

# Gloucestershire County Council

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## Local Flood Risk Management Strategy

Annual Progress and  
Implementation Plan  
2015/16

## Document Status

This annual progress and implementation plan has been produced to consider progress against actions in the adopted Local Flood Risk Management Strategy, and to identify proposed measures to manage flood risk in the county for the forthcoming year.

### Amendment Record:

Revision	Description	Date	Signed
1	First Draft	Summer 2015	MP
2	Final Draft	November 2015	DP

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# 1. Introduction

1. Gloucestershire County Council's Local Flood Risk Management Strategy was published in 2014. It identified the extent of flooding in Gloucestershire, established priorities for managing flooding, and identified how GCC will work together with Risk Management Authorities<sup>1</sup>, other stakeholders, and local communities to manage flood risk. It is important to note, that in keeping with our statutory duties, the Strategy focused on flooding from surface runoff, groundwater and ordinary watercourses, whilst considering the linkages with other sources of flooding. However, as part of our leadership role we identified flood risk which is the operational responsibility of other organisations and will continue to work closely in partnership to support reduction in flood risk across the county irrespective of source. The Strategy was made up of several documents, which are outlined in Table 1-1 below.

**Table 1-1 Documents generated as part of Local Strategy**

Name of Document	Purpose of document and summary of contents
Main Document	This is the main strategy document which details the objectives of the Local Strategy and our approach to working in partnership. It also sets out our understanding of flood risk and how we'll prioritise investment in specific locations. It considers broad actions we will take with our partners across the county to manage flood risk. This is supported by a series of Annexes which deal with some of the key issues in detail.
Summary Document	This provides an overview of the Local Strategy, including the background, key roles and responsibilities, and actions to manage flood risk.
Annual progress and implementation plan	Because there will inevitably be legislative, regulatory and financial changes over this period GCC will need to maintain some flexibility over the delivery period of the Local Strategy. To reflect future uncertainty and maintain flexibility, GCC will develop and maintain an 'annual progress and implementation plan'. The annual progress and implementation plan will provide more specific details on: progress against the Local Strategy objectives; changes which impact the delivery of the Local Strategy (e.g. funding opportunities or legislative changes), and; the priorities for investment for the forthcoming year.
Strategic Environmental Assessment (SEA) Environmental Report	The SEA is a process for considering the potential environmental impacts of addressing flood risk.

<sup>1</sup> Risk Management Authorities are defined in the Flood and Water Management Act as the LLFA, district/borough councils, the Environment Agency, water and sewerage companies, the highways authority and Internal Drainage Boards. Their roles are discussed in Section 2 of the Local Strategy

2. The Main Document and Summary document provided an overview of the objectives for managing flood risk, set out the key roles and responsibilities, identified the extent of flood risk, and identified actions we will take in partnership with others to reduce flood risk. The actions we proposed were divided into those we will take across Gloucestershire and those we will take in specific locations prioritised by the level of flood risk and cost benefits.

3. As part of the Strategy we outlined the need for an 'annual progress and implementation plan' which would set out:

- a summary of progress since the previous annual progress and implementation plan was published;
- an up to date prioritisation list based on most vulnerable locations<sup>2</sup> for the forthcoming year, and;
- An up to date list of the actions carried out in each parish.

4. This document is the annual progress and implementation plan. It sets out action we intend to take subject to available resource and funding. It considers those actions we proposed to take across Gloucestershire and those we will take in specific locations prioritised by the level of flood risk.

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<sup>2</sup> This could be based on new information being available due to better modelling and mapping, or a flood incident within a parish or ward.

## 2. Actions we propose to take across Gloucestershire

5. The Main Document of the Strategy identified actions we will take across Gloucestershire to manage and reduce flood risk, and ensure we have appropriate processes and procedures in place. Table 2-1 summarises the agreed actions, the progress to date, and the proposed activities for the forthcoming year to meet these actions. Since the publication of the Main Document, these actions have been altered to take in to account legislative and policy changes by Government, and progress made by the LLFA.

