

Salmon Monitoring Programmes 2024 funded under the Salmon and Sea Trout Rehabilitation, Conservation and Protection Fund

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**Iascach Intíre Éireann
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1 Executive Summary

The Salmon and Sea Trout Rehabilitation, Conservation and Protection Fund (SSTRCPF) provided funding for the Salmon Monitoring Programmes in 2024. The work comprised three separate elements: 1) catchment-wide electrofishing (CWEF) programme; 2) estimation of salmon smolt to adult return survival rates; and 3) determination of the life history characteristics of adult salmon in selected catchments.

The principal objective of the CWEF programme is to provide catchment-level assessments of salmon fry distribution and relative abundance in salmon rivers where there is no or a paucity of other information available (such as angling catch or fish counters) to determine the status of salmon stocks. This information is used as part of the annual scientific stock assessment and catch advice process undertaken by the Technical Expert Group on Salmon (TEGOS). For rivers assessed as being under their conservation limit (CL), a mean fry catchment value of 17 salmon fry per five-minutes fishing is used as the threshold value in the provision of catch advice. If this threshold is met, TEGOS advise that rivers which would otherwise be closed to all salmon fishing, may open for catch and release-only angling.

During 2024, catchment-wide electro-fishing was undertaken in 41 catchments or sub-catchments to assess the abundance and distribution of salmon fry; 38 catchments were surveyed completely. Sub-catchment surveys were undertaken in parts of the Erne (Co. Cavan) and the Monaghan Blackwater, and an investigative survey was conducted on portions of the Ballysadare River in Sligo. A total of 969 sites were visited. In the seventeen years of the programme (2007-2024), 671 catchment/sub-catchment surveys in 171 catchments or sub-catchments have been undertaken, comprising over 15,000 site surveys. For the catchments surveyed in 2024 results ranged from zero salmon fry on the Glennagannon (Co. Donegal) and the Erne to 47.72 on the Cloonee (Co. Kerry). Fourteen catchments had averages over 17 salmon fry/ 5 min in 2024.

In general, rivers where the CWEF threshold value was ≥ 17 over the 2007-2024 period, (based on an average of the most recent five CWEF surveys), are advised by TEGOS to open as catch and release-only fisheries so that catch information can be generated for stock assessments. Overall, good agreement was observed between stock indicators using rod catch or counter data (from index or well monitored catchments) and the results of the CWEF surveys.

In order to enhance smolt to adult marine survival data for wild salmon in Irish rivers, a PIT (Passive Integrated Transponder) tag recording system was installed in the River Erriff (National Salmonid Index Catchment (NSIC Erriff)) in 2016 to provide a direct count of the numbers of returning tagged adult fish. Up to 3,500 adult salmon run the system annually and IFI's research facilities at the NSIC Erriff include an upstream trap/counter at the head of the tide which allows for near-total counts of upstream migrating fish and high detection efficiency (estimated at >90%) of returning PIT tagged adults. Wild salmon smolts have been captured and PIT tagged annually since spring 2016 at two sites on the system. A corresponding programme also commenced in the Corrib system in 2017, with smolts tagged annually at the Galway weir where a PIT tag detector is present in the Denil fish pass and associated submersible PIT tag antenna are deployed to detect PIT tagged returning adults.

In 2024, a total of 12 PIT tagged adult one-sea winter (1SW) salmon returned to the NSIC Erriff from the smolt cohort tagged in 2023, representing a provisional 1SW marine survival of 1.2%. A single two-sea winter salmon tagged as a smolt in 2023 returned to the Erriff in 2025, bringing the total estimated marine survival of the 2023 tagging cohort to 1.3%. Marine survival of PIT tagged fish in the NSIC Erriff have ranged from 1.3% to 3.8% since 2016. Marine survival data for the Corrib is available from 2017 to 2021. Marine survival of PIT tagged fish in the Corrib have ranged from 2.7% to 7.4% in this period. The Corrib rates are considered to be minimum marine survival estimates as some fish may avoid detection on return when the majority of gates are open in the Galway weir. A more comprehensive picture of salmon marine survival trends will become available when a more long-term time series of results from both the Erriff and Corrib are available.

Salmon scales have been collected from the commercial fisheries, anglers and from research projects building up a scale collection for analysis. To date the collection consists of scales of 21,518 fish from 68 fisheries around the country. Of the 3,657 fish for which age has been determined, 1,171 of fish were multi-sea-winter (MSW) fish, 2,368 were grilse; 118 fish were previously spawned grilse (PSG) (i.e. a grilse that spawned, returned to sea as a kelt and subsequently returned to the river for a second time), and one was a kelt. Of these fish types, the MSW were on average the largest, with a mean weight of 4.82 kg, PSG had an average weight of 4.66kg and grilse an average weight of 2.29 kg. Scale samples received in 2024 came from the NSIC Erriff catchment. The scales of 86 fish were read to determine life history. Of those, 86% were grilse and 14% were MSW. Sizes of fish ranged from a 710 g grilse to a 4.8 kg.

2 Introduction

The Salmon and Sea Trout Rehabilitation, Conservation and Protection Fund (SSTRCPF) provided funding for the Salmon Monitoring Programmes in 2024. The work comprised three separate elements:

- 1) catchment-wide electrofishing (CWEF) programme;
- 2) estimation of salmon smolt to adult return survival rates; and
- 3) determination of the life history characteristics of adult salmon in selected catchments.

This report presents the results of each of these activities in 2024.

2.1 Catchment-wide electrofishing programme

The principal objective of the CWEF programme is to provide catchment-level assessments of salmon fry distribution and relative abundance in salmon rivers where there is no or a paucity of other information available (such as angling catch or fish counters) to determine the status of salmon stocks. This information is used as part of the annual scientific stock assessment and catch advice process undertaken by the Technical Expert Group on Salmon (TEGOS). For rivers assessed as being under their conservation limit (CL), a mean fry catchment value of 17 salmon fry per five-minutes fishing is used as the threshold value in the provision of catch advice. If this threshold is met, TEGOS advise that rivers which would otherwise be closed to all salmon fishing, may open for catch and release-only angling. For catch advice purposes for a specific river, the CWEF value is determined from the average of mean values of up to five preceding annual surveys typically with a minimum of at least three survey years required. The generation of angling catches in rivers which would otherwise be closed to fishing enables TEGOS to assess their stock status *via* this information. The programme also provides valuable information on salmon distribution in Ireland as required for the EC Habitats Directive Article 17 reporting and contributes to the identification of channel and site-specific issues as pollution incidents, local habitat pressures, presence of invasive species and the identification of potential barriers to migration. A wider benefit of the programme is the recording of the distribution of other fish species encountered including those of conservation importance.

Electrofishing of juveniles presents an alternative (and fisheries independent) source of population information, as the numbers of juveniles should be a good reflection of the number of adults which produced them and the relative productive capacity of that river. This method is based on a relationship between fry abundance (which may be measurable annually) and

adult returns for rivers as informed by estimates of stock from rod catches or fish counters. The long-term objective of the CWEF programme is to develop a robust index of juvenile salmon abundance (0+ salmon fry) as a complementary tool to inform the assessment of CL attainment on individual rivers. Where sufficient data can be accumulated in catchments with an independent adult stock monitoring system it is intended to explore the potential of building fry and adult return relationship models. The technique and associated models are likely to provide the best estimate of salmon stock status in closed rivers and in small rivers where rod catch was historically low (<10 salmon annual rod catch) and no other status assessment method is available.

2.2 Use of telemetry (PIT tagging) to estimate smolt to adult survival rates

Salmon smolt to adult return rates are widely used for scientific assessments of salmon stock status (e.g. ICES Working Group on North Atlantic Salmon). Marine survival is considered a major factor in river stock size and understanding the reason for these losses is driving several marine phase research programmes. In order to establish such data for wild salmon in Irish rivers, a PIT tagging programme was initiated in the National Salmonid Index Catchment River Erriff (NSIC River Erriff) in 2016 to monitor annual marine survival in the salmon stock there. A corresponding programme also commenced in the Corrib system in 2017.

2.3 Biological assessment of salmon populations

Knowledge of salmon life history strategies is required to understand and model salmon populations in different systems. Biological data on salmon including sea age, run-timing, sex ratio and fecundity are necessary to understand population dynamics within a river. Changes to any of these inputs can influence the outcome of the production models used to predict the likely returns to a river and potential fishery performance. Life history traits such as smolt age, sea age, growth and frequency of spawning can be determined from scale reading. Combined with data on time of entry into the system, sex ratio and fecundity, the often complex characteristics of a population can be established and the models can be adjusted accordingly. For example, if the proportion of multi-sea-winter (MSW) salmon entering a system is greater than previously known this would have the effect of reducing the CL as these fish are likely to have a higher female:male ratio and would transport a greater number of eggs into a catchment because of their greater individual size compared to grilse.

3 Methods

3.1 Catchment-wide electrofishing programme

The CWEF programme is conducted between July and September annually since 2007 and provides a relative index of salmon fry abundance based on a semi-quantitative electrofishing technique (Crozier and Kennedy 1994; and Gargan et al., 2008). The method consists of surveying potential spawning and nursery sites in riffle habitat which are geographically spread throughout a given catchment. Only channels of stream orders > 1 are surveyed. At each sampling site, timed electrofishing (five-minutes duration) using electrofishing back-packs is employed. Numbers of salmon and trout fry and parr encountered are recorded, and the fork lengths of fry captured are measured in 1 cm increments. In addition, standard sampling site characteristics are also recorded. These include length and mean width fished, mean depth fished, relative substrate composition, and instream and riparian species present and their relative percentage cover. Other fish species and white-clawed crayfish present are also recorded as well as any invasive species, habitat issues or pollution concerns encountered. The mean catchment-wide numbers of salmon fry encountered are calculated by averaging all the individual sites sampled.

3.2 Use of telemetry (PIT tagging) to estimate smolt to adult survival rates

In the NSIC Erriff, up to 1,000 wild smolts per annum are PIT tagged (depending on smolt output) at two locations in the catchment (the smolt trap on the Black River downstream of Tawnyard Lough and at a screw trap in main channel). In the Corrib, up to 2,000 smolts are PIT tagged annually at the smolt trap at the Galway weir. In both instances, individual lengths of tagged smolts are recorded. The NSIC River Erriff research facilities include an upstream trap/counter with a PIT tag detector at the head of the tide which allows for near-full counts of upstream migrating fish and high detection efficiency of PIT tagged returns. In the Corrib, a PIT tag detector is present in the Denil fish pass at the Galway weir and a submersible PIT tag antenna is deployed immediately downstream of this to detect PIT tagged returning adults. In both systems, PIT tagged fish intercepted by fishers are also noted when compiling return information. Preliminary marine survival estimates for each system are calculated as the percentage of PIT tagged adult salmon detected on return in relation to the number of smolts tagged. This is further broken down by sea-age (i.e. one-sea-winter grilse and multi-sea-winter salmon). In addition, where possible, scale samples are taken from tagged returns captured by anglers or in the NSIC Erriff upstream trap and associated length and weight data are recorded. The PIT tag antenna in the fish pass in the Corrib had technical issues in the period 2021 to 2024. Therefore, marine survival estimates are not available for this period.

3.3 Biological assessment of salmon populations

Salmon scales have been collected from the commercial fisheries, anglers and from research projects (notably from the NSIC Erriff and IFI National Salmon Scale Project) building up a scale collection for analysis. These are aged using standard methods (Coyne et al. 2019).

4 Results

4.1 Catchment-wide electrofishing programme

4.1.1 Results from 2024

During 2024, catchment-wide electro-fishing was undertaken in 41 catchments or sub-catchments to assess the abundance and distribution of salmon fry; 38 catchments were surveyed completely. Sub-catchment surveys were undertaken on parts of the Erne (Co. Cavan) and the Monaghan Blackwater, and an investigative survey was conducted on portions of the Ballysadare River in Sligo Fisheries District. A total of 969 sites were visited.

The results for catchments surveyed in 2024 are presented in, Figure 1, Figure 2 and Table 1. For the catchments surveyed in 2024 results ranged from zero salmon fry on the Glennagannon (Co. Donegal) and the Erne (Co. Cavan) to 47.72 on the Cloonee (Co. Kerry). Fourteen catchments had averages over 17 salmon fry/ 5 min.

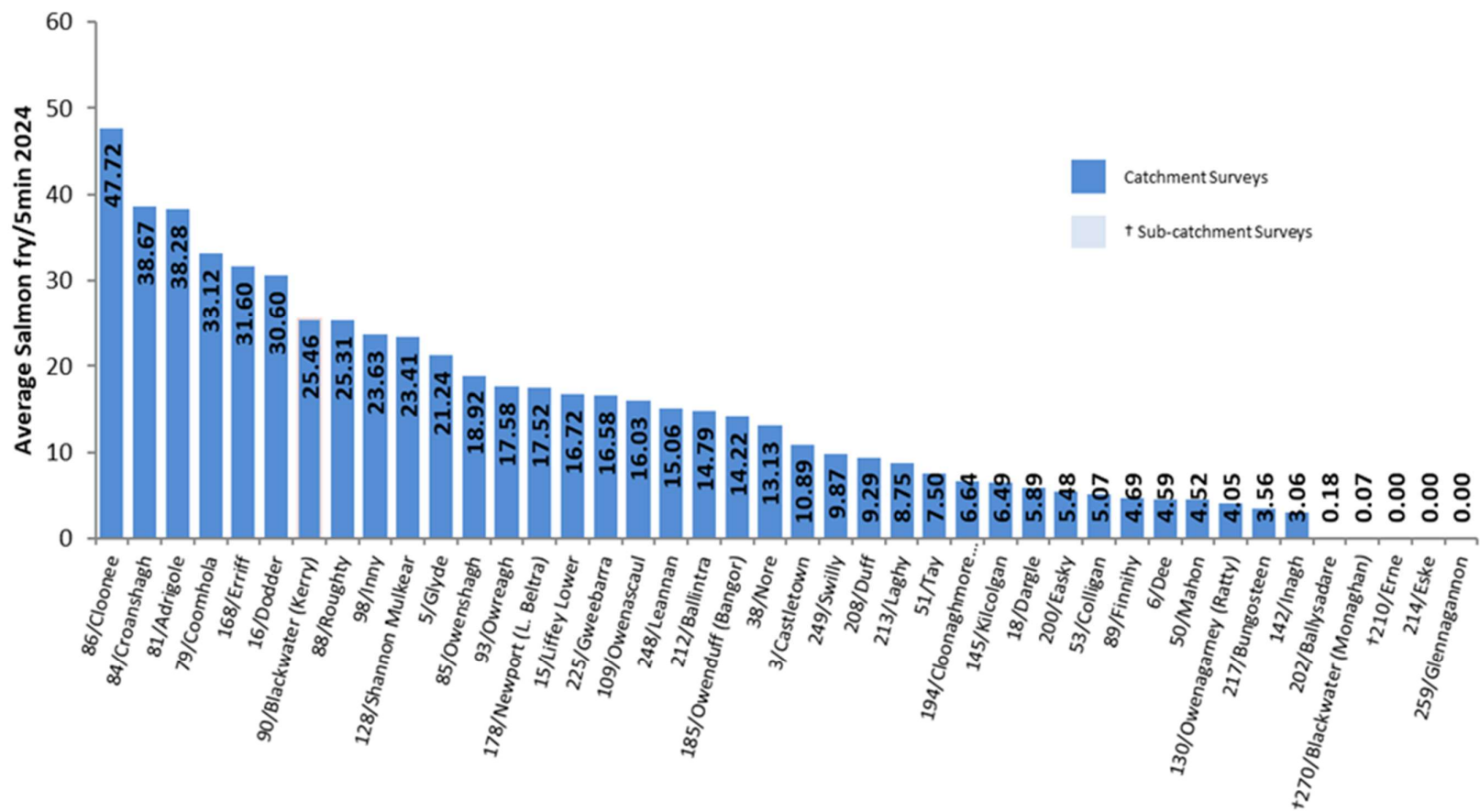


Figure 1 Summary of CWF results for the catchments surveyed in 2024.

Table 1 Summary of annual results (2013-2024) and current CWF indices for catchments surveyed in 2024.

Code/River	Fry Year												Most recent 5 surveys	
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Index	# Surveys Inc.
003/Castletown	22.96	13.59					5.58	1.87				10.89	10.98	5
005/Glyde			5.19				4.02		6.58		10.73†	21.24	13.73	5
006/Dee			10.51				4.53†	7.59			2.59†	4.59	12.91	5
015/Liffey Lower				6.75		19.18				9†	14.33†	16.72	14.45	5
016/Dodder										1.25		30.60	15.26	3
018/Dargle			4.74				1.03					5.89	4.37	5
038/Nore				12.44			12.69†		16.79			13.13	15.35	4
050/Mahon		10.72	4.57				8.60					4.52	6.32	5
051/Tay			6.14	1.75				9.91				7.50	6.81	5
053/Colligan		9.50		3.62			4.84					5.07	10.47	5
079/Coomhola												33.12	33.12	1
081/Adrigole	4.68	1.33				17.20					3.04†	38.28	15.37	4
084/Croanshagh				23.38								38.67	31.03	2
085/Owenshagh	4.75		6.73			19.27		17.33				18.92	13.40	5
086/Cloonee	33.06				24.09		26.48					47.72	29.51	5
088/Roughty												25.31	22.54	2
089/Finnihy	0.00				0.70		1.01					4.69	3.00	5
090/Blackwater (Kerry)		19.70										25.46	20.91	5
093/Owreagh	2.07	2.81					8.51					17.58	7.98	5
098/Inny						17.67				22.67		23.63	22.07	5
109/Owenascaul	16.08	16.28				9.51		11.52				16.03	13.88	5
128/Shannon Mulkear						8†						23.41	23.41	1

Code/River	Fry Year												Most recent 5 surveys	
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Index	# Surveys Inc.
130/Owenagarney (Ratty)	16.97	8.87						3.82				4.05	8.43	4
142/Inagh		5.60	3.59					7.23				3.06	4.87	4
145/Kilcolgan					0.1†	0.88†		11.95			5.74†	6.49	6.98	3
168/Erriff	27.45	24.90	28.52	21.72	13.69	22.81	22.25	31.95	40.49	37.18	19.64	31.60	32.17	5
178/Newport (L. Beltra)		17.40									14.43†	17.52	14.13	4
185/Owenduff (Bangor)		6.20										14.22	10.21	2
194/Cloonaghmore (Palmerstown)	15.02				5.46†	14.63				7.52		6.64	12.23	5
200/Easky												5.48	5.48	1
202/Ballysadare												0.18†	0.00	0
208/Duff					18.05	20.34				8.57		9.29	16.28	5
210/Erne	0‡	1.72‡	1.4‡	1.25‡	0‡	0.69‡	0‡	0‡	1.57‡	0‡		0‡	0.00	0
212/Ballintra	13.40	19.82					13.31			2.29		14.79	12.72	5
213/Laghy	14.97	11.02					8.56			5.71		8.75	9.80	5
217/Bungosteen	19.23				13.17		13.41			3.46		3.56	10.57	5
225/Gweebarra										18.93		16.58	17.76	2
248/Leannan	19.51	20.87	15.27	15.05†	19.47	20.11	21.33	20.50	18.23	13.83	8.11	14.61	15.06	5
249/Swilly	18.08	8.05						14.36				9.87	11.74	5
259/Glennagannon	7.13									1.26		0.00	5.82	5
270/Blackwater (Monaghan))												0.07‡	0.00	0

‡ surveys not completed, † sub-catchment surveys.

4.1.2 Results from 2007 to 2024

From 2007 to 2024, a total of 171 separate catchments, sub-catchments or minor catchments have been sampled comprising a total of 15,050 site surveys. To facilitate assessment of status based on fry abundance, mean annual abundance values for the most recent five

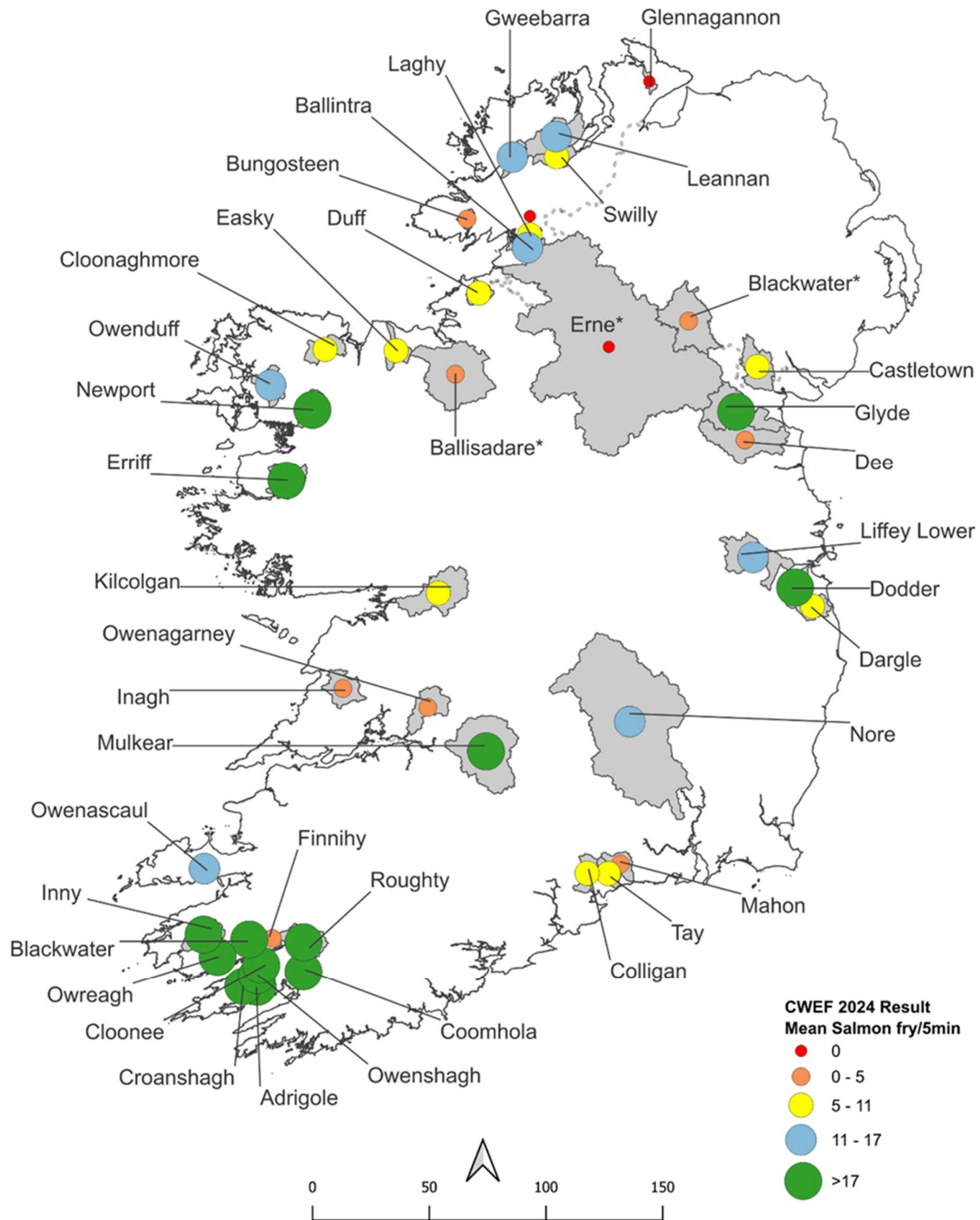


Figure 2 Mean salmon fry per five-minutes timed electrofishing for rivers sampled in 2024.

surveys, where data are available, is calculated. This approach is consistent with the TEGOS approach to other datasets and reduces the potential of an outlier result influencing the data disproportionately. The current catchment-specific CWF indices presented in this document are based on the most recent five CWF surveys of CWF data collated from survey activity since 2007. Annualised CWF results 2007 to 2024 for all catchment surveyed are presented in Appendix C.

