### Preliminary assessment report spreadsheet: instructions

### Introduction:

This spreadsheet contains 3 sheets, for reporting details of a preliminary assessment report.

The sheets are labelled Annex 1, 2 and 3 and should remain so.

This Environment Agency's PFRA Guidance should be referred to when completing the Annexes.

Reporting information on past floods (Annex 1) is described in section 3.4 of the PFRA Guidance.

Reporting information on future floods (Annex 2) is described in section 3.5 of the PFRA Guidance.

Note that information might not be available for many of the optional fields in Annexes 1 and 2.

Reporting information on Flood Risk Areas (Annex 3) is described in section 4.4 of the PFRA Guidance.

If a PFRA does not identify a Flood Risk Area, Annex 3 does not have to completed.

#### Please select a Lead Local Flood Authority from the following list:

Note that only one LLFA name can be selected. Where several LLFAs are working together, select one of the LLFAs, and then list the others below. If a particular LLFA is leading the exercise then it should be identified in the box in row 15. If there is no particular lead then it does not matter which one is selected; for example you might enter the LLFA that comes first among the group alphabetically.

### Select here: Cambridgeshire

Working with: (only complete this box where several LLFAs are working together to produce a PFRA)

### For Annexes 1, 2 and 3:

Mandatory content to meet European Commission reporting requirements is shown in red.

If an optional field is not applicable, record "Not applicable" or "NA".

If an optional field is not known, record "Unknown".

### For Annex 1 in particular:

Note that only past floods with significant consequences need to be reported in Annex 1.

Each past flood record must have significant consequences for at least one type of consequence (human health, economic, environment, or cultural).

Some information on past floods is optional, but only for this first PFRA cycle. In future cycles, the European Commission will require more information to be reported for floods that occur after 22 Dec 2011. This is shown by the fields labelled "Optional for first cycle".

LLFAs should record the following information from 22 Dec 2011: Start date, Days duration, Probability, Main source, Main mechanism,

Main characteristics, and Significant consequences of flooding.

Appx 3 ANNEX 1:	Records of past floor	ds and their significant consequences (preliminary assessment report spreadsheet)  Summary description	Name of Location	National Grid	Location Description	Start data	Dave duration	Probability	Main source of flooding	Additional acuracia	Confidence in main	Main mechanism of	Main characteristic of
Field:	FIOOD ID	Summary description	Name of Location	Reference	Location Description	Start date	Days duration	Probability	Main source of flooding	of flooding	source of flooding	flooding	flooding
Mandatory / optional:	Mandatory	Mandatory	Mandatory	Mandatory	Optional	Optional for first cycle	Optional for first cycle				Optional		Optional for first cycle
	Unique number between 1-9999	Max 5,000 characters	Max 250 characters	12 characters: 2 letters, 10 numbers	Max 250 characters	'yyyy' or 'yyyy-mm' or 'yyyy-mm-dd'	Number with two decimal places	Max 25 characters	·	same source terms	·	•	Pick from drop-down
	A sequential number starting at 1 and	Description of the flood and its adverse or potentially adverse consequences. Where available, information from other fields (Start date, Days duration, Probability, Main source,	Name of the locality associated with the	National Grid Reference of the	A description of the general location that	The date when the flood commenced -	The number of days (duration) of the flood -			If flooding occurred from, or interacted	Pick a broad level of confidence in the Main		Pick a characteristic from: 'Flash flood'
	incrementing by 1 for	Main mechanism, Main characteristics, Significant consequences) should be repeated here.		d centroid (centre point,	J		v that land not normally			with, any other source		exceedance' (of	(rises and falls quite
	each record.		postal address names	falls within polygon) of		covered by water	covered by water was	from "a 1 in X chance	Refer to the PFRA	(other than the Main	from; 'High' (compelling	, , ,,,	rapidly with little or no
				the flood extent, or of		became covered by	covered by water.	of occurring in any	guidance for definitions		evidence of source -	exceedance'	advance warning), 'Natural flood' (due to
			counties. If the flood affected the whole	there is no extent		water.	Values should be within the range 0.01 -	given year". Where this difficult to estimate,	s of sources.	report the source(s) here, using the same	about 80% confident that source is correct),	(floodwater overtopping defences)	
			LLFA, then record the					a range can be		source terms.	'Medium' (some	'Failure' (of natural or	
			name of the LLFA.				records to the nearest	recorded.				artificial defences or	slower rate than a
							quarter of an hour, where appropriate).				not compelling - about 50% confident that	pumping), 'Blockage o	flash flood), 'Snow melt
							тиого арргориало).						
											(source assumed -	artificial blockage or	flow' (conveying a high
											about 20% confident	restriction of a conveyance channel of	degree of debris), or
											or 'Unknown'.	system), or 'No data'.	
													floods'.
Example:		1 On the 14 April 1998 an intense storm system produced surface water flooding across	Essex	SX1234512345	Several towns and	1998-04-15	0.25	5 20-50	Surface runoff		High	Natural exceedance	Natural flood
		Essex, concentrated in the west of the county. The flooding lasted about 6 hours, and 23 residential properties were recorded as suffering internal flooding, in Epping and North			villages across west Essex								
		Weald. The surface runoff exceeded the drainage capacity in several places, and so			2000								
		probably had a 1 in 30 to 1 in 50 chance of occuring in any given year.											
Records begin here:		In March 1947, fluvial flooding from main rivers and ordinary watercourse caused largescale	Cambridgeshire	TL3703577090	Many towns and	1947-03			Main rivers	Ordinary Watercourse	s Medium	Natural exceedance	Snow melt flood
		flooding. Watercourses were overwhelmed following excessively fast snowmelt.			villages in the West of the County.								
		2 In September 1968 there was extensive river flooding in the south of the County.	Cambridgeshire	TL3703577090	South Cambridgeshire				Main rivers	Ordinary Watercourse		Natural exceedance	Natural Flood
		3 In May 1978 there was flooding in approximately 6 locations in the south of the county.	Cambridgeshire	TL3703577090	Many villages on ordinary watercourses.				Main rivers	Ordinary Watercourse		Natural exceedance	Natural Flood
	·	4 At the start of Easter 1998 (9-10 April) a stationary band of heavy rain affected the Midlands. This resulted in floods in which five people died and thousands had to be	Cambridgeshire	TL3703577090	Several towns and villages across	1998-04			Main rivers	Ordinary Watercourse	s Medium	Natural exceedance	Natural flood
		evacuated from their homes. The wettest area, with over 75 mm, stretched from			Cambridgeshire								
		Worcestershire towards The Wash and the flooded towns included Evesham, Learnington			-								
		Spa, Stratford-on-Avon, Bedford, Northampton and Huntingdon. The Gt Ouse reached it's highest level since 1947.											
	;	5 In October 2001 very heavy rainfall resulted in widespread flooding across the county.	Cambridgeshire	TL3703577090	Several towns and	2001-10			Main rivers	Surface Runoff	Medium	Natural exceedance	Natural flood
					villages across Cambridgeshire								
		6 In July 2012 flooding occured in several locations in the south of the county.	Cambridgeshire	TL3703577090	South Cambridgeshire	2012-07			Main rivers	Ordinary Watercourse	s Medium	Natural exceedance	Natural flood
	;	7 In August 2014 flooding occured in several locations across the county.	Cambridgeshire	TL3703577090	Many villages on ordinary watercourses.	2014-08			Ordinary watercourses	Surface Runoff	Medium	Natural exceedance	Natural flood
		B In July 2015 flooding occured in several locations in Cambridge City and the south of the county.	Cambridgeshire	TL4613058678	Cambridge City	2015-07			Surface runoff		Medium	Natural exceedance	Natural flood
		county.											

