



Flood Risk Management

COUNTY SUMMARY

COUNTY: WICKLOW

(Information correct as of 31/12/2017)

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1. OPW Capital Investment to 31 December 2017

MAJOR FLOOD RELIEF SCHEMES: 1995-2017

Historically, flood risk management focused on arterial drainage for the benefit of agricultural improvement. Arising from increasing flood risk, the Arterial Drainage Act, 1945, was amended in 1995 to permit the Office of Public Works (OPW) to implement localised flood relief schemes to provide flood protection for cities, towns and villages.

Some schemes have been carried out by the Local Authorities under their own powers using the Planning and Development legislative code. The OPW either works in association with the relevant Local Authorities or funds Local Authorities directly to undertake flood relief works.

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No.	Scheme At Design/Planning	Scheme At Construction	Scheme Completed	Properties Protected	Budget (€)	Current Status (or Completion Date)
1	-	-	Bray	660	46m	Scheme Completed 2017
2	Arklow	-	-	707	28m	Hope to go for planning Q2 2018

MINOR FLOOD MITIGATION WORKS AND COASTAL PROTECTION SCHEME: 2009-2017

The Minor Flood Mitigation Works & Coastal Protection Scheme (the “Minor Works Scheme”) was introduced by the Office of Public Works in 2009. The purpose of the scheme is to provide funding to Local Authorities to undertake minor flood mitigation works or studies to address localised flooding and coastal protection problems within their administrative areas. The scheme generally applies where a solution can be readily identified and achieved in a short time frame.

Under the scheme, applications are considered for projects that are estimated to cost not more than €750,000 in each instance. Funding of up to 90% of the cost is available from the OPW for approved projects. The commencement and progression of any works for which funding is approved is a matter for each Local Authority concerned.

COUNTY: WICKLOW			(Local Authority: Wicklow County Council)	
No.	Project Location	Project Details	Approved Funding (€)	Year of Approval
1	L52001 Redford Park, Greystones	Construction of a 1m high block concrete wall with foundations	6,300	2009
2	R762 Delgany	Lay 230m of 12” UPVC SW Line / Reinstatement of road / Construction of manholes /Install gullies / Connect existing gullies Install new pipe line	40,230	2009
3	Boghall Road, Bray	Stream Improvements	180,000	2009
4	Mountain View, Boghall, Bray	Install pipe	67,500	2010
5	North Beach – Arklow(Coastal)	Coastal Protection Works	70,000	2010
6	Arklow Town (Coastal)	Coastal Protection Study	81,000	2010
7	Baltinglass Town Centre	Engagement of consultant to identify feasible measures to address flooding in Baltinglass Town Centre and implementation of said measures / Anticipated works: Dredging of River Slaney / Installation of flap valves on all surface water discharge outlets to the river in the vicinity of Slaney Mall / Flood gating at the Bridge slip-way and at Church Lane	70,200	2010
8	Boghall Road, Bray	Upgrade pipe & channel	180,000	2010
9	Parkmore, Baltinglass	To provide an earth embankment / bund to provide a barrier against flood waters (to be undertaken in conjunction with works in Town Centre)	210,000	2011
10	Baltinglass Town Centre	Accommodation Works – flap valves - new manhole and embankment at Church Lane	29,800	2011
11	Avoca River, Arklow	Construction of a flood protection wall	40,000	2012

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No.	Project Location	Project Details	Approved Funding (€)	Year of Approval
12	R762 Delgany	Lay 230m of 12" UPVC SW Line / Reinstatement of road / Construction of manholes / Install gullies / Connect existing gullies/ Install new pipe line	40,000	2012
13	Avoca (White Bridge)	Removal of a deposit in the Avoca river & use the material to raise the level of the adjacent river bank to form a flood barrier	8,100	2013
14	South Beach, Arklow (coastal)	The building up of an existing on-shore embankment.	46,200	2015
15	The Murrough (coastal)	To construct a rock armour ramp transition zone between the existing strand and the adjoining shoreline- details as outlined in the RPS Report of February, 2015	135,000	2015
16	Rathbran, Grangecon	Remove and dispose of 25 metres of concrete surface water pipes & restore 25 metres of the channel to its original width, depth and capacity	4,050	2016
17	The Murrough (coastal)	Coastal erosion rock revetment works	315,000	2016
			1,523,380	

2. Maintenance carried out under Arterial Drainage Act, 1945

The OPW has statutory responsibility for and carries out a programme of Arterial Drainage Maintenance. These maintenance works relate to arterial drainage schemes completed by the OPW under the Arterial Drainage Acts 1945, with the primary purpose to improve the drainage of agricultural lands. Local Authorities are responsible for the maintenance of Drainage Districts, which were completed up to 1943.

The OPW's annual Arterial Drainage Maintenance Works Programme protects 260,000 hectares (650,000 acres) of agricultural lands and comprises 11,500km (7,150 miles) of river channel and approximately 800km (500 miles) of embankments.

