ENVIRONMENTAL DISASTERS												VULNERABIL	.ITY LEVELS:			
SURVINS   TOTAL   40 346 5 5 15 15   15		_	DROUGHT												+ Acute+	+ High-	-		
SURVINS   TOTAL   40 346 5 5 15 15   15			FLOODS AND LANDSLIDES	- +	30	300	5	5	15	15					- Acute-	- High-			
WILD-FIRES   15   15   15   15		₩	STORMS			1									_		rato		
### ABITAT CHANGE BIODIVERSITY DESERTIFICATION LARING COOLING LABOUR PRODUCTIVITY DESERTIFICATION LABOUR PRODUCTIVITY DESTRUCTION LABOUR PRODUCTION LABOUR PRODUCTION LABOUR PRODUCTIVITY DESTRUCTION															_	_	rate		
BIODIVERSITY   1 5 50 4,000   -25,000 -55,000   150   500   + - Upper lier of vulnerability level   Lower lier of vulnerability level   Lower lier of vulnerability level   Lower lier of vulnerability level		•			40	346	5	5	15	15					- Severe-	Low			
DESERTIFICATION			HABITAT CHANGE																
HEATING AND COOLING					550	4,000					-25,000	-55,000	150	500	+ = Upper tier	of vulnerabilit	y level		
LABOUR PRODUCTIVITY															<ul> <li>= Lower tier of vulnerability level</li> </ul>				
PERNAFROST   SEA-LEVEL RISE													400	1,500					
FERMARUS    850   5,000   1   1   200   400				+ +	8,000	60,000					41	32			A Fourcemental disasters				
WATER															•				
TOTAL  HEALTH IMPACT  DIARRHEAL INFECTIONS  HEAT AND COLD ILLNESSES  MALARIA AND VECTOR-BORNE  MALARIA									1	1									
IDIAL	ш			- +							1	5			■ Health impact				
HEAT AND COLD ILLNESSES  HUNGER  MALARIA AND VECTOR-BORNE  MENINGITIS  TOTAL  INDUSTRY STRESS  AGRICULTURE  FORESTRY  TOURISM  TRANSPORT  TOTAL  TOTAL  10,775  82,946  285  375  21  31  ENVIRONMENTAL DISASTERS  OIL SANDS  OIL SAND	∀	- 1			9,950	74,750			1	1					-				
HEAT AND COLD ILLNESSES  HUNGER  MALARIA AND VECTOR-BORNE  MENINGITIS  TOTAL  INDUSTRY STRESS  AGRICULTURE  FORESTRY  TOURISM  TRANSPORT  TOTAL  TOTAL  10,775  82,946  285  375  21  31  ENVIRONMENTAL DISASTERS  OIL SANDS  OIL SAND	$\geq$														moustry stress				
HUNGER   90   150   0   0     to Climate Change     to Climate Change   to Cl	ات								0										
MALARIA AND VECTOR-BORNE																			
MENINGITIS   25 40 0 0 0   Carbon Intersiveness   15		lacksquare														to Climate Cha	nge		
TOTAL																			
NOUSTRY STRESS   AGRICULTURE   350 2,750   Sea-Level   Solution   Starter   Street   Starter																to Carbon Inter	nsiveness		
AGRICULTURE   350 2,750   Uller   VALUE   VALU		i					280	370	5	15									
FISHERIES 65 800  FORESTRY + 4 400 4,500  HYDRO ENERGY TOURISM TRANSPORT TOTAL 785 7,850  CLIMATE TOTAL 10,775 82,946 285 375 21 31  ENVIRONMENTAL DISASTERS OIL SANDS OIL SPILLS OIL SPILLS TOTAL 0 0 0  HABITAT CHANGE BIODIVERSITY - 4 4,000 30,000  TOTAL 1 10  WATER 5 35 400 550  WESCHILL  BIODIVERSITY - 6 10 10 10 10 10 10 10 10 10 10 10 10 10		<b>%</b>			250	2.750													
FORESTRY																VALUE 1	VALUE 2		
HYDRO ENERGY -30 -200  TOURISM TRANSPORT TOTAL 785 7,850 CLIMATE TOTAL 10,775 82,946 285 375 21 31  ENVIRONMENTAL DISASTERS OIL SPILLS TOTAL 0 0 0 HASINAT CHANGE BIODIVERSITY 1 + 4,000 30,000 1,250 3,750 CORROSION 1 1 10 WATER 5 35 400 550  WATER (Cumulative) Cicumulative) (cumulative) (cum																	Decline in		
TOURISM TRANSPORT TOTAL TOTAL LIMATE TOTAL 10,775 82,946 285 375 21 31  ENVIRONMENTAL DISASTERS OIL SANDS OIL SPILLS TOTAL 0 0 0 HABITAT CHANGE BIODIVERSITY 1 1 10 WATER 5 35 4 400 550  DESERTI- Cumulative) TOTAL CLIMATE TOTAL 10,775 82,946 285 375 21 31  ENVIRONMENTAL DISASTERS COLLING CLIMATE TOTAL 10,775 82,946 285 375 21 31  HEATING & Change in energy colling				T T											BIODIVERSITY		biological		
TRANSPORT TOTAL  785 7,850  CLIMATE TOTAL  10,775 82,946 285 375 21 31  ENVIRONMENTAL DISASTERS  OIL SANDS OIL SPILLS TOTAL  4ABITAT CHANGE  BIODIVERSITY  CORROSION  1 1 10  WATER  5 35  400 550  DESERTI- FICATION Additional land degreed (mr) degreeded (mr) fication and degreed (mr) fication and degree (mr)					00	200											richness		
TOTAL 785 7,850   FICATION (cgm/deft/m²) (cg															DECEDIL				
CLIMATE TOTAL   10,775   82,946   285   375   21   31					785	7 850										degraded (km²)			
ENVIRONMENTAL DISASTERS   Change in energy   Learning   Collins   Change in energy   Learning   Collins   Change in energy   Learning   Learn							285	375	21	31						(cumulative)			
Correction   Cor						,,,,,,									HEATING &	Change in ener	gy		
TOTAL   0 0 0   PRODUCTIVITY   particularly   offected (%)		_													COULING	(GVVII)			
TOTAL   0 0 0   PRODUCTIVITY   particularly   offected (%)																			
HABITAT CHANGE   HABI															PRODUCTIVITY particularly				
BIODIVERSITY					0	0													
CORROSION 1 1 10 RISE (cumulative) Countilative															CEALEVEL	Net loss of			
WATER 5 35 400 550 Loss in water				- +							1,250	3,750							
											400				_				
101AL											400	550			WATER	Loss in water			
	8	•			4006	30045									***************************************	(km³)			
HEALTH IMPACT  AIR POLLUTION  + + 3,250 4,500 35 55  OIL SANDS Tonnes toxic	墨						2.250	4.500	25	FF						Tonnes tovic			
	Z			+ +											OIL SANDS				
NODOUR SINUSE   1,300 1,300 35 35   Calcard	- 1																		
SKIN CANCER															OIL SPILLS				
TOTAL 4905 6325 75 97																spill (IUUUS)			
NIDUCTON CTDECO							4900	0323	75	91						Decline in			
biological richness					-10	-600									BIODIVERSITY		ess		
(%)	- 1														Volume of				
FORESTRY 200 1000 WATER water to treat				- +											WATER water to treat				
TOTAL 215 600 (millions m²)																(millions m³)			
CARBON TOTAL 4,221 30,645 4,905 6,325 75 97							4,905	6,32 <u>5</u>	75	97									