CLIMATE VULNERABILITY MONITOR

DARA

Climate Vulnerable Forum

COUNTRY PROFILE

PERU

CLIMATE: HIGH CARBON: SEVERE

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: PERU

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

CLIMATE CHANGE IMPACT — LOSSES PER YEAR

2010 **1.3%GDP**
2030 **3.0%GDP**

CARBON INTENSIVENESS IMPACT — LOSSES PER YEAR

2010 **2.8%GDP**
2030 **5.4%GDP**

HUMAN NATIONAL LOSS TOTALS: PERU

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

CLIMATE +CARBON COMBINED — ADDITIONAL MORTALITY-YEARLY AVERAGE

2010 **7,000**
2030 **9,000**

CLIMATE — ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **850,000** 2030 **1,050,000**

CARBON — ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **150,000** 2030 **200,000**

FULL COUNTRY ASSESSMENT: PERU

		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
CLIMATE	**ENVIRONMENTAL DISASTERS**												
	DROUGHT	-	-	25	150								
	FLOODS AND LANDSLIDES		-	15	150	5	5	15	20				
	STORMS			1	10								
	WILDFIRES												
	TOTAL			41	310	5	5	15	20				
	HABITAT CHANGE												
	BIODIVERSITY	-	+	800	6,250					-4,000	-8,250	150	500
	DESERTIFICATION	-	+	55	400			25	65	1,250	2,250		
	HEATING AND COOLING			5	450					35	900	10	200
	LABOUR PRODUCTIVITY		-	1,250	9,500					48	37		
	PERMAFROST												
	SEA-LEVEL RISE			150	1,000			0	0	60	80		
	WATER			-200	-1,500					-1	-1		
	TOTAL			2,060	16,100			25	65				
	HEALTH IMPACT												
	DIARRHEAL INFECTIONS					45	35	0					
	HEAT AND COLD ILLNESSES	-	-			100	150						
	HUNGER	-	+			650	1,250	0	1				
	MALARIA AND VECTOR-BORNE		-			100	200	60	100				
	MENINGITIS					55	75	0	0				
	TOTAL					950	1,710	61	101				
	INDUSTRY STRESS												
	AGRICULTURE		-	250	2,000								
	FISHERIES	-	+	1,250	15,000								
	FORESTRY			-70	-800								
	HYDRO ENERGY			-10	-75								
	TOURISM												
	TRANSPORT												
	TOTAL			1,420	16,125								
	CLIMATE TOTAL			**3,521**	**32,535**	**955**	**1,715**	**101**	**187**				
CARBON	**ENVIRONMENTAL DISASTERS**												
	OIL SANDS												
	OIL SPILLS												
	TOTAL			0	0								
	HABITAT CHANGE												
	BIODIVERSITY	-	+	7,250	55,000					1,500	4,500		
	CORROSION												
	WATER			1	10					80	100		
	TOTAL			7251	55010								
	HEALTH IMPACT												
	AIR POLLUTION	+	-			3,750	5,000	40	70				
	INDOOR SMOKE					2,000	2,000	100	100				
	OCCUPATIONAL HAZARDS					35	40	10	10				
	SKIN CANCER	-	+			75	200	0	0				
	TOTAL					5860	7240	150	180				
	INDUSTRY STRESS												
	AGRICULTURE				-500								
	FISHERIES	-	-	20	150								
	FORESTRY	+	+	250	1,250								
	TOTAL			270	900								
	CARBON TOTAL			**7,521**	**55,910**	**5,860**	**7,240**	**150**	**180**				

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
DESERTI-FICATION	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 (1000s)	
OIL SPILLS	Gallons oil spill (1000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m^3)	