

# Ayrshire Local Plan District (LPD 12)

Draft Flood Risk Management Strategy 2021-2027

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# Ayrshire Local Plan District (LPD 12)

## Draft Flood Risk Management Strategy 2021-2027

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The Ayrshire Local Plan District covers around 3,100km<sup>2</sup> and has a population of approximately 370,000 people. The coastline has a length of around 300km from Largs in the North to North Eastern Edge of Lochryan in the south and includes the Isle of Arran and Great Cumbrae. Urban areas are mainly concentrated along the coast and include Kilmarnock, Irvine and Ayr.

The area is largely rural with the main land use being agricultural in the lower catchments whilst upland areas have large sections of woodland and heather grassland. There are 36 lochs and reservoirs in the area including Loch Doon, Loch Bradan, Loch Riecawr and Loch Finlas. The main rivers are the Ayr, the Doon, the Garnock, the Girvan and the Irvine.

There is a river, surface water and coastal flood risk in the Local Plan District. There have been several large floods, including Storm Desmond and Storm Frank in December 2015 and Storm Caroline in December 2017. More recently, in August 2019, the area was subject to river and surface water flooding affecting many areas.

Currently it is estimated there are around 39,000 people and 23,000 homes and businesses at risk from flooding. This may increase to 47,000 people and 28,000 homes and businesses by the 2080s due to climate change. The expected annual cost of flooding is around £18 million. Note however that flooding from wave overtopping is not fully represented in the assessment of flood risk and the impact of coastal flooding may be underestimated.

SEPA lead development of the Flood Risk Management Strategies for Scotland and delivery of flood warning services. North Ayrshire Council are the Lead Local Authority for the Ayrshire Local Plan District which comprises of North Ayrshire Council, East Ayrshire Council and South Ayrshire Council. Other responsible authorities include Scottish Water.

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 designated 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 21 PVAs in this Local Plan District. Following sections provide more information on these areas.

