

## COUNTRY PROFILE

### BRAZIL

CLIMATE: **MODERATE** 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: BRAZIL

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



### HUMAN NATIONAL LOSS TOTALS: BRAZIL

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



### FULL COUNTRY ASSESSMENT: BRAZIL

	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	-	+	95	550								
FLOODS AND LANDSLIDES			20	200	5	10	30	30				
STORMS												
WILDFIRES												
<b>TOTAL</b>			115	750	5	10	30	30				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	-	3,500	30,000					-200,000	-450,000	150	500
DESERTIFICATION			70	550			50	100	2,250	4,500		
HEATING AND COOLING			250	5,000					1,500	7,500	70	400
LABOUR PRODUCTIVITY			6,000	45,000					43	34		
PERMAFROST												
SEA-LEVEL RISE			3,250	20,000			6	8	850	2,500		
WATER			-1,250	-10,000					-5	-10		
<b>TOTAL</b>			11,820	90,550			56	108				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES					1,750	2,000						
HUNGER					1,250	2,500	3	5				
MALARIA AND VECTOR-BORNE					100	250	55	100				
MENINGITIS					200	300	0	0				
<b>TOTAL</b>					3,300	5,050	58	106				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			900	6,750								
FISHERIES			55	500								
FORESTRY			2,500	20,000								
HYDRO ENERGY			-150	-750								
TOURISM												
TRANSPORT												
<b>TOTAL</b>			3,305	26,500								
<b>CLIMATE TOTAL</b>			15,240	117,800	3,305	5,060	145	244				
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS			5	20					50	55		
<b>TOTAL</b>			5	20								
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	-	35,000	300,000					1,750	5,000		
CORROSION			5	15								
WATER			90	400					6,750	7,750		
<b>TOTAL</b>			35095	300415								
<b>HEALTH IMPACT</b>												
AIR POLLUTION					25,000	30,000	300	450				
INDOOR SMOKE					25,000	30,000	1,000	1,500				
OCCUPATIONAL HAZARDS					500	600	55	65				
SKIN CANCER					600	1,500	1	2				
<b>TOTAL</b>					51100	62100	1356	2017				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			250	-3,000								
FISHERIES			5	30								
FORESTRY			650	3,250								
<b>TOTAL</b>			905	280								
<b>CARBON TOTAL</b>			36,005	300,715	51,100	62,100	1,356	2,017				

**VULNERABILITY LEVELS:**

- Acute+ (Red +)
- Acute- (Red -)
- Severe+ (Orange +)
- Severe- (Orange -)
- High+ (Yellow +)
- High- (Yellow -)
- Moderate (Green)
- Low (Dark Green)

+ = 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

BIODIVERSITY	OTHER VALUE 1	OTHER VALUE 2
DESERTIFICATION	Contraction of biological zones (km²) (cumulative)	Decline in biological richness
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)	