### Annex 1 Past floods

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Significant consequences to	Human health consequences -	Property count method	Other human health consequences	Significant economic consequences	residential properties	Property count method	Other economic consequences	Significant consequences to the	Environment consequences	Significant consequences to	Cultural heritage consequences
human health Mandatory	residential properties Optional	Optional	Optional	Mandatory	flooded Optional	Optional	Optional	environment Mandatory	Optional	cultural heritage Mandatory	Optional
Pick from drop-down	Number between 1- 10,000,000	Pick from drop-down	Max 250 characters	Pick from drop-down	Number between 1- 10,000,000	Pick from drop-down	Max 250 characters	Pick from drop-down	Max 250 characters	Pick from drop-down	Max 250 characters
Were there any	Record the number of		If there were other	Were there any		Where residential or	If there were other	Were there any	If there were	Were there any	If there were
significant consequences to	residential properties where the building	non-residential properties have been	Significant consequences to	significant economic consequences when	non-residential properties where the	non-residential properties have been	Significant economic consequences,	significant consequences to the	Significant consequences to the	significant consequences to	Significant consequences to
human health when	structure was affected			the flood occurred, or	building structure was	counted, it is important		environment when the	environment, describe	cultural heritage when	cultural heritage,
the flood occurred, or	either internally or	to record the method	describe them	would there be if it	affected either	to record the method	including information	flood occurred, or	them including	the flood occurred, or	describe them
would there be if it were to re-occur?	externally by the flood, or that would be so	comparisons between	including information such as the number of	were to re-occur?	internally or externally by the flood, or that	of counting, to aid comparisons between	such as the area of agricultural land	would there be if it were to re-occur?	information such as national and	would there be if it were to re-occur?	including information such as the number
	affected if the flood	counts. Choose from;	critical services		would be so affected if	counts. Choose from;	flooded, length of		international		and type of heritage
	were to re-occur.	'Detailed GIS' (using property outlines, as	flooded.		the flood were to re- occur.	'Detailed GIS' (using property outlines, as	roads and rail flooded.		designated sites flooded, and pollution		assets flooded.
		per Environment			occur.	per Environment			sources flooded.		
		Agency guidance), 'Simple GIS' (using				Agency guidance), 'Simple GIS' (using					
		property points),				property points),					
		'Estimate from map', or 'Observed number'.	r			'Estimate from map', or 'Observed number'.					
		Observed number.				Observed number .					
Yes	23	Observed number		No				No		No	
Yes				Yes				No		No	
100				100				140		110	
Yes				Yes				No		No	
Yes				Yes				No		No	
Yes				Yes				No		No	
Yes				Yes				No		No	
Yes				Yes				No		No	
Yes				Yes				No		No	
Yes				Yes				No		Yes	A museum and
											scientific research building was
											significantly affected by
											this event.

### Annex 1 Past floods

Comments	Data owner	Area flooded	Flood event outline confidence	Flood event outline source	Survey date	Photo ID	Lineage	Sensitive data	Protective marking descriptor	European Flood Event Code
Optional Max 1,000 characters  Any additional comments about the past flood record.	Optional Max 250 characters	Optional Number with two decimal places The total area of the land flooded, in km <sup>2</sup>	Optional Pick from drop-down Choose from; 'High' (data includes one of: Aerial video, Aerial photos, Professional survey, Flood level information, EA flood data recording staff notes), 'Medium' (data includes one of: EA/LA ground video, EA/LA ground photos, EA/LA flood event outline map, LA/professional partner officer site records, Public ground video), 'Low' (not confident) or	A	Optional 'yyyy' or 'yyyy-mm' or 'yyyy-mm-dd'	Optional Max 50 characters  Provide references to relevant specific photographs, or to a set of relevant photographs. It may not be practical to reference all relevant photographs for each flood event.	Optional Max 250 characters Lineage is how and what the data is made from. Has this data been created by using data owned or derived from data owned by 3rd party (external) organisations? If yes please give details.	the Government's Protective Marking Scheme? Include protective marking time limit where known.	Optional Max 50 characters For use where organisations apply the Government's Protective Marking Scheme.	Auto-populated Max 42 characters  This field will autopopulate using the LLFA name provided on the "instructions" tab, and the Flood ID. It is an EU-wide unique identifier and will be used to report the flood information.  Format: UK <ons code=""><p f="" or=""><llfa flood="" id="">. "ONS Code" is a unique reference for each LLFA. "P or F" indicates if the event is past or future. "LLFA Flood ID" is a sequential number beginning with 0001.</llfa></p></ons>
	Epping Forest District Council		'Unknown'. Medium	Site survey	1998-04-20		Ordnance Survey AddressPoint; CEH 1:50k River Centreline; NextMap DTM.	Unmarked	Private	UKE10000012P0001
	Environment Agency									UKE10000003P0001
	Environment Agency									UKE 10000003F 0001
										UKE10000003P0002
										UKE10000003P0003
	Environment Agency									UKE1000003P0004
	Environment Agency									UKE10000003P0005
	Cambridgeshire									UKE10000003P0006
	County Council Cambridgeshire									UKE10000003P0007
	County Council Cambridgeshire County Council									UKE10000003P0008