**Table 2-1 Progress against proposed action across Gloucestershire**

Measures	Responsibility	How will we measure success	Timescale for action (from LFRMS)	Progress (Summer 2015)	Planned activities Summer 2015/2016
Undertake further studies to improve our understanding of local flood risk, and in response to flooding incidents	GCC in partnership with Risk Management Authorities (RMAs)	Completion of studies which identify potential mitigation measures to alleviate flooding. Further hydraulic modelling to understand future risks due to climate change	Ongoing with annual progress updates to assess whether objective is being delivered.	<ul style="list-style-type: none"> <li>SWMPs completed in Bishop's Cleeve, Cheltenham, Gloucester &amp; Tewkesbury</li> <li>Other local studies and investigation across county completed (e.g. Lydbrook)</li> <li>Parishes identified as medium-high risk or above from surface water flood risk modelling (undertaken pre-2014) and identified as not having a scheme or study were subject to a preliminary study to investigate the cause of flood risk and possible alleviation schemes.</li> <li>Since the above, parishes across Gloucestershire have been re-ranked using modelling results post-2014.</li> </ul>	<ul style="list-style-type: none"> <li>See Table 3-1 for details on planned studies, investigations and schemes</li> <li>Subject to finances, identify parishes at medium-high flood risk or higher with no schemes or investigation to determine the cause of risk, and potential alleviation schemes.</li> <li>Subject to finances, undertake point 3 on the newly prioritised parishes identified as high or medium-high risk that have not experienced a flood alleviation scheme or investigative study.</li> </ul>
Undertake S.19 Investigations (of flooding incidents) where criteria is met	GCC in partnership with RMAs	Completion and publication of S.19 Investigations	Ongoing with annual progress updates to assess whether objective is being delivered	<ul style="list-style-type: none"> <li>Investigations ongoing.</li> </ul>	<ul style="list-style-type: none"> <li>Develop a protocol for investigations to ensure consistency across Risk Management Authorities</li> <li>Undertake S.19 Investigations within 3 months of flooding which meet the criteria</li> </ul>
Deliver consenting and enforcement role	GCC in partnership with RMAs	Consent applications will be subject to rigorous scrutiny prior to approval / rejection Enforcement action will be undertaken when necessary and must comply with protocol	Ongoing with annual progress updates to assess whether objective is being delivered	<ul style="list-style-type: none"> <li>We have delegated the consenting and enforcement role to the district councils</li> <li>Consenting and enforcement for Gloucester City has been retained by the LLFA</li> <li>We have updated the consenting and enforcement protocol in partnership with the district councils</li> </ul>	<ul style="list-style-type: none"> <li>Continue to work with the districts to monitor consenting and enforcement activities</li> <li>Explore most efficient working arrangements with the districts</li> </ul>
Develop consistent approach for designating structures	GCC in partnership with RMAs	Agreed protocol between designating authorities	Spring 2014	<ul style="list-style-type: none"> <li>We have determined to use the UK Government guidance on designating structures, available at: <a href="https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/69579/pb13804-fc-erm-infonote.pdf">https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/69579/pb13804-fc-erm-infonote.pdf</a></li> </ul>	<ul style="list-style-type: none"> <li>Agree the protocol with GCC legal and other Risk Management Authorities</li> <li>Utilise the protocol in the event a designation is deemed necessary, and ensure our partners also use this process</li> </ul>
Collate additional information from parish councils and other RMAs	GCC in partnership with RMAs	Establishment of process to collate additional data. Collection of additional flood data	Spring 2015 to commence the process	<ul style="list-style-type: none"> <li>Investigated to possible methods of sharing data in real time or via batch uploads.</li> <li>Difficulty in sharing data exists due to complex and different computer systems in each RMA.</li> <li>Investigations carried out in to new service for recording flood incidents – SWIM (South West Incident Management). System currently unavailable. Announcement expected Dec 2015.</li> </ul>	<ul style="list-style-type: none"> <li>Streamline data sharing across RMAs through a standardised approach to record flood incident</li> <li>Agree data sharing protocol and legal agreements with RMAs</li> <li>Continue to pursue SWIM</li> </ul>
Develop an annual progress and implementation plan and co-ordinate investigations and investment on an annual basis.	GCC in partnership with RMAs	Agreed implementation plan on an annual basis by Risk Management Authorities	First implementation plan will be developed for 2015/16 Then ongoing annually	<ul style="list-style-type: none"> <li>Draft document produced</li> <li>Draft available to LCM Oct 2015</li> <li>Final draft available for approval Nov 2015</li> </ul>	<ul style="list-style-type: none"> <li>Monitor success of implementation plan, and ensure it is kept as a 'live' document during the year</li> </ul>
Seek to increase funding from external sources	GCC in partnership with RMAs	Seek to increase in external contributions towards funding applications over the next 5 years	Ongoing annually	<ul style="list-style-type: none"> <li>We have prepared a funding report which considers how and when we can request external contributions towards schemes</li> </ul>	<ul style="list-style-type: none"> <li>Constant appeals for external sources of funding for all schemes, projects, investigations and studies.</li> </ul>

