

Broadway Parish Community Flood Plan



Introduction

The purpose of the Community Flood Plan is to:

- build awareness and preparedness for flooding.
- Define areas at risk of flooding and actions to be taken by those at risk before, during and after flooding.
- Set out what warnings are given of impending flooding and how those at risk receive them
- Set out an organisational structure for communicating flooding risk to the community and emergency services together with a contact list of individuals and organisations assisting with the operation of the plan.

This action plan is a 'living document' that will be regularly monitored and reviewed by Broadway Parish Council to make sure that actions are delivered, and new information and ideas are incorporated. The plan will be available on the Broadway Parish Council website and will be distributed to clubs, groups and organisations in Broadway.

Scope

This plan deals with responses to the effects of possible flooding in Broadway; it does not deal with measures to alleviate flooding. It deals with actions by the local community; it does not deal with those of the emergency services and other outside organisations who play a role in responding to flooding. Residents are encouraged to keep abreast of Environment Agency Flood information: Environment Agency Flood Warnings Summary: <https://flood-warning-information.service.gov.uk/warnings>

Background

The main sources of flooding in Broadway include surface water runoff (or 'pluvial' flooding), groundwater (or 'fluvial') flooding and sewer flooding.

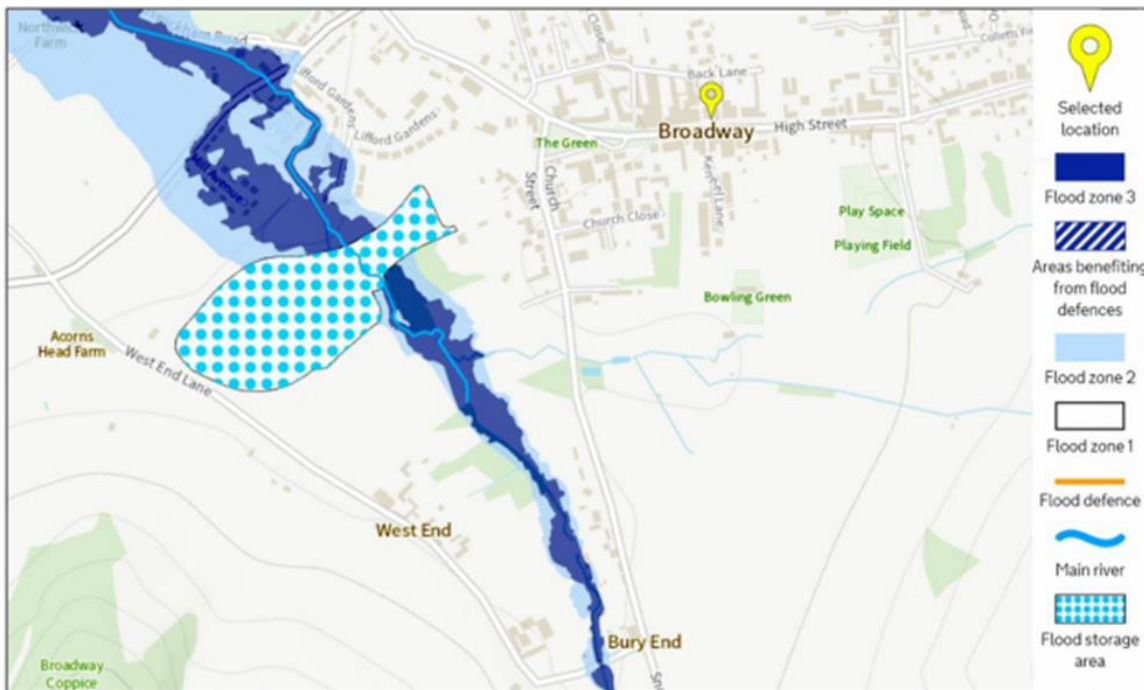
Pluvial flooding is usually caused by intense (typically greater than 30mm/hr) rainfall) or prolonged rainfall leading to surface water flowing over the land. Surface water flooding problems can be inextricably linked to issues of poor drainage, or drainage blockage by debris, and sewer flooding. There is a watercourse flowing past the southern edge of Broadway before joining the Badsey Brook, which flows past the western edge of the village. The Environment Agency has identified Badsey Brook as a **Rapid Response Catchment** where flooding can occur in rivers or streams without a significant period of warning time. The classification reflects the flashy character of the brook and the threat it poses

Fluvial flooding occurs when the water table rises above the surface of the ground and tends to occur after periods of sustained rainfall and can last for long periods of time. All flooding from rivers is fluvial

Sewer Flooding occurs when intense rainfall/river flooding overloads sewer capacity (surface water, foul or combined).



