

Local Flood Risk Strategy 2022-2027



Section 2: Action Plan

2. The North Yorkshire Local Flood Risk Strategy Action Plan

2.1 What is the Action Plan?

The Local Flood Risk Management Strategy Action Plan sets out the practical measures that the county council and partners will deliver to help manage flood risk. The action plan has been produced by the county council as a specific element of the Local Strategy, and as such it captures many of the tasks and activities associated with delivering our Flood Risk Management functions.

This Action Plan builds upon the policy framework set out in the accompanying document ‘Managing North Yorkshire’s Flood Risk’, and is a living document which is regularly updated and amended to reflect the progress we are making and other necessary changes to the way we deliver flood risk management services.

3. How will updates to the action plan be managed?

Regular updates to the Action Plan will be carried out to reflect significant progress or changes to specific actions. Interim reviews of both the Action Plan and the Policy Framework will also be performed annually. This document contains a review of the Action Plan (first published in 2015) and policy framework in line with the six-year cycle set out in the Flood Risk Regulations.

The legislative landscape has changed with the publication of the revised National Flood and Coastal Erosion Risk Management Strategy (FCERM Strategy) for England and our strategy needs to remain consistent and relevant.

The FCERM strategy has a greater focus on resilience and adaptation measures to acknowledge the real and ongoing impact of climate change which are to be reflected in our objectives and action plan. In addition, the Environment Agency will be updating their Flood Risk Management Plans (FRMP) and we will update our action plans to ensure that they are fully aligned and complement one another.

4. How is the action plan structured?

The action plan has been developed and structured such that it links together and coordinates the actions of all risk management authorities. Each action is linked to our objectives, and is also related to the measures identified in the Flood Risk Regulations 2009.

5. Integration with EA Flood Risk Management Plans (FRMP)

This is the second edition of this Action Plan and precedes the full development, consultation process and publication of the FRMPs produced by the EA for compliance with The Flood Risk Regulations 2009).

The county council has identified considerable benefits from aligning our Local Strategy flood risk management action plan with those required for the Flood Risk Management Plans, particularly in terms of resource and investment planning. A review of our action plan will be undertaken once the outcomes of the updated Flood Risk Management Plan (FRMP) for 2021-2027 have been published). This will include aligning with the FRMP measures for North Yorkshire.

6. Actions for managing flood risk

There are different approaches to managing flood risk depending on the probability and consequences, as well as the technical nature of the risk. We have used the same structure that is used in the EU Floods Directive and that is being used in the development of the [second cycle FRMPs](#). This will help with the integration of solutions, and make feedback and monitoring more efficient. The following terms are used to group and describe the kind of actions that can be pursued:

- **Prevention of risk:** for example, by not building homes in areas that can be flooded we can prevent risks from arising in the first instance.

- **Protection from risk:** for example, by using water proof boards over doors and airbricks people can protect their properties from the damage caused by flood water.
- **Preparing for risk:** for example, by improving awareness of flood risk, or by providing warning and forecasting for floods, people can take precautions to safeguard their property.
- **Recovery and Review of risk:** for example, by improving access to tradesman and other services, recovery after flooding can be improved.

To manage flood risk effectively it can take a single action, or a combination of actions, and this depends on many factors. This includes the complexity of the risk, what's at risk, and also affordability of the action. All these factors need to be considered before actions can be implemented effectively. In order to ensure that all of these factors have been properly assessed, and to ensure the most equitable and effective distribution of resources, it is important to ensure that appropriate mechanisms for information capture, assessment, prioritisation and delivery are in place.

7. Our Priority Objectives

This plan focuses on the development and delivery of those sources of information and delivery mechanisms, relating each action to the four broad categories of measures above, and to the six North Yorkshire Flood Risk Management priority objectives:

1. Individuals and communities are empowered to take a proactive role in managing flood risk
2. Improved knowledge and understanding of flood risk and management responsibilities for all stakeholders, communities and the media
3. Promote Sustainable and appropriate development
4. Improved knowledge of watercourse networks and drainage infrastructure
5. Flood risk management measures that deliver social, economic and environmental benefits
6. Best use of all potential funding opportunities to deliver flood risk management measures

Details about our priority objectives can be found in the Policy Framework in Section 1 of our Flood Risk Strategy.

8. Local Flood Risk Strategy Actions

The first action plan published in 2015 contained a range of actions. In accordance with the Flood Risk Regulations (2009) we are required to assess the progress made towards implementing the actions. Some of the actions from the 2015 action plan are still relevant and ongoing and are included in the updated action plan, whilst others are completed and have been omitted from the updated action plan. A summary of the first action plan and progress made has been included in [Annex 1](#).