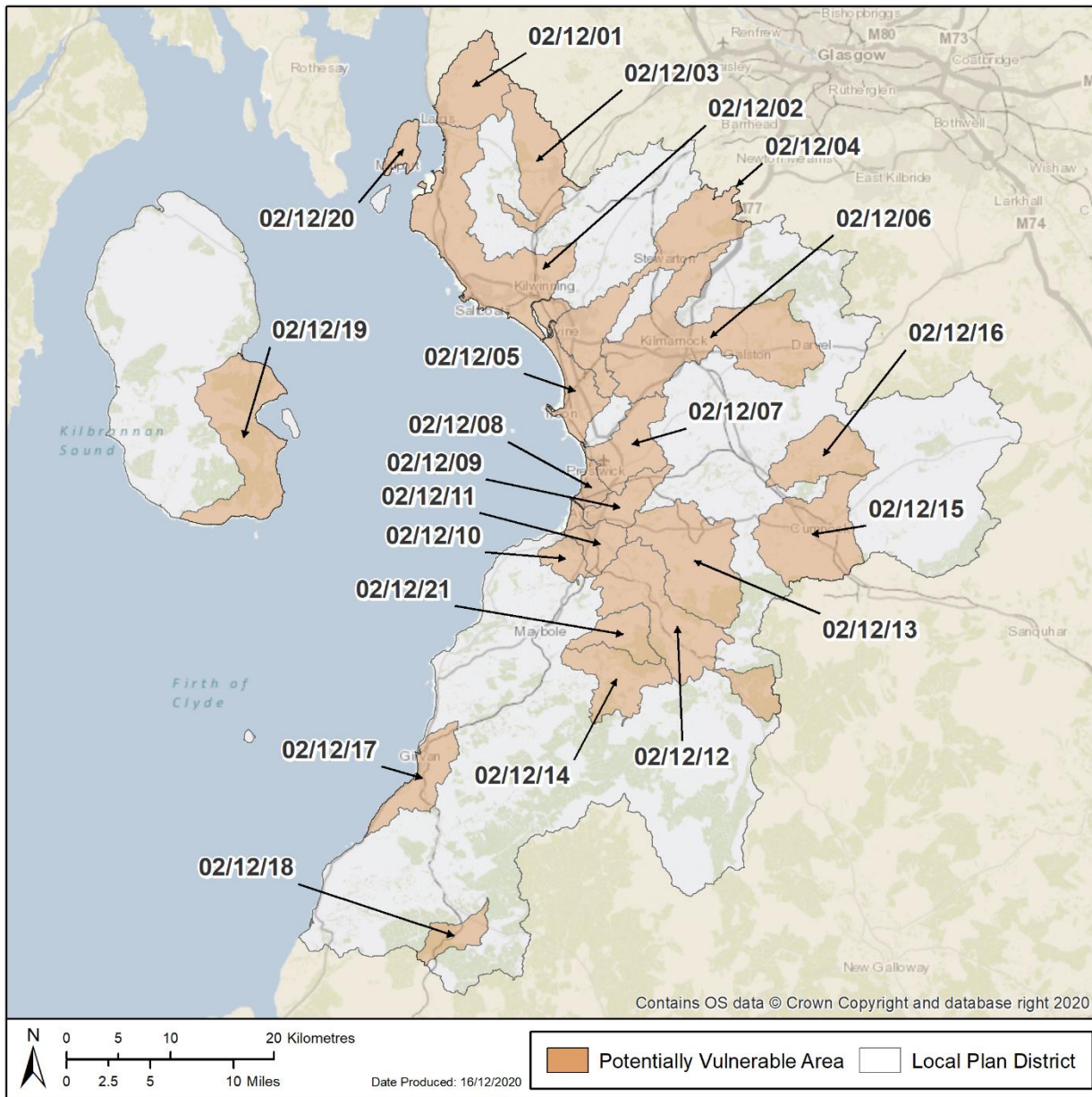


Figure 1. Potentially Vulnerable Areas in Ayrshire Local Plan District

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PVA Ref	PVA NAME	Local Authority
02/12/01	<a href="#">Largs</a>	North Ayrshire
02/12/02	<a href="#">Largs to Kilwinning</a>	North Ayrshire
02/12/03	<a href="#">Upper Garnock catchment</a>	North Ayrshire
02/12/04	<a href="#">Lower Irvine and Annick Water catchment</a>	East Ayrshire, North Ayrshire, South Ayrshire
02/12/05	<a href="#">Irvine to Troon</a>	North Ayrshire, South Ayrshire
02/12/06	<a href="#">Kilmarnock and Upper Irvine catchment</a>	East Ayrshire
02/12/07	<a href="#">Pow Burn catchment</a>	South Ayrshire
02/12/08	<a href="#">Prestwick and Ayr</a>	South Ayrshire
02/12/09	<a href="#">River Ayr catchment</a>	South Ayrshire
02/12/10	<a href="#">Ayr South</a>	South Ayrshire
02/12/11	<a href="#">Ayr East</a>	South Ayrshire
02/12/12	<a href="#">Dalrymple to Dalmellington</a>	East Ayrshire
02/12/13	<a href="#">Drongan</a>	East Ayrshire
02/12/14	<a href="#">Straiton</a>	South Ayrshire
02/12/15	<a href="#">Cumnock</a>	East Ayrshire
02/12/16	<a href="#">Catrine</a>	East Ayrshire
02/12/17	<a href="#">Girvan</a>	South Ayrshire

<b>PVA Ref</b>	<b>PVA NAME</b>	<b>Local Authority</b>
02/12/18	<a href="#">Barrhill</a>	South Ayrshire
02/12/19	<a href="#">Isle of Arran</a>	North Ayrshire
02/12/20	<a href="#">Great Cumbrae Island</a>	North Ayrshire
02/12/21	<a href="#">Kirkmichael</a>	South Ayrshire

## 02/12/01 (Largs)

This area is designated as a Potentially Vulnerable Area due to flood risk in Largs. There is flooding from river, coastal and surface water. Recent floods have been caused by 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

Largs North (Target Area 148)

## 02/12/02 (Largs to Kilwinning)

This area is designated as a Potentially Vulnerable Area due to flood risk in Fairlie, Kilwinning and Dalgarven, Largs, Saltcoats and Stevenston and West Kilbride. There is flooding from coastal, river and surface water. Recent surface water and river flooding has occurred in this area.

There are 5 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

Kilwinning and Dalgarven	(Target Area 80)
Saltcoats and Stevenston	(Target Area 121)
West Kilbride	(Target Area 124)
Largs South	(Target Area 149)
Fairlie	(Target Area 155)

## 02/12/03 (Upper Garnock catchment)

This area is designated as a Potentially Vulnerable Area due to flood risk to Dalry and Kilbirnie. The main source of flooding is the River Garnock and its tributaries, with some risk from surface water flooding. There is a history of flooding in this area, with recent flooding being caused by flooding of the River Garnock.



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

Dalry	(Target Area 76)
Kilbirnie and Glengarnock	(Target Area 97)

## 02/12/04 (Lower Irvine and Annick Water catchment)

This area is designated as a Potentially Vulnerable Area due to flood risk to Dundonald, Irvine and Stewarton. The main sources of flooding are from the River Irvine and Annick water and from surface water. Recent floods have been caused by surface water flooding.

There are 3 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

Irvine	(Target Area 21)
Stewarton	(Target Area 122)
Dundonald	(Target Area 21001)

## 02/12/05 (Irvine to Troon)

This area is designated as a Potentially Vulnerable Area due to flood risk to Irvine and Troon. The main sources of flooding are from coastal and river. Recent coastal flooding has occurred in the area.

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

Irvine Coastal	(Target Area 22)
Troon	(Target Area 123)

## 02/12/06 (Kilmarnock and Upper Irvine catchment)

This area is designated as a Potentially Vulnerable Area due to flood risk in Kilmarnock, Galston and Newmilns. The main sources of flooding are from the River Irvine and Kilmarnock Water, and surface in the main towns. Recent flooding has occurred, which was due to both river and surface water.

