

## COUNTRY PROFILE

### PARAGUAY

CLIMATE: **HIGH** CARBON: **HIGH**

#### 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](http://www.daraint.org/cvm2) - [cvm@daraint.org](mailto:cvm@daraint.org) - +34 915310372

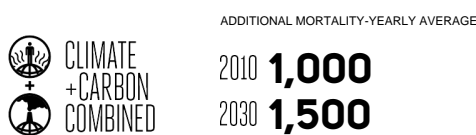
#### ECONOMIC NATIONAL LOSS TOTALS: PARAGUAY

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



#### HUMAN NATIONAL LOSS TOTALS: PARAGUAY

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



#### FULL COUNTRY ASSESSMENT: PARAGUAY

	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
<b>ENVIRONMENTAL DISASTERS</b>												
DROUGHT	-	+	1	5								
FLOODS AND LANDSLIDES				1	1	1	10	20				
STORMS												
WILDFIRES	-	-										
<b>TOTAL</b>			1	6	1	1	10	20				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	100	900					-10,000	-25,000	200	550
DESERTIFICATION												
HEATING AND COOLING			5	150					90	500		
LABOUR PRODUCTIVITY			90	700					46	36		
PERMAFROST												
SEA-LEVEL RISE												
WATER			-25	-200					-0	-1		
<b>TOTAL</b>			170	1,550			0	0				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES					-5	-25						
HUNGER					40	90	0	0				
MALARIA AND VECTOR-BORNE							0	0				
MENINGITIS					15	25	0	0				
<b>TOTAL</b>					50	90	0	0				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	+	+	150	1,250								
FISHERIES				5								
FORESTRY	+	+	100	1,250								
HYDRO ENERGY			-40	-250								
TOURISM												
TRANSPORT												
<b>TOTAL</b>			210	2,255								
<b>CLIMATE TOTAL</b>			381	3,811	51	91	10	20				
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	1,500	10,000					2,250	5,000		
CORROSION												
WATER	-	-	5	30					500	700		
<b>TOTAL</b>			1505	10030								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	-	-			300	500	4	9				
INDOOR SMOKE					600	700	30	35				
OCCUPATIONAL HAZARDS					5	5	0	0				
SKIN CANCER	-	+			15	45	0	0				
<b>TOTAL</b>					920	1250	35	45				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	+	+	5	-200								
FISHERIES												
FORESTRY			5	25								
<b>TOTAL</b>			10	-175								
<b>CARBON TOTAL</b>			1,515	9,855	920	1,250	35	45				

**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 (km²) (cumulative)	Decline in biological richness
DESERTIFICATION	Additional land degraded (km²) (cumulative)	
HEATING & COOLING	Change in energy load (GWh)	
LABOUR PRODUCTIVITY	Share of workforce particularly affected (%)	
SEA-LEVEL RISE	Net loss of land (km²) (cumulative)	
WATER	Loss in water runoff 2030 (km³)	
OIL SANDS	Tonnes toxic waste ('000s)	
OIL SPILLS	Gallons oil spill ('000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m³)	