Catchment-wide salmon fry averages for rivers electrofished from 2007 to 2024 are presented in Figure 3 and Figure 4. Data in Figure 3 presents the CWF annual mean abundances of salmon fry in 155 discrete catchments where electrofishing results are available. Thirty-four catchments have only one survey within the period used to calculate the CWF index. Highest salmon fry numbers were recorded in rivers in the south and southwest and north and northwest of Ireland. The Shannon and eastern regions generally recorded low salmon fry abundance; and many of the smaller catchments along the west coast also had low numbers of fry.

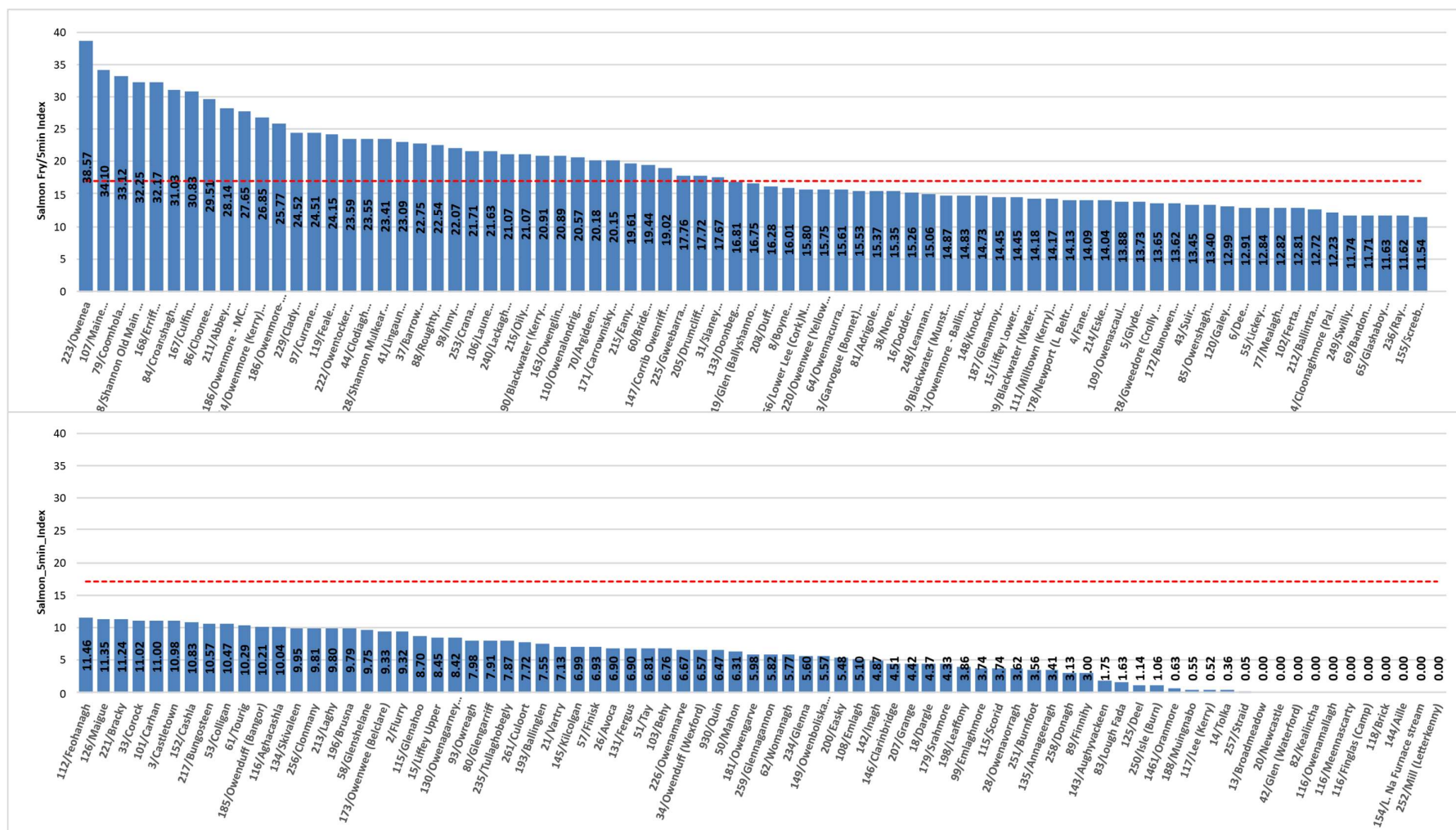


Figure 3 Current CWF index (mean salmon fry per 5 minutes) for all discrete catchments surveyed to date (red line indicates CWF threshold value to advise catch and release-only angling in systems below conservation limit)

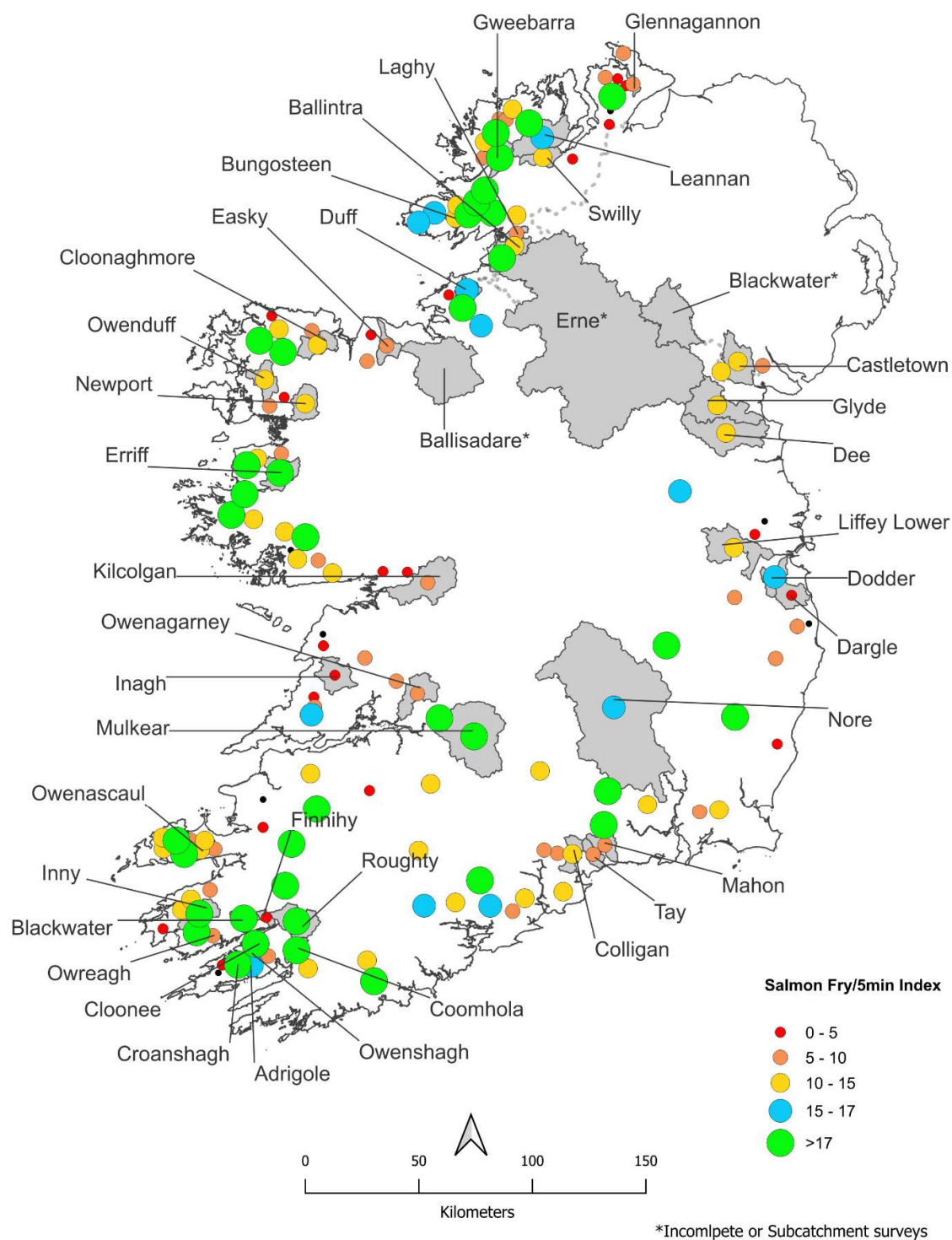


Figure 4 Current CWF index values for all discrete catchments surveyed to date (shaded catchment areas where visible indicate where sampling was undertaken in 2024).

4.2 Use of telemetry (PIT tagging) to estimate smolt to adult survival rates

The number of salmon smolts tagged in each of the Erriff and Corrib systems and associated lengths data are presented in Table 2. In 2024, a total of 12 PIT tagged adult one-sea winter (1SW) salmon returned to the Erriff from the smolt cohort tagged in 2023, representing a provisional 1SW marine survival of 1.2%. A single two-sea winter (2SW) salmon returned to the Erriff in 2025 from the smolt cohort tagged in 2023, bringing the total marine survival of the 2023 tagged smolt cohort to 1.3%, the lowest marine survival estimate from the timeseries. Marine survival of PIT tagged fish in the Erriff have ranged from 1.3% to 3.8% since 2016. Marine survival data for the Corrib is available from 2017 to 2021. Marine survival of PIT tagged fish in the Corrib have ranged from 2.7% to 7.4% in this period (Table 3). The Corrib rates are considered to be minimum marine survival estimates as some fish may avoid detection on return when the majority of gates are open in the Galway weir. A more comprehensive picture of salmon marine survival trends will become available when a more long-term time series of results from both the Erriff and Corrib are available.

Table 2 Number and lengths of salmon smolts PIT tagged in the Erriff and Corrib systems since 2016.

Year	Location	No. of fish tagged	Mean (cm)	SD (cm)	Min (cm)	Max (cm)
2016	Erriff	1022	12.5	1.5	8.7	18
2017	Erriff	553	12.8	1.6	10	21.6
2018	Erriff	892	12.8	1.3	10	18.2
2019	Erriff	912	12.3	1.1	10	19.2
2020	Erriff	395	14	1.2	11.2	18.7
2021	Erriff	1109	12.1	1.1	10	17.6
2022	Erriff	947	11.9	1.2	10	17.6
2023	Erriff	964	12.2	1.4	9.8	19.0
2024	Erriff	721	12.1	1.2	9.8	16.0
2017	Corrib	1600	16.5	2.3	11.2	24.8
2018	Corrib	1988	14.6	2	11.1	26.5
2019	Corrib	2057	14.9	1.8	9.6	21.6
2020	Corrib	1992	14.1	1.2	11	21.2
2021	Corrib	1999	15	1.5	12	22
2022	Corrib	1997	16	1.7	12.8	26.4
2023	Corrib	2000	14.5	1.3	10.8	22.4
2024	Corrib	1358	13.6	1.3	10.4	19.3

Table 3 PIT tag detections from returning adult salmon tagged since 2016.

Tagging year	Location	No. of smolts tagged	No. of returning adults detected	% Marine survival
2016	Erriff	1022	36	3.5
2017	Erriff	553	11	2
2018	Erriff	892	34	3.8
2019	Erriff	912	29	3.2
2020	Erriff	395	6	1.5
2021	Erriff	1109	23	2.1
2022	Erriff	947	22	2.3
2023	Erriff	964	13	1.3
2017	Corrib	1600	119	7.4
2018	Corrib	1988	78	4
2019	Corrib	2057	110	5.3
2020	Corrib	1992	50	2.5
2021	Corrib	1999	53	2.7

Figures may be revised based on additional adult returns in following years.

4.3 Biological assessment of salmon populations

4.3.1 Salmon life history overview

Salmon scales have been collected from the commercial fisheries, anglers and from research projects (notably from the NSIC Erriff and IFI National Salmon Scale Project) building up a scale collection for analysis. To date the collection consists of scales of 21,518 fish from 68 fisheries around the country. A sample of scales of these fish has been aged through scale reading. Of the 3,657 fish for which age has been determined, 1,171 of fish were MSW fish, 2,368 were grilse; 118 fish were previously spawned grilse (PSG) (i.e. a grilse that spawned, returned to sea as a kelt and subsequently returned to the river for a second time), and one was a kelt. Of these fish types, the MSW were on average the largest, with a mean weight of 4.82 kg, PSG had an average weight of 4.66kg and grilse an average weight of 2.29 kg (Table 4). Most of the grilse were below 4 kg and most MSW and PSG were 4 kg or above (Figure 5). The relative occurrence of fish life history types in samples received from different catchments 1982-2024 is presented in (Figure 6). MSW fish numbers peak earlier in the year than grilse and PSG (Figure 7).

Table 4 Summary of weights (kg) of fish for which age has been determined by scale reading 1982-2024.

Fish Type	Mean (kg)	SD	n
Grilse	2.29	0.80	1966
MSW	4.82	1.50	1078
PSG	4.66	1.90	89
Total			3133

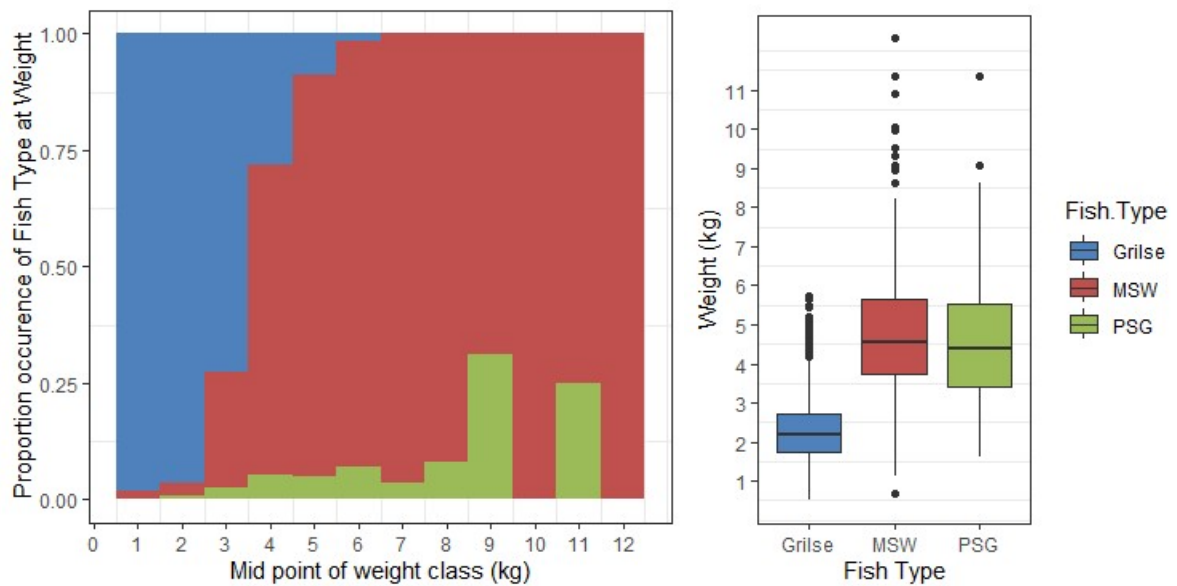


Figure 5 Left panel: Occurrence of fish life history by weight (kg) to end 2024. Right panel: Boxplots of weights (kg) of individual fish of different types (n: grilse-1966, MSW-1078, PSG-89).

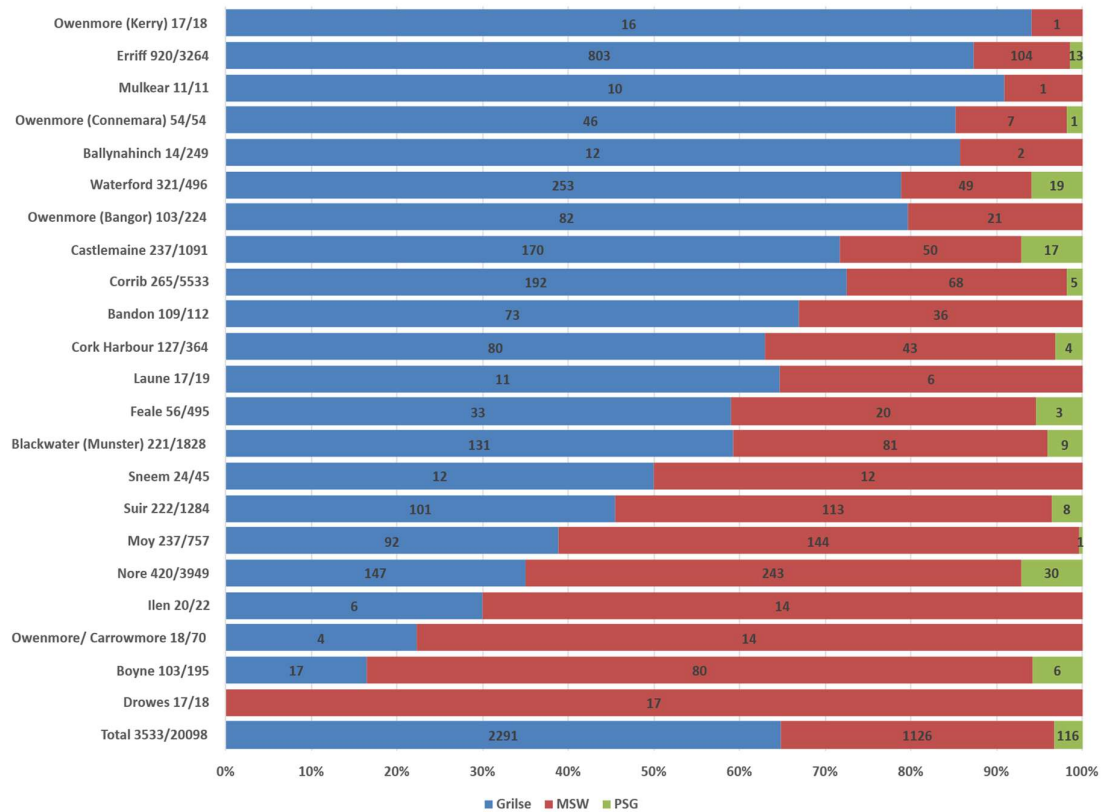


Figure 6 Relative occurrence of fish life history in samples received from different catchments 1982-2024 (Only rivers with >10 fish read are displayed) (Numbers indicate: number of scales read/number of scales in database).

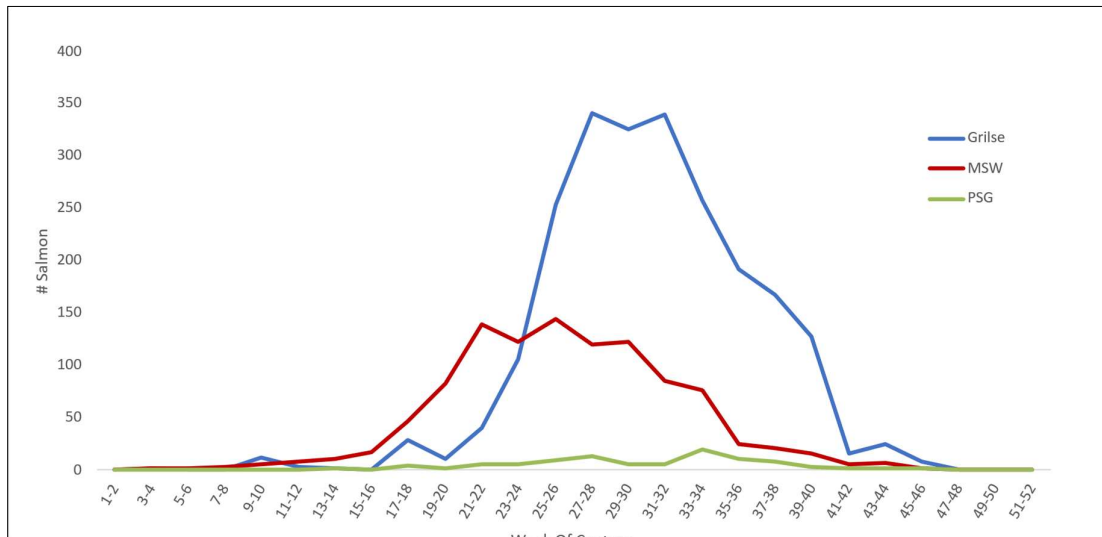


Figure 7 Life history of fish by week of capture. MSW fish are more abundant earlier in the year, grilse and PSG are more abundant later in the year (all years, all rivers, grouped into 2-week periods) (n = 2254 grilse, 1062 MSW & 96 PSG).

4.3.2 Salmon life history assessment 2024

Scale samples received in 2024 came from the Erriff catchment and were from fish captured in the Ashleigh trap during 2024. Overall, 95 samples were received. The scales of 86 fish were read to determine life history. Of those, 86% were grilse and 14% were MSW. Sizes of fish ranged from a 710 g grilse to a 4.8 kg (Figure 9).



Figure 8 Left panel: 4.8kg multi sea-winter salmon sampled 16/06/2024. Right panel: 810g grilse sampled on 20/11/2024, both fish sampled and released at the Aashleagh Falls trap on the Erriff.

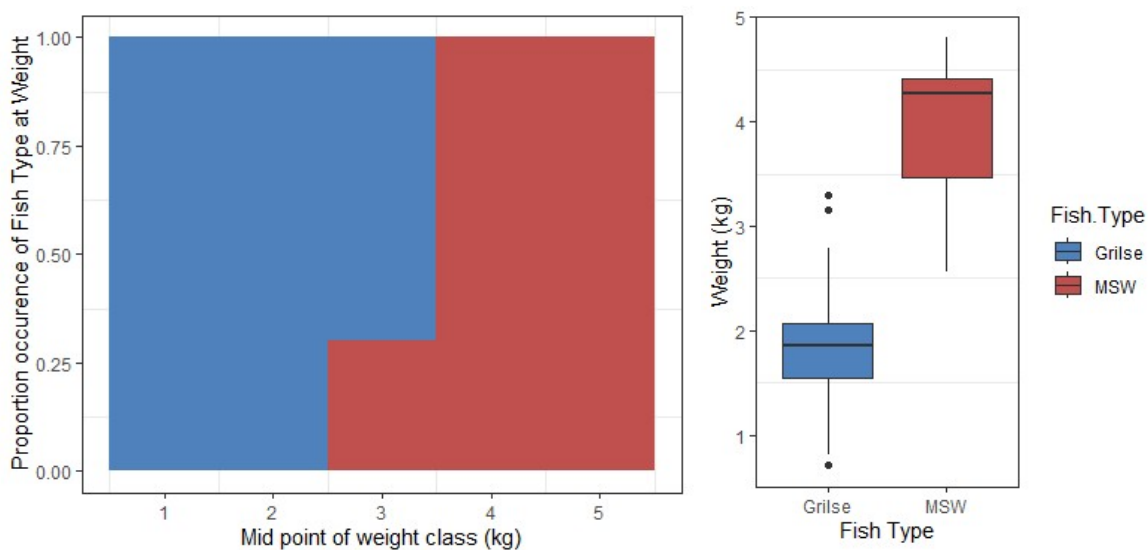


Figure 9 Left panel: Occurrence of fish life history by weight (kg) from salmon scale samples examined in 2024. Right panel: Boxplots of weights (kg) of individual fish of different types from samples examined (n= 74 grilse, 10 MSW).