ANNEX 2: Field:	Records of future floo Flood ID	ods and their consequences (preliminary assessment report spreadsheet)  Description of assessment method	Name of Location	National Grid Reference	Location Description	Name	Flood modelled	Probability	Main source of flooding	Additional source(s) of flooding	Confidence in main source of flooding	Main mechanism of flooding	Main characteristic of flooding
Mandatory / optional: Format: Notes:	Unique number between 1-9999 A sequential number starting at 1 and	Mandatory Max 1,000 characters  Description of the future flood information and how it has been produced. Cover Regulation 12(6) requirements of (a) topography, (b) the location of watercourses, (c) the		letters, 10 numbers National Grid Reference of the	A description of the general location that	Name of the model or map product or project	Max 250 characters  Background, or additional information on the probability of the flood modelled - such as whether	flood occuring in any	Mandatory Pick from drop-down Pick the source which generates the majority	same source terms If the flood is generated by, or	Optional Pick from drop-down Pick a broad level of confidence in the Main		Mandatory Pick from drop-down Pick a characteristic from, 'Flash flood'
Example:	each record.		recognised postal address names such as streets, towns, counties. If the flood affects the whole LLFA, then record the	the area affected if		future flood information		given year - record X from "a 1 in X chance of occurring in any given year".	the PFRA guidance	other sources (other than the <u>Main source</u> <u>of flooding</u> ), report the source(s) here, using	from; 'High' (compelling evidence of source - about 80% confident that source is correct), 'Medium' (some evidence of source but not compelling - about 50% confident that source is correct) 'Low' (source assumed - about 20% constant)	(floodwater overtopping defences), 'Failure' (of natural or artificial defences or infrastructure, or of pumping), 'Blockage or restriction' (natural or artificial blockage or restriction of a conveyance channel or system), or 'No data'.	slower rate than a flash flood), 'Snow melt flood' (due to rapid snow melt), 'Debris flow' r (conveying a high degree of debris), or 'No data'. Most UK floods are 'Natural floods'.
Example.	·	des records below for examples of description of assessment friends.	LSSEX	UN 12545 12545			event, in this case producing flooding of greater than 0.3m depth.	200	Surface fullori		Tilgii	Natural exceedance	Natural flood
Records begin here:		Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation, then degraded to a composite 5m DTM. Manual edits applied where flow paths clearly omitted e.g. below bridges.  Flow routes dictated by topography; no allowance made for manmade drainage. The DTM may miss flow paths below bridges.  Areas that may flood are defined by dynamically routing a 6.5 hour duration storm with 1 in 200 chance of occurring in any year, over the DTM using JBA's JFLOW—GPU model.  Manning's n of 0.1 is used throughout, to allow broad scale effects of buildings and other obstructions to be approximated.  No allowance made for drainage, pumping or other works constructed for the purpose of flood risk management.  The 'less susceptible' layer shows where modelled flooding is 0.1-0.3m deep; you must not interpret this as depth of flooding, rather as indicative of susceptibility to flooding because of modelling uncertainties.		TL3703577090		Surface Water Flooding (AStSWF) - Less	Probability refers to the probability of the rainfall event. This identifies areas which are 'less susceptible' to surface water flooding. For more information refer to "What are Areas Susceptible to Surface Water Flooding" Environment Agency December 2010.		Surface runoff		High	Natural exceedance	
	2	Propography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation, then degraded to a composite 5m DTM. Manual edits applied where flow paths clearly omitted e.g. below bridges. Flow routes dictated by topography; no allowance made for manmade drainage. The DTM may miss flow paths below bridges. Areas that may flood are defined by dynamically routing a 6.5 hour duration storm with 1 in 200 chance of occurring in any year, over the DTM using JBA's JFLOW-GPU model. Manning's no f0.1 is used throughout, to allow broad scale effects of buildings and other obstructions to be approximated. No allowance made for drainage, pumping or other works constructed for the purpose of flood risk management. The 'intermediate susceptibility' layer shows where modelled flooding is 0.3-1.0m deep; you must not interpret this as depth of flooding, rather as indicative of susceptibility to flooding because of modelling uncertainties.		TL3703577090		Surface Water	Probability refers to the probability of the rainfall event. This identifies areas with 'intermediate susceptibility' to surface water flooding.	200	Surface runoff		High	Natural exceedance	Natural flood
	3	Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation, then degraded to a composite 5m DTM. Manual edits applied where flow paths clearly omitted e.g. below bridges.  Flow routes dictated by topography; no allowance made for manmade drainage. The DTM may miss flow paths below bridges.  Areas that may flood are defined by dynamically routing a 6.5 hour duration storm with 1 in 200 chance of occurring in any year, over the DTM using JBA's JFLOW-GPU model.  Manning's n of 0.1 is used throughout, to allow broad scale effects of buildings and other obstructions to be approximated.  No allowance made for drainage, pumping or other works constructed for the purpose of flood risk management.  The 'more susceptible' layer shows where modelled flooding is >1.0m deep; you must not interpret this as depth of flooding, rather as indicative of susceptibility to flooding because of modelling uncertainties.		TL3703577090		Surface Water	Probability refers to the probability of the rainfall event. This identifies areas which are 'more susceptible' to surface water flooding.	200	Surface runoff		High	Natural exceedance	Natural flood
		Topography is derived from 64.5% LIDAR (on 0.25m-2m grids; original accuracy ± 0.15m) and 35.5% NEXTMap SAR (on 5m grid; original accuracy ± 1.0m), processed to remove buildings & vegetation, then combined on a 2m grid; buildings added with an arbitrary height of 5m based on OS MasterMap 2009 building footprints, then resampled to a 5m grid DTM. Manual edits applied where flow paths clearly omitted e.g. below bridges.  Flow routes dictated by topography; a uniform allowance of 12mm/hr has been made for manmade drainage in urban areas. Infiltration allowance reduces runoff to 39% in rural areas and 70% in urban areas.  Areas that may flood are defined by dynamically routing a 1.1 hour duration storm with 1 in 30 chance of occurring in any year over the DTM using JBA's JFLOW-GPU model.  Manning's n of 0.1 in rural areas; 0.03 in urban areas, to reflect explicit modelling of buildings in urban areas.  No allowance made for local variations in drainage, pumping or other works constructed for the purpose of flood risk management.  The '>0.1m' layer shows where modelled flooding is greater than 0.1m deep.		TL3703577090			Probability refers to the probability of the rainfall event, in this case producing flooding of greater than 0.1m depth.	30	Surface runoff		High	Natural exceedance	Natural flood

