



Forth Local Plan District (LPD 9)

Draft Flood Risk Management Strategy 2021-2027

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The Forth Local Plan District covers around 1,600km² and has a population of approximately 130,000 people. It covers an area from the Loch Lomond and Trossachs National Park in the west to the inner Forth Estuary in the east. The west is more mountainous, with steeper slopes and valleys. The east includes several urban areas in the low-lying, flatter regions. These include Stirling, Alloa, Bridge of Allan, Dunblane, Alva, Menstrie and Tillicoultry. A short coastline of approximately 74km lies to the east.

The area is largely rural with a mixture of agriculture, grasslands and woodlands. There are many lochs and reservoirs including Loch Katrine, Loch Venachar, Lake of Menteith, Loch Lubnaig Loch Voil and Gartmorn Reservoir. The largest river is the River Forth and its tributaries the River Teith and River Devon. There are smaller watercourses in the area that drain the Ochil Hills and flow into the River Devon.

There is a river, surface water and coastal flood risk within the Local Plan District. The area was affected by several large floods, notably in December 2015 as a result of Storms Desmond and Frank and in January 2016 as a result of Storm Gertrude. More recently summer flash flooding from surface water led to widespread impacts in June and August 2019.

Currently it is estimated that there are around 15,000 people at risk from flooding and over 8,000 homes and businesses. This may increase to 23,000 people and 13,000 homes and businesses by the 2080s due to climate change. The expected annual cost of flooding over a long period of time is around £6.6 million.

SEPA lead development of the Flood Risk Management Strategies for Scotland and delivery of flood warning services. Local flood risk management planning for the Forth Local Plan District is led by Stirling Council who are the lead local authority. Other responsible authorities include five more local authorities, Scottish Water, and Loch Lomond and Trossachs National Park Authority. They are supported by Scottish Government agencies including Forestry and Land Scotland, Scottish Forestry and Transport Scotland.

Within this Local Plan District, actions are regularly carried out by SEPA and responsible authorities to help prepare communities for potential flooding and reduce the impact of any flooding that does occur. More information on these actions will be added to this section for 22 March 2021.

Potentially Vulnerable Areas (PVA) were designation in 2018 based on the potential current or future risk from all sources of flooding. This designation was informed by the National Flood Risk Assessment ([link](#)). As part of continued analysis of flood risk, the National Flood Risk Assessment and PVAs will be reviewed every six years to take on board any new information. There are eight PVAs in this Local Plan District. Following sections provide more information on these areas.