Environment Agency Pluvial (Surface Water) Flood Risk Map for Broadway, showing major streams. High flood risk areas in dark blue.



Environment Agency Fluvial (River) Flood Risk Map for Broadway, showing the new Badsey Brook Flood Risk Management Scheme (Blue Dotted Area). High flood risk area in dark blue.

Historic recorded flood events in Broadway

Broadway recorded floods in 1953, 1968, 1985, 1998, 2001 and July 2007.

In 1998 117 properties were flooded in areas of High Street, Leamington Road, Sandcroft Avenue, Lime Tree Avenue, Smallbrook Road, Springfield Lane, Mill Avenue and Cheltenham Road.

In 2007 heavy rainfall caused sewer, pluvial and fluvial flooding affecting over 168 homes and 275+ residents. Areas flooded included Mill Avenue and The Old Mill, Lifford Gardens, the B4632, Childswickham Road and Pry Farm. High Street, Back Lane and Averill Close. Sandcroft Avenue Leamington Road and Springfield Lane, Coneygree Lane and St Eadburgha's church, West End/Snowhill Road, Cotswold Conference Centre, Leedons Park. 103 houses reported flood damage, 40 people were evacuated on the night.30 returning next day, 16+ Businesses suffered financial loss, St Eadburgha's church suffered serious damage.

Preventative Measures

Historically, flooding in the High Street caused by two streams flowed on either side was addressed by coving the streams in stone with occasional manholes to allow access to clean water. A reservoir built at the top of the High Street added to flooding problems. The highway drainage system through the High Street was open ditches which were culverted over time with a system of unknown condition. Three holding tanks were erected to address flooding in the Upper High Street.

Recent Preventative Measures

- Water courses inspected by Wychavon District Council and action taken where necessary
- Preventative work undertaken to drainage system at Shear House car park
- Clearing drains and gullies on a regular basis, removing blockages, debris etc.
- Badsey Brook flood alleviation scheme was opened in October 2018 and comprises of a flood storage area which reduces flood risk to 272 homes and businesses along Badsey and Bunches Brook in Broadway, Childswickham and Murcot. The scheme consists of an earth embankment and a concrete control structure to hold water back within the flood storage area. This will remain dry during normal conditions. During periods of high rainfall, the online control structure within the channel will limit the amount of water flowing down the brook. The storage area can hold up to 135,000 cubic metres of water (approximately the size of 54 Olympic swimming pools) although the scheme will provide significant benefits in terms of reducing flood risk from the Bunches /Badsey Brook there is still the residual risk of flooding from other sources.

Locations at risk of flooding (based on previous floods)

Using flood data from 2007, dwellings that could be impacted by flooding depending upon the severity of the flood are:

Area	Location at risk
1	Wells Garden, Leamington Road, Sandcroft Avenue
2	Bibsworth Avenue
3	North of Bypass Roundabout

4	Upper High Street
5	Lower High Street, Springfield Lane
6	Cheltenham Road – Highgate Court, Old Mill, Lifford gardens, Mill Avenue, Old Bakery
7	Coneygree lane, Pye Corner
8	Snowhill Road/Berry End
9	Leedons Park, Broadway Park
10	West End

The Environment Agency information is that the Badsey Brook scheme is expected to reduce the level of flood risk to a 1.3% chance in any one year for 57 properties in Broadway.

If residents wish to investigate their individual flood risk, they should visit <https://www.gov.uk/check-flood-risk> It is advisable for residents in the at risk areas to sign up to the Environment Agency 'Flood Alerts'. Residents can sign up to receive advance warning of flooding by telephone, mobile by calling Flood Warnings Direct on 0345 988 1188 or online at www.gov.uk/sign-up-for-flood-warnings.