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No arterial drainage schemes have been completed by the OPW in this County.

3. Proposed Measures in Flood Risk Management Plans

The OPW has now studied and assessed flood risk in Ireland, focussing on 300 areas of potentially significant risk throughout the country.

Flood Maps have been created for each of these communities to describe existing and potential flood risk. The OPW has now published Flood Risk Management Plans which set out, for these communities, how it is proposed to manage the assessed flood risk through investment in flood relief schemes and other policy measures. The Plans also set out measures in place and under consideration that can manage flood risk in other parts of the county.

The following tables set out the communities in this County that are covered by the Flood Risk Management Plans and provides an indication of the proposed flood relief schemes contained in the Plans for these communities.

In some instances, a technically viable flood relief scheme has been identified, however, a more detailed assessment of the costs and benefits will be completed to determine if the proposed Scheme is feasible.

For other communities, there is a relatively low level of flood risk from rivers and/or the sea, and no structural flood relief measures are therefore proposed at this time. The current level of risk will be reviewed, along with all areas, on a regular basis into the future.

In addition to the implementation of proposed flood relief schemes, funding will continue to be available for localised projects under the Minor Works Scheme.

The Plans also set out those non-structural measures in place or proposed, for example Flood Forecasting, which benefit all at risk communities and properties. The Interdepartmental Flood Policy Co-ordination Group will continue its work now greatly informed by the wealth of knowledge in the Plans to bring forward further feasible proposals for Government's consideration to support and assist households and communities through non-structural flood risk management and mitigation measures.

COUNTY: WICKLOW					
AREA NAME	Schemes Completed	Schemes At Design/Planning/Pending or Construction	Proposed Schemes	Schemes for Cost-Review	Community of Low Risk / No Viable Structural Options
Arklow		√			
Ashford & Rathnew			√		
Aughrim				√	
Avoca			√		
Baltinglass			√		
Blessington			√		
Greystones & Environs			√		
Kilcoole				√	
Newcastle				√	
Wicklow			√		
Bray	√				

No.	Proposed Scheme	Properties Protected	Further Information on Proposed Scheme
1	Ashford & Rathnew	(See Wicklow)	The proposed measure for Wicklow, Ashford and Rathnew that may be implemented after project-level assessment and planning or Exhibition and confirmation might include physical works, such as a series of hard defences, storage and improvement of channel conveyance. The hard defences would protect to the 1% AEP fluvial flood event, with an average height of 1.1m (reaching a maximum height of 1.5m) and a total length of 4km. The two storage areas on the Broomhall and Burkeen catchments have a total capacity of approximately 14,800m ³ . The improvement of channel conveyance consists of the removal of a weir on the Ballynerin watercourse.
2	Avoca	15	The proposed measure for Avoca AFA that may be implemented after project-level assessment and planning or Exhibition and confirmation might include physical works, such as a series of hard defences (flood embankments and walls) along with improvement of channel conveyance on a tributary. The hard defences would protect to the 1% AEP fluvial flood event, with an average height of 1.4m and a total length of 0.5km. Improving the channel conveyance of a tributary at the AFA's northern boundary would consist of removing three weirs, dredging a length of 18m of the river and underpinning a bridge.
3	Baltinglass	25	The proposed measure consists of building hard defences, at risk properties would be protected by a series of flood embankments and walls. These hard defences would protect to the 1% AEP flood event with an estimated average height of 1.3m and a total length of 0.58km.
4	Blessington	137	The proposed measure for Blessington that may be implemented after project-level assessment and planning or Exhibition and confirmation might include physical works, such as a series of hard defences (flood embankments and walls) and, on the Newtown Park watercourse, the sealing of four manholes. The hard defences would protect to the 1% AEP fluvial flood event, with an average and maximum height of 1.2m and 2.4m respectively and a total length of 1.5km. A 125m length of road would also have to be raised.
5	Greystones & Environs	62	The proposed measure for Greystones that may be implemented after project-level assessment and planning or Exhibition and confirmation might include physical works, such as a series of hard defences (flood embankments and walls, 1.5km long) and a storage area. The measure would protect to the 1% AEP fluvial flood event, with an average hard defence height of 0.9m (reaching a maximum height of 1.8m).
6	Wicklow	108	The proposed measure for Wicklow, Ashford and Rathnew that may be implemented after project-level assessment and planning or Exhibition and confirmation might include physical works, such as a series of hard defences, storage and improvement of channel conveyance. The hard defences would protect to the 1% AEP fluvial flood event, with an average height of 1.1m (reaching a maximum height of 1.5m) and a total length of 4km. The two storage areas on the Broomhall and Burkeen catchments have a total capacity of approximately 14,800m ³ . The improvement of channel conveyance consists of the removal of a weir on the Ballynerin watercourse.