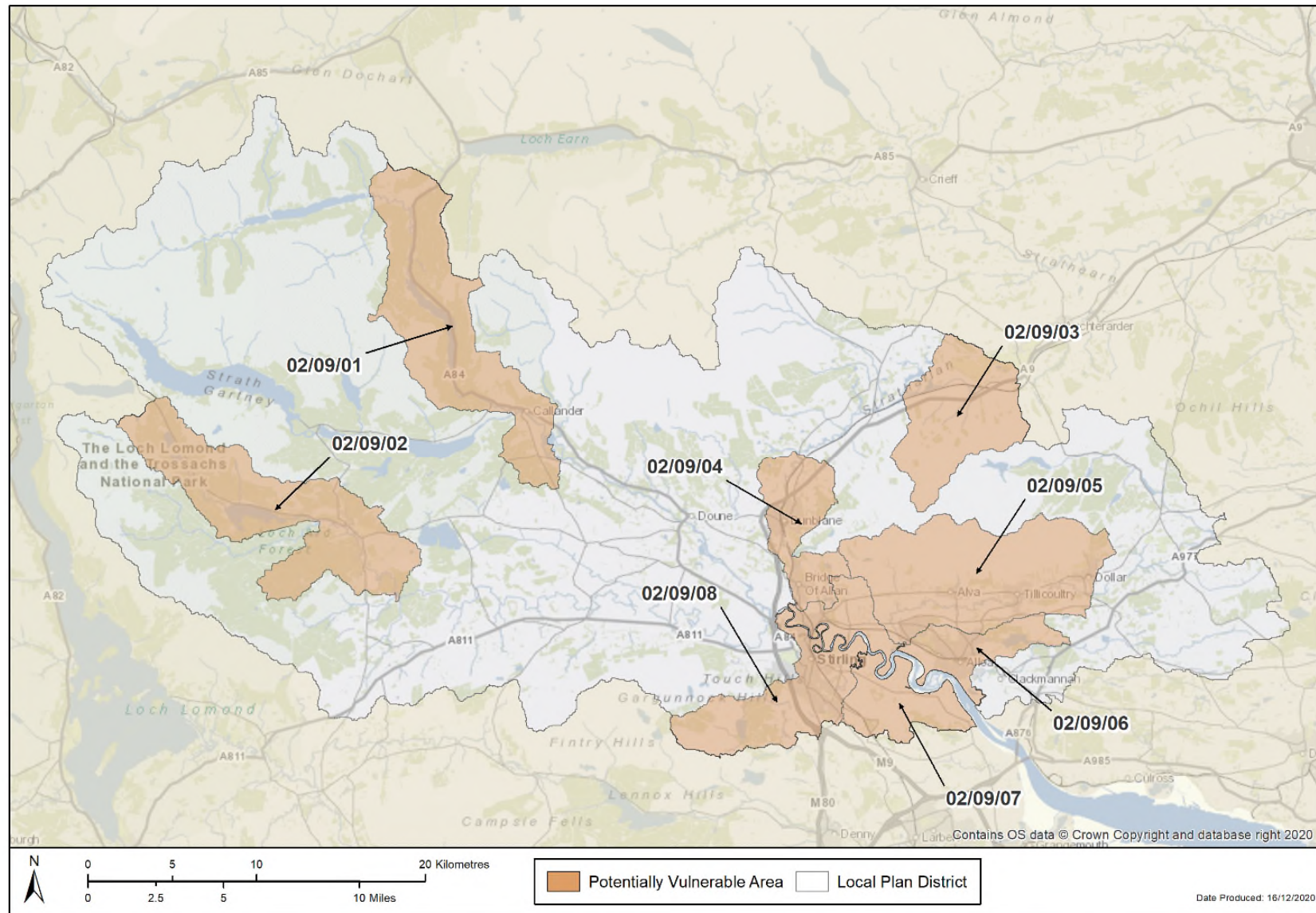


Figure 1. Potentially Vulnerable Areas in Forth Local Plan District

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PVA Ref	PVA NAME	Local Authority
02/09/01	Callander	Stirling
02/09/02	Aberfoyle	Stirling
02/09/03	Blackford	Perth & Kinross
02/09/04	Dunblane and Bridge of Allan	Stirling
02/09/05	Hillfoots Villages	Clackmannanshire
02/09/06	Alloa	Clackmannanshire
02/09/07	South Alloa	Falkirk
02/09/08	Stirling	Stirling

02/09/01 (Callander)

This area is designated as a Potentially Vulnerable Area due to flood risk to Callander, Strathyre and the A84. The main source of flooding in Callander is the River Teith and its tributaries, and there is also a risk of flooding from surface water. There is a long history of frequent flooding in this area. A number of river and surface water floods have been recorded over the last decade, and throughout 2020 when there was flooding of the car park in Callander and the A84.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Strathyre (Target Area 171)
Callander (Target Area 208)

02/09/02 (Aberfoyle)

This area is designated as a Potentially Vulnerable Area due to flood risk to Aberfoyle and the A821. The main source of flooding is the River Forth and Duchray Water, with some risk of flooding from surface water. There is a long history of flooding in Aberfoyle, with recent river and surface water floods.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Aberfoyle (Target Area 184)

02/09/03 (Blackford)

This area is designated as a Potentially Vulnerable Area due to flood risk to Blackford from the Allan Water and small watercourses including Burn of Ogilvie and the Danny Burn. There is some history of flooding. Recently, the A9 in this area flooded during Storm Dennis in 2020.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Blackford (Target Area 198)

02/09/04 (Dunblane and Bridge of Allan)

This area is designated as a Potentially Vulnerable Area due to flood risk to Dunblane and Bridge of Allan from the Allan Water and surface water. Existing flood protection schemes offers protection against frequent river flooding in Bridge of Allan. There is a long history of flooding in this area, with recent river flooding during Storm Dennis.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Bridge of Allan (Target Area 204)
Dunblane (Target Area 223)

02/09/05 (Hillfoots Villages)

This area is designated as a Potentially Vulnerable Area due to flood risk to a number of Hillfoot communities including Alva, Dollar, Menstrie and Tillicoultry. The main sources of flooding are the River Devon, small burns running off the Ochil Hills and surface water. There is a long history of flooding in this area, with recent river and surface water causing flooding of homes, roads and fields.

There are 4 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Alva (Target Area 188)
Dollar (Target Area 221)
Menstrie (Target Area 248)
Tillicoultry (Target Area 260)

02/09/06 (Alloa)

This area is designated as a Potentially Vulnerable Area due to the flood risk to Alloa from surface water and the Brothie Burn. The Brothie Burn culvert plays an important role in flood risk management. There is a history of surface water flooding in this area including flooding to properties.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Alloa (Target Area 186)

02/09/07 (South Alloa)

This area is designated as a Potentially Vulnerable Area due to flood risk to South Alloa from the River Forth. There are a few historical records of flooding in this area from river and surface water.

There is 1 area in this PVA, which has been the focus of further assessment, this is identified below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

South Alloa (Target Area 177)

02/09/08 (Stirling)

This area is designated as a Potentially Vulnerable Area due to flood risk to Stirling and Bannockburn. There is flood risk to Stirling from river and surface water and Bannockburn from surface water. There is a history of flooding in this area, with recent flooding being caused by surface waters.

There are 2 areas in this PVA, which have been the focus of further assessment, these are listed below. Further information on the proposed objectives and actions to manage flood risk within this area will be provided in Phase 2 of the consultation (launching on 22nd March 2021).

List of target areas

Bannockburn	(Target Area 195)
Stirling	(Target Area 258)