

COUNTRY PROFILE

PAPUA NEW GUINEA

CLIMATE: **ACUTE** 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 - cvm@daraint.org - +34 915310372

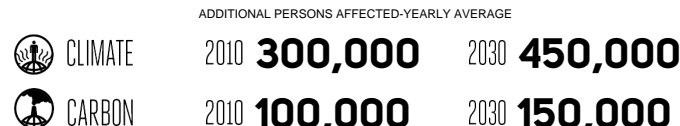
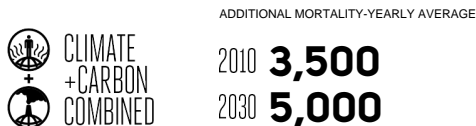
ECONOMIC NATIONAL LOSS TOTALS: PAPUA NEW GUINEA

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



HUMAN NATIONAL LOSS TOTALS: PAPUA NEW GUINEA

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



FULL COUNTRY ASSESSMENT: PAPUA NEW GUINEA

	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
ENVIRONMENTAL DISASTERS												
DROUGHT	-	+	1	1								
FLOODS AND LANDSLIDES	-	+	1	5	1	5	30	40				
STORMS												
WILDFIRES												
TOTAL			1	6	1	5	30	40				
HABITAT CHANGE												
BIODIVERSITY	+	+	65	500					-1,250	-2,500	50	150
DESERTIFICATION												
HEATING AND COOLING	+	+	20	350					200	900	85	350
LABOUR PRODUCTIVITY	-	+	300	2,250					33	23		
PERMAFROST												
SEA-LEVEL RISE	-	-	550	3,250			0	0	550	1,500		
WATER	-	-	-100	-850					-5	-5		
TOTAL			835	5,500			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					30	0	0					
HEAT AND COLD ILLNESSES	-	+	60	80								
HUNGER	-	+	95	200	0	0						
MALARIA AND VECTOR-BORNE	+	+	400	850	100	250						
MENINGITIS												
TOTAL					585	1,130	100	250				
INDUSTRY STRESS												
AGRICULTURE	+	-	45	350								
FISHERIES	+	+	95	1,250								
FORESTRY												
HYDRO ENERGY												
TOURISM			1	25								
TRANSPORT												
TOTAL			141	1,625								
CLIMATE TOTAL			977	7,131	586	1,135	130	291				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	+	+	1,500	15,000					1,250	3,500		
CORROSION												
WATER												
TOTAL			1500	15000								
HEALTH IMPACT												
AIR POLLUTION					150	250	7	20				
INDOOR SMOKE	+	+	2,750	3,250	100	150						
OCCUPATIONAL HAZARDS			5	5	0	1						
SKIN CANCER	-	+	75	200	0	0						
TOTAL			2980	3705	107	171						
INDUSTRY STRESS												
AGRICULTURE			-5	-200								
FISHERIES												
FORESTRY												
TOTAL			-5	-200								
CARBON TOTAL			1,495	14,800	2,980	3,705	107	171				

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
DESERTIFICATION	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 ('000s)	
OIL SPILLS	Gallons oil spill ('000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m ³)	