

## COUNTRY PROFILE

### MALAYSIA

CLIMATE: **HIGH** CARBON: **SEVERE**

### 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: MALAYSIA

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



### HUMAN NATIONAL LOSS TOTALS: MALAYSIA

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



### FULL COUNTRY ASSESSMENT: MALAYSIA

	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	80								
FLOODS AND LANDSLIDES	-	-	20	200	5	5	15	15				
STORMS	-	-	-1	-10								
WILDFIRES	-	-	-0	-1								
<b>TOTAL</b>			39	269	5	5	15	15				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	350	2,750					-7,000	-15,000	150	500
DESERTIFICATION	-	-										
HEATING AND COOLING	-	+	65	1,000					550	2,250	350	1,500
LABOUR PRODUCTIVITY	-	+	10,000	95,000					37	29		
PERMAFROST	-	-										
SEA-LEVEL RISE	-	-	900	5,750			2	2	250	450		
WATER	-	-	-800	-6,000					-1	-5		
<b>TOTAL</b>			10,515	98,500			2	2	-1	-5		
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS	-	-			5	0	0					
HEAT AND COLD ILLNESSES	-	-			1	65						
HUNGER	-	-			75	100	0	0				
MALARIA AND VECTOR-BORNE	-	-			30	50	10	20				
MENINGITIS	-	-			10	15	0	0				
<b>TOTAL</b>					121	230	10	20				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	-	+	500	4,000								
FISHERIES	-	+	500	5,750								
FORESTRY	-	-										
HYDRO ENERGY	-	-	-10	-65								
TOURISM	-	+	1,250	10,000								
TRANSPORT	-	-										
<b>TOTAL</b>			2,240	19,685								
<b>CLIMATE TOTAL</b>			12,793	118,454	126	235	27	37				
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS	-	-										
OIL SPILLS	-	-										
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY	+	+	7,750	60,000					3,500	5,000		
CORROSION	-	-	1	5								
WATER	-	-	1	15					95	150		
<b>TOTAL</b>			7751.75	60020								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	-	+			2,000	4,250	35	100				
INDOOR SMOKE	-	-			3,250	3,500	20	20				
OCCUPATIONAL HAZARDS	-	-			50	75	15	15				
SKIN CANCER	-	-			40	95	0	0				
<b>TOTAL</b>					5340	7920	70	135				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	-	-	-35	-2,250								
FISHERIES	+	+	80	500								
FORESTRY	+	+	900	5,000								
<b>TOTAL</b>			945	3250								
<b>CARBON TOTAL</b>			8,696	63,270	5,340	7,920	70	135				

**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
	Contraction of biological zones (km²) (cumulative)	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)	