Measures	Responsibility	How will we measure success	Timescale for action (from LFRMS)	Progress (Summer 2015)	Planned activities Summer 2015/2016
Populate S.21 Asset Register	GCC in partnership with RMAs	S.21 Asset Register populated and available for public inspection	Asset register populated and available for public inspection by autumn 2013	<ul style="list-style-type: none"> <li>The asset register has been populated with over 175 assets across the county</li> <li>The asset register (in spreadsheet format) is available for public inspection upon request</li> </ul>	<ul style="list-style-type: none"> <li>Continue to work with Risk Management Authorities to add further records to the asset register</li> </ul>
Develop risk-based approach for maintaining assets	GCC in partnership with RMAs	Asset management programme in place with sufficient funding for delivery	<p>Programme to be agreed by Local Cabinet Members (LCM) in November 2015</p> <p>Subject to the success of the approval, projected implemented of schemes is financial year 16/17 and onwards.</p>	<ul style="list-style-type: none"> <li>Paper produced for LCM detailing at risk assets and properties.</li> <li>Paper requires approval</li> <li>Maintenance and schemes require funding sources.</li> </ul>	<ul style="list-style-type: none"> <li>Seek approval for programme of works by Local Cabinet Members.</li> </ul>
Undertake ditch mapping and clearance with parish councils	GCC in partnership with district and parish councils	<p>Targeted parishes and wards have more comprehensive mapping of location and condition of drainage ditches, including pinch points.</p> <p>More drainage ditches across the county being cleared by riparian owners</p>	<p>Pilot to be run in 2014/2015 with further implementation 2015/2016 subject to success of pilot</p> <p>Ongoing with annual progress updates to assess whether objective is being delivered</p>	<ul style="list-style-type: none"> <li>We have commenced engagement with Ashchurch Rural Parish Council, Northway Parish Council and Tewkesbury Town Council to undertake the ditch mapping pilot</li> <li>'Waterside Living' leaflet updated and re-issued</li> </ul>	<ul style="list-style-type: none"> <li>Complete the pilot project with Ashchurch Rural Parish Council, Northway Parish Council and Tewkesbury Town Council and analyses outcomes</li> <li>Produce guidance note which can be circulated to other parish councils</li> </ul>
Undertake pilot to assess green infrastructure	GCC in partnership with district councils and water companies	Successful implementation of a pilot study	Pilot study to be established during 2014/15	<ul style="list-style-type: none"> <li>Supporting pilot in the Whaddon area of Cheltenham, led by the Environment Agency and Cheltenham Borough Council</li> </ul>	<ul style="list-style-type: none"> <li>Monitor and promote success of pilot</li> </ul>
Develop SUDS Approval Body role under Schedule 3 of the Flood and Water Management Act 2010	GCC in partnership with RMAs	SUDS Approval Body delivery model in place for commencement of Schedule 3 of FWMA	Schedule 3 of the FaWMA remains to be enacted. No indication if the Schedule will be implemented.	<ul style="list-style-type: none"> <li>Government as an alternative to enacting Schedule 3 of the FaWMA have made all LLFAs statutory consultees to Local Planning Authorities on surface water for all major planning applications. Statutory consultee role has been implemented.</li> </ul>	<ul style="list-style-type: none"> <li>See below measure</li> </ul>
Statutory consultee to all Local Planning Authorities for major developments	GCC	Provide statutory consultee comments on surface water management and surface water flood risk for all major planning applications in Gloucestershire to the relevant Local Planning Authority (LPA)	Ongoing	<ul style="list-style-type: none"> <li>Statutory consultee role implemented April 2015</li> <li>Planning comments are being provided to the Local Planning Authorities as required by statute.</li> </ul>	<ul style="list-style-type: none"> <li>Continue with statutory consultee role.</li> <li>Produce Gloucestershire SuDS Design and Maintenance Guide to state local and national policy.</li> <li>Continue to provide pre-application advice within resources available.</li> </ul>
Issue surface water mapping to local planning authorities	GCC	LPAs have access to and utilise the latest SW mapping to inform decision-making	Ongoing as and when new information is available	<ul style="list-style-type: none"> <li>Environment Agency has supplied all district and borough councils with access to the latest SW mapping</li> </ul>	<ul style="list-style-type: none"> <li>Continue to provide the district and borough councils with the most up to date modelling and flood risk mapping</li> </ul>
Publish surface water mapping	GCC, district councils and EA	Publication and distribution of flood risk mapping produced by the Environment Agency and supplied to the Flood Risk Management team.	Summer 2014 subject to legal review about publishing mapping	<ul style="list-style-type: none"> <li>The Environment Agency has published surface water flooding risk mapping, which is available at: <a href="http://watermaps.environment-agency.gov.uk/wiyby/wiyby.aspx?topic=ufmfsfw#x=357683&amp;y=355134&amp;scale=2">http://watermaps.environment-agency.gov.uk/wiyby/wiyby.aspx?topic=ufmfsfw#x=357683&amp;y=355134&amp;scale=2</a></li> <li>SWMP published online at <a href="http://www.gloucestershire.gov.uk/extra/swmp">http://www.gloucestershire.gov.uk/extra/swmp</a></li> <li>Detail surface water maps have been distributed to other RMAs by the EA</li> </ul>	<ul style="list-style-type: none"> <li>Ensure most up to date mapping is available to the Flood Risk Management team and appropriate RMA.</li> </ul>
Raise awareness of flood risk through media	GCC in partnership with district councils	Increase in amount of media activity related to flood risk management	Ongoing with annual progress updates to assess whether objective is being delivered	<ul style="list-style-type: none"> <li>Updated the "Waterside living" leaflet and copies distributed to all parishes and wards in Gloucestershire.</li> </ul>	<ul style="list-style-type: none"> <li>Establish a media/communications plan with GCC communications team by Autumn 2014 to identify how to utilise media to raise awareness of flood risk</li> </ul>

Measures	Responsibility	How will we measure success	Timescale for action (from LFRMS)	Progress (Summer 2015)	Planned activities Summer 2015/2016
Continue meeting with Flood Risk Management Partnership Group and ensure good lines of communication between organisations	GCC in partnership with RMAs	FRM partnership group meets up to 3 times per year	Ongoing with annual progress updates to assess whether objective is being delivered	<ul style="list-style-type: none"> <li>We have engaged with flood risk management partners in preparing this implementation plan</li> </ul>	<ul style="list-style-type: none"> <li>Hold 4 monthly LLFA liaison meeting with all district councils and relevant parties present.</li> <li>Hold 6 to 8 week meeting with all district and borough council drainage engineers.</li> </ul>
Work with Civil protection Team to raise awareness of flooding and ensure joined up approach	GCC	Evidence of local communities becoming more prepared for flooding (e.g. preparation of community flood plans). Civil Protection Team have access to latest mapping to inform planning	Ongoing with annual progress updates to assess whether objective is being delivered	<ul style="list-style-type: none"> <li>We are working together as part of a wider data sharing group investigating mechanisms to capture flood incident data in a consistent way across Risk Management Authorities</li> </ul>	<ul style="list-style-type: none"> <li>Continue to work as part of wider data sharing group</li> </ul>
Develop a robust scoring matrix for prioritising a rolling programme of works	GCC	Schemes are developed and funded based on most at risk and cost effectiveness	Ongoing	<ul style="list-style-type: none"> <li>Scoring matrix completely and in effective use</li> </ul>	<ul style="list-style-type: none"> <li>Developed scoring matrix to provide a means of objectively identify priority schemes.</li> </ul>
Keep parish at risk priority locations up to date	GCC	Ranked parishes based on flood risk that reflects known flood issues and most recent flood maps	Ongoing	<ul style="list-style-type: none"> <li>Modelled flood risk now utilise the EA's most recent SW mapping (updated Flood Maps for Surface Water)</li> <li>Historic flood results now utilises data from the Flood Data Register</li> </ul>	<ul style="list-style-type: none"> <li>Update historic flood data results according to Flood Data Register records</li> <li>Update modelled flood risk results to the most recent data available.</li> </ul>