The updated Action Plan is overleaf:

	Source	Relevant Local Strategy Objective/s	Action	Timescale	Priority	Lead Organisation	Support Organisation (s)	Estimate cost range
Prevention	Surface water (SW)	2 and 4	Collate and analyse data on local flood risk. Use this real life information to validate and augment most recently EA modelling data and flood forecasting data.	Ongoing	High	NYCC	EA	£25k – 100k
	Surface water, ground water & ordinary water courses (SW/GW/OWC)	3 and 5	Continue to provide input to Local Development Plans prior to and after LGR. Respond to requests for input on planning consultations for major developments in accordance with national planning policy. Responses should reflect local community knowledge/comments on drainage and flood risk where there is a risk to people, property or infrastructure.	Ongoing	Medium	Local Planning Authorities	NYCC as LLFA	£5k
	Surface water, ground water & ordinary water courses (SW/GW/OWC)	3	Undertake periodical review of the North Yorkshire SuDS Design Guidance, which follows the most up to date guidance in response to local and national policies e.g. climate change, green infrastructure and water quality recognising the 4 pillars of SuDS; Water Quantity (flooding), Water Quality (pollution), Amenity and Biodiversity.	Ongoing	Medium	NYCC	Local Planning Authorities	£10k

	Source	Relevant Local Strategy Objective/s	Action	Timescale	Priority	Lead Organisation	Support Organisation (s)	Estimate cost range
Protection	SW/GW/OWC	6	Maintain a prioritised programme of flood alleviation and resilience projects in the context of the Regional Flood and Coastal Committee Medium Term (6 year) programme and other funding pots/opportunities. This will include Risk Management Authorities identifying opportunities to develop and co-fund/collaborate on projects to make best use of resources/funding opportunities/skills.	2022 onwards Annually reviewed	High	LLFA	RFCC/EA	£250k
	SW/GW/OWC	2 and 4	Improve and maintain the protocol and process for the sharing, recording and monitoring of assets implicated in significant local flood risk and inform communities, landowners and businesses of their maintenance responsibilities. This should include supporting partners in registering assets.	2022 onwards	Medium	LLFA	All RMAs	£5k

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	Source	Relevant Local Strategy Objective/s	Action	Timescale	Priority	Lead Organisation	Support Organisation (s)	Estimate cost range
Preparedness	All sources	1 & 4	Develop community engagement/software tools e.g. face to face and online to enable organisations and communities to provide information (before, during and after flood events) to better inform investigations/post flood work and assist communities in engaging with the decision makers in relation to flood risk and resilience.	2022-2027	Medium	LLFA	All RMAs	£10k
	All sources	2 and 4	Work with neighbouring LLFAs and partners to provide catchment based approaches to tackle flood risk across administrative boundaries. This will include working with landowners in the upstream areas and communicating benefits to the downstream beneficiaries e.g. Natural Flood Management	2022-2027	High	LLFA	EA/Neighbouring Authorities	£40k
	All sources	2	The LLFA will work with the Local Resilience Forum to ensure that their respective plans and programmes are aligned and key messages of public awareness of flood anticipation, preparation and resilience are joined up and consistent.	Ongoing	Medium	LLFA	Local Resilience Forum	£5k per annum
	All sources	1 & 2	Continue to promote property flood resilience; develop a pipeline of property flood resilience schemes across the County; provide ongoing support to communities through web support/workshops/meetings.	Ongoing	High	LLFA	EA	£100k per year

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	Source	Relevant Local Strategy Objective/s	Action	Timescale	Priority	Lead Organisation	Support Organisation (s)	Estimate cost range
Preparedness	All sources	2	Develop and maintain a more integrated partnership approach in response to flooding of people, properties and infrastructure. This should include: a clear understanding and alignment of those organisations in terms of roles and responsibilities; who to contact before, during and after a flood event and improved integration and support (including the use of technology) to enable the sharing of data and information to avoid duplication and make the best use of resources.	Ongoing	High	LLFA	All RMAs	£10k per year
	All sources	1 & 6	Improve and maintain the LLFA Flood Risk Management web pages within the NYCC website – with relevant information and links to partner organisations/other media outlets and signposting e.g. best practice case studies; success stories, funding opportunities/advice for communities. This should include an accessible summary of the local flood risk management strategy.	Ongoing	Medium	LLFA	All RMAs	£4k per annum
	All sources	1 & 2	Ensure future communication strategies reflect changes to local political landscapes e.g LGR.	Ongoing	High	LLFA	RMAs - District/Borough Councils	£5k per annum
	All sources	1 & 2	Continue to develop and input into Resilience and Emergencies Team (RET) Response Plans to reflect new national resilience strategies.	Ongoing	Medium	LLFA	Local Resilience Forum	£5k per annum