<ul> <li>5 • Topography is derived from 64.5% LIDAR (on 0.25m-2m grids; original accuracy ± 0.15m) and 35.5% NEXTMap SAR (on 5m grid; original accuracy ± 1.0m), processed to remove buildings &amp; vegetation, then combined on a 2m grid; buildings added with an arbitrary height of 5m based on OS MasterMap 2009 building footprints, then resampled to a 5m grid DTM. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Flow routes dictated by topography; a uniform allowance of 12mm/hr has been made for manmade drainage in urban areas. Infiltration allowance reduces runoff to 39% in rural areas and 70% in urban areas.</li> <li>• Areas that may flood are defined by dynamically routing a 1.1 hour duration storm with 1 in 30 chance of occurring in any year over the DTM using JBA's JFLOW-GPU model.</li> <li>• Manning's n of 0.1 in rural areas; 0.03 in urban areas, to reflect explicit modelling of buildings in urban areas.</li> <li>• No allowance made for local variations in drainage, pumping or other works constructed for the purpose of flood risk management.</li> <li>• The '&gt;0.3m' layer shows where modelled flooding is greater than 0.3m deep.</li> </ul>	Cambridgeshire	TL3703577090	Flood Map for Surface Probability refers to the probability of the rainfall Water (FMfSW) - 1 in event, in this case producing flooding of greater than 0.3m depth.	30 Surface runoff		High	Natural exceedance	Natural flood
<ul> <li>6 • Topography is derived from 64.5% LIDAR (on 0.25m-2m grids; original accuracy ± 0.15m) and 35.5% NEXTMap SAR (on 5m grid; original accuracy ± 1.0m), processed to remove buildings &amp; vegetation, then combined on a 2m grid; buildings added with an arbitrary height of 5m based on OS MasterMap 2009 building footprints, then resampled to a 5m grid DTM. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Flow routes dictated by topography; a uniform allowance of 12mm/hr has been made for manmade drainage in urban areas. Infiltration allowance reduces runoff to 39% in rural areas and 70% in urban areas.</li> <li>• Areas that may flood are defined by dynamically routing a 1.1 hour duration storm with 1 in 200 chance of occurring in any year over the DTM using JBA's JFLOW—GPU model.</li> <li>• Manning's n of 0.1 in rural areas; 0.03 in urban areas, to reflect explicit modelling of buildings in urban areas.</li> <li>• No allowance made for local variations in drainage, pumping or other works constructed for the purpose of flood risk management.</li> <li>• The '&gt;0.1m' layer shows where modelled flooding is greater than 0.1m deep.</li> </ul>	Cambridgeshire	TL3703577090	Flood Map for Surface Probability refers to the probability of the rainfall Water (FMfSW) - 1 in event, in this case producing flooding of greater than 0.1m depth.	200 Surface runoff		High	Natural exceedance	Natural flood
<ul> <li>7 • Topography is derived from 64.5% LIDAR (on 0.25m-2m grids; original accuracy ± 0.15m) and 35.5% NEXTMap SAR (on 5m grid; original accuracy ± 1.0m), processed to remove buildings &amp; vegetation, then combined on a 2m grid; buildings added with an arbitrary height of 5m based on OS MasterMap 2009 building footprints, then resampled to a 5m grid DTM. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Flow routes dictated by topography; a uniform allowance of 12mm/hr has been made for manmade drainage in urban areas. Infiltration allowance reduces runoff to 39% in rural areas and 70% in urban areas.</li> <li>• Areas that may flood are defined by dynamically routing a 1.1 hour duration storm with 1 in 200 chance of occurring in any year over the DTM using JBA's JFLOW-GPU model.</li> <li>• Manning's n of 0.1 in rural areas; 0.03 in urban areas, to reflect explicit modelling of buildings in urban areas.</li> <li>• No allowance made for local variations in drainage, pumping or other works constructed for the purpose of flood risk management.</li> <li>• The '&gt;0.3m' layer shows where modelled flooding is greater than 0.3m deep.</li> </ul>	Cambridgeshire	TL3703577090	Flood Map for Surface Probability refers to the probability of the rainfall Water (FMfSW) - 1 in event, in this case producing flooding of greater than 0.3m depth.	200 Surface runoff		High	Natural exceedance	Natural flood
8 • Areas Susceptible to Groundwater Flooding (AStGWF) is a strategic scale map showing groundwater flood areas on a 1km square grid  • This data has used the top two susceptibility bands of the British Geological Society (BGS) 1:50,000 Groundwater Flood Susceptibility Map, which was developed on a 50m grid from:  • NEXTMap 5m grid DTM.  • National Groundwater Level data on a 50m grid  • BGS 1:50 000 geological mapping, with classifications of permeability  • It covers consolidated aquifers (chalk, limestone, sandstone etc.) and superficial deposits.  • Flood plains are not explicitly identified; the mapping identifies where groundwater is likely to emerge, and not where the water is subsequently likely to flow or pond.  • No allowance is made for engineering works, or for groundwater rebound or abstraction to prevent groundwater rebound.  • Shows the proportion of each 1km grid square which is susceptible to groundwater emergence, using four area categories.	Cambridgeshire	TL3703577090	Areas Susceptible to Does not describe a probability, but shows places Groundwater Flooding where groundwater emergence more likely to occur. (AStGWF)	Groundwater		High	Natural exceedance	Natural flood
9 • Modelling developed from combination of national (2004) and local (generally 1998-2010) modelling. • Topography derived from LIDAR (on 0.25m-2m grids; original accuracy ± 0.15m), NEXTMap SAR (on 5m grid; original accuracy ± 1.0m), processed to remove buildings & vegetation. For local modelling, topography may include ground survey. • Location of watercourses and tidal flow routes dictated by topographic survey. • Areas that may flood are defined for catchments >3km² by routing appropriate flows for that catchment through the model to ascertain water level and thus depth and extent. • Manning's n of 0.1 used for national fluvial modelling; variable (calibrated) values for national tidal modelling; appropriate values selected for local modelling. Channel capacity assumed as QMED for national fluvial modelling; local survey methods used for local modelling. • For the purpose of flood risk management, models assume that there are no raised defences.	Cambridgeshire	TL3703577090	Flood Map (for rivers and sea) - flood zone 3	100 Main rivers	Sea, ordinary watercourses	Medium	Natural exceedance	Natural flood
<ul> <li>10 • Modelling developed from combination of national (2004) and local (generally 2004-2010) modelling.</li> <li>• Topography derived from LIDAR (on 0.25m-2m grids; original accuracy ± 0.15m), NEXTMap SAR (on 5m grid; original accuracy ± 1.0m), processed to remove buildings &amp; vegetation. For local modelling, topography may include ground survey.</li> <li>• Location of watercourses and tidal flow routes dictated by topographic survey.</li> <li>• Areas that may flood are defined for catchments &gt;3km² by routing appropriate flows for that catchment through the model to ascertain water level and thus depth and extent.</li> <li>• Manning's n of 0.1 used for national fluvial modelling; variable (calibrated) values for national tidal modelling; appropriate values selected for local modelling. Channel capacity assumed as QMED for national fluvial modelling; local survey methods used for local modelling.</li> <li>• For the purpose of flood risk management, models assume that there are no raised defences.</li> </ul>	Cambridgeshire	TL3703577090	Flood Map (for rivers and sea) - flood zone 2  Extreme flood outline is 1 in 1000, and includes some historic where judged that this gives an indication of areas at risk of future flooding.	1000 Main rivers	Sea, ordinary watercourses	Medium	Natural exceedance	Natural flood

