

**Flooding**

*This document acts as a reference list for all of the flood-related and heat-related maps in the Climate Just map portal (2017).*

*It first lists all the maps related to flooding followed by maps related to heat.*

*The final section lists administrative layers.*



Neighbourhood Flood Vulnerability	Neighbourhood Flood Vulnerability Index			
	Susceptibility	Susceptibility characteristic (Index)	Vulnerability due to age Indicator (Index)	Older people (% people over 75 years)
				Young children (% people under 5 years)
		Vulnerability due to health Indicator (Index)	Disability / People in ill-health (% people whose day-to-day activities are limited)	
			Households containing at least one person in ill-health (%)	
		Inability to Prepare	Inability to Prepare Characteristic (Index)	
			Vulnerability due to income Indicator (Index)	Unemployment (% working population unemployed)
	Long-term unemployed (% who are LTU or who have never worked)			
	Low income occupations (% in routine or semi-routine occupations)			
	Households with dependent children and no adults in employment (%)			
	Income deprivation			
	Vulnerability due to issues of information use Indicator (Index)		Recent arrivals to UK (% people with <1 yr residency coming from outside UK)	
		Level of proficiency in English		
	Vulnerability due to lack of local knowledge Indicator (Index)	New migrants from outside the local area		
	Vulnerability due to property tenure Indicator (Index)	Private renters (% Households)		
		Social renters (% Households renting from social or Council landlords)		
	Inability to Respond	Ability to Respond Characteristic (Index)		
		Vulnerability due to income Indicator (Index)	Unemployment (% working population unemployed)	
	Long-term unemployed (% who are LTU or who have never worked)			

				Low income occupations (% in routine or semi-routine occupations)
				Households with dependent children and no adults in employment (%)
				Income deprivation
			Vulnerability due to issues of information use Indicator (Index)	Recent arrivals to UK (% people with <1 yr residency coming from outside UK)
				Level of proficiency in English
			Vulnerability due to lack of local knowledge Indicator (Index)	New migrants from outside the local area
			Vulnerability due to lack of physical mobility Indicator (Index)	High levels of disability (% of population who are disabled)
				% people living in medical and care establishments
				Lack of private transport (% households with no car or van)
			Vulnerability due to crime Indicator (Index)	High levels of crime
		Inability to Recover	Ability to Recover Characteristic (Index)	
			Vulnerability due to income Indicator (Index)	Unemployment (% working population unemployed)
				Long-term unemployed (% who are LTU or who have never worked)
				Low income occupations (% in routine or semi-routine occupations)
				Households with dependent children & no adults in employment (%)
				Income deprivation
			Vulnerability due to issues of information use Indicator (Index)	Recent arrivals to UK (% people with <1 yr residency coming from outside UK)
				Level of proficiency in English
			Vulnerability due to lack of physical mobility Indicator (Index)	High levels of disability (% of population who are disabled)
				People living in medical and care establishments (%)
			Lack of private transport (% households with no car or van)	
		Community Support	Community support Characteristic (Index)	
			Vulnerability due to Housing characteristics Indicator (Index)	Caravan or other mobile or temporary structures in all households (%)
			Vulnerability due to lack of direct flood experience Indicator (Index)	Number of properties within the historical flood zone
			Vulnerability due to exposure of services to flooding Indicator (Index)	Emergency services exposed to flooding (%)
				Care homes exposed to flooding (%)
				GP surgeries exposed to flooding (%)
	Schools exposed to flooding (%)			
Vulnerability due to lack of social networks Indicator (Index)	Single pensioner households (%)			
	Lone-parent households with dependent children (%)			
	Children of primary school age (4-11) in the population (%)			

	Social Flood Risk Index (SFRI)	River and Coastal	Group	Present Day
				Future 2050s 2 degrees scenario
				Future 2050s 4 degrees scenario
		Individual	Present Day	
			Future 2050s 2 degrees scenario	
			Future 2050s 4 degrees scenario	
	Surface Water	Group	Present Day	
			Future 2050s 2 degrees scenario	
			Future 2050s 4 degrees scenario	
		Individual	Present Day	
			Future 2050s 2 degrees scenario	
			Future 2050s 4 degrees scenario	

Environment Agency Flood Maps (current)	Flood Alert Areas
	Areas Benefiting from Flood Defences
	Flood Storage Areas
	Flood Zone 2
	Flood Zone 3
	Spatial Flood Defences
	Flood Risk Areas
	Flood Warning Areas
	Historic Flood Map
	Risk of Flooding from Rivers and Sea
Saltmarsh Extents	
Natural Resources Wales Flood Maps (current)	Flood Alert Areas
	Areas Benefiting from Flood Defences
	Flood Storage Areas
	Flood Zone 2
	Flood Zone 3
	Spatial Flood Defences
	Flood Risk Areas
	Flood Warning Areas
	Historic Flood Map
	Risk of Flooding from Rivers and Sea
	Saltmarsh Extents