## 3. Location-specific actions

### 3.1. Parish prioritisation and location specific actions

6. The Strategy defined the methodology for the parish prioritisation process. The modelling and flood maps used have since been superseded by the Environment Agency's updated Flood Maps for Surface Water (uFMfSW). The Parish Prioritisation ranking (table 3-1) has been updated to reflect the update.
7. A further improvement to the prioritisation method has been achieved by extracting historic flood data from Gloucestershire County Council's Flood Data Register. This now ensures the number of flooded or affected properties and businesses for each parish is reflected by documented reports. Each report is recorded by an LLFA, district or borough council engineer/officer.
8. The results from utilising more recent flood maps and data from the Flood Data Register can be seen in the following table (Table 3.1). Please note, the number of reported flood incidences of internal and affected properties may not reflect the actual number of properties as report must be a formal record on the Flood Data Register. Appendix 4.1 contains the definitions used in Table 3-1, and Appendix 4.2 summarises the methodology.
9. Table 3-1 allows the LLFA to identify the most at risk parishes and wards vulnerable to flood risk from all sources. Parishes and wards identified as being "High" risk will remain the highest priority for the LLFA. Where an area has been identified as being at risk and GCC does not have legislative responsibility (e.g. Main Rivers or sewerage flooding) we will ensure that the appropriate Risk Management Authority is taking a leadership role and where necessary GCC will pursue a co-ordinating function. Where we have direct operational responsibility and where resources permit we will lead on the development of mitigation measures, in partnership with others.
10. A number of parishes described as "High" or "Medium-high" flood risk do not have an action attributed to them, instead their previous ranked has been stated. This is due to the use of new flood risk modelling that has resulted in a change of perceived flood risk, thus increasing or decreasing a parish's score. In the circumstances where such a parish has not had investment or an investigation, the LLFA will pursue to investigate the cause of the High or Medium-high score, and take appropriate action (i.e. undertake a study, and/or remedial work where funds allow). This will form the next stage of a commissioned study.
11. Subject to resources and funding, we are also committed to investing in locations outside of the "High" and "Medium-high" risk parishes and wards to reduce flood risk, and areas where investment has already been awarded but remain at high risk. This is due to schemes or contributions will always be considered on the merits of a cost benefit analysis and the LLFA's priorities.
12. The prioritisation process will be repeated for each Annual Progress and Implementation Plan to take account of new reports of flooding recorded on the Flood Data Register and to include the latest flood risk modelling.

Table 3-1 2015/2016 Prioritised Parishes and Wards

Parish or Ward	District	FDR number of properties internally flooded	FDR number of properties affected	uFMfSW number of high risk (in 30 year) properties	Calculated Risk*	Revised calculated risk*	Actions
Abbeydale Ward	Gloucester	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-Low	Funded scheme in progress
Adlestrop CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Alderley CP	Stroud	Less than 5	Less than 5	50 - 75	Low	Low	-
Alderton CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Low	Low	-
Aldsworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Alkington CP	Stroud	Less than 5	5 - 25	50 - 75	Medium-Low	Medium-Low	-
All Saints Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Medium-Low	-
Alvington CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Ampney Crucis CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Ampney St. Mary CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Ampney St. Peter CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Andoversford CP	Cotswold	Less than 5	5 - 25	50 - 75	Medium-Low	Medium-Low	Study completed
Arlingham CP	Stroud	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	-
Ashchurch Rural CP	Tewkesbury	Less than 5	Less than 5	75 - 100	Medium-High	Medium-High	Study completed
Ashleworth CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	-
Ashley CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Aston Subedge CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Avening CP	Cotswold	Less than 5	Less than 5	50 - 75	Low	Medium-Low	-
Awre CP	Forest	Less than 5	5 - 25	75 - 100	Medium-High	Medium-High	Study completed
Aylburton CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Badgeworth CP	Tewkesbury	Less than 5	Less than 5	Greater than 100	Medium-Low	Medium-Low	SWMP report complete
Bagendon CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Barnsley CP	Cotswold	Less than 5	5 - 25	Less than 5	Low	Low	-
Barnwood Ward	Gloucester	Less than 5	Less than 5	5 - 25	Medium-High	Medium-High	Funded scheme in progress
Barrington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Barton and Tredworth Ward	Gloucester	Less than 5	Less than 5	Greater than 100	High	High	Scheme identified - Funding required
Batsford CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Battledown Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Medium-Low	-
Baunton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Benhall and the Reddings Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Low	-
Berkeley CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Beverston CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Bibury CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Bishop's Cleeve CP	Tewkesbury	Less than 5	Less than 5	Greater than 100	Medium-Low	Medium-High	Scheme identified - Provisional funding
Bisley-with-Lypiatt CP	Stroud	Less than 5	Less than 5	50 - 75	Low	Low	-
Blaisdon CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Bledington CP	Cotswold	Less than 5	5 - 25	75 - 100	Medium-Low	-	Scheme complete
Blockley CP	Cotswold	Less than 5	Less than 5	Greater than 100	Medium-High	Medium-High	Funded scheme in progress
Boddington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	-
Bourton-on-the-Hill CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Bourton-on-the-Water CP	Cotswold	Less than 5	Less than 5	Greater than 100	High	-	Scheme complete
Boxwell with Leighterton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Brimpsfield CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Brimscombe and Thrupp CP	Stroud	Less than 5	Less than 5	Greater than 100	Medium-High	High	Previously ranked "Low" – Investigation pending until resources available
Broadwell CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Brockworth CP	Tewkesbury	Less than 5	Less than 5	Greater than 100	Medium-Low	Medium-Low	SWMP report complete
Bromesberrow CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Brookthorpe-with-Whaddon CP	Stroud	Less than 5	Less than 5	50 - 75	Low	Low	SWMP report complete
Buckland CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Low	Low	-
Cainscross CP	Stroud	Less than 5	5 - 25	Greater than 100	High	High	Scheme identified - Funding required
Cam CP	Stroud	Less than 5	Less than 5	Greater than 100	Medium-High	Medium-High	Study completed

\*The "Calculated Risk" remains the same for parishes or wards where a flood alleviation scheme has not been completed. A "Revised Calculated Risk" takes in to account where scheme have been completed to address known flood risk issues, this is signified by a "-". The remainder of the parishes and wards are reprioritised accordingly.