11 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m). Manual edits applied where flow paths clearly omitted e.g. below bridges.  • Infiltration rates caculated for the North and South of the Cambridge & Milton study area and applied as appropriate within the modelling.  • Flow routes dictated by topography; no allowance made for manmade drainage. The DTM may miss flow paths below bridges.  • Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 200 chance of occurring in any year, over the DTM using TUFLOW Modelling software.  • Specific Manning's n values are used, based on land-use type determined from MasterMap.	TL4542057619	Cambridge & Milton Stage 1 Modelling.	200 Surface runoff	High	Natural exceedance	Natural flood
12 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m). Manual edits applied where flow paths clearly omitted e.g. below bridges.  • Infiltration rates caculated for the North and South of the Cambridge & Milton study area and applied as appropriate within the modelling.  • Flow routes dictated by topography; no allowance made for manmade drainage. The DTM may miss flow paths below bridges.  • Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 100 chance of occurring in any year, over the DTM using TUFLOW Modelling software.  • Specific Manning's n values are used, based on land-use type determined from MasterMap.	TL4542057619	Cambridge & Milton Stage 1 Modelling.	100 Surface runoff	1	Natural exceedance	Natural flood
13 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m). Manual edits applied where flow paths clearly omitted e.g. below bridges.  • Infiltration rates caculated for the North and South of the Cambridge & Milton study area and applied as appropriate within the modelling.  • Flow routes dictated by topography; no allowance made for manmade drainage. The DTM may miss flow paths below bridges.  • Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 75 chance of occurring in any year, over the DTM using TUFLOW Modelling software.  • Specific Manning's n values are used, based on land-use type determined from MasterMap.	TL4542057619	Cambridge & Milton Stage 1 Modelling.	75 Surface runoff	1	Natural exceedance	Natural flood
14 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m). Manual edits applied where flow paths clearly omitted e.g. below bridges.  • Infiltration rates caculated for the North and South of the Cambridge & Milton study area and applied as appropriate within the modelling.  • Flow routes dictated by topography; no allowance made for manmade drainage. The DTM may miss flow paths below bridges.  • Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 50 chance of occurring in any year, over the DTM using TUFLOW Modelling software.  • Specific Manning's n values are used, based on land-use type determined from MasterMap.	TL4542057619	Cambridge & Milton Stage 1 Modelling.	50 Surface runoff	ı	Natural exceedance	Natural flood
15 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.  • Infiltration rates caculated for the North and South of the Cambridge & Milton study area and applied as appropriate within the modelling.  • Flow routes dictated by topography; no allowance made for manmade drainage. The DTM may miss flow paths below bridges.  • Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 30 chance of occurring in any year, over the DTM using TUFLOW Modelling software.  • Specific Manning's n values are used, based on land-use type determined from MasterMap.	TL4542057619	Cambridge & Milton Stage 1 Modelling.	30 Surface runoff	1	Natural exceedance	Natural flood
16 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.  • Infiltration rates caculated for the North and South of the Cambridge & Milton study area and applied as appropriate within the modelling.  • Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 200 chance of occurring in any year, over the DTM using TUFLOW Modelling Software.  • Flow routes dictated by topography; allowance made for manmade drainage by modelling Surface Wate Drainage Network and key drains using 1D Estry software.  • Specific Manning's n values are used, based on land-use type determined from MasterMap.	TL4454660689	King's Hedges & Arbury - Detailed Wetspot Modelling	200 Surface runoff		Natural exceedance	Natural flood
17 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.  • Infiltration rates caculated for the North and South of the Cambridge & Milton study area and applied as appropriate within the modelling.  • Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 100 chance of occurring in any year, over the DTM using TUFLOW Modelling Software.  • Flow routes dictated by topography; allowance made for mammade drainage by modelling Surface Wate Drainage Network and key drains using 1D Estry software.  • Specific Manning's n values are used, based on land-use type determined from MasterMap.	TL4454660689	King's Hedges & Arbury - Detailed Wetspot Modelling	100 Surface runoff		Natural exceedance	Natural flood