5 References

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- Crozier, W.W. and Kennedy G.J.A (1994). Application of semi-quantitative electro-fishing to juvenile salmonid stock surveys. *Journal of Fish Biology*, 45:159-164.
- Gargan, P., Roche, W., Keane, S. and Stafford, T. (2008). Catchment-wide electrofishing Report. Central Fisheries Board, Mobhi Boreen, Dublin 9.

Appendices:

A Catchment-wide electrofishing

A.1 Eastern River Basin District

Summary

Since 2007, 16 rivers have been surveyed in the Eastern River Basin District (ERBD) as part of the ongoing catchment-wide electrofishing surveys. The results of these surveys are presented in Table 5 and Fig. 10. At the present time, none of the rivers meet the threshold index of 17 salmon fry/5min. Surveys on the Castletown, Glyde, Dee, Monaghan Blackwater, Lower Liffey, Dodder and Dargle rivers were completed in 2024.

Table 5 Catchment-wide electrofishing data for the Eastern River Basin District 2016-2024 showing the average salmon fry captured /5min for each year surveyed. Also shown is the current index, surveys prior to 2016 are included in Appendix C

Code/River	Survey Year									Current Index	# Annual Surveys Considered
	2016	2017	2018	2019	2020	2021	2022	2023	2024		
002/Flurry					37.55‡	1.35‡	5.58			9.32	3
003/Castletown				5.58	1.87				10.89	10.98	5
004/Fane		0.5‡	3.65					10.39		14.09	4
005/Glyde				4.02		6.58		10.73‡	21.24	13.73	5
006/Dee				4.53‡	7.59			2.59‡	4.59	12.91	5
Blackwater (Monaghan)									0.07†		
008/Boyne	14.47				14.94					16.01	5
13/Broadmeadow										0.00	1
014/Tolka			0.00							0.36	3
015/Liffey Lower	6.75		19.18				9‡	14.33‡	16.72	14.45	5
015/Liffey Upper	2.63‡		1‡			1.49‡	2.24			8.45	5
016/Dodder							1.25		30.60	15.26	3
018/Dargle				1.03					5.89	4.37	5
020/Newcastle			0.00							0.00	1

Bold annual figures indicate years included in the calculation of current the CWF index.

Underlined index figures indicate those exceeding the 17 salmon fry threshold.

‡ Incomplete surveys not included in the calculation of current index.

† Sub-catchment surveys.

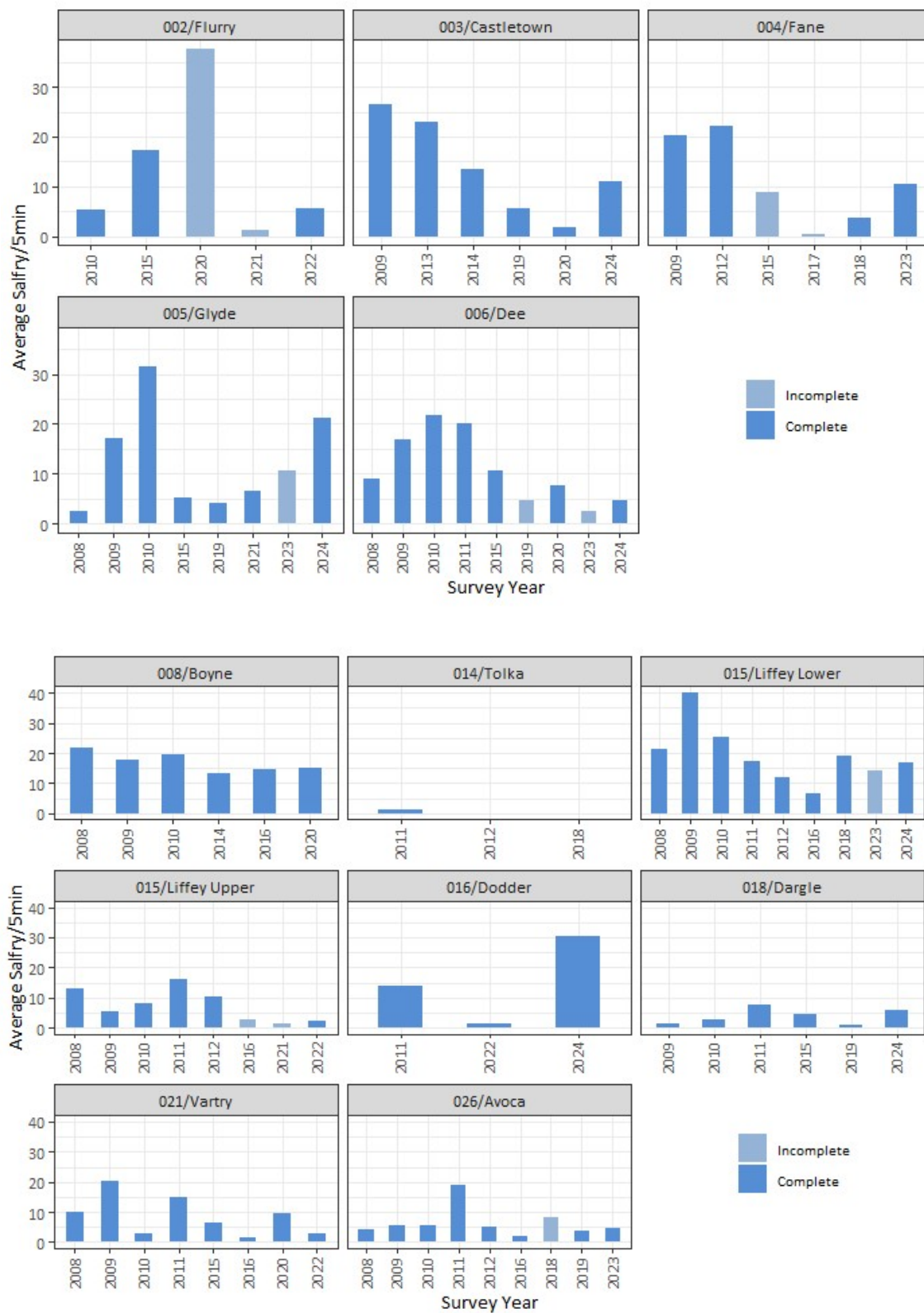


Fig. 10 Summary results of annual CWF surveys (average salmon fry per 5min) in results in ERBD 2007-2024 (Broadmeadow, Monaghan Blackwater and Newcastle omitted).

A.1.1 Castletown River

IFI Salmon Catchment #: 3
 2024 survey dates: 6 - 16/7/2024
 Mean Salmon Fry/5 min (2024): 10.89 fry/5min
 CWEF Index: 10.98 fry/5min.

Sampling carried out by:	Fish Species Present:	
Seamus Kelledy	Brown Trout	Salmon
Steven McKenna	European Eel	Stone loach
Cian Breen	Gudgeon	
Dermot Wynne		
Jason Mok		

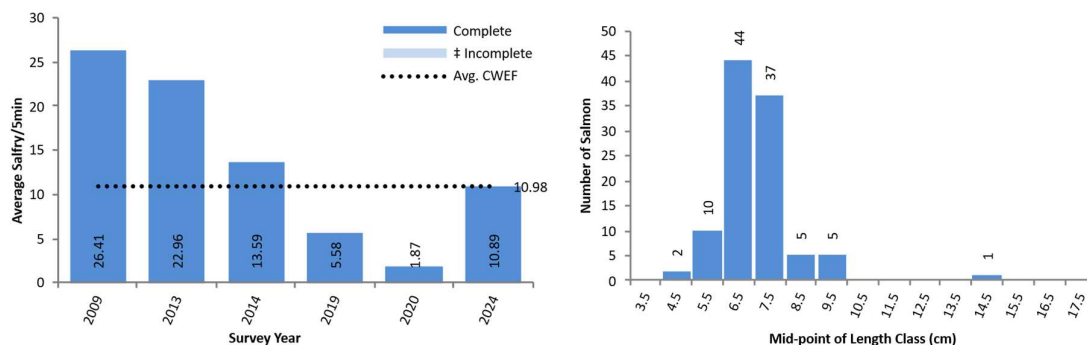


Fig. 11 Summary of results of annual CWEF surveys (salmon fry/5min) along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Castletown River.

In this year's survey of the Castletown, 13 sites were examined from July 6th to 16th. Salmon fry (0+) were found at 8 sites, with the highest number recorded at site 4, where 27 salmon fry were observed. The modal length of 0+ salmon was 6cm. The modal length of 0+ salmon was 6.5 cm.

10 sites were included in the analysis; the mean catch at these sites was 10.89 salmon fry/5min.

Conclusion

The Castletown had a salmon fry abundance of 10.89 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 10.98 salmon fry/5min which is below the 17 salmon fry threshold.

Table 6 Site specific results of CWF on the Castletown River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
2	J 01903 09874	3	2	3	22	Include	3.48	25.52
3	H 98585 10316	2	3	4	0	Include	4.00	0.00
4	H 97781 10681	2	2	5	27	Include	5.47	29.53
5	J 02384 10907	3	1	7	0	Include	10.00	0.00
6	J 00311 14007	3	2	8	3	Eff <60%		
7	J 02689 11965	4	1	3	0	Eff <60%		
8	J 01262 14525	4	1	8	4	Include	9.33	4.67
9	J 02621 10580	4	1	2	16	Include	2.33	18.67
10	J 02383 11759	4		2	12	Include	2.43	14.57
11	J 01960 10216	3	2	4	6	Include	4.80	7.20
12	J 00700 09890	3	2	3	0	Include	3.00	0.00
13	J 01022 12535	3		0	0	Not Fishable		
14	J 02456 10972	4	3	1	7	Include	1.25	8.75

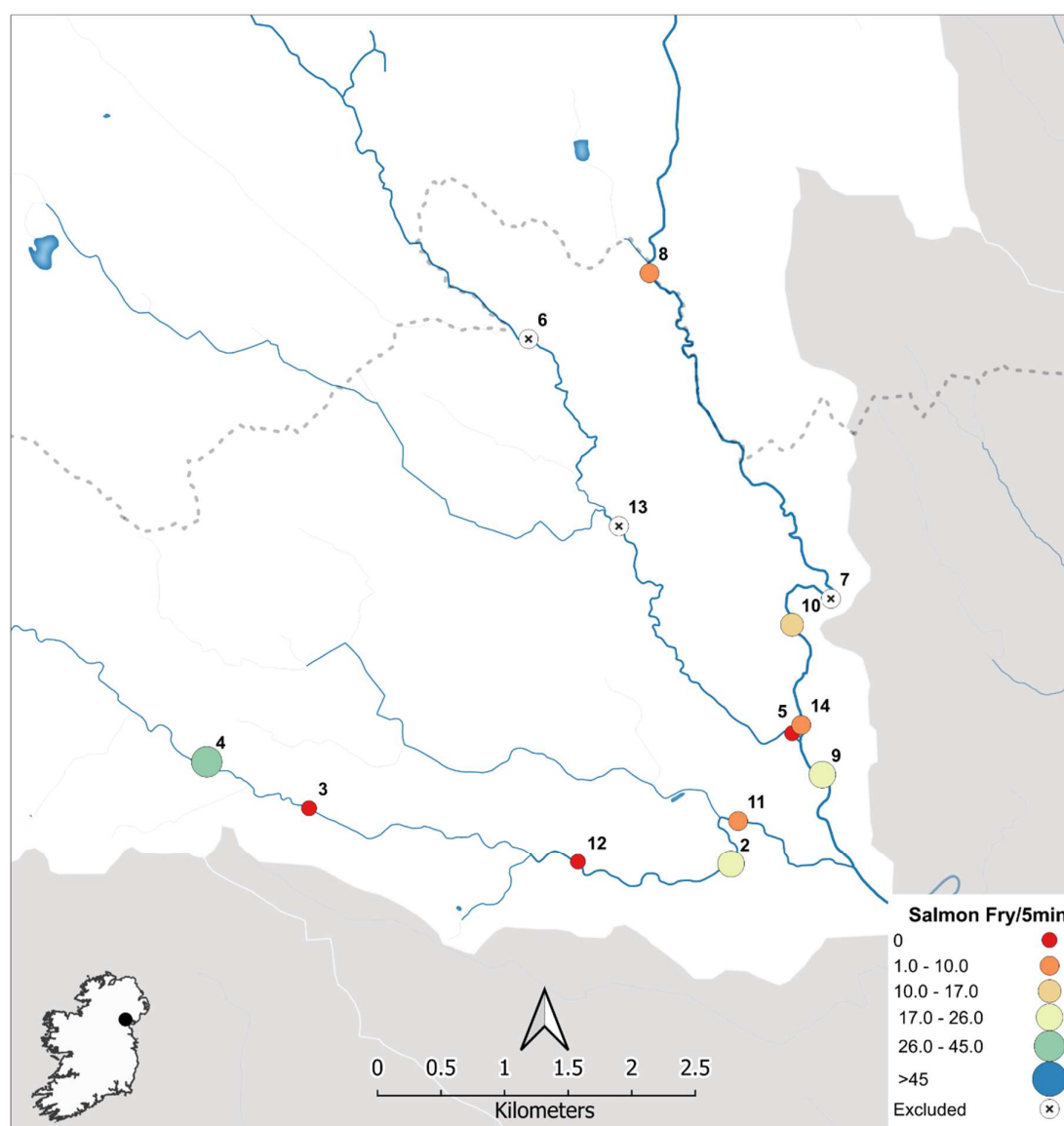


Figure 12 Showing salmon fry/5min values and locations of surveys on the Castletown River in 2024.

A.1.2 Glyde River

IFI Salmon Catchment #:	5	
2024 survey dates:	1/7/2024	
Mean Salmon Fry/5 min (2024):	21.24 fry/5min	
CWEF Index:	13.73 fry/5min.	
Sampling carried out by:	Fish Species Present:	
Seamus Kelledy	Brown Trout	Salmon
Steven McKenna	European Eel	Stone loach
Dermot Wynne	Minnow	3 Spined Stickleback
Cian Breen		

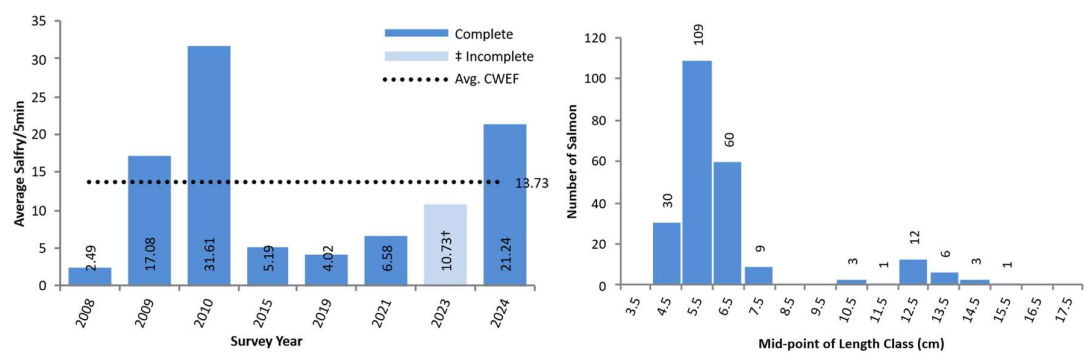


Fig. 13 Summary of results of annual CWEF surveys (salmon fry/5min) along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Glyde River.

In this year’s survey of the Glyde, 12 sites were examined on July 1st. Salmon fry (0+) were found at 8 sites, with the highest number recorded at site 99, where 58 fry were observed. The modal length of 0+ salmon was 5.5 cm.

11 sites were included in the analysis; the mean catch at these sites was 21.24 salmon fry/5min.

Conclusion

The Glyde had a salmon fry abundance of 21.24 salmon fry/5min in 2024. Taking the five most recent complete surveys into account this results in a cumulative average of 13.73 salmon fry/5min which is below the 17 salmon fry threshold.

Table 7 Site specific results of CWF on the Glyde River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
3	H 86832 03758	3	2	1	1	Include	1.50	1.50
5	N 79877 97535	3	1	22	33	Include	26.80	40.20
11	H 80054 01081	2	3	7	0	Include	9.00	0.00
13	H 84067 05783	2	2	4	0	Include	5.00	0.00
14	H 86315 05731	2	2	2	6	Include	2.00	6.00
15	N 82565 96616	4	1	1	4	Eff <60%		
17	H 85761 06148	2	2	9	6	Include	10.20	6.80
18	N 95526 97702	5	1	3	14	Include	3.00	14.00
20	N 94803 99212	5	1	0	29	Include	0.00	37.00
21	H 89825 00728	4	1	1	43	Include	1.02	43.98
23	N 80604 97928	4	1	12	14	Include	15.69	18.31
99	Unknown	0	1	8	58	Include	9.09	65.91

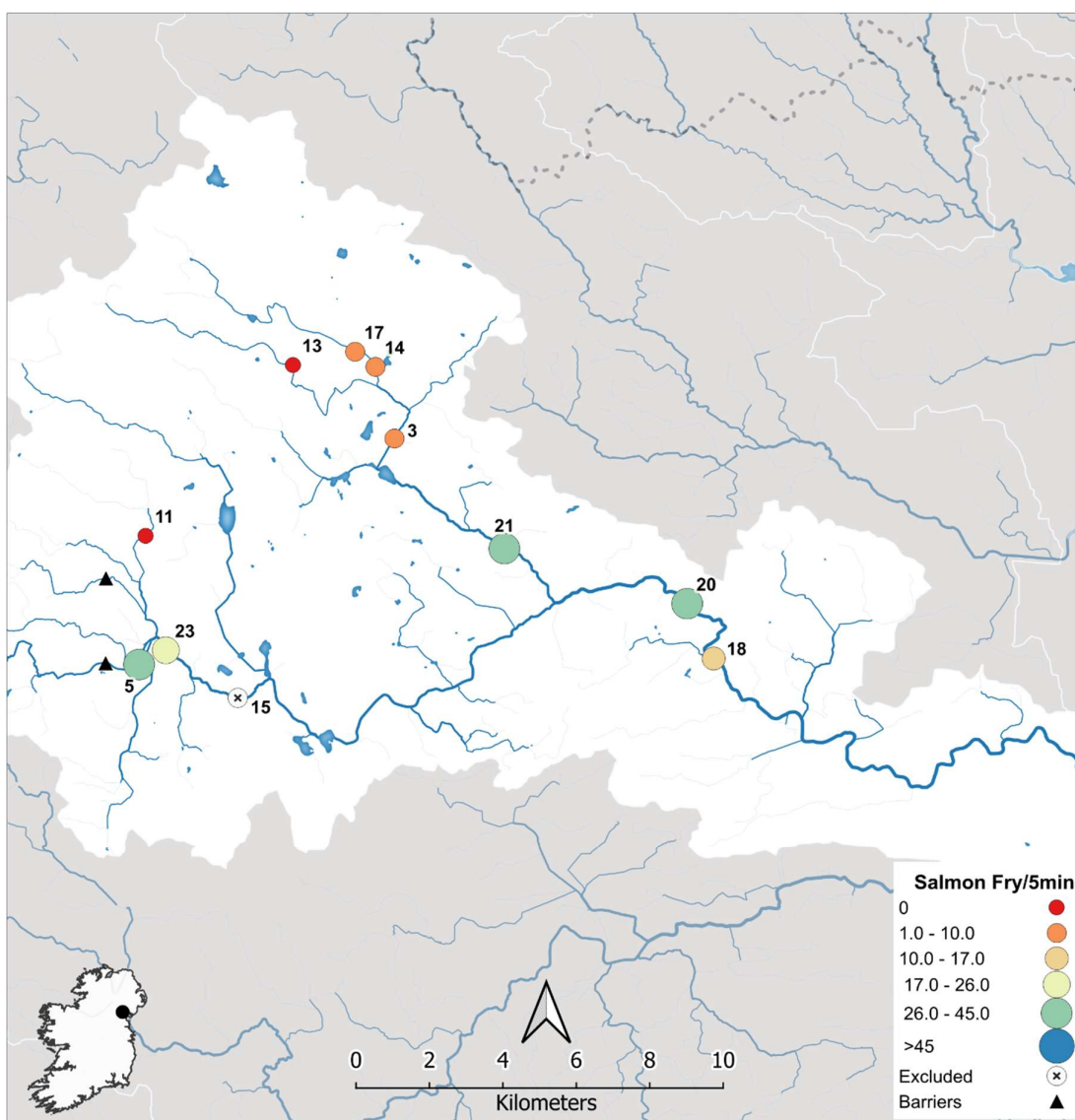


Figure 14 Showing salmon fry/5min values and locations of surveys on the Glyde River in 2024.

A.1.3 Dee River

IFI Salmon Catchment #:	6	
2024 survey dates:	2/7 - 6/7/2024	
Mean Salmon Fry/5 min (2024):	4.59 fry/5min	
CWEF Index:	12.91 fry/5min.	
Sampling carried out by:	Fish Species Present:	
Cian Breen	Brown Trout	Salmon
Dermot Wynne	European Eel	Stone loach
Jason Mok	Gudgeon	3 Spined Stickleback
Maurice Carolan	Minnow	
Seamus Kelledy		
Steven McKenna		

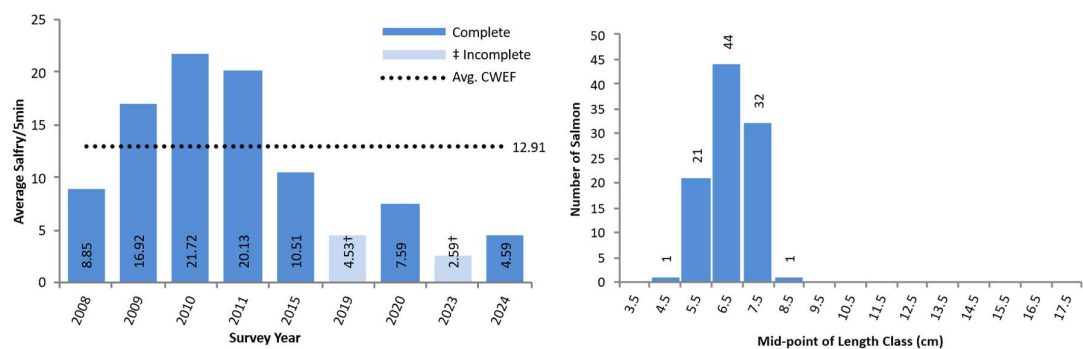


Fig. 15 Summary of results of annual CWEF surveys (salmon fry/5min) along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Dee River.

In this year's survey of the Dee, 31 sites were examined from July 2nd to 6th. Salmon fry (0+) were found at 11 sites, with the highest number recorded at site 11, where 17 salmon fry were observed. The modal length of 0+ salmon was 6.5 cm.

25 sites were included in the analysis; the mean catch at these sites was 4.59 salmon fry/5min.

Conclusion

The Dee had a salmon fry abundance of 4.59 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 12.91 salmon fry/5min which is below the 17 salmon fry threshold.

