

## COUNTRY PROFILE

### PHILIPPINES

CLIMATE: **SEVERE**

CARBON: **MODERATE**

### 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: PHILIPPINES

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



### HUMAN NATIONAL LOSS TOTALS: PHILIPPINES

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



### FULL COUNTRY ASSESSMENT: PHILIPPINES

	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	+	+	20	85								
FLOODS AND LANDSLIDES	-	+	30	300	25	25	200	250				
STORMS			15	100	45	60	200	250				
WILDFIRES												
<b>TOTAL</b>			65	485	70	85	400	500				
<b>HABITAT CHANGE</b>												
BIODIVERSITY			95	750					-350	-650	150	500
DESERTIFICATION												
HEATING AND COOLING		-	200	3,000					1,500	6,500	800	3,250
LABOUR PRODUCTIVITY	-	+	10,000	85,000					38	29		
PERMAFROST												
SEA-LEVEL RISE			850	4,750			3	4	350	850		
WATER			-45	-350					-1	-1		
<b>TOTAL</b>			11,100	93,150			3	4	-1	-1		
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS					200	0	1					
HEAT AND COLD ILLNESSES	+	+			700	800						
HUNGER					550	700	2	3				
MALARIA AND VECTOR-BORNE	-	-			450	900	250	500				
MENINGITIS					200	250	0	0				
<b>TOTAL</b>					2,100	2,650	254	503				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	-	+	550	4,500								
FISHERIES		+	450	5,000								
FORESTRY			1	30								
HYDRO ENERGY			-10	-75								
TOURISM												
TRANSPORT												
<b>TOTAL</b>			991	9,455								
<b>CLIMATE TOTAL</b>			12,156	103,090	2,170	2,735	657	1,007				
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS			1	5					20	20		
<b>TOTAL</b>			1	5								
<b>HABITAT CHANGE</b>												
BIODIVERSITY		-	1,750	15,000					3,000	5,000		
CORROSION			1	5								
WATER												
<b>TOTAL</b>			1751	15005								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	+	+			10,000	25,000	350	1,500				
INDOOR SMOKE	-	-			20,000	20,000	700	750				
OCCUPATIONAL HAZARDS	-	-			450	650	250	300				
SKIN CANCER		-			200	450	0	0				
<b>TOTAL</b>					30650	46100	1300	2550				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			-30	-2,000								
FISHERIES	+	+	40	150								
FORESTRY		-	65	350								
<b>TOTAL</b>			75	-1500								
<b>CARBON TOTAL</b>			1,827	13,510	30,650	46,100	1,300	2,550				

**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<sup>2</sup>) (cumulative) Decline in biological richness

DESERTIFICATION Additional land degraded (km<sup>2</sup>) (cumulative)

HEATING & COOLING Change in energy load (GWh)

LABOUR PRODUCTIVITY Share of workforce particularly affected (%)

SEA-LEVEL RISE Net loss of land (km<sup>2</sup>) (cumulative)

WATER Loss in water runoff 2030 (km<sup>3</sup>)

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<sup>3</sup>)