Parish or Ward	District	FDR number of properties internally flooded	FDR number of properties affected	uFMfSW number of high risk (in 30 year) properties	Calculated Risk*	Revised calculated risk*	Actions
Chaceley CP	Tewkesbury	Less than 5	5 - 25	5 - 25	Low	Low	Funded scheme in progress
Chalford CP	Stroud	5 - 25	Less than 5	Greater than 100	High	High	Scheme identified - Funding required
Charlton Kings Ward	Cheltenham	Less than 5	Less than 5	50 - 75	Medium-High	-	Scheme complete
Charlton Park Ward	Cheltenham	Less than 5	Less than 5	5 - 25	Medium-High	Medium-High	Previously ranked “Medium-Low” – Investigation pending until resources available
Chedworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Cherington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Chipping Campden CP	Cotswold	Less than 5	Less than 5	Greater than 100	High	-	Scheme complete
Churcham CP	Forest	Less than 5	Less than 5	50 - 75	Low	Low	-
Churchdown CP	Tewkesbury	Less than 5	Less than 5	Greater than 100	Medium-High	Medium-High	Funded scheme in progress
Cinderford CP	Forest	Less than 5	5 - 25	Greater than 100	High	High	Funded scheme in progress
Cirencester CP	Cotswold	5 - 25	5 - 25	Greater than 100	High	High	Study in progress
Clapton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Coaley CP	Stroud	Less than 5	Less than 5	50 - 75	Low	Medium-Low	-
Coates CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Coberley CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Cold Aston CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Coleford CP	Forest	Less than 5	Less than 5	Greater than 100	Medium-High	High	Study complete
Colesbourne CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
College Ward	Cheltenham	Less than 5	Less than 5	50 - 75	High	-	Scheme complete
Coln St. Aldwyns CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Coln St. Dennis CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Compton Abdale CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Condicote CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Corse CP	Forest	Less than 5	Less than 5	50 - 75	Low	Low	-
Cowley CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Cranham CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Low	-
Cutsdean CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Daglingworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Deerhurst CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Medium-Low	-	Scheme complete
Didmarton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Donnington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Dowdeswell CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Down Ampney CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Down Hatherley CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	SWMP report complete
Driffield CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Drybrook CP	Forest	Less than 5	Less than 5	Greater than 100	Medium-Low	Medium-Low	-
Dumbleton CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Low	Low	-
Duntisbourne Abbots CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Duntisbourne Rouse CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Dursley CP	Stroud	Less than 5	Less than 5	Greater than 100	Medium-High	Medium-High	Scheme identified - Funding required
Dymock CP	Forest	Less than 5	Less than 5	50 - 75	Low	Low	-
Eastington CP	Stroud	Less than 5	5 - 25	50 - 75	Medium-Low	Medium-Low	-
Eastleach CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Ebrington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Edgeworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Elkstone CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Elmbridge Ward	Gloucester	Less than 5	Less than 5	5 - 25	Medium-Low	-	Scheme complete
Elmore CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Medium-Low	-
Elmstone Hardwicke CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
English Bicknor CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Evenlode CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Fairford CP	Cotswold	Less than 5	Less than 5	50 - 75	Medium-High	-	Scheme complete
Farmington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Forthampton CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Frampton on Severn CP	Stroud	5 - 25	5 - 25	5 - 25	Medium-High	Medium-High	Funded scheme in progress
Fretherne with Saul CP	Stroud	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	-

\*The “Calculated Risk” remains the same for parishes or wards where a flood alleviation scheme has not been completed. A “Revised Calculated Risk” takes in to account where scheme have been completed to address known flood risk issues, this is signified by a “-“. The remainder of the parishes and wards are reprioritised accordingly.

# Gloucestershire County Council Local Flood Risk Management Strategy

Parish or Ward	District	FDR number of properties internally flooded	FDR number of properties affected	uFMfSW number of high risk (in 30 year) properties	Calculated Risk*	Revised calculated risk*	Actions
Frocester CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Gorsley and Kilcot CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Gotherington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Grange Ward	Gloucester	Less than 5	75 - 100	5 - 25	Medium-Low	Medium-High	Funded scheme in progress
Great Rissington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Great Witcombe CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	SWMP report complete
Gretton CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Guiting Power CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Ham and Stone CP	Stroud	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-High	Previously ranked “Low” – Investigation pending until resources available
Hamfallow CP	Stroud	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	-
Hampnett CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Hardwicke CP	Stroud	Less than 5	5 - 25	50 - 75	Medium-Low	Medium-Low	SWMP report complete
Harescombe CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Haresfield CP	Stroud	Less than 5	Less than 5	50 - 75	Low	Low	-
Hartpury CP	Forest	Less than 5	Less than 5	50 - 75	Low	Low	-
Hasfield CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Hatherop CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Hawling CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Hazleton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Hesters Way Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Low	-
Hewelsfield and Brockweir CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	Funded scheme in progress
Highnam CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	-
Hillesley and Tresham CP	Stroud	Less than 5	Less than 5	50 - 75	Low	Low	-
Hinton CP	Stroud	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	-
Horsley CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Hucclecote CP	Tewkesbury	Less than 5	Less than 5	Less than 5	Low	Low	Study completed
Hucclecote Ward	Gloucester	Less than 5	Less than 5	5 - 25	Medium-High	Medium-High	Scheme identified - Funding required
Huntley CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Icomb CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Innsworth CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	SWMP report complete
Kemble CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Kempley CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Kempsford CP	Cotswold	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	Funded scheme in progress
King's Stanley CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Kingscote CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Kingsholm and Wotton Ward	Gloucester	Less than 5	Less than 5	5 - 25	Medium-High	Medium-High	Scheme identified - Funding required
Kingswood CP	Stroud	Less than 5	5 - 25	75 - 100	Medium-High	Medium-High	Previously ranked “Medium-Low” – Investigation pending until resources available
Lansdown Ward	Cheltenham	Less than 5	Less than 5	5 - 25	High	High	SWMP report complete
Lechlade CP	Cotswold	Less than 5	Less than 5	5 - 25	Medium-High	Medium-High	Funded scheme in progress
Leckhampton Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-Low	-
Leigh CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	-	Scheme complete
Leonard Stanley CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Little Rissington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Littledean CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Long Newnton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Longborough CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Longford CP	Tewkesbury	5 - 25	5 - 25	Less than 5	Medium-Low	Medium-Low	SWMP report complete
Longhope CP	Forest	Less than 5	Less than 5	75 - 100	Medium-Low	Medium-Low	-
Longlevens Ward	Gloucester	Less than 5	Less than 5	Less than 5	High	High	SWMP report complete
Longney and Epney CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Low	-
Lower Slaughter CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	Funded scheme in progress
Lydbrook CP	Forest	5 - 25	5 - 25	Greater than 100	High	High	Funded scheme in progress
Lydney CP	Forest	Less than 5	5 - 25	Greater than 100	High	High	Funded scheme in progress
Maisemore CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-