Annex 1

	Source	Relevant Local Strategy Objective/s	Action	Timescale	Priority	Lead Organisation	Support Organisation (s)	Estimate cost range	Update 2022
Prevention	Surface water (SW)	4	Collate and analyse data on local flood risk. Use this real life information to validate and augment most recently EA modelling data.	Ongoing	High	NYCC	EA	£25k – 100k	<p>Since 2015 the LLFA have received approximately 700 reports of internal flooding to properties and critical infrastructure from all sources of flooding and published 12 Flood Investigations reports. This real life information has been used to identify communities at risk and implement projects and programmes within affected communities.</p> <p>A review of the 'Risk of Flooding from Surface Water' mapping for Scarborough was undertaken and updated as part of the Defra funded 'Boosting Surface Water Action'.</p>
	SW	3 and 5	Develop standards, guidance and processes required to implement Schedule 3 of FWMA (SuDS and SABs)	2011-2015	High	NYCC	District Councils	£250k	Schedule 3 of the Flood and Water Management Act 2010 was not enacted by Government. Instead, NYCC as LLFA (with responsibility for local flood risk) became a Statutory Consultee to Planning for Major Developments on the 15 th April 2015.
	Surface water, ground water & ordinary water courses (SW/GW/OWC)	3 and 5	Provide input to Local Development Plans. Respond to requests for input on planning consultations.	Ongoing	Mod	Local Planning Authorities	NYCC as LLFA	£5k	<p>NYCC as LLFA has a team of officers to respond to all Major Planning Consultations and Local Development Plans in relation to surface, ground and ordinary watercourse flood risk. NYCC receive between 450 and 650 applications annually for comment.</p> <p>NYCC published the 'NYCC SuDs Design Guidance' to reflect the requirements of national policy and technical standards relating to the design of Sustainable urban Drainage Systems (SuDS). This guidance provides support to Local Planning Authorities, developers and stakeholders and is available on the County Council website. It has been updated in 2018 to reflect changing policy and technical requirements.</p>

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	Source	Relevant Local Strategy Objective/s	Action	Timescale	Priority	Lead Organisation	Support Organisation (s)	Estimate cost range	Update 2021
Protection	SW/GW/OWC	6	Maintain a prioritised programme of flood alleviation projects in the context of the Regional Flood and Coastal Committee Medium Term (6 year) programme	2014 onwards Annually reviewed	High	LLFA	RFCC/EA	£50k	<p>NYCC have worked closely with partner Risk Management Authorities to deliver flood alleviation schemes over the 6 year programme (2015-2021). The programme is reviewed and updated on an annual basis, based on identified risk. Funding for these schemes has been through a combination of Council Capital (District and County Council) Defra Grants such as Flood Defence Grant in Aid (FDGiA) and Local Levy Funding.</p> <p>Some highlights of the works carried out to date are:</p> <ul style="list-style-type: none"> • Malton/Old Malton/Norton Flood Alleviation Scheme – This has included the delivery of Property Flood Resilience to around 150 properties and the improvement in pump infrastructure to improve the safety, efficiency and deployment of the pump infrastructure. • Administered flood recovery grants for over 230 properties as a result of county wide flooding in 2015. • Upper Dales - £100k (LEP Contribution). A Feasibility study has been completed for flood alleviation/resilience for 9 villages/towns as a result of flooding that occurred in 2019 and prior to this. • Brotherton Culvert Improvements following repeated flooding events to properties. <p>Of note is the £11.5 million of funding received for for the Tadcaster Flood Alleviation which has experienced flooding in 2015 and repeated again in 2022. (This funding was not secured by North Yorkshire County Council)</p>

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	Source	Relevant Local Strategy Objective/s	Action	Timescale	Priority	Lead Organisation	Support Organisation (s)	Estimate cost range	Update 2021
Protection	SW/GW/OWC	6 and 5	Deliver a programme of prioritised catchment level flood risk management projects	2015-2020	High	LLFA	EA/Districts	TBC (£50million programme over 10 years identified)	The Lead local Flood Authority changed it's approach after initial cost benefit analysis showed that the creation of catchment scale plans would not be cost beneficial in terms of funding through Flood Defence Grant in Aid (FDGiA). Therefore the evidence base for identifying and delivering flood risk schemes has been based on 700 (approx.) internally flooded properties included in the S19 Flood Investigation Reports.
	SW/GW/OWC	4	Develop a protocol and process for the recording and monitoring of assets implicated in significant local flood risk	2014/15	Mod	LLFA	All RMAs	£50k	The County Council's protocol involves the recording of assets that are associated with the internal flooding of property or critical infrastructure (as defined by the NYCC Flood Investigation Protocol). The record of assets include identifying details of ownership and condition.