There are 6 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

Kilmarnock	(Target Area 20)
Crosshouse	(Target Area 75)
Newmilns	(Target Area 120)
Kilmaurs	(Target Area 147)
Galston	(Target Area 153)
Darvel	(Target Area 154)

## 02/12/07 (Pow Burn catchment)

This area is designated as a Potentially Vulnerable Area due to flood risk to Prestwick. The main source of flooding is from the Pow Burn, with also some risk from surface water flooding. There is a history of flooding in the area, with recent flooding being caused by both river and surface water flooding.

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

Prestwick North	(Target Area 28)
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## 02/12/08 (Prestwick and Ayr)

This area is designated as a Potentially Vulnerable Area due to flood risk to Ayr and Prestwick. The main source of flooding is surface water, however there is also risk of coastal flooding. Several floods have been recorded in this area with recent flooding being caused by coastal flooding.

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**

Prestwick South (Target Area 27)  
Ayr (Target Area 71)

**02/12/09 (River Ayr catchment)**

This area is designated as a Potentially Vulnerable Area due to flood risk to Ayr. The main sources of flooding are from surface water and the River Ayr. Flooding has been recorded in the area, with recent flooding being caused by river flooding.

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**

Ayr East (Target Area 72)

**02/12/10 (Ayr South)**

This area is designated as a Potentially Vulnerable Area due to flood risk to Ayr. The main sources of flooding are surface water and river flooding from the River Doon. Flooding has been recorded in the area with recent flooding being caused by surface water flooding.

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**

Ayr Doon (Target Area 74)

## 02/12/11 (Ayr East)

This area is designated as a Potentially Vulnerable Area due to flood risk to Ayr. There is river, coastal and surface water flood risk, with the main source of flooding from the Annfield Burn and Slaphouse Burn. There have been recent reports of flooding in the area, with recent flooding being caused by river flooding.

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

Ayr South East (Target Area 73)

## 02/12/12 (Dalrymple to Dalmellington)

This area is designated as a Potentially Vulnerable Area due to flood risk to Dalrymple, Dalmellington and Patna. The main source of flooding is from the River Doon and the Muck Water, with some risk from surface water flooding. Recent flooding has been recorded in the area.

There are 3 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

Dalrymple (Target Area 77)  
 Dalmellington (Target Area 96)  
 Patna (Target Area 164)

## 02/12/13 (Drongan)

This area is designated as a Potentially Vulnerable Area due to the potential flood risk to Drongan. The main source of risk is from the Water of Coyle, with some risk from surface water flooding. There has been no recorded flooding in this area.

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

Drongan (Target Area 18)

### 02/12/14 (Straiton)

This area is designated as a Potentially Vulnerable Area due to flood risk to Straiton. The main source of risk is from the Water of Girvan, with some risk from surface water. There is a history of flooding in the area, with recent flooding being caused by flooding from the Water of Girvan.

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

Straiton (Target Area 162)

### 02/12/15 (Cumnock)

This area is designated as a Potentially Vulnerable Area due to flood risk to Auchinleck and Cumnock. The main sources of flooding are from surface water and river flooding from the Lugar Water. There are regular reports of flooding from the Gaisnock Water in Cumnock. There is a history of flooding in the area, with recent flooding being caused by surface water.

There are 2 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

Cumnock (Target Area 19)  
Auchinleck (Target Area 68)

## 02/12/16 (Catrine)

This area is designated as a Potentially Vulnerable Area due to flood risk to Catrine and Sorn. The main source of flooding is from the River Ayr, with some risk from surface water. There is a history of river flooding in the area.

There are 2 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

Sorn	(Target Area 16)
Catrine	(Target Area 17)

## 02/12/17 (Girvan)

This area is designated as a Potentially Vulnerable Area due to flood risk to Girvan. There is flooding from river, coastal and surface water. Recent river and surface water flooding has occurred in this area.

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

Girvan	(Target Area 78)
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## 02/12/18 (Barrhill)

This area is designated as a Potentially Vulnerable Area due to flood risk to Barrhill. The main source of flooding is from the Cross Water, and some surface water. There are no historical records of flooding in the area.

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

Barrhill (Target Area 95)

## 02/12/19 (Isle of Arran)

This area is designated as a Potentially Vulnerable Area due to flood risk to Brodick, Lamlash and Whiting Bay. There is flooding from coastal, river and surface waters. Some areas of the coastline have been identified as susceptible to coastal erosion. There is the potential for an increased flood risk due to climate change in some locations. There is a history of flooding in the area, with recent flooding being caused by coastal flooding.

There are 3 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

Brodick (Target Area 23)  
Lamlash (Target Area 24)  
Whiting Bay (Target Area 25)

## 02/12/20 (Great Cumbrae Island)

This area is designated as a Potentially Vulnerable Area due to flood risk to Millport. The main source of flooding is coastal. There is a history of flooding in the area, with recent flooding being caused by coastal flooding.

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

Millport (Target Area 119)

## 02/12/21 (Kirkmichael)

This area is designated as a Potentially Vulnerable Area due to flood risk to Kirkmichael. The main source of flooding is from the Dyroch Burn. There have been no recorded floods in this area.

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

Kirkmichael

(Target Area 14)