18 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original	King's Hadges &	TL4454660689	King's Hedges &	75 Surface runoff	Natural exceedance	Natural flood
	Arbury Estate	11.44.0400000	Arbury - Detailed Wetspot Modelling	73 Surface fulloif	Natural exceedance	Natural 1000
<ul> <li>19 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Infiltration rates caculated for the North and South of the Cambridge &amp; Milton study area and applied as appropriate within the modelling.</li> <li>• Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 50 chance of occurring in any year, over the DTM using TUFLOW Modelling Software.</li> <li>• Flow routes dictated by topography; allowance made for manmade drainage by modelling Surface Wate Drainage Network and key drains using 10 Estry software.</li> <li>• Specific Manning's n values are used, based on land-use type determined from MasterMap.</li> </ul>	Arbury Estate	TL4454660689	King's Hedges & Arbury - Detailed Wetspot Modelling	50 Surface runoff	Natural exceedance	Natural flood
<ul> <li>20 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Infiltration rates caculated for the North and South of the Cambridge &amp; Milton study area and applied as appropriate within the modelling.</li> <li>• Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 30 chance of occurring in any year, over the DTM using TUFLOW Modelling Software.</li> <li>• Flow routes dictated by topography; allowance made for manmade drainage by modelling Surface Wate Drainage Network and key drains using 1D Estry software.</li> <li>• Specific Manning's n values are used, based on land-use type determined from MasterMap.</li> </ul>	Arbury Estate	TL4454660689	King's Hedges & Arbury - Detailed Wetspot Modelling	30 Surface runoff	Natural exceedance	Natural flood
<ul> <li>21 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Infiltration rates caculated for the North and South of the Cambridge &amp; Milton study area and applied as appropriate within the modelling.</li> <li>• Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 200 chance of occurring in any year, over the DTM using TUFLOW Modelling Software.</li> <li>• Flow routes dictated by topography; allowance made for manmade drainage by modelling Surface Wate Drainage Network and key drains using 1D Estry software.</li> <li>• Specific Manning's n values are used, based on land-use type determined from MasterMap.</li> </ul>	·	TL4754256697	Cherry Hinton - Detailed Wetspot Modelling	200 Surface runoff	Natural exceedance	Natural flood
<ul> <li>22 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Infiltration rates caculated for the North and South of the Cambridge &amp; Milton study area and applied as appropriate within the modelling.</li> <li>• Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 100 chance of occurring in any year, over the DTM using TUFLOW Modelling Software.</li> <li>• Flow routes dictated by topography; allowance made for manmade drainage by modelling Surface Wate Drainage Network and key drains using 1D Estry software.</li> <li>• Specific Manning's n values are used, based on land-use type determined from MasterMap.</li> </ul>	·	TL4754256697	Cherry Hinton - Detailed Wetspot Modelling	100 Surface runoff	Natural exceedance	Natural flood
<ul> <li>23 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Infiltration rates caculated for the North and South of the Cambridge &amp; Milton study area and applied as appropriate within the modelling.</li> <li>• Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 75 chance of occurring in any year, over the DTM using TUFLOW Modelling Software.</li> <li>• Flow routes dictated by topography; allowance made for manmade drainage by modelling Surface Wate Drainage Network and key drains using 1D Estry software.</li> <li>• Specific Manning's n values are used, based on land-use type determined from MasterMap.</li> </ul>		TL4754256697	Cherry Hinton - Detailed Wetspot Modelling	75 Surface runoff	Natural exceedance	Natural flood
<ul> <li>24 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Infiltration rates caculated for the North and South of the Cambridge &amp; Milton study area and applied as appropriate within the modelling.</li> <li>• Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 in 50 chance of occurring in any year, over the DTM using TUFLOW Modelling Software.</li> <li>• Flow routes dictated by topography; allowance made for manmade drainage by modelling Surface Wate Drainage Network and key drains using 1D Estry software.</li> <li>• Specific Manning's n values are used, based on land-use type determined from MasterMap.</li> </ul>	·	TL4754256697	Cherry Hinton - Detailed Wetspot Modelling	50 Surface runoff	Natural exceedance	Natural flood

<ul> <li>25 • Topography is derived from LIDAR (in larger urban areas, on 1, 2 and 3m grids; original accuracy ± 0.15m) and Geoperspective data (original accuracy ± 1.5m), processed to remove buildings and vegetation. Manual edits applied where flow paths clearly omitted e.g. below bridges.</li> <li>• Infiltration rates caculated for the North and South of the Cambridge &amp; Milton study are: and applied as appropriate within the modelling.</li> <li>• Areas that may flood are defined by dynamically routing a 4 hour duration storm with 1 30 chance of occurring in any year, over the DTM using TUFLOW Modelling Software.</li> <li>• Flow routes dictated by topography; allowance made for manmade drainage by modelling Surface Wate Drainage Network and key drains using 1D Estry software.</li> <li>• Specific Manning's n values are used, based on land-use type determined from MasterMap.</li> </ul>	1	: TL4754256697	Cherry Hinton - Detailed Wetspot Modelling	30 Surface runoff	Natural exceedance	Natural flood
26 TBC - EA to add technical spec	Cambridgeshire	TL3703577090	Risk of Surface Water Flooding / updated Flood Map for Surface Water	30 Surface runoff	Natural exceedance	Natural flood
27 TBC - EA to add technical spec	Cambridgeshire	TL3703577091	Risk of Surface Water Flooding / updated Flood Map for Surface Water	100 Surface runoff	Natural exceedance	Natural flood
28 TBC - EA to add technical spec	Cambridgeshire	TL3703577092	Risk of Surface Water Flooding / updated Flood Map for Surface Water	1000 Surface runoff	Natural exceedance	Natural flood

Significant	Human health	Property count	Other human health	Significant economic	Number of non-	Property count	Other economic	Significant	Environment	Significant	Cultural heritage
consequences to human health	consequences - residential properties	method	consequences	consequences	residential properties flooded	method	consequences	consequences to the environment	consequences	consequences to cultural heritage	consequences
Mandatory Pick from drop-down	Optional Number between 1- 10,000,000	Optional Pick from drop-down	Optional Max 250 characters	Mandatory Pick from drop-down	Optional Number between 1- 10,000,000	Optional Pick from drop-down		Mandatory Pick from drop-down	Optional Max 250 characters	Mandatory Pick from drop-down	Optional Max 250 characters
Would there be any significant consequences to human health if the future flood were to occur?	Record the number of residential properties where the building structure would be affected either internally or externally if the flood were to occur.	non-residential properties have been counted, it is importan to record the method of counting, to aid	t <u>human health</u> , describe them including information such as the number of critical services flooded.	significant economic consequences if the future flood were to occur?	Record the number of non-residential properties where the building structure would be affected either internally or	non-residential	consequences, describe them including information such as the area of agricultural land	Would there be any significant consequences to the environment if the future flood were to occur?	If there would be Significant consequences to the environment, describe them including information such as national and international designated sites flooded, and pollution sources flooded.	Would there be any significant consequences to cultural heritage if the future flood were to occur?	If there would be Significant consequences to cultural heritage, describe them including information such as the number and type of heritage assets flooded.
Yes	12000	Detailed GIS		No				No		No	
Yes				Yes				Yes		Yes	
Yes				Yes				Yes		Yes	
163				163				163		163	
Yes				Yes				Yes		Yes	
Yes				Yes				Yes		Yes	

Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes

Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes

Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes

res	res	res	res
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes

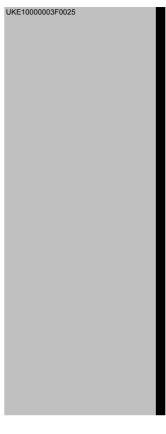
Comments	Data owner	Area flooded	Confidence in modelled outline	Model date	Model Type	Hydrology Type	Lineage	Sensitive data	Protective marking descriptor	European Flood Event Code
Optional Max 1,000 characters	Optional Max 250 characters	Optional Number with two decimal places	Optional Pick from drop-down	Optional 'yyyy' or 'yyyy-mm' or 'yyyy-mm-dd'	Optional Max 250 characters	Optional Max 250 characters	Optional Max 250 characters	Optional Pick from drop-down	Optional Max 50 characters	Auto-populated Max 42 characters
Any additional comments about the future flood record.		The total area of the land flooded, in km <sup>2</sup>	Pick a broad level of confidence in the modelled flood outline from; "High" (good match to past flood extents - about 80% confident that outline is correct), "Medium" (reasonable match - about 50% confident that outline is correct), "Low" (poor match, sparse data - about 20% confident that outline is correct) or 'Unknown'.	уууучинчи		Type of hydrology method used to create future flood information.	Lineage is how and what the data is made from. Has this data been created by using data owned or derived from data owned by 3rd party (external) organisations? If yes please give details.	Scheme? Include protective marking time limit where	the Government's Protective Marking Scheme.	This field will autopopulate using the LLFA name provided on the "Instructions" tab, and the Flood ID. It is an EU-wide unique identifier and will be used to report the flood information.  Format: UK <ons code=""><p f="" or=""><llfa flood="" id="">. "ONS Code" is a unique reference for each LLFA. "P or F" indicates if the event is past or future. "LLFA Flood ID" is a sequential number beginning with 0001.</llfa></p></ons>
	Epping Forest District Council		Medium-Low	2008-08	2D-TuFlow	FEH (Revised Rainfall Runoff)	Ordnance Survey AddressPoint; CEH 1:50k River Centreline; NextMap DTM.	Unmarked	Private	UKE10000012F0001
	JBA Consulting (distributed by Environment Agency under licence)		Low	2009-07	JFLOW-GPU	Depth-duration-frequency curves derived from FEH CD-ROM, from centre of each 5km model, with areal reduction factor applied to convert point rainfall estimate to more representative figure. Curve then used to derive 6.5 hr, 1:200 chance rainfall depth; this is converted to hyetograph, using summer rainfall profile.	1	Protect	Commercial	UKE1000003F0001
	JBA Consulting (distributed by Environment Agency under licence)		Low	2009-07	JFLOW-GPU	Depth-duration-frequency curves derived from FEH CD-ROM, from centre of each 5km model, with areal reduction factor applied to convert point rainfall estimate to more representative figure. Curve then used to derive 6.5 hr, 1:200 chance rainfall depth; this is converted to hyetograph, using summer rainfall profile.	1	Protect	Commercial	UKE1000003F0002
	JBA Consulting (distributed by Environment Agency under licence)		Low	2009-07	JFLOW-GPU	Depth-duration-frequency curves derived from FEH CD-ROM, from centre of each 5km model, with areal reduction factor applied to convert point rainfall estimate to more representative figure. Curve then used to derive 6.5 hr, 1:200 chance rainfall depth; this is converted to hyetograph, using summer rainfall profile.	1	Protect	Commercial	UKE1000003F0003
	Environment Agency		Medium-Low	2010-11	JFLOW-GPU	Depth-duration-frequency curves derived from FEH CD-ROM, from centre of each 5km model, with areal reduction factor applied to convert point rainfall estimate to more representative figure. Curve then used to derive 1.1 hr, 1:30 chance rainfall depth; this is converted to hyetograph, using summer rainfall profile. See "Description of assessment method" for allowances for infiltration and drainage.	DTM, OSMM Topography	Unmarked		UKE10000003F0004

	Environment Agency	Medium-Low	2010-11	JFLOW-GPU	from FEH CD-ROM, from centre of each 5km model, with areal reduction factor applied to	EA 2m Composite	Unmarked	UKE10000003F0005
	Environment Agency	Medium-Low	2010-11		from FEH CD-ROM, from centre of each 5km model, with areal reduction factor applied to	EA 2m Composite	Unmarked	UKE10000003F0006
	Environment Agency	Medium-Low	2010-11	JFLOW-GPU	Depth-duration-frequency curves derived from FEH CD-ROM, from centre of each 5km model, with areal reduction factor applied to convert point rainfall estimate to more representative figure. Curve then used to derive 1.1 hr, 1:200 chance rainfall depth; this is converted to hyelograph, using summer rainfall profile. See "Description of assessment method" for allowances for infiltration and drainage.	EA 2m Composite	Unmarked	UKE1000003F0007
Data developed specifically for PFRA, and is unlikely to be suitable for any other purposes.	Environment Agency	Low	2010-11	ArcGIS	published BGS groundwater level contours, groundwater levels in BGS WellMaster database and some river levels. No probability is associated with this data.	British Geological Society (BGS) DiGMapGB-50 [Susceptibility to Groundwater Flooding].	Unmarked	UKE1000003F0008
Data updated quarterly. To understand the likelihood of future flooding, taking account of defences, refer to Areas Benefitting from Defences and National Flood Risk Assessment (NaFRA) data. Marked 'Protect' for complete national dataset only.	Environment Agency	Medium	2010-11	RAS, TUFLOW for	Fluvial & Tidal Modelling Methods - Methodology, Strengths and Limitations". A national dataset (for England and Wales) of fluvial flood peak estimates was derived from the Flood Estimation Handbook (FEH) to generate a 1 in 100 chance fluvial flood. Local fluvial modelling uses FEH methods. Peak tidal water levels from either Dixon & Tawn (DT3) or local data sets to derive 1 in 200 chance tide levels including surge from POL CSX model.	UKHO Admiralty Charts, 1:50K CEH River Centre Line, CEH FEH Q(T) Grids,	Protect Commercial	UKE1000003F0009
-	Environment Agency	Medium	2010-11	JFLOW, ISIS, HÉC- RAS, TUFLOW for fluvial, and HYDROF for tidal.	National methodology described in "National Generalised Modelling for Flood Zones - Fluvial & Tidal Modelling Methods - Methodology, Strengths and Limitations". A national dataset (for England and Wales) of fluvial flood peak estimates was derived from the Flood Estimation Handbook (FEH) to generate a 1 in 1000 chance fluvial flood. Local fluvial modelling uses FEH methods. Peak tidal water levels from either Dixon & Tawn (DT3) or local data sets to derive 1 in 1000 chance tide levels including surge from POL CSX model.	NextMap SAR DTMe, UKHO Admiralty Charts, 1:50K CEH River Centre Line, CEH FEH Q(T) Grids, POL CSX Peak Extreme Water Levels, POL CS3 Astronomical Tides, UKHO Admiralty Tide Time-Series	Protect Commercial	UKE10000003F0010