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	Source	Relevant Local Strategy Objective/s	Action	Timescale	Priority	Lead Organisation	Support Organisation (s)	Estimate cost range	Update 2021
Preparedness	All sources	2 and 4	Create Catchment Plans – providing a high level assessment of flood risk and potential risk management actions/measures for each catchment within NYCC authority area	2013-2015	High	EA	NYCC	£50k	The LLFA changed it's approach after initial cost benefit analysis showed that the creation of catchment scale plans would not be eligible for funding through Flood Defence Grant in Aid (FDGiA). Therefore the evidence base for identifying and delivering flood risk schemes has been through the 700 internally flooded properties included in the S19 Flood Investigation Reports.
	All sources	2 and 4	Work with neighbouring LLFAs to Create/provide input to Catchment Plans for those catchments which cross into other authority areas – providing a high level assessment of flood risk and potential risk management actions as appropriate	2014 - 2020	High	LLFA	EA/Neighbouring Authorities	£20k	<p>York City Council and North Yorkshire County Council (NYCC) were successful in progressing to the final stage of the Government's 'Flood and Coastal Resilience Innovation Programme' which will unlock up to £6 million. A project is currently being developed by York City Council and NYCC to better protect properties in York and will include targeting landowners with financial incentives to flood land in the upstream catchment. This projects learning outcomes will be utilised to identify opportunities to replicate this approach within other catchments.</p> <p>NYCC support and part fund the Derwent Catchment Partnership which delivers a catchment based approach to protect the water environment including reducing flood risk.</p> <p>NYCC are also a partner within the Dales to Vale Rivers Network which provides a catchment approach to the river network.</p> <p>NYCC are also a partner of the Wharfe Catchment Partnership.</p>
	All sources	2	Provide support and updates to the Local Resilience Forum Response Plans	Ongoing	Medium	LLFA	All RMAs	£5k per annum	NYCC as LLFA have worked closely with the Emergency and Resilience Team at NYCC and members of the Resilience forum to support communities and ensure that they are more resilient to local flood risk. A good example of the County Councils close working relationship is the partnership with the County Council resilience/operational teams in supporting communities before, during and after the flood events in Malton.
	All sources	1	Develop a Flood Risk Management Toolkit of practical measures that can be used to support local communities to manage flood risk	2014/15	Medium	LLFA	All RMAs	£30k	<p>The Defra funded 'Yorkshire Property Flood Resilience (PFR) Pathfinder' project has produced a range of tools and resources to support local communities within North Yorkshire.</p> <p>In addition, there are also a range of national, regional and local organisations and associated websites that provide practical help and advice to communities within North Yorkshire.</p>

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	Source	Relevant Local Strategy Objective/s	Action	Timescale	Priority	Lead Organisation	Support Organisation (s)	Estimate cost range	Update 2021
Preparedness	All sources	1 and 5	Develop a programme of rollout of the Flood Risk Management Toolkit to communities across the authority area	2015/2020	Medium	LLFA	All RMA's	£50k per annum	The Defra funded 'Yorkshire Property Flood Resilience (PFR) Pathfinder' project has produced a range of tools and resources to support local communities within North Yorkshire. In addition, there are also a range of national, regional and local organisations and associated websites that provide practical help and advice to communities within North Yorkshire.
	All sources	1 and 5	Support Schools and other educational facilities to increase public awareness of flood anticipation, preparation and resilience	Ongoing	Medium	LLFA	Emergency Planning / EA	£2k per annum	The Defra funded 'Yorkshire Property Flood Resilience (PFR) Pathfinder' project has produced a range of tools and resources to support local communities within North Yorkshire. In addition, there are also a range of national, regional and local organisations and associated websites that provide practical help and advice to communities within North Yorkshire. These have been listed on the North Yorkshire website.
	All sources	1	Improve and maintain the LLFA Flood Risk Management web pages with the NYCC website – with relevant information and links to partner organisations	Ongoing	Medium	LLFA		£2k per annum	The website has been updated on an ongoing basis. This includes the uploading of flood investigations reports, updates to protocols and guidance.
	Ground Water (GW)	2 and 4	Develop a pilot monitoring and warning system for Ground water flood risk - with a view to deployment at appropriate key locations across the county	2014/16	Medium	LLFA	EA / District LA	£30k	Following significant flooding in Malton and Norton from a combination of surface water, ground water and main river NYCC as Lead Local Flood Authority have worked alongside partners to develop an early warning system for communities to better prepare for flooding from these sources.