Heat	Heat disadvantage (2011)	Population weighted vulnerability	Population weighted vulnerability and mean summer maximum temperature 2050s	
			Medium emissions scenario	Low estimate (10th percentile) Central estimate (50th percentile) RECOMMENDED High estimate (90th percentile)
			Low emissions scenario	Low estimate (10th percentile) Central estimate (50th percentile) High estimate (90th percentile)
			High emissions scenario	Low estimate (10th percentile) Central estimate (50th percentile) High estimate (90th percentile)
			Population weighted vulnerability and change in mean summer maximum temperature baseline to 2050s	
			Medium emissions scenario	Low estimate (10th percentile) Central estimate (50th percentile) RECOMMENDED High estimate (90th percentile)
			Low emissions scenario	Low estimate (10th percentile) Central estimate (50th percentile) High estimate (90th percentile)
			High emissions scenario	Low estimate (10th percentile) Central estimate (50th percentile) High estimate (90th percentile)
			Population weighted vulnerability and change in the temperature of the warmest day baseline to 2050s	
			Medium emissions scenario	Low estimate (10th percentile) Central estimate (50th percentile) RECOMMENDED High estimate (90th percentile)
			Low emissions scenario	Low estimate (10th percentile) Central estimate (50th percentile) High estimate (90th percentile)

			High emissions scenario	Low estimate (10th percentile)	
				Central estimate (50th percentile)	
				High estimate (90th percentile)	
			Population weighted vulnerability and change in the temperature of the warmest night baseline to 2050s		
			Medium emissions scenario	Low estimate (10th percentile)	
				Central estimate (50th percentile) RECOMMENDED	
				High estimate (90th percentile)	
			Low emissions scenario	Low estimate (10th percentile)	
				Central estimate (50th percentile)	
				High estimate (90th percentile)	
			High emissions scenario	Low estimate (10th percentile)	
				Central estimate (50th percentile)	
		High estimate (90th percentile)			
		Average vulnerability	Average vulnerability and mean summer maximum temperature 2050s		
				Medium emissions scenario	Low estimate (10th percentile)
					Central estimate (50th percentile) RECOMMENDED
			High estimate (90th percentile)		
			Low emissions scenario	Low estimate (10th percentile)	
				Central estimate (50th percentile)	
				High estimate (90th percentile)	
			High emissions scenario	Low estimate (10th percentile)	
Central estimate (50th percentile)					
High estimate (90th percentile)					
Average vulnerability and change in mean summer maximum temperature baseline to 2050s					
	Medium emissions scenario		Low estimate (10th percentile)		
		Central estimate (50th percentile) RECOMMENDED			
High estimate (90th percentile)					
Low emissions scenario	Low estimate (10th percentile)				
	Central estimate (50th percentile)				
	High estimate (90th percentile)				
High emissions scenario	Low estimate (10th percentile)				
	Central estimate (50th percentile)				
	High estimate (90th percentile)				

			Average vulnerability and change in the temperature of the warmest day baseline to 2050s					
			Medium emissions scenario	Low estimate (10th percentile)				
				Central estimate (50th percentile) <b>RECOMMENDED</b>				
				High estimate (90th percentile)				
			Low emissions scenario	Low estimate (10th percentile)				
				Central estimate (50th percentile)				
				High estimate (90th percentile)				
			High emissions scenario	Low estimate (10th percentile)				
				Central estimate (50th percentile)				
				High estimate (90th percentile)				
						Average vulnerability and change in the temperature of the warmest night baseline to 2050s		
						Medium emissions scenario	Low estimate (10th percentile)	
	Central estimate (50th percentile) <b>RECOMMENDED</b>							
	High estimate (90th percentile)							
	Low emissions scenario	Low estimate (10th percentile)						
		Central estimate (50th percentile)						
		High estimate (90th percentile)						
	High emissions scenario	Low estimate (10th percentile)						
		Central estimate (50th percentile)						
		High estimate (90th percentile)						
	Heat exposure (2011)	Heat exposure index						
							Mean summer maximum temperature 2050s	Medium emissions scenario
		Central estimate (50th percentile)						
		High estimate (90th percentile)						
Low emissions scenario		Low estimate (10th percentile)						
		Central estimate (50th percentile)						
		High estimate (90th percentile)						
High emissions scenario		Low estimate (10th percentile)						
		Central estimate (50th percentile)						
		High estimate (90th percentile)						
Change in mean summer maximum temperature baseline to 2050s		Medium emissions scenario	Low estimate (10th percentile)					
			Central estimate (50th percentile)					
	High estimate (90th percentile)							
	Low emissions scenario	Low estimate (10th percentile)						
		High estimate (90th percentile)						