\*The “Calculated Risk” remains the same for parishes or wards where a flood alleviation scheme has not been completed. A “Revised Calculated Risk” takes in to account where scheme have been completed to address known flood risk issues, this is signified by a “-“. The remainder of the parishes and wards are reprioritised accordingly.

Parish or Ward	District	FDR number of properties internally flooded	FDR number of properties affected	uFMfSW number of high risk (in 30 year) properties	Calculated Risk*	Revised calculated risk*	Actions
Maiseyhampton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Matson and Robinswood Ward	Gloucester	Less than 5	5 - 25	5 - 25	Medium-High	Medium-High	Scheme identified - Funding required
Maugersbury CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Mickleton CP	Cotswold	Less than 5	Less than 5	75 - 100	Medium-Low	Medium-Low	-
Minchinhampton CP	Stroud	Less than 5	Less than 5	Greater than 100	Medium-Low	Medium-High	Previously ranked “Medium-Low” – Investigation pending until resources available
Minsterworth CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	-
Miserden CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Mitcheldean CP	Forest	Less than 5	Less than 5	Greater than 100	Low	Medium-Low	Study completed
Moreland Ward	Gloucester	Less than 5	5 - 25	5 - 25	High	High	Scheme complete
Moreton Valence CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Moreton-in-Marsh CP	Cotswold	Less than 5	5 - 25	Greater than 100	High	High	Funded scheme in progress
Nailsworth CP	Stroud	Less than 5	Less than 5	Greater than 100	Medium-High	High	Study completed
Naunton CP	Cotswold	Less than 5	Less than 5	50 - 75	Low	Low	Funded scheme in progress
Newent CP	Forest	Less than 5	Less than 5	Greater than 100	Medium-High	Medium-High	Funded scheme in progress
Newland CP	Forest	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	Study completed
Newnham CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
North Cerney CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
North Nibley CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Northleach with Eastington CP	Cotswold	Less than 5	Less than 5	50 - 75	Medium-Low	-	Scheme complete
Northway CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	Funded scheme in progress
Norton CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	SWMP report complete
Notgrove CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Nymphsfield CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Oakley Ward	Cheltenham	Less than 5	Greater than 100	Less than 5	Medium-High	Medium-High	Funded scheme in progress
Oddington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Owlpen CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Low	-
Oxenhall CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Oxenton CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Low	Low	-
Ozleworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Painswick CP	Stroud	Less than 5	5 - 25	50 - 75	Medium-Low	Medium-Low	Funded scheme in progress
Park Ward	Cheltenham	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	-
Pauntley CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Pitchcombe CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Low	-
Pittville Ward	Cheltenham	Less than 5	Less than 5	50 - 75	Medium-High	Medium-High	Study completed
Podsmead Ward	Gloucester	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	Study completed
Poole Keynes CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Poultton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Prescott CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Prestbury Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-Low	-
Preston CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Quedgeley Fieldcourt Ward	Gloucester	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-Low	SWMP report complete
Quedgeley Severn Vale Ward	Gloucester	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-Low	Funded scheme in progress
Quenington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Randwick CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Redmarley D'abitot CP	Forest	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	-
Rendcomb CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Rodborough CP	Stroud	Less than 5	Less than 5	50 - 75	Medium-High	Medium-High	Previously ranked “Medium-Low” – Investigation pending until resources available
Rodmarton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Ruardean CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Rudford and Highleadon CP	Forest	Less than 5	Less than 5	50 - 75	Low	Low	-
Ruspidge and Soudley CP	Forest	Less than 5	Less than 5	75 - 100	Medium-Low	Medium-Low	-
Saintbury CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-

