

COUNTRY PROFILE

PAKISTAN

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: PAKISTAN

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



HUMAN NATIONAL LOSS TOTALS: PAKISTAN

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



FULL COUNTRY ASSESSMENT: PAKISTAN

	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												
	-	+	35	200								
	+	+	350	3,250	30	45	300	450				
	+	-	250	2,250	5	5	4	8				
	+	+										
TOTAL			635	5,700	35	50	304	458				
HABITAT CHANGE												
	+	-	300	2,250					-2,000	-4,000	350	1,000
	-	-	70	400					1,500	3,250		
	+	-	-65	-75					-1,500	-400	-700	-200
	+	-	6,500	50,000					33	25		
	+	+	400	2,000			350	750				
	+	+	500	2,750			1	1	100	250		
	+	+	-10	-60						-0		
TOTAL			7,695	57,265			701	1,751				
HEALTH IMPACT												
	+	-			3,250	9,250	4					
	+	+			1,250	1,750						
	+	+			10,000	25,000	9	20				
	+	+			100	400	40	100				
	+	+			700	1,000	1	1				
TOTAL					15,300	37,400	55	121				
INDUSTRY STRESS												
	-	+	1,500	15,000								
	+	+	100	1,250								
	+	+	1	15								
	+	+	-55	-350								
	+	+										
	+	+										
TOTAL			1,546	15,915								
CLIMATE TOTAL			9,876	78,880	15,335	37,450	1,060	2,331				
ENVIRONMENTAL DISASTERS												
	+	+										
	+	+	25	100					450	500		
TOTAL			25	100								
HABITAT CHANGE												
	+	+	100	800					150	350		
	-	+	10	40								
	+	+	1	15					350	500		
TOTAL			111	855								
HEALTH IMPACT												
	-	+			45,000	100,000	400	1,000				
	-	+			100,000	150,000	4,000	5,000				
	-	+			900	1,250	75	100				
	+	+	90	250	0	0	0	0				
TOTAL			145,990	251,500	4,475	6,100						
INDUSTRY STRESS												
	-	+	250	700								
	+	+	1	1								
	+	+	10	65								
TOTAL			260.5	766								
CARBON TOTAL			396	1,721	145,990	251,500	4,475	6,100				

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

BIODIVERSITY	OTHER VALUE 1	OTHER VALUE 2
DESERTIFICATION	Contraction of biological zones (km ²) (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 (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)	