Table 8 Site specific results of CWF on the Dee River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	O 06606 91181	5	1	0	4	Include	0.00	4.00
2	O 05268 90647	5	2	1	0	Include	1.00	0.00
3	O 03271 90904	5		0	0	Include	0.00	0.00
4	N 88591 86932	4	1	7	12	Include	8.47	14.53
5	N 78766 91409	3	1	4	1	Include	5.60	1.40
6	N 77267 92468	3	3	4	0	Include	4.00	0.00
7	N 77028 93921	3	3	0	0	Include	0.00	0.00
9	O 05887 90322	4	2	10	14	Include	10.00	14.00
10	O 05892 89330	4	1	9	12	Include	9.86	13.14
11	O 05674 88746	3	2	4	17	Include	4.76	20.24
12	O 04630 88667	3		0	0	Too low		
13	N 94914 89392	3	3	5	0	Include	7.00	0.00
14	N 92617 89000	3		0	0	Inaccessible		
15	N 93166 87620	3	2	6	15	Include	7.71	19.29
16	N 93578 85575	3	3	13	0	Include	19.00	0.00
17	N 95061 84033	3	3	18	0	Include	23.00	0.00
18	N 95791 84467	2		0	0	Remove		
19	N 88474 90078	2		0	0	Include	0.00	0.00
20	N 88603 85711	3	1	4	0	Include	6.00	0.00
21	N 87836 84452	3	2	2	0	Include	2.00	0.00
22	N 87868 81359	3	2	13	0	Include	15.00	0.00
23	N 89164 84823	2		0	0	Unfishable		
24	N 87948 80871	3		0	0	Unfishable		
25	N 90207 81897	2	3	9	0	Include	11.00	0.00
27	N 79072 88974	3	2	9	5	Include	11.57	6.43
28	N 77537 89981	3	2	10	0	Include	14.00	0.00
29	N 73805 91827	4	2	4	0	Eff <60%		
30	N 97311 90930	5	1	1	8	Include	1.00	8.00
31	N 89615 88073	4	1	3	6	Include	3.67	7.33
35	N 92298 88588	3	2	2	5	Include	2.57	6.43
99	Unknown	0		0	0	Include	0.00	0.00

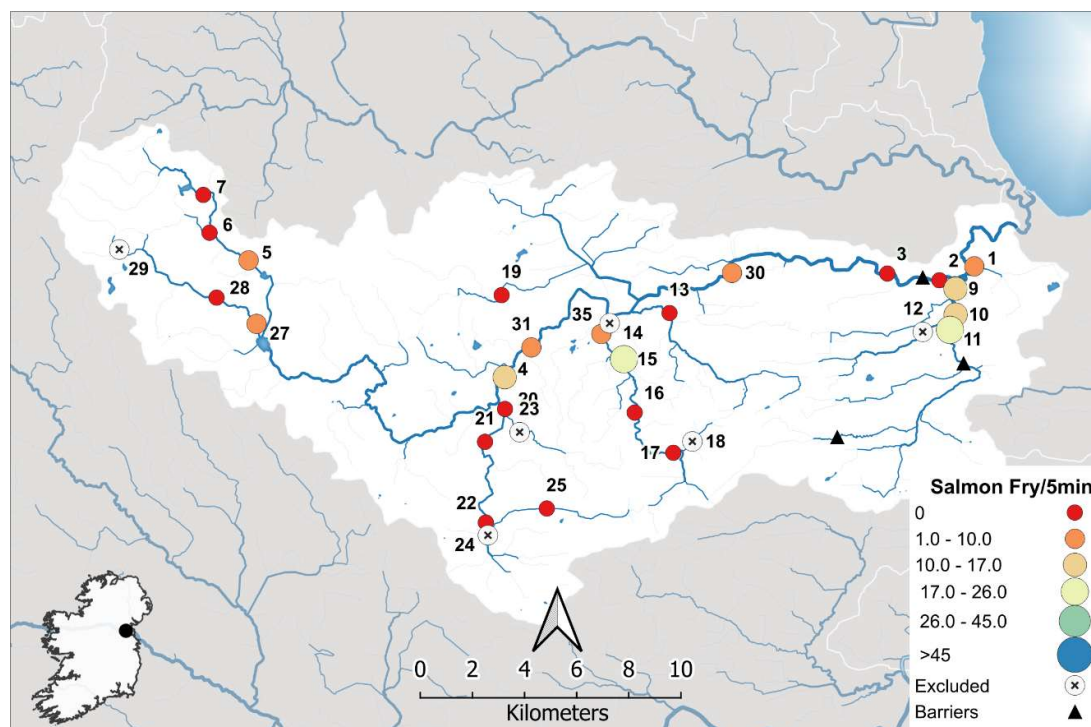


Figure 16: Showing salmon fry/5min values and locations of surveys on the Dee River in 2024

A.1.4 Monaghan Blackwater

IFI Salmon Catchment #:	4	
2024 survey dates:	28/8 - 17/9/2024	
Mean Salmon Fry/5 min (2024):	0.07 fry/5min	
CWEF Index:	Not calculated.	
Sampling carried out by:	Fish Species Present:	
Seamus Kelledy	Brown Trout	Minnow
Steven McKenna	White Clawed Crayfish	Salmon
Jason Mok	European Eel	Stone loach
Cian Breen	Gudgeon	3-spined Stickleback

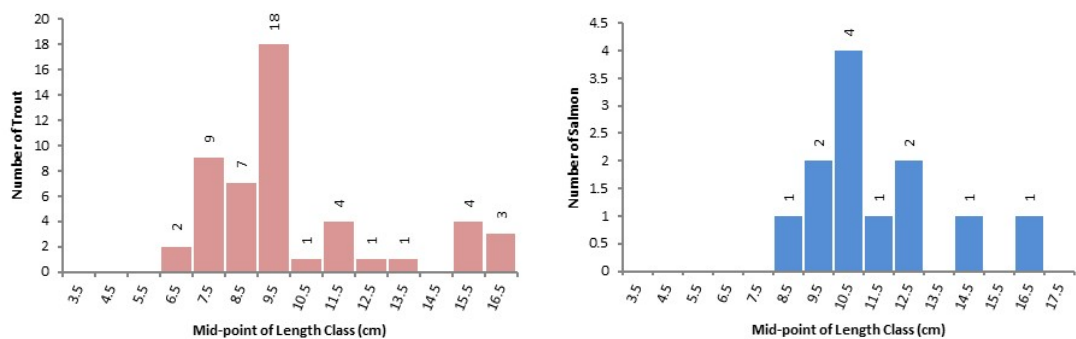


Fig. 17 Length Distribution of trout (left) and of salmon captured in 2024 (right) on the Monaghan Blackwater River.

In this year’s survey of the Monaghan Blackwater, 15 sites were examined between August 28^h and September 17th. Juvenile salmon were observed 5 at sites along the main channel of the Blackwater, they ranged in length from 8 to 17cm.

Conclusion

Small numbers of salmon fry and parr were observed in the Monaghan Blackwater.

Table 9 Site specific results of CWF on the Monaghan Blackwater River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout 0+ Captured	Trout >0+ Captured	Salmon 0+ Captured	Salmon >0+ Captured	Site Status
1	H 65364 31977	2	3	0	0	0	0	Include
2	H 65422 31631	2	2	0	11	0	0	Include
3	H 65218 32225	2	1	4	6	0	0	Include
4	H 64477 33361	4	2	0	2	0	0	Include
5	H 57567 38751	1						Stream Order<2
6	H 58129 37728	2		0	0	0	0	Include
7	H 58769 37321	2		0	0	0	0	Include
8	H 60212 37088	2	1	0	4	0	0	Include
9	H 60844 37060	2	1	0	2	1	0	Include
10	V 00000 00000	2	2	0	1	0	0	Include
11	H 63898 35771	3	1	2	8	0	1	Include
12	H 65435 34563	4	2	3	1	0	0	Include
13	H 66328 34662	5	3	2	1	0	2	Include
14	H 69203 37047	5	2	0	2	0	1	Include
15	H 70264 37728	5	3	0	1	0	7	Include

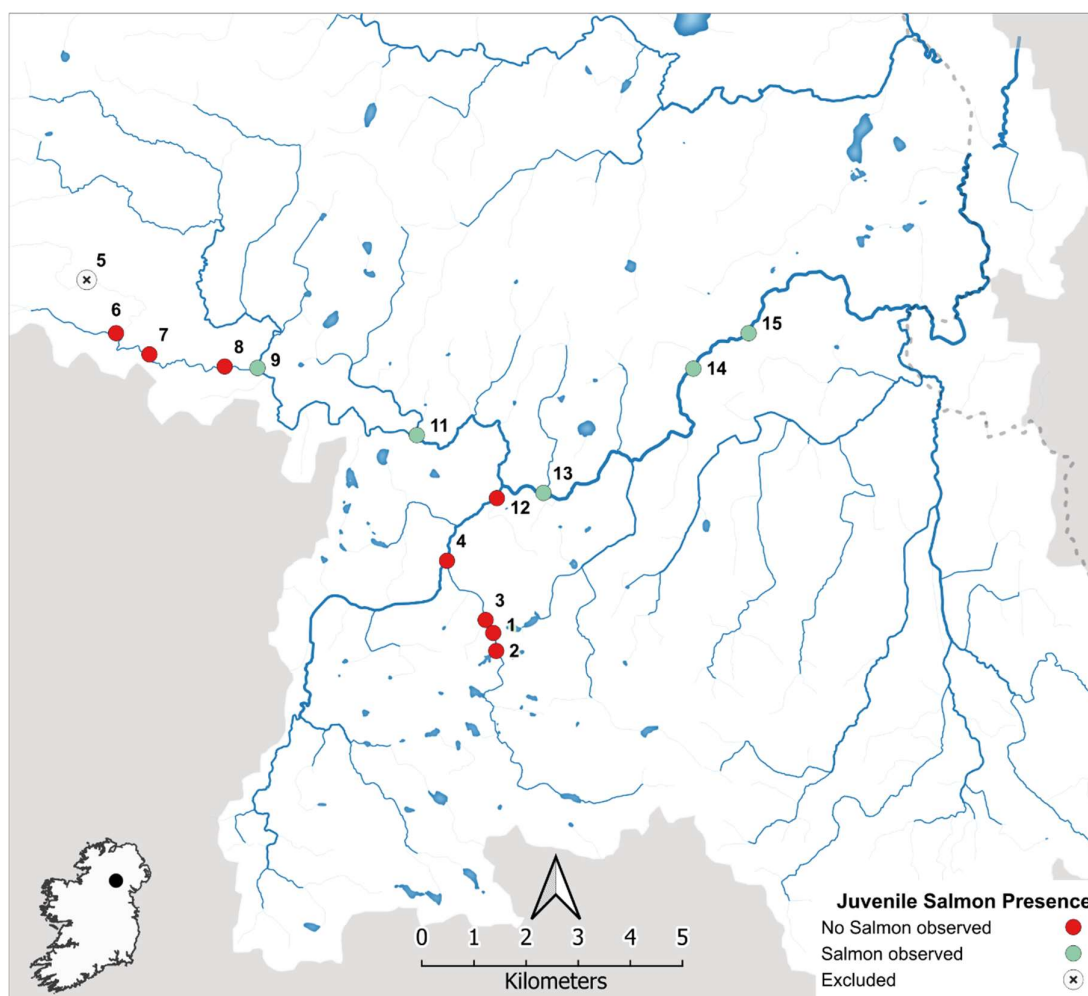


Fig. 18 Showing locations of surveys on the Monaghan Blackwater River in 2024 and indicating salmon presence (0+ and 1+ juveniles).

A.1.5 Lower Liffey River

IFI Salmon Catchment #: 15
 2024 survey dates: 8 - 20/8/2024
 Mean Salmon Fry/5 min (2024): 16.72
 CWEF Index: 14.45 fry/5min.

Sampling carried out by:

Carl Owens
 Fergal Caffrey
 Sean Dempsey
 Robert Mortimer

Fish Species Present:

Brown Trout Salmon
 European Eel Stone Loach
 Lamprey sp. White Clawed Crayfish
 Minnow 3-Spined Stickleback

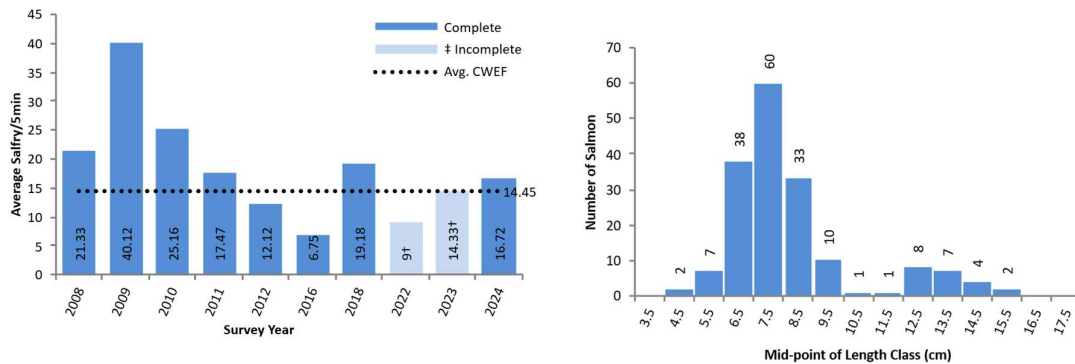


Fig. 19 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Lower Liffey river.

This year's survey on the Lower Liffey (that part of the Liffey not above the Leixlip hydro station) consisted of 9 sites which were examined from August 8th to 20th. Salmon fry (0+) were found at all 9 sites. The modal length of 0+ salmon was 7.5 cm.

All 9 sites were included in the analysis; the mean catch at these sites was 16.72 salmon fry/5min.

Table 10 Site specific results of CWEF on the lower Liffey catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	O 10070 34644	6	1	0	8	Include	0.00	8.00
18	O 00517 36425	4	2	14	14	Include	14.50	14.50
26	O 06791 35732	6	2	1	15	Include	1.00	15.00
27	O 05363 36405	6	2	0	22	Include	0.00	22.00
29	O 01324 35800	6	1	0	29	Include	0.00	29.00
73	N 96592 37891	4	3	6	13	Include	6.00	13.00
74	O 00430 35860	4	2	2	19	Include	2.00	19.00
103	O 00085 36773	4	2	9	13	Include	9.00	13.00
109	N 97352 37672	4	3	9	17	Include	9.00	17.00

Conclusion

The Liffey Lower had a salmon fry abundance of 16.72 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 14.45 salmon fry/5min which is below the 17 salmon fry threshold.

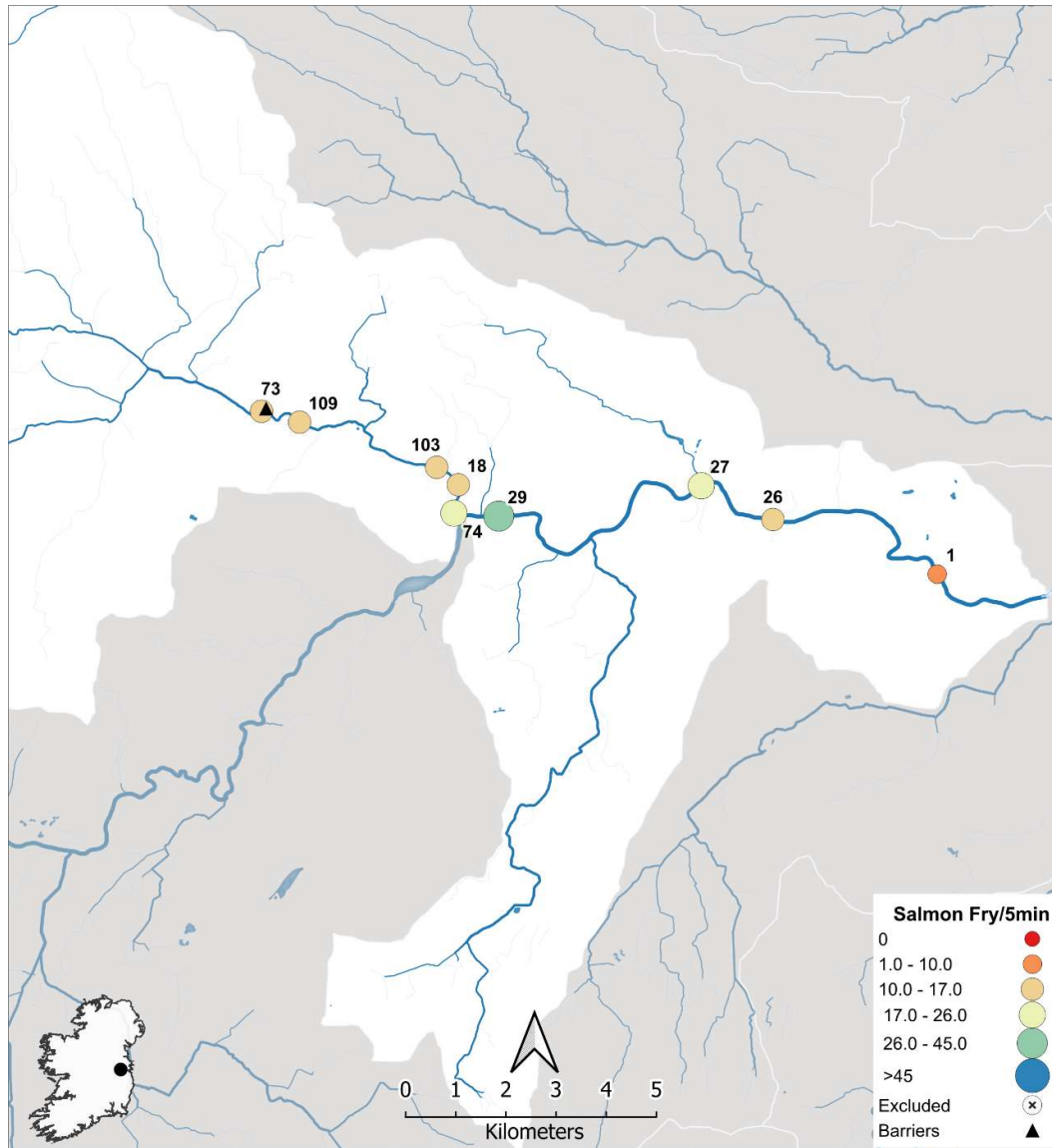


Fig. 20 Showing salmon fry/5min values and locations of surveys on the lower Liffey in 2024.

A.1.6 Dodder River

IFI Salmon Catchment #:	16
2024 survey dates:	21/8/2024
Mean Salmon Fry/5 min (2024):	30.60
CWEF Index:	15.26 fry/5min.
Sampling carried out by:	Fish Species Present:
Carl Owens	Brown Trout Salmon
Sean Dempsey	European Eel Stone Loach
Robert Mortimer	Flounder 3-Spined Stickleback
	Minnow

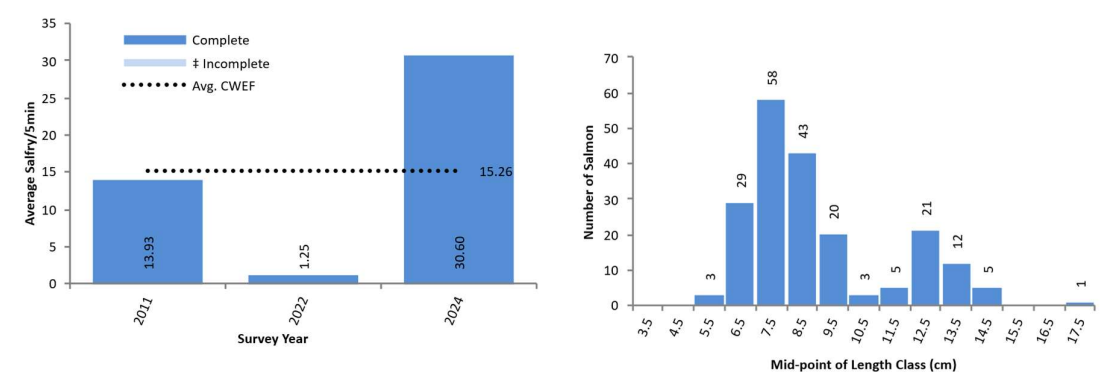


Fig. 21 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Dodder river.

In this year's survey of the Dodder, 5 sites were examined on August 21st. Salmon fry (0+) were found at 4 sites, with the highest number recorded at site 14, where 54 salmon fry were observed. The modal length of 0+ salmon was 7.5 cm.

All 5 sites were included in the analysis; the mean catch at these sites was 30.6 salmon fry/5min.

Table 11 Site specific results of CWEF on the Dodder catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	O 17649 31072	4	1	3	33	Include	3.00	33.00
2	O 17760 31195	4	1	9	40	Include	9.00	40.00
13	O 16920 30476	4	2	16	0	Include	16.00	0.00
14	O 17829 32043	4	1	3	54	Include	3.00	54.00
15	O 17754 31734	4	1	10	26	Include	10.00	26.00

Conclusion

The Dodder had a salmon fry abundance of 30.6 salmon fry/5min in 2024. Taking the 3 most recent complete surveys into account this results in a cumulative average of 15.26 salmon fry/5min which is below the 17 salmon fry threshold.

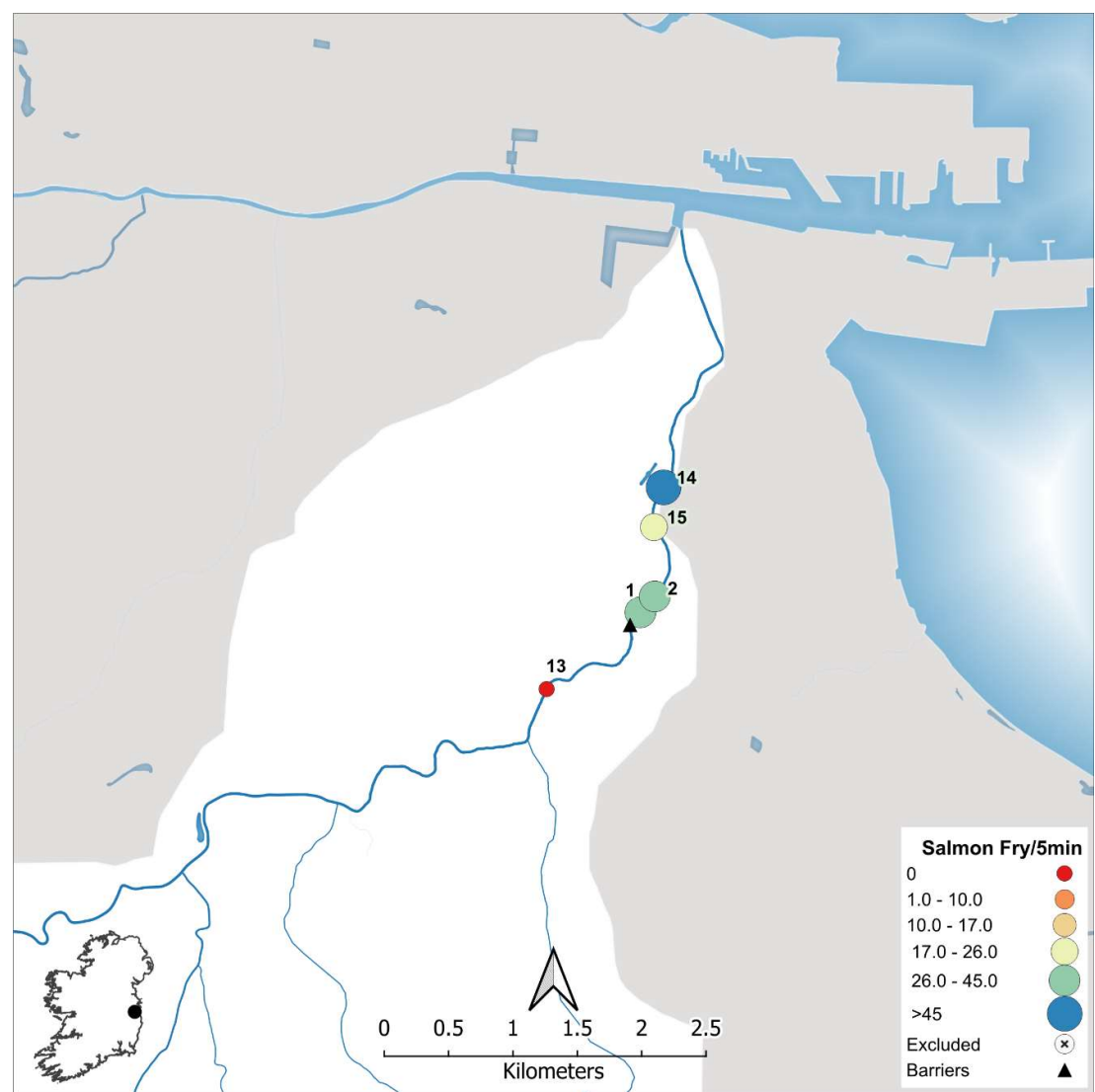


Fig. 22 Showing salmon fry/5min values and locations of surveys on the Dodder in 2024.