Actions to be taken before/during a flood

This flood plan will be activated by the Flood Co-ordinator on receipt of a 'Flood Alert'. Volunteers will ensure that actions are taken appropriate actions to the conditions at the time.

- **Communication** - Once a decision has been made to implement the action plan by the Flood Co-ordinator Information on imminent flooding/need to set actions in place/evacuate will be made via social media- Broadway website, Broadway Notice board, Church WhatsApp and by using a 'telephone tree' to speak to homeowners at risk.
 - Check Environment Agency website Environment Agency: <https://www.gov.uk/government/organisations/environment-agency>. National Flood Forum: www.floodforum.org.uk.
 - Contact Environment Agency to inform them that the village flood plan has been activated.
 - Contact Wychavon District Council emergency liaison to inform them that the village flood plan has been activated.
 - Contact Local Fire Station
 - Contact groups/organisations within the village to appraise them of the current situation
 - Broadway First School and St Mary's Primary School
 - Bredon Court, Pegasus Court and Russell Court
 - New Barn Close Surgery
 - Hotels/B&Bs, Businesses/shops

- **Place of Safety** - The Lifford Hall has been designated as a 'Place of Safety'. There is limited car parking is available at the back of the hall. A designated volunteer will contact the Lifford Hall key holder in preparation for opening the hall for visitors to the village who cannot get home and for residents who need to evacuate their homes. Whilst every effort will be made to open the community place of safety before the

event reaches its peak, due to the rapid nature of the onset of flooding, this may not be possible

- Collect provisions (tea, coffee, biscuits etc) for those evacuated to the Lifford Hall.
- **Road Signs** If conditions dictate, volunteers to put relevant 'Road Closure' signs in place as required.

Contact Information

A detailed list of volunteers' contact information is held by the Flood Co-ordinator and the Parish Clerk

Flood Co-ordinator *to be confirmed*

Useful numbers:

- Environment Agency Floodline: 0345-988-1188 (quick-dial add 032341)
- Environment Agency Incident Hotline: 0800-80-70-60
- Broadway Parish Council 01386 854813
- Wychavon District Council community development officer 01386 565235 (office hours) 01562 733180 (out of hours emergency hotline)

Help after the Flood

After a flooding event, Sign Post will act as a base for agency partners to offer advice, guidance and support for anyone who requires it.

Actions to be taken during a flood

ACTION	Description	BY WHOM	CONTACT DETAILS
Communication about flooding to residents/businesses	Telephone, Social media, BBA		
Communication to visitors	Hotel/B&B guests/day trippers		
Contact vulnerable residents			
Contact schools			
Distribution of sand bags, shovels, polythene sheeting	Location of storage (Cotswold building supplies?) Distribution to residents		
Alert local fire brigade	Assistance with evacuation/pumping water?		
Alert doctors surgery	Possible assistance in place of safety or with vulnerable residents		
Open community place of safety (Lifford Hal?)	Contact key holder		
Organise Lifford Hall for arrival of evacuees- blankets, arrange chairs etc	Team of volunteers to set up, provide refreshments etc		
Supplies of coffee/tea/milk/biscuits etc	From shop keepers (Co-op? or prestored in hall?) Soup from restaurants/hotels?		
Flood signage	Distribution on roads		
Stranded visitors unable to access routes home. Direct to place of safety, possible community centre or Lifford Hall?	Inform shops/pubs etc where people can go		

Identification of available resources

List of vulnerable people, properties and locations where early assistance may be required

Organisation	Resource	Number	Location	Notes
<i>e.g. Cotswold Building Supplies</i>	<i>Sand/polythene sheets/shovels/bags</i>	<i>20</i>	<i>Cotswold Building Supplies Leamington Road</i>	<i>When closed, contact</i>

Vulnerable residents, properties and locations

Name	Address	Daytime Telephone	Evening Telephone	Assistance required

Local Volunteers

Name	Address	Daytime Telephone	Evening Telephone	Role