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Parish or Ward	District	FDR number of properties internally flooded	FDR number of properties affected	uFMfSW number of high risk (in 30 year) properties	Calculated Risk*	Revised calculated risk*	Actions
Sandhurst CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-High	SWMP report complete
Sapperton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Sevenhampton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Sezincote CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Sherborne CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Shipton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Shipton Moyne CP	Cotswold	Less than 5	Less than 5	50 - 75	Low	Low	-
Shurdington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	SWMP report complete
Siddington CP	Cotswold	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	-
Slimbridge CP	Stroud	Less than 5	5 - 25	5 - 25	Medium-High	Medium-High	Report complete
Snowhill CP	Tewkesbury	Less than 5	Less than 5	Less than 5	Low	Low	-
Somerford Keynes CP	Cotswold	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	-
South Cerney CP	Cotswold	Less than 5	Less than 5	5 - 25	Medium-High	Medium-High	Funded scheme in progress
Southam CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Low	Low	Scheme identified - Provisional funding
Southrop CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Springbank Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Medium-High	Medium-High	Previously ranked “Medium-Low” – Investigation pending until resources available
St. Briavels CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
St. Mark's Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Low	-
St. Paul's Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Low	-
St. Peter's Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Medium-High	Medium-High	Previously ranked “Low” – Investigation pending until resources available
Standish CP	Stroud	Less than 5	Less than 5	50 - 75	Low	Low	-
Stanton CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Stanway CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	Study completed
Staunton Coleford CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Staunton CP	Forest	Less than 5	Less than 5	50 - 75	Low	Low	-
Staverton CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Low	Low	-
Stinchcombe CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Stoke Orchard CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Low	Low	SWMP report complete
Stonehouse CP	Stroud	Less than 5	Less than 5	75 - 100	High	High	Previously ranked “Medium-Low” – Investigation pending until resources available
Stow-on-the-Wold CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Stroud CP	Stroud	Less than 5	Less than 5	Greater than 100	High	High	Study completed
Sudeley CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Swell CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Swindon Village Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Medium-Low	-	Scheme complete
Syde CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Taynton CP	Forest	Less than 5	Less than 5	50 - 75	Low	Low	-
Teddington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Temple Guiting CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Tetbury CP	Cotswold	Less than 5	Less than 5	75 - 100	Medium-Low	Medium-Low	Study completed
Tetbury Upton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Tewkesbury CP	Tewkesbury	5 - 25	5 - 25	50 - 75	High	High	Funded scheme in progress
Tibberton CP	Forest	Less than 5	Less than 5	50 - 75	Low	Low	-
Tidenham CP	Forest	Less than 5	Less than 5	75 - 100	Medium-Low	Medium-Low	Study completed
Tirley CP	Tewkesbury	5 - 25	5 - 25	50 - 75	Medium-Low	Medium-Low	Funded scheme in progress
Toddington CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Low	Low	-
Todenham CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Tuffley Ward	Gloucester	Less than 5	5 - 25	5 - 25	Low	Medium-Low	Funded scheme in progress
Turkdean CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Twigworth CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	SWMP report complete
Twynning CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Uckington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Uley CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Up Hatherley Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Low	-
Upleadon CP	Forest	Less than 5	Less than 5	50 - 75	Low	Low	-

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Parish or Ward	District	FDR number of properties internally flooded	FDR number of properties affected	uFMfSW number of high risk (in 30 year) properties	Calculated Risk*	Revised calculated risk*	Actions
Upper Rissington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Upper Slaughter CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Upton St. Leonards CP	Stroud	Less than 5	Less than 5	75 - 100	Low	Medium-Low	-
Warden Hill Ward	Cheltenham	Less than 5	Greater than 100	Less than 5	Medium-Low	Medium-Low	-
West Dean CP	Forest	Less than 5	Less than 5	Greater than 100	Medium-High	Medium-High	Study completed
Westbury-on-Severn CP	Forest	Less than 5	Less than 5	Greater than 100	High	High	Study completed
Westcote CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Westgate Ward	Gloucester	Less than 5	Less than 5	5 - 25	High	High	Funded scheme in progress
Weston Subedge CP	Cotswold	Less than 5	Less than 5	75 - 100	Medium-Low	-	Scheme complete
Westonbirt with Lasborough CP	Cotswold	Less than 5	Less than 5	50 - 75	Low	Low	-
Wheatpieces CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	SWMP report complete
Whiteshill and Ruscombe CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Low	-
Whitminster CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Whittington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Wick Rissington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Willersey CP	Cotswold	Less than 5	Less than 5	50 - 75	Low	Low	Study completed
Winchcombe CP	Tewkesbury	Less than 5	Less than 5	Greater than 100	Medium-High	Medium-High	Scheme complete
Windrush CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Winson CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Winstone CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Withington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Woodchester CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Woodmancote CP	Tewkesbury	Less than 5	Less than 5	75 - 100	Medium-Low	Medium-Low	Scheme identified - Provisional funding
Woolaston CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Wotton-under-Edge CP	Stroud	Less than 5	Less than 5	Greater than 100	High	High	Study completed
Yanworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Abbeydale Ward	Gloucester	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-Low	Funded scheme in progress
Adlestrop CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-

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## 4. Appendix

### 4.1. Table of definitions

**Table 4-1 Table of definitions**

	Definition
FDR	Flood Data Register – An application used by the LLFA to record property flooding
FDR number of properties internally flooded	The number of properties recorded on the LLFA's Flood Data Register (FDR) that have been reported to have had a flooded living space (e.g. living room, bedroom, kitchen, conservatory) and excludes outbuildings (e.g. Garages and sheds)
FDR number of properties affected	The number of properties recorded on the LLFA's Flood Data Register (FDR) to have been affected by flooding. This includes the flooding of outbuildings, gardens and driveways.
Calculated Risk	The calculated level of risk from all sources of flooding relative to all parishes within Gloucestershire
Revised Calculated Risk	The calculated level of risk from all sources of flooding relative to all parishes within Gloucestershire after considering if a substantive flood alleviation scheme has been completed to reduce the flood risk.
<i>Actions (see below for description of each action)</i>	The current or existing flood risk related actions that have been undertaken for each parish. The options are
Scheme complete	A substantial flood alleviation scheme has been completed that the LLFA has fully funded or contributed to
Funded scheme in progress	A feasible scheme has been fully funded and is currently being implemented.
Study in progress	The LLFA is producing or has commissioned a study to understand the flood risk for this parish, the mechanisms for the flood risk or potential scheme.
SWMP report complete	The LLFA has produced Surface Water Management Plans (SWMP) across six key locations across Gloucestershire, which are now complete. The parish has been included in the SWMP study boundary
Scheme identified – Funding required	A feasible scheme has been developed, however it is currently unfunded or the LLFA has not financially contributed to it due to its lack of viability and/or external funding.
Scheme identified – Provisional funding	A feasible scheme has been developed and is progressing, however requires further funding
Previously ranked as "x"	This denotes a change in rank of the parish since the previous rendition of the prioritisation process, and has not had a scheme or investigation carried out since the change. The LLFA will pursue an investigation as and when funds allow.
uFMfSW	Updated Flood Maps for Surface Water – Most recent model outputs generated by modelling carried out nationally by the Environment Agency that utilises the latest technology and advances in flood risk science.