A.1.7 Dargle River

IFI Salmon Catchment #: 18
 2024 survey dates: 21/8 - 3/9/2024
 Mean Salmon Fry/5 min (2024): 5.89
 CWEF Index: 4.37 fry/5min.

Sampling carried out by: Fish Species Present:
 Carl Owens Brown Trout Salmon
 Martin Dennihy European Eel Stone Loach
 Robert Mortimer

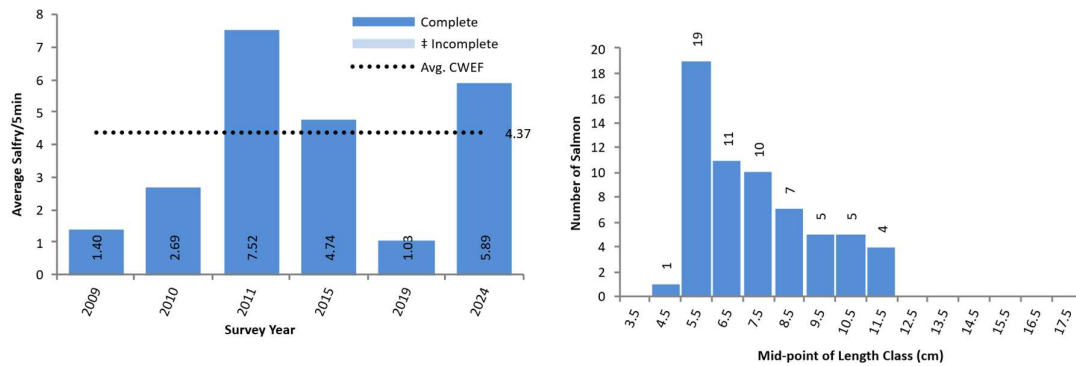


Fig. 23 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Dargle river.

In this year's survey of the Dargle, 9 sites were examined from August 21st to September 3rd. Salmon fry (0+) were found at 7 sites, with the highest number recorded at site 3, where 19 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

All 9 sites were included in the analysis; the mean catch at these sites was 5.89 salmon fry/5min.

Table 12 Site specific results of CWEF on the lower Liffey catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
2	O 22116 16088	5	1	16	14	Include	16.00	14.00
3	O 20845 14921	5	1	13	19	Include	13.00	19.00
8	O 21323 15635	5	1	13	6	Include	13.00	6.00
11	O 20226 14527	4	1	37	5	Include	37.00	5.00
12	O 20756 13295	4	1	25	0	Include	25.00	0.00
14	O 20000 12124	3	1	12	0	Include	12.00	0.00
20	O 25635 18507	5	1	11	6	Include	11.00	6.00
35	O 24358 17124	5	3	4	1	Include	4.00	1.00
38	O 20648 13914	4	1	16	2	Include	16.00	2.00

Conclusion

The Dargle had a salmon fry abundance of 5.89 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 4.37 salmon fry/5min which is below the 17 salmon fry threshold.

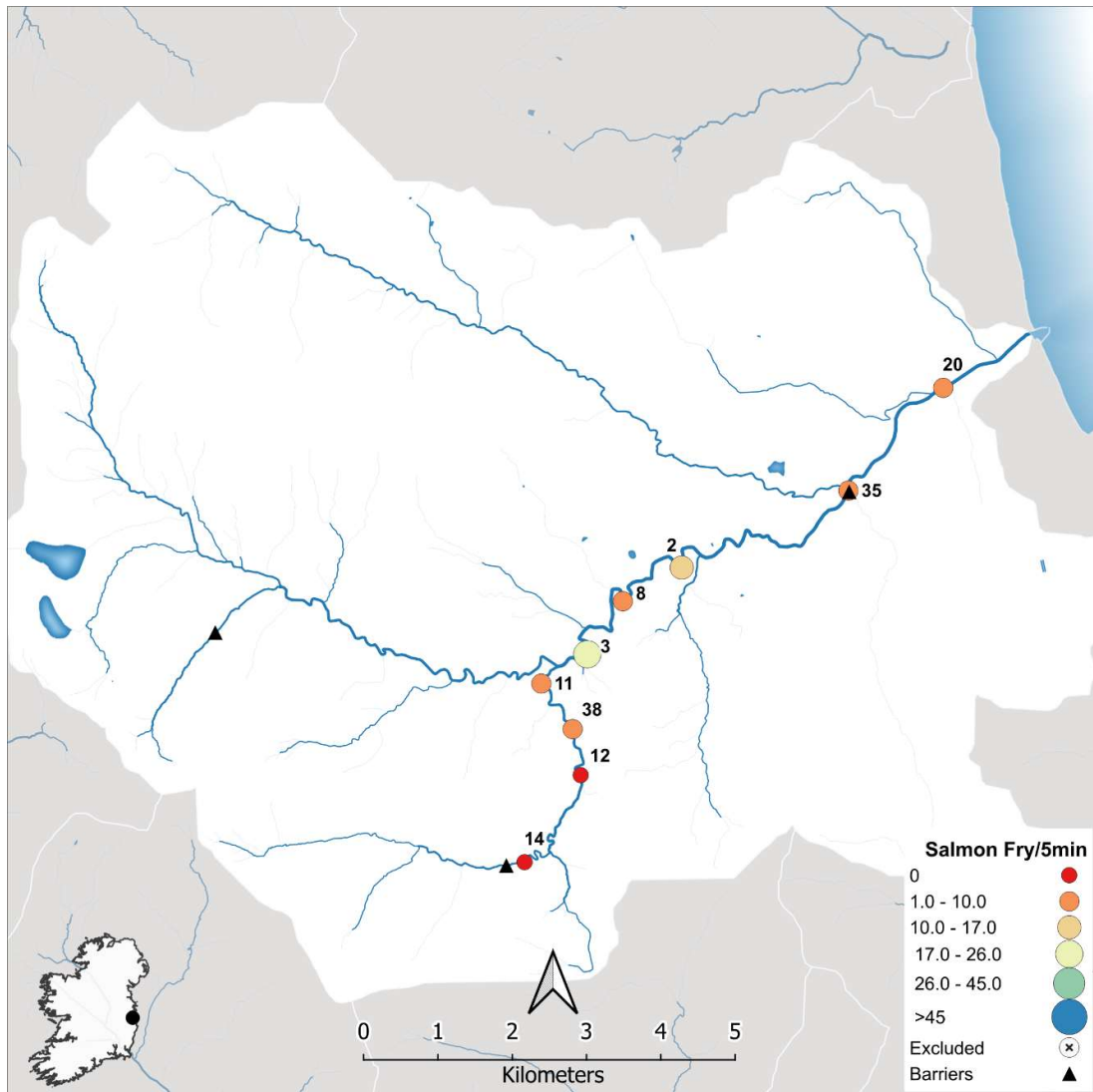


Fig. 24 Showing salmon fry/5min values and locations of surveys on the Dargle 2024.

A.2 South Eastern River Basin District

Summary

Since 2007, fourteen rivers have been surveyed in the South Eastern River Basin District (SERBD) as part of the ongoing catchment-wide electrofishing surveys. The results of these surveys are presented in Table 13 and Fig. 25. Currently four of these rivers are meeting the threshold index of 17 salmon fry/5min: the Slaney, Barrow, Lingaun and Clodiagh. In 2024 surveys were completed on the Nore, Mahon, Tay and Colligan.

Table 13 Catchment-wide electrofishing data for the SERBD 2016-2024 showing the average salmon fry captured /5min for each year surveyed. Also shown is the current index, surveys prior to 2016 are included in Appendix C.

Code/River	Survey Year										Current Index	# Annual Surveys Considered
	2016	2017	2018	2019	2020	2021	2022	2023	2024			
028/Owenavorragh			6.20			2.40		4.58			3.62	5
031/Slaney	8.77	14.52		3.61†			28.39				<u>17.67</u>	5
033/Corock	5.47	1.23		6.47‡			0.26				11.02	4
034/Owenduff (Wx.)	4.33	0.40		16‡			1.56				6.57	5
037/Barrow	8.93‡	11.65		16.64				35.95			<u>22.75</u>	5
038/Nore	12.44			12.69‡		16.79			13.13		15.35	4
039/Blackwater (Wd.)					26.54			1.82			14.18	2
041/Lingaun	14.52				47.60			7.14			<u>23.09</u>	3
042/Glen (Wd.)	0.00										0.00	1
043/Suir	9.81						17.09				13.45	2
044/Clodiagh	11.77				51.00			7.88			<u>23.55</u>	3
050/Mahon				8.60					4.52		6.32	5
051/Tay	1.75				9.91				7.50		6.81	5
053/Colligan	3.62			4.84					5.07		10.47	5

Bold annual figures indicate years included in the calculation of current the CWF index.

Underlined index figures indicate those exceeding the 17 salmon fry threshold.

‡ Incomplete surveys not included in the calculation of current index; † Sub-catchment surveys.

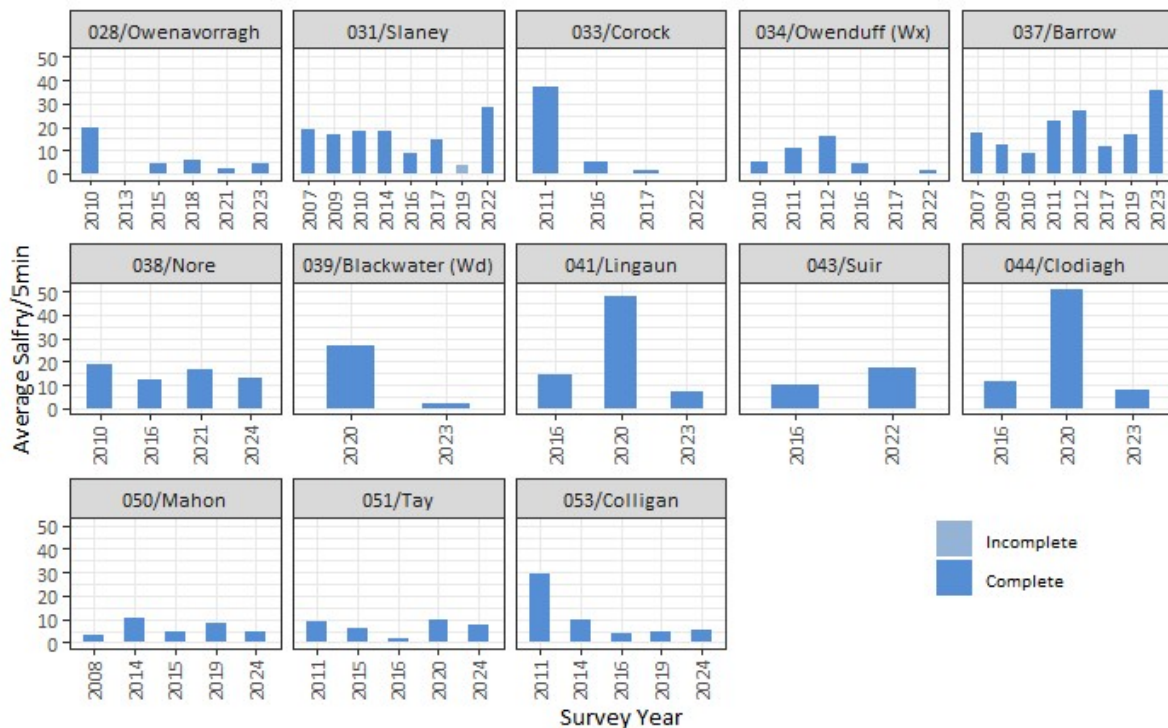


Fig. 25 Summary results of annual CWF surveys (average salmon fry per 5min) in results in SERBD 2007-2024, River Glen has been omitted.

A.2.1 Nore River

IFI Salmon Catchment #:	38	
2024 survey dates:	10/7 - 31/8/2024	
Mean Salmon Fry/5 min (2024):	13.13 fry/5min	
CWEF Index:	15.35 fry/5min.	
Sampling carried out by:	Fish Species Present:	
Declan Cullagh	Brown Trout	Minnow
John Hyland	Dace	Roach
Mark Whelan	European Eel	Salmon
Simon Allen	Gudgeon	Stone Loach
Tony Holmes	Lamprey sp.	3-Spined Stickleback

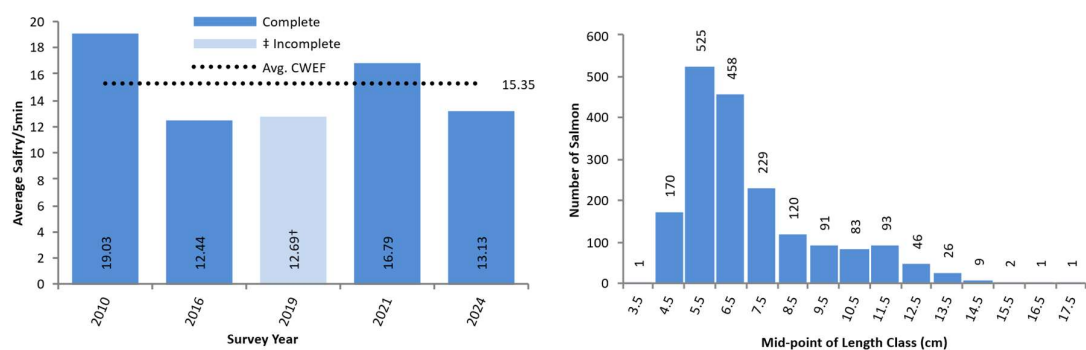


Fig. 26 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Nore river.

In this year's survey of the Nore, 158 sites were examined from July 10th to August 31st. Salmon fry (0+) were found at 140 sites, with the highest number recorded at site 28, where 90 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

132 sites were included in the analysis; the mean catch at these sites was 13.13 salmon fry/5min.

Conclusion

The Nore had a salmon fry abundance of 13.13 salmon fry/5min in 2024. Taking the 4 most recent complete surveys into account this results in a cumulative average of 15.35 salmon fry/5min which is below the 17 salmon fry threshold.

Table 14 Site specific results of CWF on the Nore River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	S 23388 94893	3	1	2	4	Include	2.00	4.00
2	S 26029 94580	3	2	3	9	Include	5.00	15.00
3	S 26446 93160	3	2	6	17	Include	7.83	22.17
4	S 29178 92252	3	1	4	41	Include	5.16	52.84
5	S 27173 97932	3	1	6	15	Include	9.14	22.86
6	S 28292 96259	3	1	7	12	Include	8.84	15.16
7	N 29402 02062	3	1	2	7	Eff <60%		
8	N 30418 00971	3	1	4	35	Include	5.54	48.46
9	S 29129 98001	4	1	1	12	Include	1.54	18.46
10	S 28975 95564	4	1	0	11	Include	0.00	16.00
11	S 28010 94657	2	2	6	16	Include	9.00	24.00
12	S 29109 93504	4	2	4	12	Include	6.25	18.75
13	S 29488 92501	4	2	7	18	Include	8.12	20.88
14	S 39323 45360	4	1	0	9	Include	0.00	9.00
15	S 37115 47902	4	2	7	1	Include	8.75	1.25
16	S 36113 48546	4	2	8	1	Include	10.67	1.33
17	S 35601 51393	4		0		Not Sampled		
18	S 35075 52461	4	1	36	0	Include	41.00	0.00
19	S 10793 80517	3	2	4	0	Include	4.00	0.00
20	S 11503 80470	3	2	7	1	Include	9.63	1.38
21	S 12825 81366	3	2	3	2	Include	4.20	2.80
22	S 13952 81788	3	2	10	1	Include	14.55	1.45
23	S 14207 82901	3	2	11	2	Include	16.08	2.92
24	S 15787 84506	3	3	1	1	Unsuitable Habitat		
25	S 17270 85708	3	3	0	0	Include	0.00	0.00
26	S 23987 88056	4	3	0	6	Include	0.00	10.00
27	S 31617 93008	5	1	20	35	Include	26.91	47.09
28	S 34094 92126	5	1	0	90	Include	0.00	129.00
29	S 36227 89951	5	1	4	16	Include	5.60	22.40
30	S 37428 88000	5		0	0	Inaccessible		
31	S 40737 85973	5		0	14	Include	0.00	15.00
32	S 41145 84086	5	2	0	2	Include	0.00	2.00
32	S 41145 84086	5		0	0	Include	0.00	0.00
33	S 42555 80292	5		0	18	Include	0.00	21.00
34	S 41520 78604	5		0	16	Include	0.00	18.00
35	S 44066 72329	6		0	0	Inaccessible		
36	S 44539 70804	6	2	17	0	Include	17.00	0.00
37	S 44369 67029	6	2	0	0	Not Salmon Habitat		
38	S 44291 65053	6		0	24	Include		0.00
39	S 47377 61790	6	2	3	23	Strong Flow		
40	S 51065 55813	6		0	0	Too Fast And Deep		
41	S 55207 51633	6		0		Not Sampled		
42	S 55130 46045	6	2	0	7	Include	0.00	10.00
43	S 55123 42461	6	2	0	13	Include		0.00
44	S 51123 66331	2	2	16	5	Include		25.90
45	S 53327 66255	2	1	8	5	Include		11.08
47	S 53040 54795	4	1	1	2	Eff <60%		
48	S 52390 57252	4	2	4	1	Include	6.40	1.60
49	S 47896 62840	5		0	38	Include	0.00	43.00
50	S 49585 64620	5	2	0	5	Include	0.00	5.00
51	S 50776 67312	3	1	9	8	Eff <60%		
52	S 53041 69850	4		1	26	Include	1.26	32.74
53	S 55831 69102	4	1	1	15	Eff <60%		
54	S 59465 70240	3	1	5	37	Include	7.98	59.02
55	S 62027 69106	2	1	15	10	Include	19.20	12.80
56	S 61782 70079	3	3	5	13	Include	7.22	18.78
57	S 63580 71754	2	3	6	0	Include	7.00	0.00
58	S 44219 75761	4		3	24	Include	3.11	24.89
59	S 45114 77986	4	2	11	13	Include	17.88	21.13
60	S 46061 78335	4	1	6	6	Include	9.00	9.00

Table 14 Site specific results of CWF on the Nore River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
61	S 47129 79089	4	2	13	1	Include	19.50	1.50
62	S 47989 81024	3	2	9	0	Include	13.00	0.00
63	S 49028 81395	3	1	6	12	Include	7.00	14.00
65	S 51872 83757	2	2	2	0	Include	2.00	0.00
66	S 41330 78923	3		3	1	Include	3.75	1.25
67	S 34650 86601	3	2	10	2	Include	13.33	2.67
68	S 33013 73942	4	1	6	22	Include	8.14	29.86
69	S 34428 74819	4	2	8	10	Include	12.44	15.56
70	S 36285 77346	4	2	5	1	Include	6.67	1.33
71	S 31573 73539	4		3	10	Include	3.69	12.31
72	S 31565 77918	4	1	5	18	Include	7.17	25.83
73	S 34157 77754	4		2	4	Include	2.67	5.33
74	S 30306 77742	4		2	14	Include	2.50	17.50
75	S 26675 78752	3	2	6	2	Include	6.75	2.25
76	S 25700 78257	3	1	10	3	Include	11.54	3.46
77	S 52328 43776	5		0	0	Include	0.00	0.00
78	S 49650 43474	5	1	0	6	Include	0.00	6.00
79	S 45211 43055	5	2	0	3	Include	0.00	3.00
80	S 44250 43108	5	2	0	10	Include	0.00	10.00
81	S 41501 43902	5	2	0	4	Include	0.00	5.00
82	S 36840 43001	5	3	0	1	Include	0.00	1.00
83	S 33183 44148	5		2	13	Include	2.27	14.73
84	S 31791 44566	5	1	2	13	Include	3.33	21.67
85	S 30052 45293	5	2	7	4	Include	8.27	4.73
86	S 48510 39858	3	2	0	5	Include	0.00	5.00
87	S 47840 39061	3	2	5	4	Include	6.11	4.89
88	S 55532 38844	3	2	5	2	Include	7.14	2.86
89	S 56749 39856	3	3	2	1	Include	3.33	1.67
90	S 62570 29043	2	1	14	17	Include	18.52	22.48
91	S 62174 30084	2	1	16	8	Include	18.67	9.33
92	S 60699 32210	2	1	8	6	Include	12.57	9.43
93	S 62143 77789	2	2	1	1	Eff <60%		
94	S 56238 78031	3	2	2	7	Include	2.67	9.33
95	S 56569 79019	3	2	0	0	Impassable Barrier Ds		
96	S 56476 80699	3	1	0	0	Include	0.00	0.00
97	S 59768 77380	3	1	0	0	Include	0.00	0.00
98	S 58787 77497	3	3	1	0	Unsuitable For Fry		
99	S 57195 77837	3	3	3	17	Include	3.60	20.40
100	S 55683 77326	4	2	1	4	Include	1.60	6.40
101	S 53376 74711	4	2	3	15	Include	5.00	25.00
102	S 53433 71824	4	2	10	19	Include	15.86	30.14
103	S 53067 70008	4		1	18	Include	1.37	24.63
104	S 32354 97622	2	1	16	16	Include	21.50	21.50
105	S 32583 97337	3	1	11	22	Include	13.67	27.33
106	S 33918 96764	3	1	2	11	Include	2.31	12.69
107	S 35196 94934	4	2	1	5	Include	1.33	6.67
108	S 35390 91815	4	1	0	19	Include	0.00	24.00
109	S 27963 94656	2	1	7	11	Include	8.56	13.44
110	N 30213 00442	3	2	2	4	Include	3.00	6.00
111	S 49013 82684	3		5	1	Include	5.00	1.00
112	S 45774 78070	4	1	1	27	Include	1.14	30.86
113	S 30625 70312	4	2	1	9	Include	1.10	9.90
114	S 20523 78544	2		0		Not Sampled		
115	S 23237 75569	2	1	3	0	Include	5.00	0.00
116	S 29075 78368	4	2	3	2	Include	3.60	2.40
117	S 40861 77474	5	1	22	24	Include	33.48	36.52
118	S 23734 87855	4	3	0	0	Not Spawning Habitat		
119	S 23089 88178	2	2	19	0	Include	28.00	0.00
120	S 21075 86967	4		0	0	Bull In Field		
121	S 25238 89951	3	2	23	2	Include	29.44	2.56

