

COUNTRY PROFILE

BANGLADESH

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

ECONOMIC NATIONAL LOSS TOTALS: BANGLADESH

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



HUMAN NATIONAL LOSS TOTALS: BANGLADESH

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



FULL COUNTRY ASSESSMENT: BANGLADESH

	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	+	-	15	75								
FLOODS AND LANDSLIDES	+	+	300	2,750	75	100	600	900				
STORMS	+	+	150	1,250	1,750	2,500	400	600				
WILDFIRES												
TOTAL			465	4,075	1,825	2,600	1,000	1,500				
HABITAT CHANGE												
BIODIVERSITY			20	150					-100	-250	150	500
DESERTIFICATION			5	20			150	400	150	300		
HEATING AND COOLING			45	650					950	3,500	550	2,000
LABOUR PRODUCTIVITY			3,500	30,000					44	34		
PERMAFROST												
SEA-LEVEL RISE			1,250	20,000			40	45	200	450		
WATER			-25	-200					-1	-1		
TOTAL			4,795	50,620			190	445				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					1,250	2,250	1					
HEAT AND COLD ILLNESSES					1,750	2,000						
HUNGER					9,750	15,000	10	15				
MALARIA AND VECTOR-BORNE						45		15				
MENINGITIS					600	800	0	1				
TOTAL					13,350	20,095	12	31				
INDUSTRY STRESS												
AGRICULTURE			650	5,500								
FISHERIES			500	7,750								
FORESTRY				-1								
HYDRO ENERGY			-1	-20								
TOURISM												
TRANSPORT												
TOTAL			1,149	13,230								
CLIMATE TOTAL			6,409	67,924	15,175	22,695	1,202	1,976				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY			55	400					550	1,500		
CORROSION			5	25								
WATER			1	10					400	550		
TOTAL			61	435								
HEALTH IMPACT												
AIR POLLUTION					9,500	20,000	200	700				
INDOOR SMOKE					90,000	95,000	3,000	3,500				
OCCUPATIONAL HAZARDS					1,000	2,000	150	200				
SKIN CANCER					85	200	0	0				
TOTAL					100,585	117,200	3,350	4,400				
INDUSTRY STRESS												
AGRICULTURE			-85	-3,500								
FISHERIES			65	300								
FORESTRY			10	55								
TOTAL			-10	-3145								
CARBON TOTAL			51	-2,710	100,585	117,200	3,350	4,400				

VULNERABILITY LEVELS:

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

OTHER VALUE 1: BIODIVERSITY (Contraction of biological zones (km²) (cumulative))
OTHER VALUE 2: BIODIVERSITY (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)