CLIMATE VULNERABILITY MONITOR

DARA

Climate Vulnerable Forum

COUNTRY PROFILE

UNITED KINGDOM

CLIMATE: LOW 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: UNITED KINGDOM

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

CLIMATE CHANGE IMPACT — LOSSES PER YEAR: 2010 **NIL**, 2030 **NIL**

CARBON INTENSIVENESS IMPACT — LOSSES PER YEAR: 2010 **NIL**, 2030 **NIL**

HUMAN NATIONAL LOSS TOTALS: UNITED KINGDOM

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

CLIMATE +CARBON COMBINED — ADDITIONAL MORTALITY-YEARLY AVERAGE: 2010 **15,000**, 2030 **20,000**

CLIMATE — ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE: 2010 **5,000,000**, 2030 **5,250,000**

CARBON — ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE: 2010 **300,000**, 2030 **500,000**

FULL COUNTRY ASSESSMENT: UNITED KINGDOM

		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
CLIMATE	**ENVIRONMENTAL DISASTERS**												
	DROUGHT	-	-	55	90								
	FLOODS AND LANDSLIDES			100	350	1	1	3	5				
	STORMS			20	60			0	0				
	WILDFIRES												
	TOTAL			175	500	1	1	3	5				
	HABITAT CHANGE												
	BIODIVERSITY			1,000	3,000					-1,500	-3,000	90	300
	DESERTIFICATION												
	HEATING AND COOLING			-4,250	-10,000					-20,000	-35,000	-9,000	-15,000
	LABOUR PRODUCTIVITY									6	6		
	PERMAFROST												
	SEA-LEVEL RISE			1,500	2,750			5	5	100	300		
	WATER			-1,250	-4,000					-1	-1		
	TOTAL			-3,000	-8,250			5	5				
	HEALTH IMPACT												
	DIARRHEAL INFECTIONS					0	0	0					
	HEAT AND COLD ILLNESSES					-55	-200						
	HUNGER												
	MALARIA AND VECTOR-BORNE												
	MENINGITIS												
	TOTAL					-55	-200	0	0				
	INDUSTRY STRESS												
	AGRICULTURE			60	150								
	FISHERIES			1	1								
	FORESTRY			5	10								
	HYDRO ENERGY			-5	-5								
	TOURISM			-5	-15								
	TRANSPORT												
	TOTAL			56	141								
	CLIMATE TOTAL			**-2,770**	**-7,609**	**-55**	**-199**	**8**	**11**				
CARBON	**ENVIRONMENTAL DISASTERS**												
	OIL SANDS												
	OIL SPILLS			650	1,000					2,500	2,750		
	TOTAL			650	1000								
	HABITAT CHANGE												
	BIODIVERSITY			350	1,000					45	100		
	CORROSION	+	+	40	45								
	WATER			95	100					2,500	2,000		
	TOTAL			485	1145								
	HEALTH IMPACT												
	AIR POLLUTION	+	-			15,000	15,000	200	350				
	INDOOR SMOKE					2,000	2,750	20	30				
	OCCUPATIONAL HAZARDS	+	+			850	900	100	100				
	SKIN CANCER	+	+			800	1,750	3	8				
	TOTAL					18650	20400	323	488				
	INDUSTRY STRESS												
	AGRICULTURE	+	+	450	850								
	FISHERIES			25	75								
	FORESTRY			1	5								
	TOTAL			476	930								
	CARBON TOTAL			**1,611**	**3,075**	**18,650**	**20,400**	**323**	**488**				

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 (1000s)	
OIL SPILLS	Gallons oil spill (1000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m^3)	