Table 14 Site specific results of CWF on the Nore River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
122	S 29319 90562	4		0	0	Inaccessible		
123	S 48982 63544	5	1	4	15	Include	6.53	24.47
124	S 53655 73011	4	1	2	15	Include	3.29	24.71
125	S 53296 73188	3	2	5	6	Eff <60%		
126	S 57440 69406	4	2	3	34	Include	4.38	49.62
128	S 52969 55416	4	1	1	11	Include	1.58	17.42
129	S 54859 60372	3	2	20	1	Include	25.71	1.29
130	S 50295 54259	3	3	0	0	No Flow, Stagnant		
131	S 42444 64047	3	1	6	3	Include	6.00	3.00
132	S 40600 64806	3	1	33	5	Include	45.16	6.84
133	S 40974 64781	3	2	13	8	Include	21.67	13.33
134	S 36228 63698	2	2	3	0	Eff <60%		
135	S 31222 49892	3	1	24	5	Include	34.76	7.24
136	S 29789 49960	3	2	0	0	Include	0.00	0.00
137	S 29340 51575	3	2	2	0	Include	3.00	0.00
138	S 29724 50316	3	2	7	0	Include	11.00	0.00
139	S 29608 49020	4	3	0	0	Include	0.00	0.00
140	S 29711 45514	4	2	3	6	Include	4.67	9.33
141	S 31140 44756	5	1	3	15	Include	4.83	24.17
142	S 35016 43117	5	1	5	12	Include	8.24	19.76
143	S 37123 43829	5		0		Not Sampled		
144	S 39395 52268	3	1	3	14	Include	4.24	19.76
147	S 46477 43538	5	1	0	6	Include	0.00	10.00
148	S 48388 43134	3	2	0	7	Include	0.00	11.00
149	S 48275 40523	3		0	7	Include	0.00	10.00
150	S 46910 37233	3	2	4	1	Include	4.00	1.00
152	S 54456 37279	2		3	0	Include	3.00	0.00
153	S 55663 39204	3		0	0	No Safe Access		
156	S 53379 37272	2	2	16	1	Include	21.65	1.35
157	S 54098 37534	2	2	10	1	Include	14.55	1.45
158	S 53004 34746	2	2	6	0	Include	9.00	0.00
159	S 39025 82530	3	3	0	0	Unsuitable		
160	S 59540 45224	3		0	0	No Safe Access		
162	S 59565 44852	3	2	1	5	Include	1.50	7.50
165	S 60438 35049	2	1	3	18	Include	3.00	18.00
166	S 60809 38117	2		4	11	Include	5.07	13.93
167	S 65417 40394	2	1	9	7	Include	14.06	10.94
171		0	2	17	0	Include	28.00	0.00

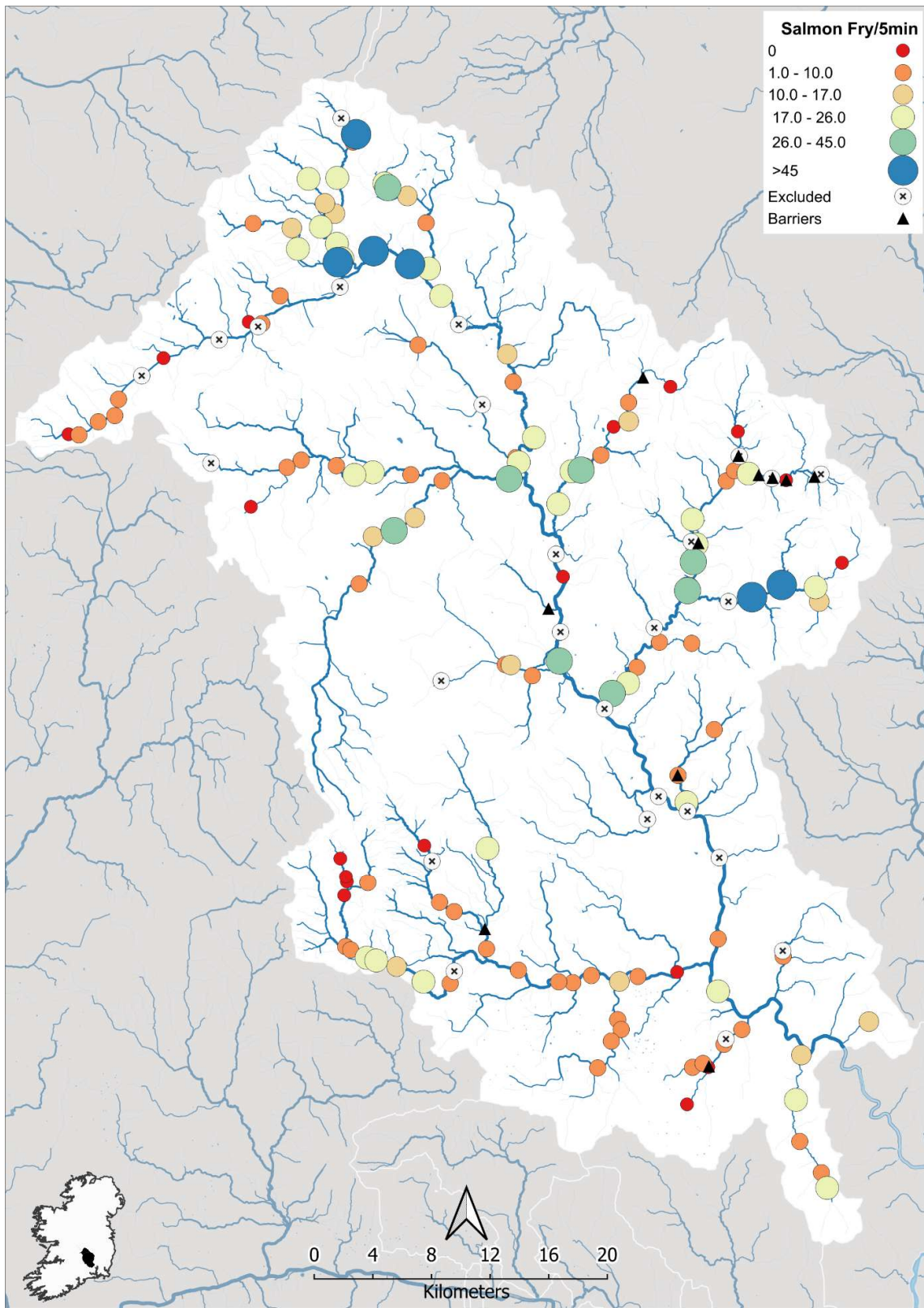


Fig. 27 Showing salmon fry/5min values and locations of surveys on the Nore River in 2024.

A.2.2 Mahon River

IFI Salmon Catchment #: 50
 2024 survey dates: 14 - 16/8/2024
 Mean Salmon Fry/5 min (2024): 4.52 fry/5min
 CWEF Index: 6.32 fry/5min.

Sampling carried out by:

James Robinson
 John Paul Simpson
 Maurice Brown

Fish Species Present:

Brown Trout Salmon
 European Eel 3-Spined Stickleback

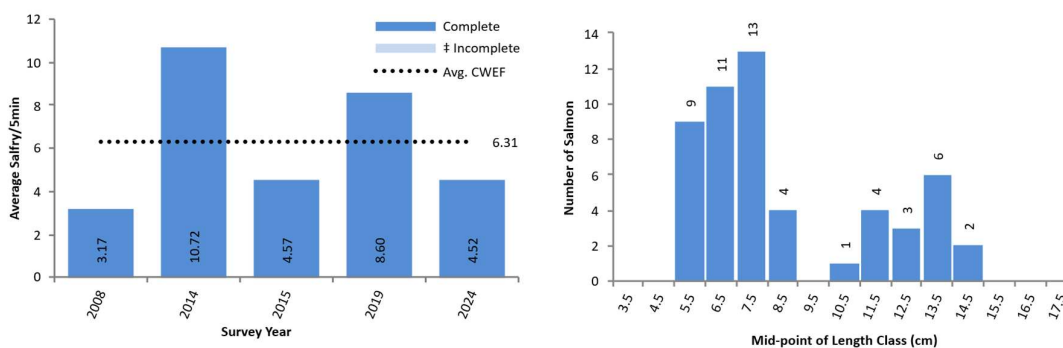


Fig. 28 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Mahon River.

In this year's survey of the Mahon, 11 sites were examined from August 14th to 16th. Salmon fry (0+) were found at 6 sites, with the highest number recorded at site 13, where 13 salmon fry were observed. The modal length of 0+ salmon was 7.5 cm.

9 sites were included in the analysis; the mean catch at these sites was 4.52 salmon fry/5min.

Conclusion

The Mahon had a salmon fry abundance of 4.52 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 6.31 salmon fry/5min which is below the 17 salmon fry threshold.

Table 15 Site specific results of CWF on the Mahon River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	S 41686 02654	5	1	2	2	Eff <60%		
2	S 39562 05701	5	1	0	9	Include	0.00	11.00
3	S 34253 05999	3	1	3	0	Include	3.00	0.00
8	S 37559 07560	3		0	0	Over Vegetated.		
9	S 37187 08136	3	2	1	0	Include	1.00	0.00
10	S 35322 06572	3	1	2	2	Include	2.00	2.00
11	S 35614 05482	3	2	0	0	Include	0.00	0.00
12	S 36785 05691	4	1	2	10	Include	2.33	11.67
13	S 39411 06136	5	1	0	13	Include	0.00	15.00
14	S 40481 04583	5	1	0	0	Include	0.00	0.00
15	S 42278 01092	5	1	0	1	Include	0.00	1.00

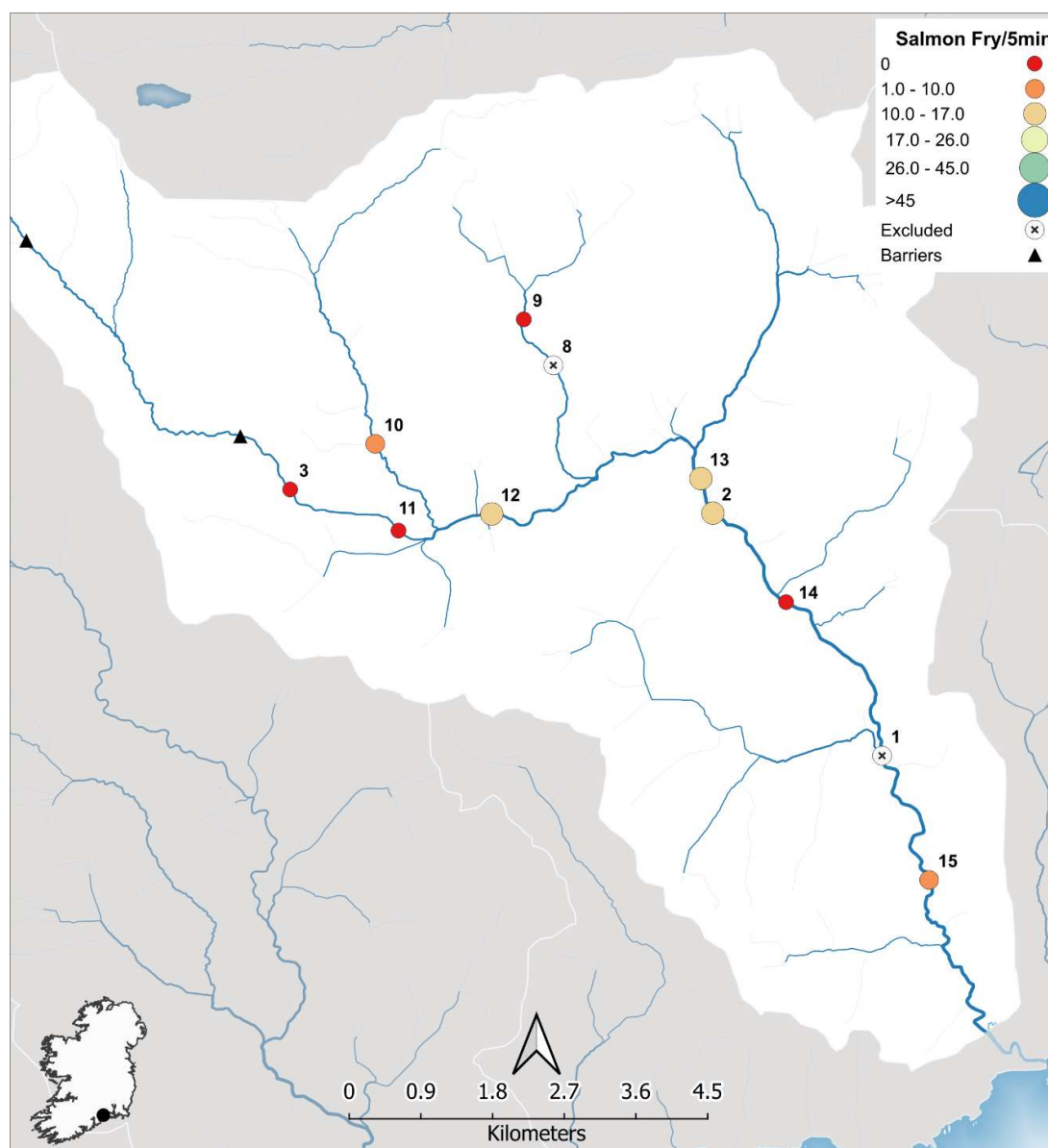


Fig. 29 Showing salmon fry/5min values and locations of surveys on the Mahon River in 2024.

A.2.3 Tay River

IFI Salmon Catchment #: 51

2024 survey dates: 8 - 14/8/2024

Mean Salmon Fry/5 min (2024): 7.50 fry/5min.

CWEF Index: 6.81 fry/5min.

Sampling carried out by:

James Robinson

Maurice Brown

Fish Species Present:

Brown Trout

Salmon

European Eel

Stone Loach

Flounder

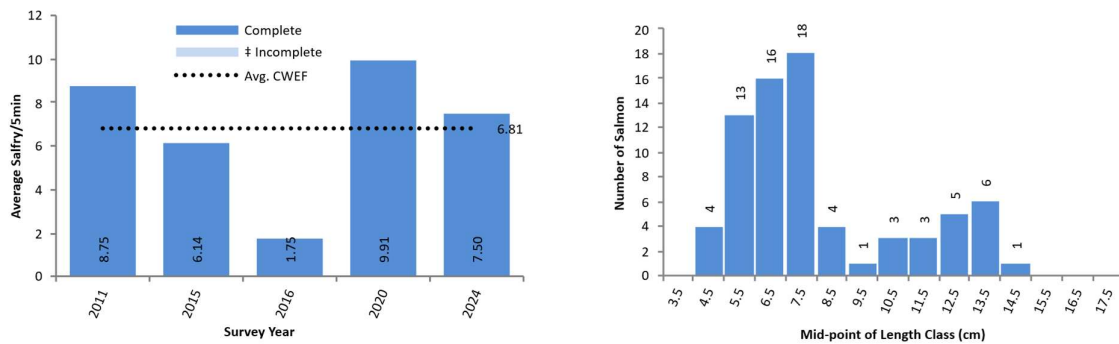


Fig. 30 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Tay River.

In this year's survey of the Tay, 9 sites were examined from August 8th to 14th. Salmon fry (0+) were found at 6 sites, with the highest number recorded at site 2 and 7, where 13 salmon fry were observed. The modal length of 0+ salmon was 7.5 cm.

6 sites were included in the analysis; the mean catch at these sites was 7.5 salmon fry/5min.

Table 16 Site specific results of CWEF on the Tay River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	S 31980 03958	3	1	0	10	Eff <60%		
2	S 33087 02640	3	1	0	13	Include	0.00	16.00
3	S 34018 00477	4	1	1	8	Eff <60%		
4	X 33967 98739	5	1	0	6	Include	0.00	9.00
5	X 34733 98154	5	1	2	3	Include	2.00	3.00
6	X 36986 97130	5	1	0	0	Include	0.00	0.00
7	S 30920 04995	3	1	0	13	Include	0.00	17.00
8	X 33600 99365	4		0	0	Tunnelled		
9	S 32518 01427	3	1	0	0	Include	0.00	0.00

Conclusion

The Tay had a salmon fry abundance of 7.5 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 6.81 salmon fry/5min which is below the 17 salmon fry threshold.

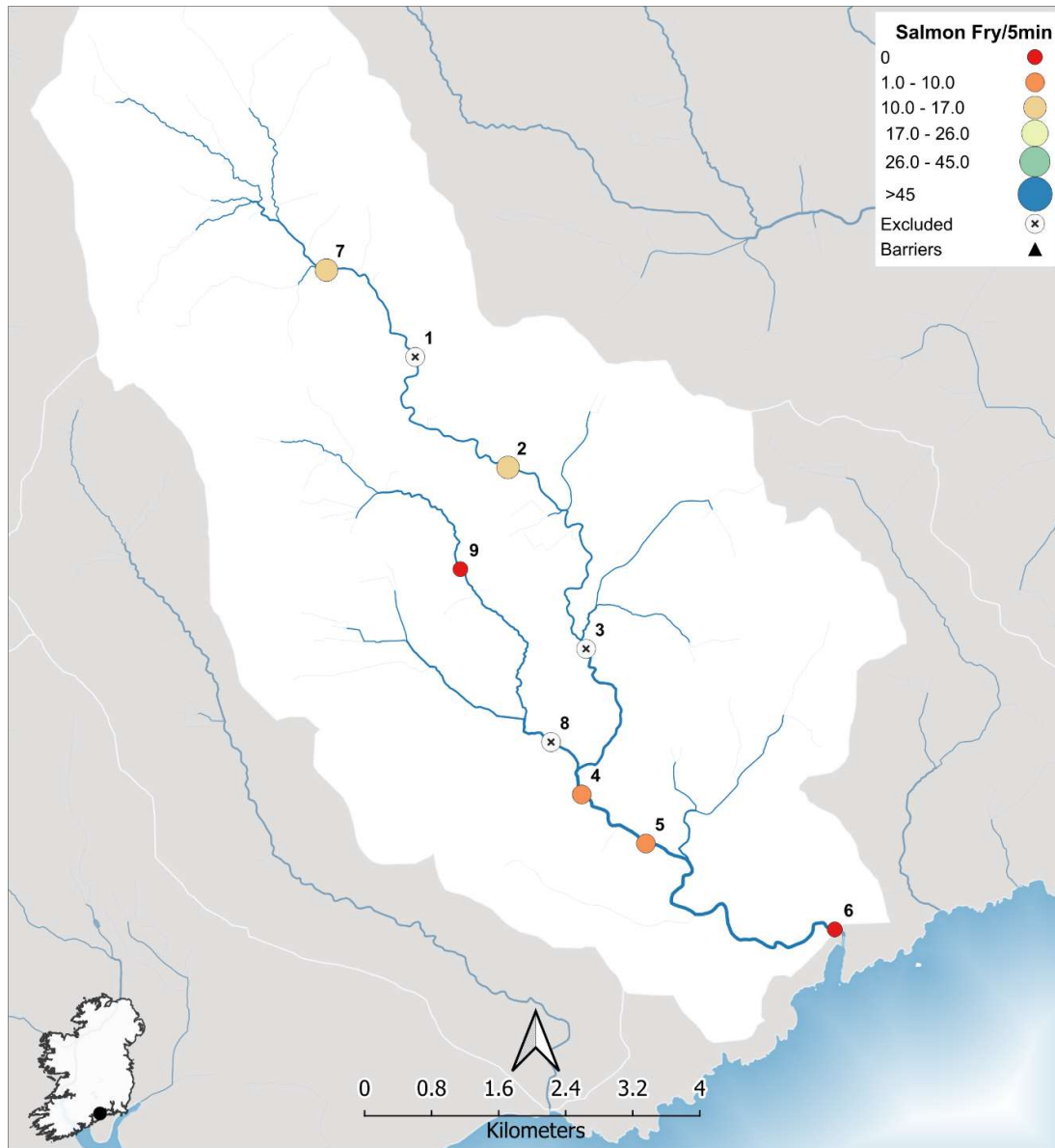


Fig. 31 Showing salmon fry/5min values and locations of surveys on the Tay River in 2024.

A.2.4 Colligan River

IFI Salmon Catchment #: 53
 2024 survey dates: 15 - 16/8/2024
 Mean Salmon Fry/5 min (2024): 5.07 fry/5min
 CWEF Index: 10.47 fry/5min.

Sampling carried out by: James Robinson
 John Paul Simpson
 Maurice Brown

Fish Species Present:
 Brown Trout
 European eel
 Salmon

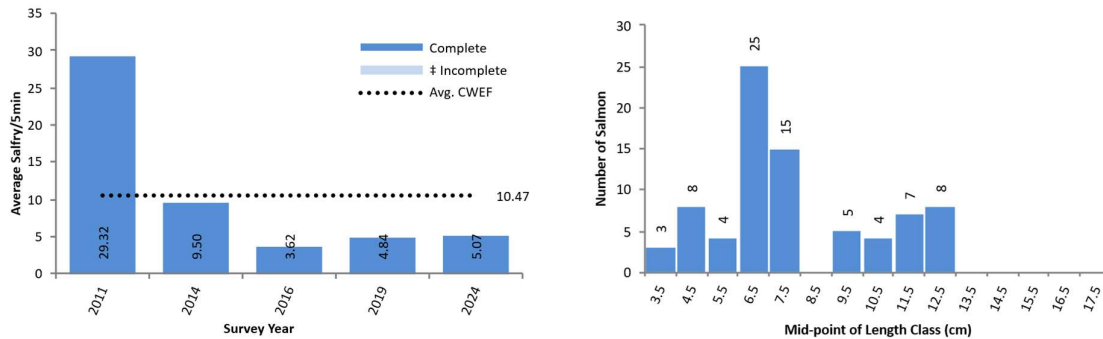


Fig. 32 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Colligan river.

In this year's survey of the Colligan, 13 sites were examined from August 15th to 16th. Salmon fry (0+) were found at 11 sites, with the highest number recorded at site 6, where 14 salmon fry were observed. The modal length of 0+ salmon was 6.5 cm.

9 sites were included in the analysis; the mean catch at these sites was 5.07 salmon fry/5min.

Table 17 Site specific results of CWF on the Colligan River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	S 22978 04848	4	1	2	5	Eff <60%		
2	S 23269 01389	4	1	1	4	Include	1.40	5.60
3	X 22018 98113	4	1	0	1	Eff <60%		
4	X 21476 97201	4	1	1	6	Include	1.00	6.00
5	X 23218 95146	4	1	2	7	Include	2.00	7.00
6	S 23254 02433	3	2	0	14	Include	0.00	14.00
7	S 21967 06452	2	2	3	1	Eff <60%		
8	S 22893 04911	3	1	6	6	Include	8.00	8.00
9	S 24296 07508	2	2	4	0	Include	4.00	0.00
10	S 23063 02128	4	1	0	6	Eff <60%		
11	S 23304 01187	4	1	0	2	Include	0.00	2.00
13	X 24247 99778	2	1	11	3	Include	11.00	3.00
14	S 24816 03623	3	1	0	0	Include	0.00	0.00

Conclusion

The Colligan had a salmon fry abundance of 5.07 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 10.47 salmon fry/5min which is below the 17 salmon fry threshold.