## 4.2. Parish Prioritisation Methodology Summary

13. The score of the Prioritised Parishes has been based on three pools of data: modelled flood risk, historic data, and programme of works. The data used for each pool and purpose can be found in Table 4-2

**Table 4-2 Parish Prioritisation methodology - Data pool, used datasets and data use reason**

Data Pool	Dataset used	Purpose
Modelled flood risk	EA Fluvial flood risk - Flood Zone 2 - Flood Zone 3	To determine the number of properties at risk from fluvial flooding for each parish or ward in each flood zone
	Updated Flood Maps for Surface Water (uFMfSW) - uFMfSW 1 in 30 zone - uFMfSW 1 in 100 zone - uFMfSW 1 in 1000 zone	To determine the number of properties at risk from surface water flooding for each parish or ward in each flood zone
	EA groundwater flood risk	To determine the number of properties at risk from groundwater emergence.
Historic flood risk	Gloucestershire County Council's Flood Data Register (FDR) – exported in: September 2015	To determine the number of properties that have been formally recorded by GCC to have flood internally
Programme of works	Programme of works – As of September 2015	To understand if a scheme(s) or studies have or will be implemented for a parish.

14. Each dataset holds additional information (i.e. sub-data) which has been utilised to determine the flood risk of each parish. Using the sub-data made it possible to determine for each parish and ward the source of flooding, an estimation of the number of properties at flood risk for different magnitude events, and the number of reports of internal and external flooding to properties and commercial buildings.

15. A scoring matrix (Table 4-3) has been developed to provide a means of objectively measuring the level of risk in each sub-data for every parish and ward. The score is weighted according to the LLFA's priorities for addressing flood risk. A final "prioritisation score" is produced for each parish and ward by summing the weighted sub-data scores. A description of the level of risk has been given to every parish and ward based on the final score rank, as per Table 4-4.

16. The Programme of Works data pool was used to determine if a scheme had been completed in a parish to address known flood issues. Due to many uncertainties with flood alleviation scheme, a parish that has a completed scheme is not omitted entirely from the prioritisation process. Instead, the original risk is documented under the "Calculated Risk", and the prioritisation of all parishes and wards is revised i.e. "Revised calculated risk". If new reports of flooding are raised and recorded by the LLFA on the flood data register or new modelling becomes available, the revised score will adjust accordingly.

Table 4-3 Parish Prioritisation methodology - scoring matrix and weightings

Dataset	Sub-data used	Thresholds and scoring												Weighting
		Number of properties	Score	Number of properties	Score	Number of properties	Score	Number of properties	Score	Number of properties	Score	Number of properties	Score	
Environment Agency Flood Zones (Fluvial)	Flood Zone 3 (1 in 100 yr boundary or 0.1% Annual Event Probability)	<5	0	5<25	2	25<50	4	50<75	6	75<100	8	100+	10	1
	Flood Zone 2 (1 in 1000 yr boundary or 1.00% Annual Event Probability)	<5	0	5<25	2	25<50	4	50<75	6	75<100	8	100+	10	0.75
Updated Flood Maps for Surface Water (Surface water)	1 in 30 year event (3.33% Annual Event Probability)	<5	0	5<25	2	25<50	4	50<75	6	75<100	8	100+	10	1
	1 in 100 year event (1% Annual Event Probability)	<5	0	5<25	2	25<50	4	50<75	6	75<100	8	100+	10	0.75
	1 in 1000 year event (0.1% Annual Event Probability)	<5	0	5<25	2	25<50	4	50<75	6	75<100	8	100+	10	0.5
Environment Agency groundwater flood risk	Properties located within 1km square where less than 25% of the area is at a risk of groundwater flooding.	<1	0	1<200	2	200<400	4	400<600	6	600<800	8	800+	10	0.75
	Groundwater Flooding - Properties located within 1km square where equal to or more than 25% and less than 50% of the area is at a risk of groundwater flooding.	<1	0	1<200	2	200<400	4	400<600	6	600<800	8	800+	10	0.5
	Groundwater Flooding - Properties located within 1km square where equal to or more than 50% and less than 75% of the area is at a risk of groundwater flooding.	<1	0	1<200	2	200<400	4	400<600	6	600<800	8	800+	10	0.3
	Groundwater Flooding - Properties located within 1km square where more than 75% of the area is at a risk of groundwater flooding.	<1	0	1<200	2	200<400	4	400<600	6	600<800	8	800+	10	0.15
FDR (Historic)	Number of residential properties flood internally	<5	0	5<25	2	25<50	4	50<75	6	75<100	8	100+	10	1
	Number of residential properties affected by flooding	<5	0	5<25	2	25<50	4	50<75	6	75<100	8	100+	10	0.75
	Number of commercial properties flood internally	<5	0	5<25	2	25<50	4	50<75	6	75<100	8	100+	10	0.75
	Number of commercial properties affected by flooding	<5	0	5<25	2	25<50	4	50<75	6	75<100	8	100+	10	0.5
Programme of works	Actions taken within parish	n/a												

**Table 4-4** Parish Prioritisation methodology - Risk description and associated rank

Flood risk description	Parish rank based on objective weighted score
High risk	1 – 20
Medium –High Risk	20 – 50
Medium-Low Risk	50 – 100
Low Risk	Greater than 100