Cambridgeshire County Council	TUFLOW	UKE1000003F0011
Cambridgeshire County Council	TUFLOW	UKE10000003F0012
Cambridgeshire County Council	TUFLOW	UKE10000003F0013
Cambridgeshire County Council	TUFLOW	UKE10000003F0014
Cambridgeshire County Council	TUFLOW	UKE10000003F0015
Cambridgeshire County Council	ESTRY-TUFLOW	UKE10000003F0016
Cambridgeshire County Council	ESTRY-TUFLOW	UKE10000003F0017

Cambridgeshire County Council	ESTRY-TUFLOW	UKE10000003F0018
Cambridgeshire County Council	ESTRY-TUFLOW	UKE10000003F0019
Cambridgeshire County Council	ESTRY-TUFLOW	UKE10000003F0020
Cambridgeshire County Council	ESTRY-TUFLOW	UKE10000003F0021
Cambridgeshire County Council	ESTRY-TUFLOW	UKE10000003F0022
Cambridgeshire County Council	ESTRY-TUFLOW	UKE10000003F0023
Cambridgeshire County Council	ESTRY-TUFLOW	UKE10000003F0024

Cambridgeshire County Council	ESTRY-TUFLOW
LLFAs / Environment Agency	
LLFAs / Environment Agency	
LLFAs / Environment Agency	



# Annex 3 Flood Risk Areas

ANNEX 3: Field:	Records of Flood Ris Flood Risk Area ID	k Areas and their ratio	nale (preliminary assess National Grid	sment report spreadshee Main source of	Additional source(s)	Confidence in main	Main mechanism of	Main characteristic
r iciu.	Tioou Kisk Alea ID	Area	Reference	flooding	of flooding	source of flooding	flooding	of flooding
Mandatory / optional: Format:	Mandatory Unique number between 1-9999	Mandatory Max 250 characters	Mandatory 12 characters: 2 letters, 10 numbers	Mandatory Pick from drop-down	Optional Max 250 characters, same source terms	Optional Pick from drop-down	Mandatory Pick from drop-down	Mandatory Pick from drop-down
Notes:	A sequential number starting at 1 and incrementing by 1 for each record.	Name of the locality associated with the Flood Risk Area; a town, city, or county.	National Grid Reference of the centroid (centre point, falls within polygon) of the Flood Risk Area.		If there is also significant flood risk generated by another source (other than the Main source of flooding), report the source(s) here, using the same source terms.	(compelling evidence of source - about 80% confident that source is correct), 'Medium' (some evidence of source but not compelling - about 50% confident that source is correct) 'Low' (source assumed - about 20% confident	exceedance' (of capacity), 'Defence exceedance' (floodwater overtopping defences), 'Failure' (of natural or artificial defences or infrastructure, or of pumping), 'Blockage or restriction' (natural or	precipitation, at a slower rate than a flash flood), 'Snow
Example:	1	London	SX1234512345	Surface runoff	NA	High	Natural exceedance	Natural flood
Records begin here:		1 Cambridge City 2 Huntingdon 3 March	TL4613058678 TL23804 72822 TL4165996874	Surface runoff Surface runoff Surface runoff	Main river Ordinary watercourse Ordinary watercourse	High Medium High	Natural exceedance Natural exceedance Natural exceedance	Natural flood Natural flood Natural flood

# Annex 3 Flood Risk Areas

Significant consequences to human health	Human health consequences - residential properties	Property count method	consequences	Significant economic consequences	residential properties flooded	Property count method	consequences	Significant consequences to the environment		Significant consequences to cultural heritage	Cultural heritage consequences
Mandatory Pick from drop-down	Optional Number between 1- 10,000,000	Optional Pick from drop-down	Optional Max 250 characters	Mandatory Pick from drop-down	Optional Number between 1- 10,000,000	Optional Pick from drop-down	Optional Max 250 characters	Mandatory Pick from drop-down	Optional Max 250 characters	Mandatory Pick from drop-down	Optional Max 250 characters
Has the Flood Risk Area been identified as a result of significant consequences to human health?	Record the number of residential properties where the building structure would be affected either internally or externally by the flood.	Where residential or non-residential properties have been counted, it is important to record the method of counting, to aid comparisons between counts. Choose from; 'Detailed GIS' (using property outlines, as per Environment Agency guidance), 'Simple GIS' (using property points), 'Estimate from map', or 'Observed number'.	Significant consequences to human health, describe them (such	Area been identified as a result of	Record the number of non-residential properties where the building structure would be affected either internally or externally by the flood.	counted, it is important to record the method of counting, to aid comparisons between	If the Flood Risk Area has been identified as a result of other Significant economic consequences, describe them (such as information about the area of agricultural land flooded, length of roads and rail flooded).	Has the Flood Risk Area been identified as a result of significant consequences to the environment?		Area been identified as a result of significant	If the Flood Risk Area has been identified as a result of Significant consequences to cultural heritage, describe them (such as information about the number and type of heritage assets flooded).
Yes	50000	Detailed GIS		No				No		No	
Yes Yes Yes				Yes Yes Yes				Yes Yes Yes		Yes No No	

# Annex 3 Flood Risk Areas

Origin of Flood Risk Area	Amended Flood Risk Area rationale	New Flood Risk Area rationale	Rationale detail	European Flood Risk Area Code
Mandatory Pick from drop-down	Mandatory Pick from drop-down	Mandatory Pick from drop-down	Mandatory Max 1,000 characters	Auto-populated Max 42 characters
Area rationale is mandatory), or 'New' Flood Risk Area (in which case New Flood	from either; 'Geography', 'Past floods', or 'Future floods'. Then provide further detail in Rationale detail. This is not mandatory if the Flood Risk Area was	from either 'Past floods', or 'Future floods'. Then provide further detail in Rationale detail. This is not mandatory if the	Summarise the rationale for amending an indicative Flood Risk Area, or identifying a new Flood Risk Area. Refer to Defra & WAG guidance to LLFAs on "Selecting and reviewing Flood Risk Areas for local sources of flooding". If the Flood Risk Area was an indicative Flood Risk Area and has not been amended, record "indicative Flood Risk Area".	This field will autopopulate using the LLFA name provided on the "Instructions" tab, and the Flood Risk Area ID. It is an EU-wide unique identifier and will be used to report the Flood Risk Area information.  Format: UK <ons code=""><a><llfa flood="" id="">. "ONS Code" is a unique reference for each LLFA. "A" indicates it is a Flood Risk Area. "LLFA Flood ID" is a sequential number beginning with 0001.</llfa></a></ons>
Indicative	NA	NA	indicative Flood Risk Area	UKE10000012A0001
Indicative Amended Indicative	Geography		Amended border to incorporate all of the urban area of Huntingdon	UKE1000003A0001 UKE10000003A0002 UKE10000003A0003