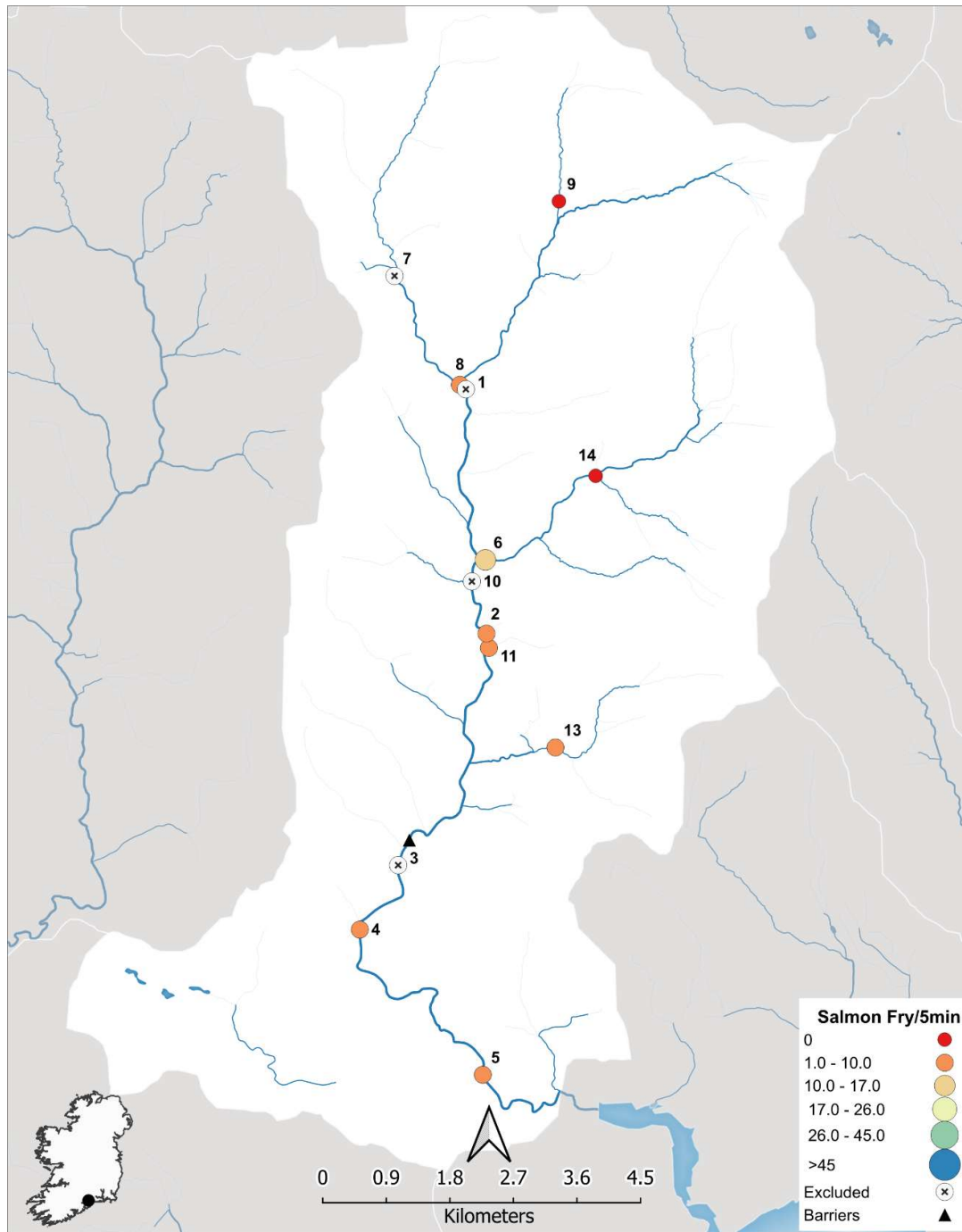


Fig. 33 Showing salmon fry/5min values and locations of surveys on the Colligan River in 2024.

A.3 South Western River Basin District

Summary

Since 2007, forty-six rivers have been surveyed in the South Western River Basin District (SWRBD) as part of the ongoing catchment-wide electrofishing surveys. The results of these surveys are presented in Table 18 and Fig. 34. Currently thirteen of these rivers are meeting the threshold index of 17 salmon fry/5min: the Bride, Argideen, Coomhola, Croanshagh, Cloonee, Roughty, Blackwater (Kerry), Currane, Inny, Laune, Maine, Owenalondrig, and Owenmore. In 2024 surveys were completed on the Coomhola, Adrigole, Croanshagh, Owenshagh, Cloonee, Roughty, Finnihy, Blackwater, Owreagh, Inny and Owenascaul.

Table 18 Catchment-wide electrofishing data for the SWRBD 2016-2024 showing the average salmon fry captured /5min for each year surveyed. Also shown is the current index, surveys prior to 2016 are included in Appendix C.

Code/River	Survey Year									Current Index	# Annual Surveys Considered
	2016	2017	2018	2019	2020	2021	2022	2023	2024		
055/Lickey					12.00					12.84	3
057/Finisk	3.31									6.93	2
058/Glenshelane	2.87						2.44			9.75	4
059/Blackwtr (Mnst)	14.87		22.76†				26.76†			14.87	1
060/Bride		7.65		18.93				26.08		19.44	5
061/Tourig		0.73‡			11.19					10.30	2
062/Womanagh		1.54					3.68			5.77	4
064/Owennacurra		1.91‡			9.47		21.58			15.60	3
065/Glashaboy							11.63			11.63	1
066/Lee (Cork)											
066/Shourn/Martin			18.34					13.26		15.80	2
069/Bandon	11.71									11.71	1
070/Argideen						28.92		14.47		20.18	3
077/Mealagh										12.82	1
079/Coomhola									33.12	33.12	1
080/Glengarriff										7.91	1
081/Adrigole			17.20					3.04‡	38.28	15.37	4
082/Kealinda					0.00					0.00	3
083/Lough Fada					0.00					1.64	3
084/Croanshagh	23.38								38.67	31.03	2
085/Owenshagh			19.27		17.33				18.92	13.40	5
086/Cloonee		24.09		26.48					47.72	29.51	5
088/Roughty									25.31	22.55	2
089/Finnihy		0.70		1.01					4.69	3.00	5
090/Blackwater (Ky)									25.46	20.91	5
093/Owreagh				8.51					17.58	7.98	5
097/Currane										24.51	1
098/Inny			17.67				22.67		23.63	22.07	5
099/Emlaghmore					7.70					3.74	3
101/Carhan				7.55			17.03			11.00	5
102/Ferta		6.88		12.06						12.81	4
103/Behy	2.89			6.60			7.18			6.76	5
106/Laune		21.63								21.63	1
107/Maine		22.05†	19.61†			37.62				34.10	3
108/Emlagh	2.10					1.02				5.10	5
109/Owenascaul			9.51		11.52				16.03	13.88	5
110/Owenalondrig							19.23			20.57	2
111/Milltown (Ky)				11.25				11.36		14.17	5
112/Feohanagh				13.75				9.62		11.46	5
114/Owenmore (Ky)						28.62				26.85	2
115/Scorid	1.86						5.62			3.74	2
115/Glenahoo	1.87						15.52			8.70	2
116/Aghacashla	4.89						15.18			10.04	2
116/Owenamallagh	0.00									0.00	1
116/Meennascarty	0.00									0.00	1

Code/River	Survey Year									Current Index	# Annual Surveys Considered
	2016	2017	2018	2019	2020	2021	2022	2023	2024		
116/Finglas (Camp)							0.00			0.00	1
117/Lee (Kerry)		0.69					0.00			0.52	4

Bold annual figures indicate years included in the calculation of current the CWF index.
Underlined index figures indicate those exceeding the 17 salmon fry threshold.
‡ Incomplete surveys not included in the calculation of current index.
† Sub-catchment surveys.



Fig. 34 Summary of results of annual CWF surveys (average salmon fry per 5min) in the SWRBD 2007-2024.

A.3.1 Coomhola River

IFI Salmon Catchment #: 79
 2024 survey dates: 22 - 23/7/2024
 Mean Salmon Fry/5 min (2024): 33.12 fry/5min
 CWEF Index: 33.12 fry/5min.

Sampling carried out by: Mark Whelan
 Tony Holmes

Fish Species Present: Brown Trout Salmon
 European Eel

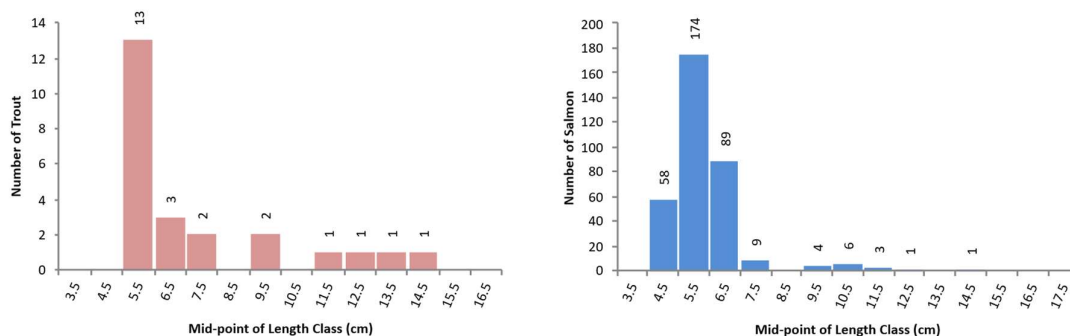


Fig. 35 Showing length distribution of Trout (left) and salmon captured in 2024 (right) on the Coomhola River.

In this year's survey of the Coomhola, 14 sites were examined from July 22nd to 23rd. Salmon fry (0+) were found at 11 sites, with the highest number recorded at site 3, where 69 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

11 sites were included in the analysis; the mean catch at these sites was 33.12 salmon fry/5min.

Table 19 Site specific results of CWEF on the Coomhola River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	W 03825 62228	4	1	7	0	Above Barrier		
2	W 03932 61111	4	3	4	2	Include	4.67	2.33
3	W 03916 60063	4	1	2	69	Include	2.00	69.00
4	W 03605 59094	4	1	1	51	Include	1.00	51.00
5	W 02853 58402	4	3	0	20	Include	0.00	23.00
6	W 01919 57659	4	1	0	33	Include	0.00	40.00
7	W 00923 56862	5	1	0	52	Include	0.00	52.00
8	V 99617 55982	5	1	0	29	Include	0.00	36.00
9	V 99060 56496	3	1	8	0	Above Barrier		
10	V 99074 56535	4	2	4	0	Above Barrier		
11	V 99549 56091	4	1	0	32	Include	0.00	37.00
12	V 99742 54985	5	1	0	15	Include	0.00	17.00
13	V 99846 54903	5	1	0	13	Include	0.00	18.00
14	V 99542 55418	5	2	0	14	Include	0.00	19.00

Conclusion

The Coomhola had a salmon fry abundance of 33.12 salmon fry/5min in 2024. As this is the first complete survey on this catchment the CWEF index is also 33.12 salmon fry/5min which is above the 17 salmon fry threshold.

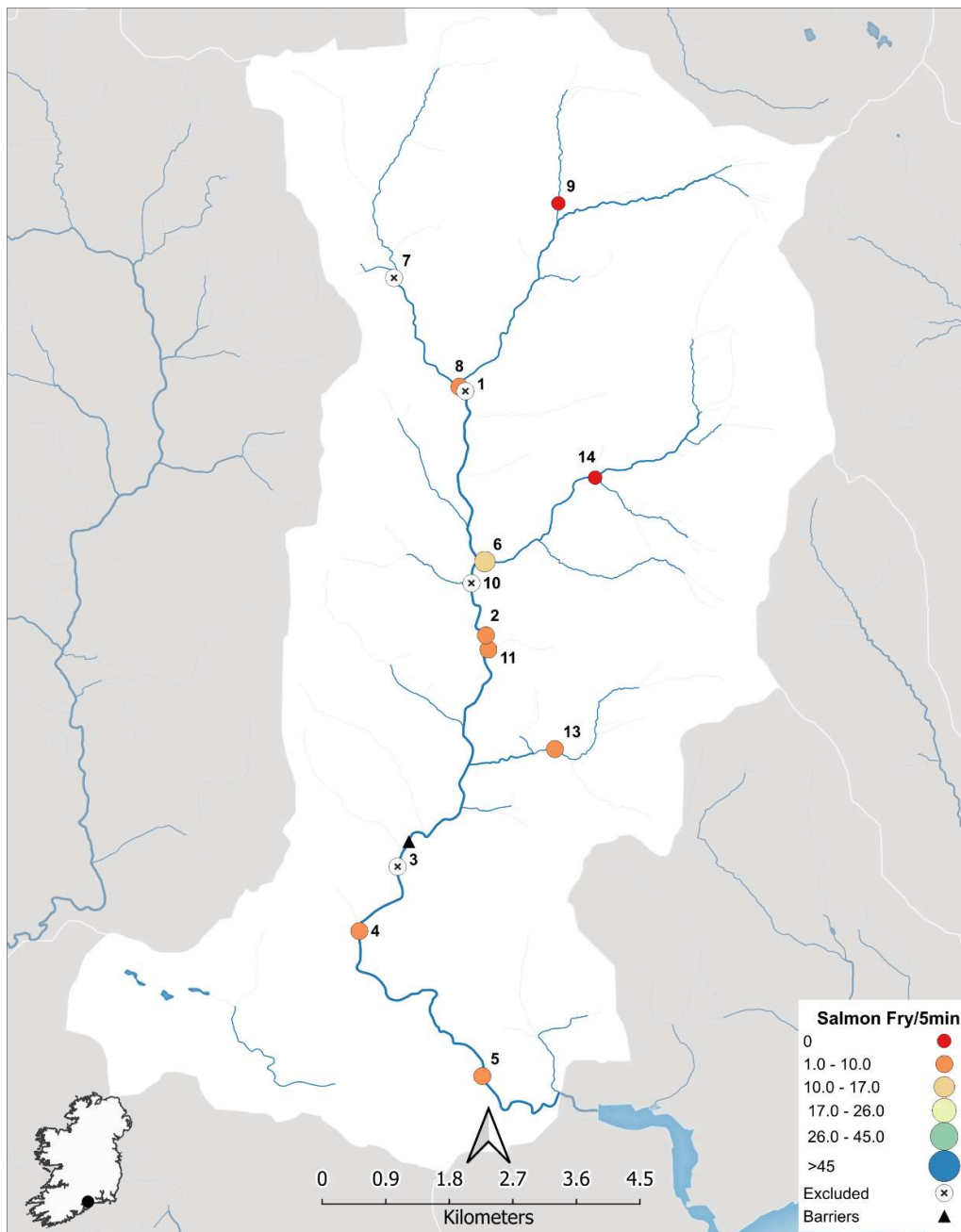


Fig. 36 Showing salmon fry/5min values and locations of surveys on the Coomhola River in 2024.

A.3.2 Adrigole River

IFI Salmon Catchment #:	81
2024 survey dates:	17/7/2024
Mean Salmon Fry/5 min (2024):	38.28 fry/5min
CWEF Index:	15.37 fry/5min.
Sampling carried out by:	Fish Species Present:
Mark Whelan	Brown Trout Salmon
Tony Holmes	European Eel

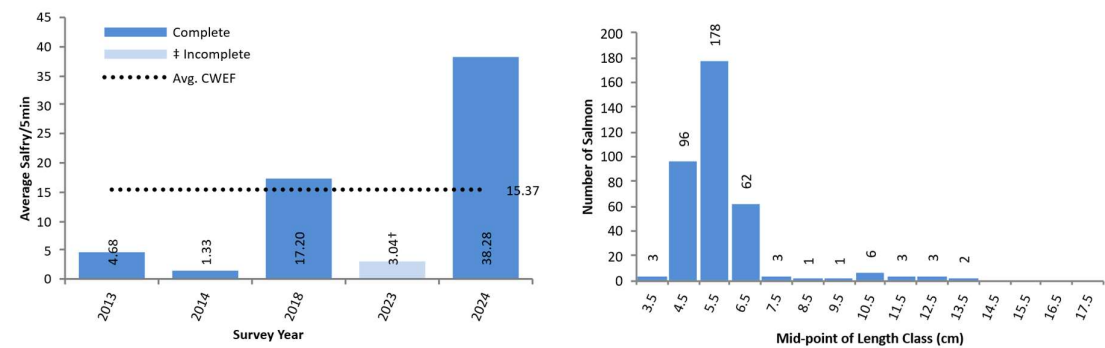


Fig. 37 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Adrigole River.

In this year's survey of the Adrigole, 11 sites were examined on July 17th. Salmon fry (0+) were found at 10 sites, with the highest number recorded at site 14, where 75 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

All 11 sites were included in the analysis; the mean catch at these sites was 38.28 salmon fry/5min.

Conclusion

The Adrigole had a salmon fry abundance of 38.28 salmon fry/5min in 2024. Taking the 4 most recent complete surveys into account this results in a cumulative average of 15.37 salmon fry/5min which is below the 17 salmon fry threshold.

Table 20 Site specific results of CWF on the Adrigole River in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
2	V 80812 52873	4	3	1	0	Include	1.00	0.00
4	V 84092 53131	4	1	10	28	Include	12.63	35.37
5	V 83192 52624	4	2	9	24	Include	10.91	29.09
6	V 81622 51832	4	1	2	57	Include	2.17	61.83
7	V 81545 51935	5	2	0	27	Include	0.00	32.00
10	V 81664 51705	4	1	8	34	Include	8.95	38.05
12	V 81454 52254	5	2	0	25	Include	0.00	35.00
13	V 81417 51125	5	3	3	20	Include	4.30	28.70
14	V 82658 52306	4	2	3	75	Include	3.58	89.42
15	V 81596 51747	5	2	1	33	Include	1.29	42.71
17	V 81200 50660	5	2	4	19	Include	6.09	28.91

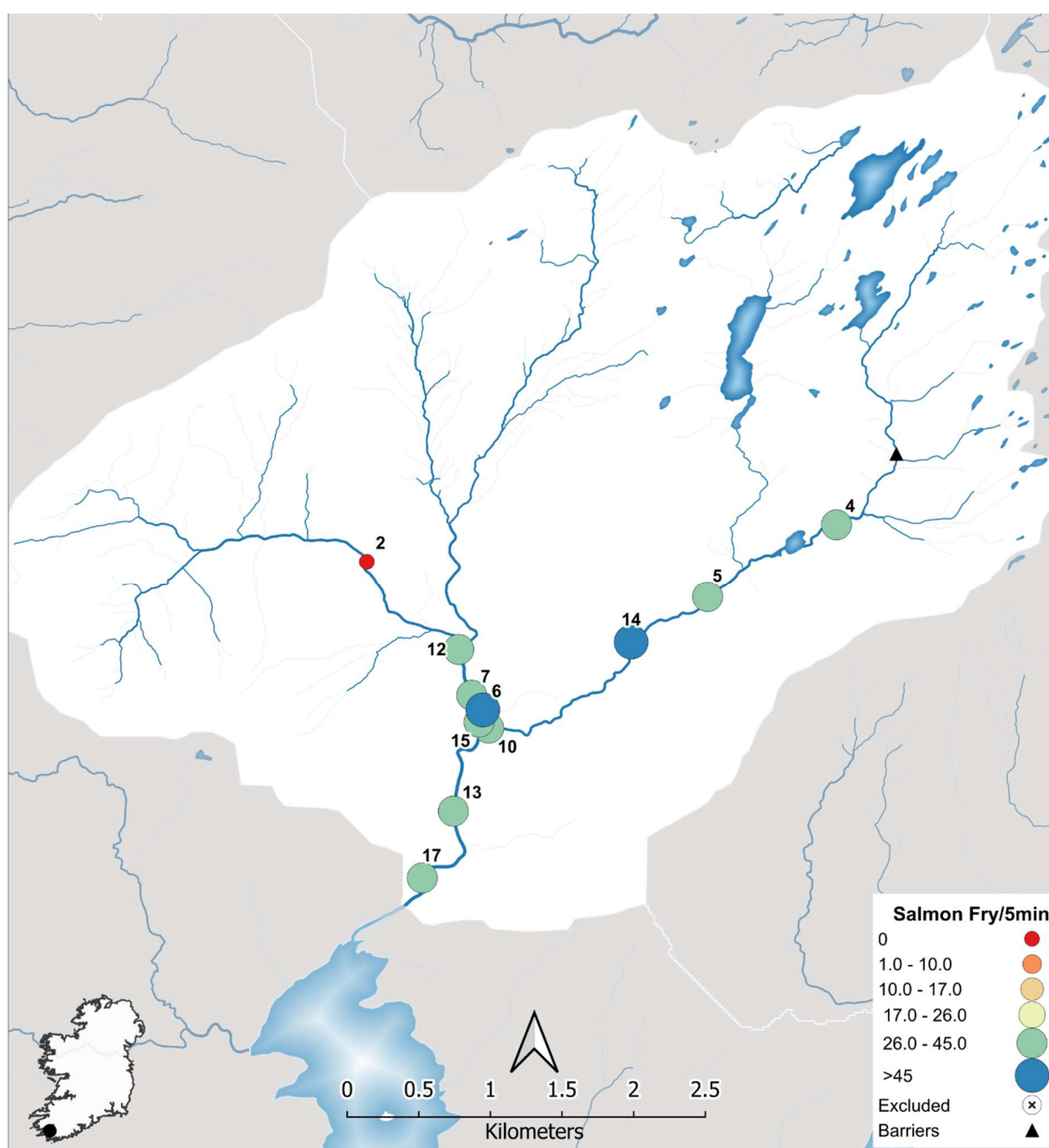


Fig. 38 Showing salmon fry/5min values and locations of surveys on the Adrigole 2024.

A.3.3 Croanshagh River

IFI Salmon Catchment #:	84
2024 survey dates:	16/7/2024
Mean Salmon Fry/5 min (2024):	38.67 fry/5min
CWEF Index:	31.03 fry/5min.
Sampling carried out by:	Fish Species Present:
Mark Whelan	Brown Trout Salmon
Tony Holmes	European Eel

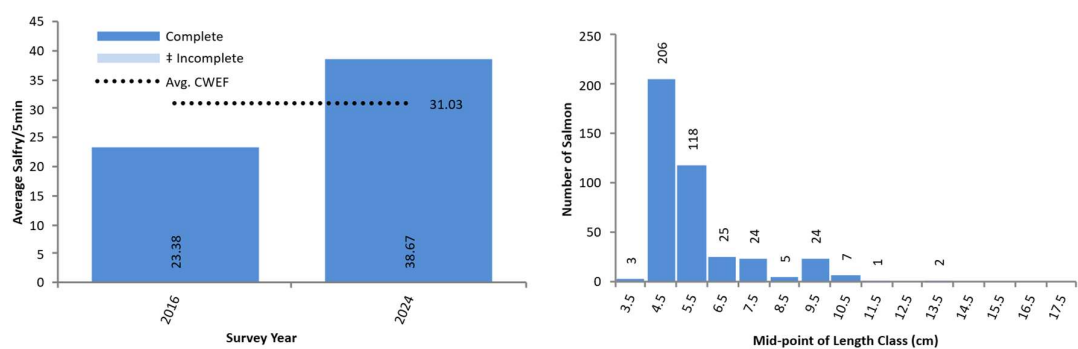


Fig. 39 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Croanshagh river.