		Change in the temperature of the warmest day baseline to 2050s	High emissions scenario	Low estimate (10th percentile)
				Central estimate (50th percentile)
				High estimate (90th percentile)
			Medium emissions scenario	Low estimate (10th percentile)
				Central estimate (50th percentile)
				High estimate (90th percentile)
		Low emissions scenario	Low estimate (10th percentile)	
			Central estimate (50th percentile)	
			High estimate (90th percentile)	
		High emissions scenario	Low estimate (10th percentile)	
			Central estimate (50th percentile)	
			High estimate (90th percentile)	
	Change in temperature of the warmest night baseline to 2050s	Medium emissions scenario	Low estimate (10th percentile)	
			Central estimate (50th percentile)	
			High estimate (90th percentile)	
		Low emissions scenario	Low estimate (10th percentile)	
			Central estimate (50th percentile)	
			High estimate (90th percentile)	
	High emissions scenario	Low estimate (10th percentile)		
		Central estimate (50th percentile)		
		High estimate (90th percentile)		
		Medium emissions scenario	Low estimate (10th percentile)	
			Central estimate (50th percentile)	
			High estimate (90th percentile)	
Heat socio-spatial vulnerability (2011)	Heat vulnerability index			
	Sensitivity	Sensitivity index		
		Age	Older people (% people over 75 years)	
			Young children (% people under 5 years)	
		Health	People in ill-health (% people whose day-to-day activities are limited)	
			Households containing at least one person in ill-health (%)	
		Enhanced Exposure	Physical Environment	Built up area (% not greenspace)
			Lack of domestic gardens (area of building/domestic gardens)	
	Physical Geography		Built up area (% area not blue space)	
			Distance to coast	
	Housing Characteristics		Elevation	
			High rise homes (% households with lowest floor 5th floor or above)	
	Ability to Prepare	Income	Unemployment (% working population unemployed)	
			Low income occupations (% in routine or semi-routine occupations)	
			Long-term unemployed (% who are LTU or who have never worked)	
			Households with dependent children and no adults in employment (%)	
			Weekly household income estimate (Pounds)	
			All pensioner households (%)	
Tenure	Social renters (% Households renting from social or Council landlords)			

			Ability to Respond		Private renters (% Households)
				Information Use (Language)	Born outside UK/Ireland (%)
					Recent arrivals to UK (% arrived in UK less than a year ago)
				Income	Unemployment (% working population unemployed)
					Low income occupations (% in routine or semi-routine occupations)
					Long-term unemployed (% who are LTU or who have never worked)
					Households with dependent children and no adults in employment (%)
					Weekly household income estimate (Pounds)
					All pensioner households (%)
					Information Use (Language)
				Recent arrivals to UK (% arrived in UK less than a year ago)	
				Social Networks	Single pensioner households (%)
			Lone parents with dependent children (% households)		
			Lack of carers (% people not providing unpaid care)		
			Mobility	Disability (% people whose day-to-day activities are limited a lot)	
				Lack of private transport (% households with no car or van)	
			Crime	Index of Multiple Deprivation crime score	
			General Accessibility	Low road density (% area not road)	
			General infrastructure	Density of retail units	
				% change in the number of enterprises	
			Ability to Recover	Information Use (Language)	Born outside UK/Ireland (%)
					Recent arrivals to UK (% arrived in UK less than a year ago)
				Social Networks	Single pensioner households (%)
					Lone parents with dependent children (% households)
					Lack of carers (% people not providing unpaid care)
				Mobility	Disability (% people whose day-to-day activities are limited a lot)
					Lack of private transport (% households with no car or van)
					Working away from home (% not working at home)
				Service Areas	Travel time to nearest GP by walk/public transport
					% of at risk population (no car) outside of 15 minutes by walk/public transport to nearest GP
Number of GPs within 15 minutes by walk/public transport					
Number of GPs within 15 minutes by car					
Travel time to nearest hospital by walk/public transport					
Travel time to nearest hospital by car					
% of at risk population outside of 30 minutes by walk/PT to nearest hospital					
Number of hospitals within 30 minutes by walk/public transport					
Number of hospitals within 30 minutes by car					

Administrative boundaries	English Regions	Scottish Regions
	Eng. Constituencies	Wales Constituencies
	Districts and Unitaries	
	Built-up Areas (England and Wales)	
	Middle Super Output Areas (England & Wales)	
	Data Zones (Scotland)	