In this year's survey of the Croanshagh, 12 sites were examined on July 16th. Salmon fry (0+) were found at 11 sites, with the highest number recorded at site 5, where 55 salmon fry were observed. The modal length of 0+ salmon was 4.5 cm.

11 sites were included in the analysis; the mean catch at these sites was 38.67 salmon fry/5min.

Conclusion

The Croanshagh had a salmon fry abundance of 38.67 salmon fry/5min in 2024. Taking the 2 most recent complete surveys into account this results in a cumulative average of 31.03 salmon fry/5min which is above the 17 salmon fry threshold.

Table 21 Site specific results of CWF on the Croanshagh River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	V 75385 52292	4		0	0	Unsuitable For Survey		
4	V 75921 52257	5	2	1	11	Include	1.33	14.67
5	V 76174 52553	5	1	1	55	Include	1.18	64.82
6	V 76966 53139	5	1	1	32	Include	1.15	36.85
7	V 77351 53634	5	1	1	36	Include	1.11	39.89
8	V 77834 53776	5	1	6	45	Include	6.59	49.41
9	V 77086 56209	3	2	5	20	Include	6.00	24.00
10	V 76768 56604	5	1	6	45	Include	6.71	50.29
11	V 75230 55054	4	2	10	13	Include	12.61	16.39
12	V 75484 55337	4	2	10	19	Include	12.41	23.59
13	V 75623 55546	4	2	16	51	Include	18.39	58.61
15	V 77109 53410	5	1	1	40	Include	1.17	46.83

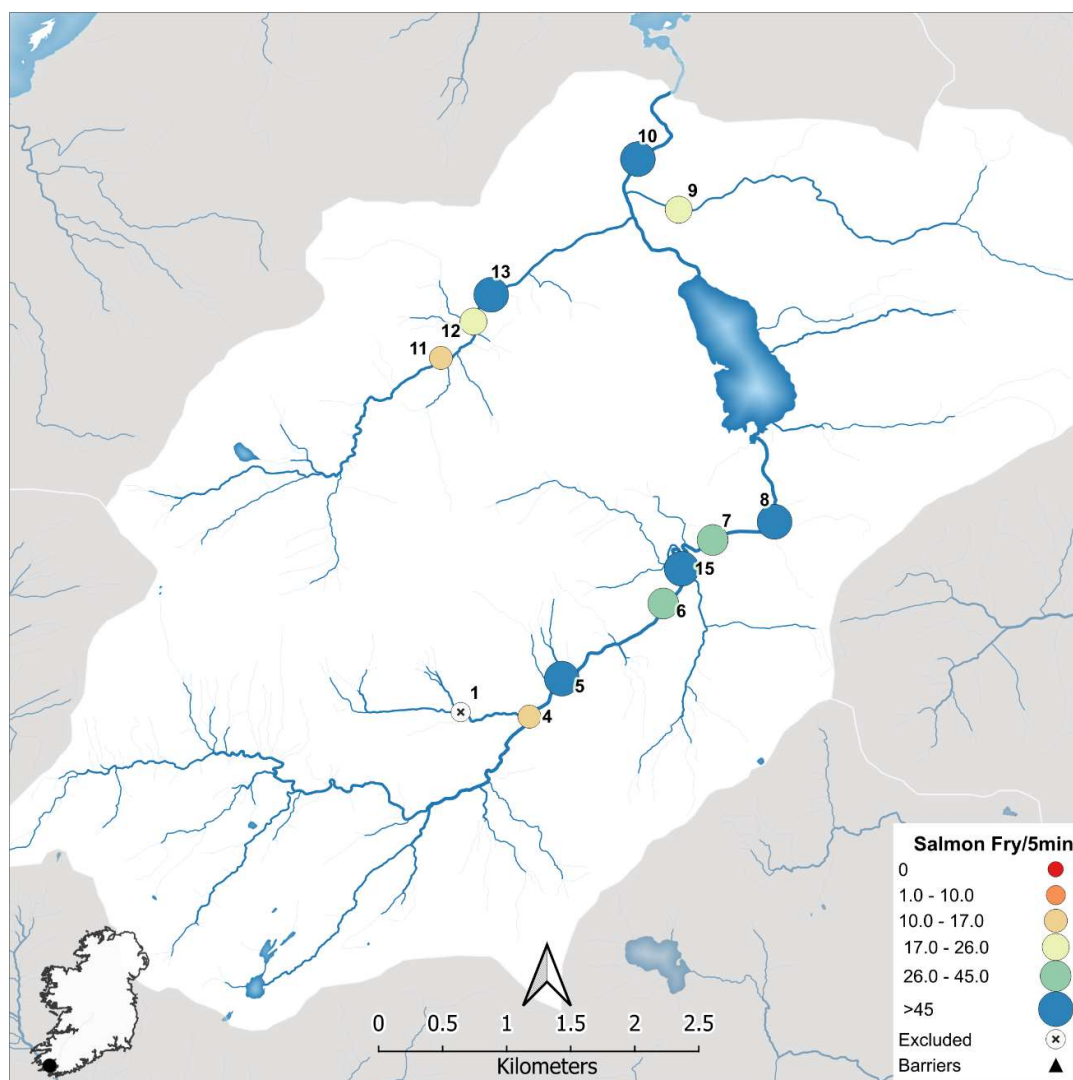


Fig. 40 Showing salmon fry/5min values and locations of surveys on the Croanshagh River in 2024.

A.3.4 Owenshagh River

IFI Salmon Catchment #: 85
 2024 survey dates: 23-24/7/2024
 Mean Salmon Fry/5 min (2024): 18.92 fry/5min
 CWEF Index: 13.40 fry/5min.

Sampling carried out by: Mark Whelan
 Tony Holmes
 Fish Species Present: Brown Trout Salmon
 European Eel

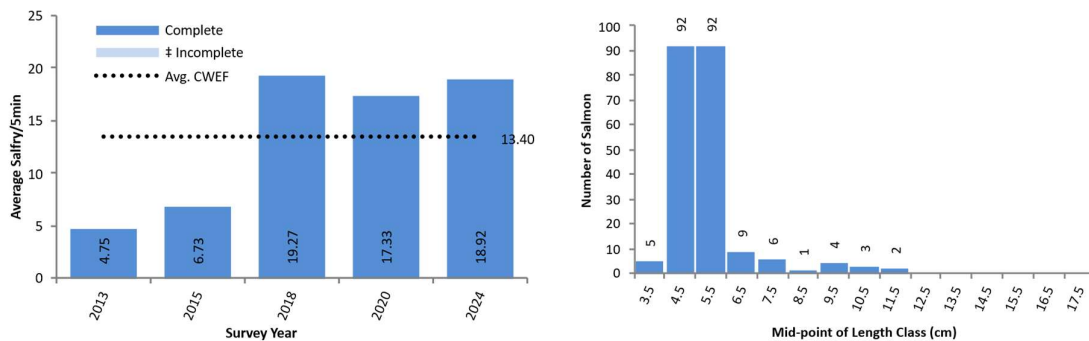


Fig. 41 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Owenshagh River.

In this year's survey of the Owenshagh, 12 sites were examined from July 23rd to 24th. Salmon fry (0+) were found at 10 sites, with the highest number recorded at site 18, where 54 salmon fry were observed. The modal lengths of 0+ salmon were 4.5 and 5.5 cm.

All 12 sites were included in the analysis; the mean catch at these sites was 18.92 salmon fry/5min.

Table 22 Site specific results of CWF on the Owenshagh River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
6	V 78924 58348	6	1	0	26	Include	0.00	31.00
7	V 78089 58341	6	1	1	21	Include	1.05	21.95
8	V 79601 58790	5	1	1	15	Include	1.13	16.88
12	V 80102 58432	5		1	0	Include	1.00	0.00
13	V 80204 58769	5	2	4	1	Include	4.00	1.00
16	V 78811 58328	6	1	0	17	Include	0.00	20.00
17	V 79327 58571	5	1	3	13	Include	3.75	16.25
18	V 79140 58550	5	1	0	54	Include	0.00	59.00
19	V 79343 58475	5	1	0	18	Include	0.00	20.00
21	V 80345 58740	5	1	7	0	Include	7.00	0.00
22	V 78339 58346	6	1	0	29	Include	0.00	29.00
23	V 79583 58518	5	3	0	10	Include	0.00	12.00

Conclusion

The Owenshagh had a salmon fry abundance of 18.92 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 13.40 salmon fry/5min which is below the 17 salmon fry threshold.

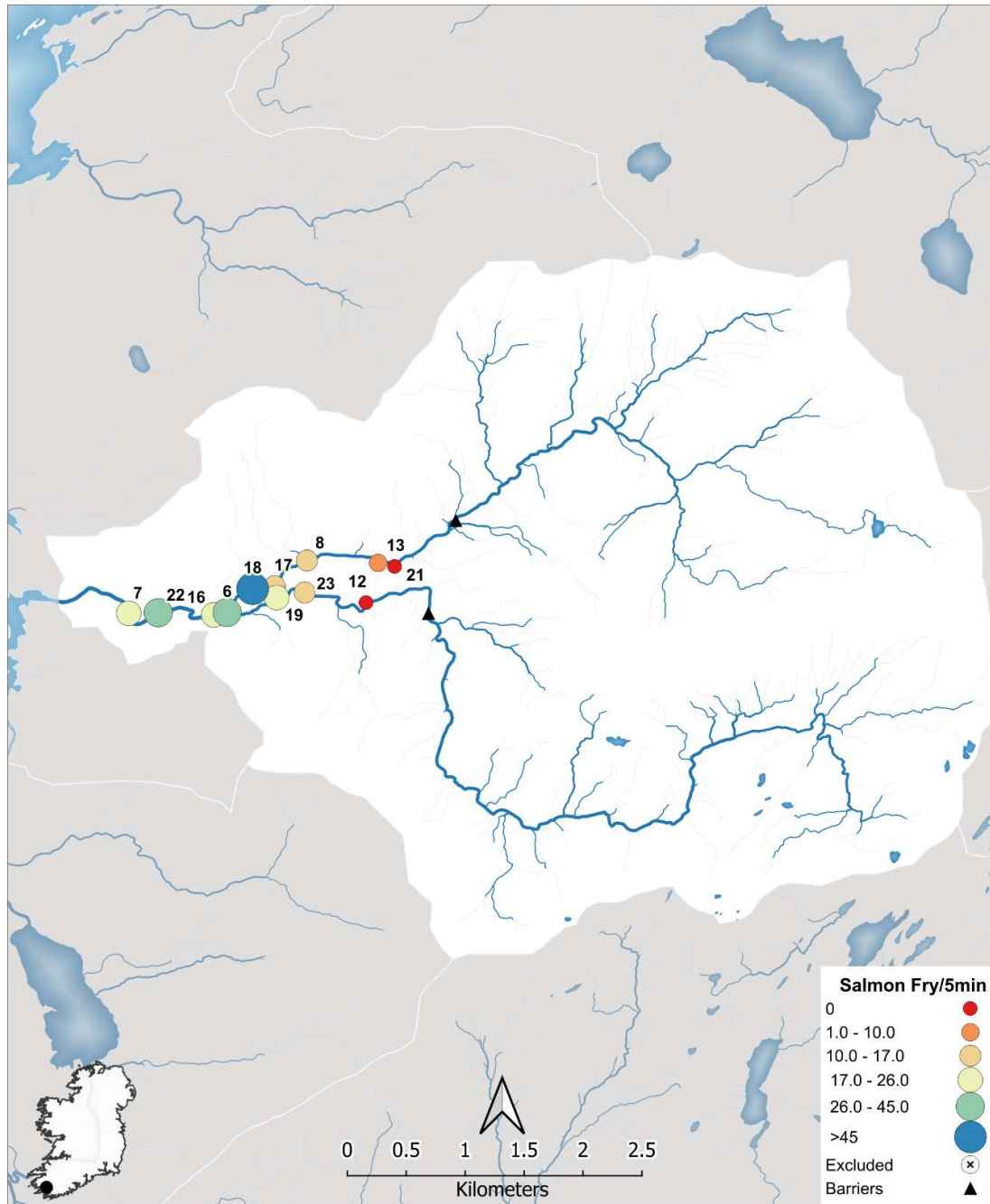


Fig. 42 Showing salmon fry/5min values and locations of surveys on the Owenshagh River in 2024.

A.3.5 Cloonee River

IFI Salmon Catchment #: 86
 2024 survey dates: 16 - 17/7/2024
 Mean Salmon Fry/5 min (2024): 47.72 fry/5min
 CWEF Index: 29.51 fry/5min.

Sampling carried out by: Mark Whelan
 Tony Holmes

Fish Species Present: Brown Trout Salmon
 European Eel Minnow

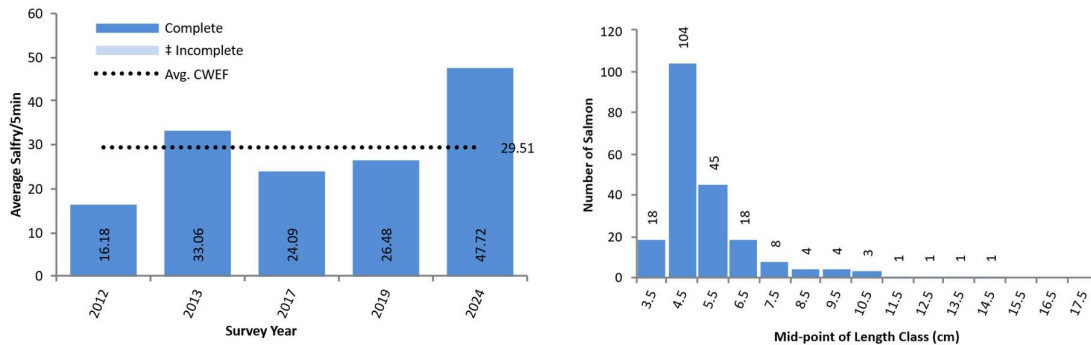


Fig. 43 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Cloonee river.

In this year's survey of the Cloonee, 6 sites were examined from July 16th to 17th. Salmon fry (0+) were found at 5 sites, with the highest number recorded at site 7, where 72 salmon fry were observed. Water levels were very low throughout the survey and fry abundance may be overestimated consequently. The modal length of 0+ salmon was 4.5 cm.

5 sites were included in the analysis; the mean catch at these sites was 47.72 salmon fry/5min.

Table 23 Site specific results of CWF on the Cloonee River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	V 78433 63466	3		0	0	Inaccessible		
2	V 79317 63511	3	3	11	20	Include	13.13	23.87
4	V 84968 62312	3	1	3	34	Include	4.22	47.78
5	V 84654 62520	3	1	0	43	Include	0.00	55.00
6	V 83515 63712	3	2	14	18	Include	20.56	26.44
7	V 83334 63672	3	1	8	72	Include	9.50	85.50

Conclusion

The Cloonee had a salmon fry abundance of 47.72 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 29.51 salmon fry/5min which is above the 17 salmon fry threshold.

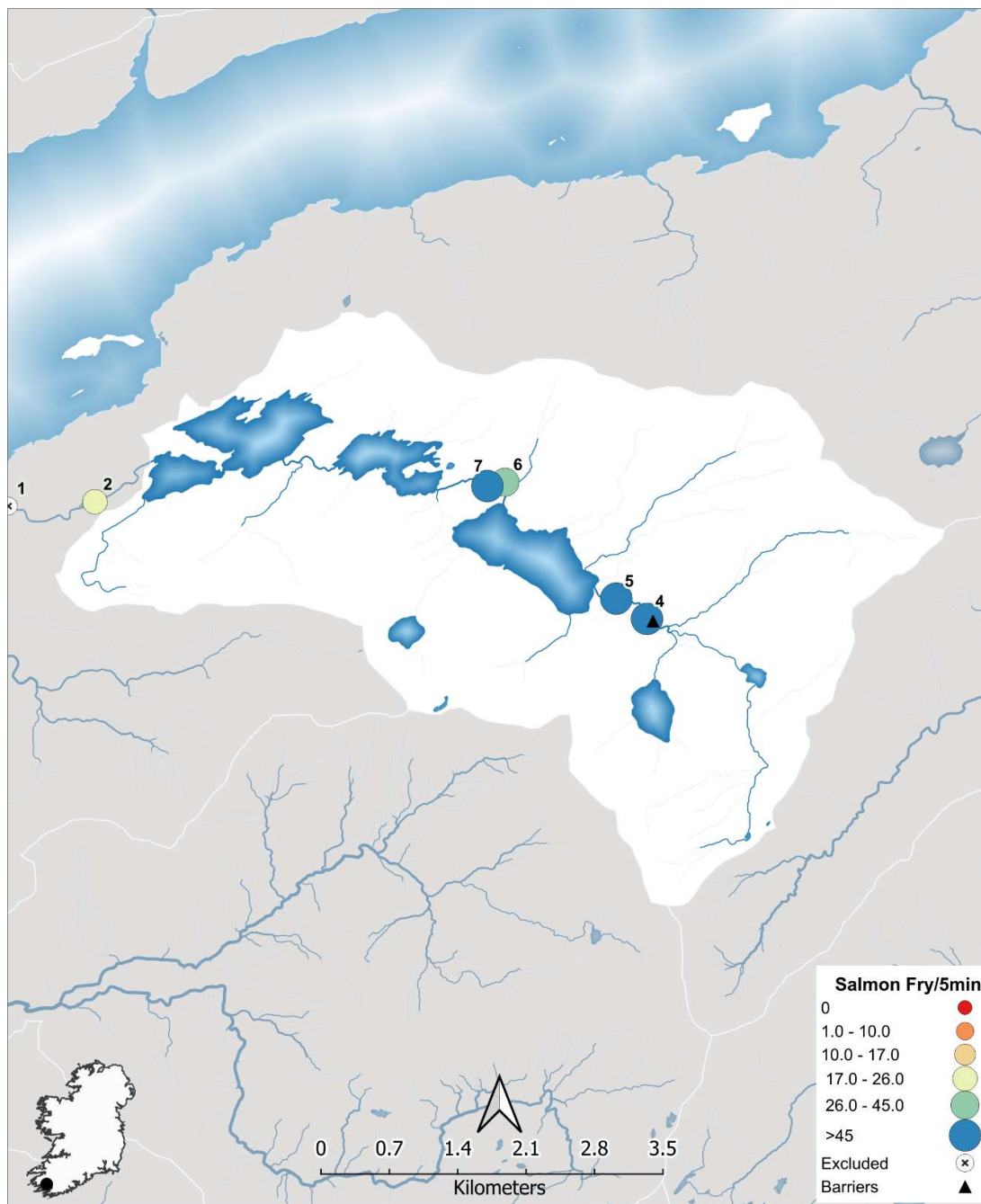


Fig. 44 Showing salmon fry/5min values and locations of surveys on the Cloonee River in 2024.

A.3.6 Roughty River

IFI Salmon Catchment #: 88
 2024 survey dates: 9 - 12/7/2024
 Mean Salmon Fry/5 min (2024): 25.31 fry/5min
 CWEF Index: 22.54 fry/5min.

Sampling carried out by: Mark Whelan
 Tony Holmes

Fish Species Present: Brown Trout Salmon
 European Eel Minnow
 Flounder

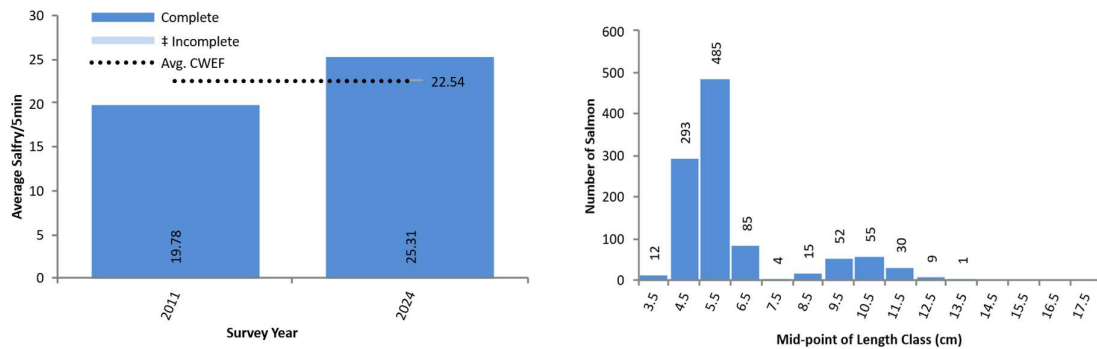


Fig. 45 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Roughty river.

In this year's survey of the Roughty, 44 sites were examined from July 9th to 12th. Salmon fry (0+) were found at 38 sites, with the highest number recorded at site 26, where 62 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm. 41 sites were included in the analysis; the mean catch at these sites was 25.31 salmon fry/5min.

Conclusion

The Roughty had a salmon fry abundance of 25.31 salmon fry/5min in 2024. Taking the 2 most recent complete surveys into account this results in a cumulative average of 22.54 salmon fry/5min which is above the 17 salmon fry threshold.

Table 24 Site specific results of CWEF on the Roughty River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	W 07438 74175	5	1	0	41	Include	0.00	53.00
2	W 07757 73843	5	2	1	10	Include	1.00	10.00
4	W 08793 70881	4	2	12	0	Include	15.00	0.00
5	W 06343 75456	5	2	0	32	Include	0.00	40.00
7	W 06709 75212	5	1	0	27	Include	0.00	32.00
9	W 07064 74872	5	1	0	38	Include	0.00	53.00
12	W 00973 73010	5	1	1	24	Include	1.16	27.84
13	W 08587 72326	4	3	2	4	Include	2.67	5.33

Table 24 Site specific results of CWF on the Roughty River catchment in 2024.

14	W 08498 73591	5	1	1	20	Include	1.14	22.86
15	W 09176 73215	4	3	3	0	Include	3.00	0.00
16	W 04861 75678	5	2	1	22	Include	1.22	26.78
17	W 04486 74822	5	2	1	11	Include	1.25	13.75
18	W 03624 73809	5	2	0	6	Include	0.00	7.00
19	W 02519 73530	5	1	0	17	Include	0.00	17.00
20	W 02202 73425	5	2	1	25	Include	1.12	27.88
21	W 02439 66360	4	2	0	6	Include	0.00	8.00
22	W 02463 66739	4	2	2	17	Include	2.53	21.47
23	W 02822 68103	4	2	2	29	Include	2.00	29.00
24	W 02701 69078	5	2	1	33	Include	1.18	38.82
25	W 02206 69455	5	1	2	56	Include	2.34	65.66
26	W 01749 69963	5	1	0	62	Include	0.00	68.00
27	W 01557 70915	5	3	0	29	Include	0.00	35.00
28	W 01249 71875	5	2	6	7	Include	8.77	10.23
29	W 00531 72449	5	2	0	27	Include	0.00	32.00
30	W 00402 72866	5	2	0	41	Include	0.00	41.00
31	V 99882 72856	6	1	0	26	Include	0.00	31.00
32	V 98693 72852	6	2	0	37	Include	0.00	45.00
33	V 98723 72959	5	1	0	15	Include	0.00	20.00
34	V 99865 75141	5		2	0	Above A Barrier		
35	V 99508 73804	5	2	0	21	Include	0.00	29.00
36	V 99980 74103	5	3	1	1	Include	1.00	1.00
37	V 98851 73474	5	1	0	21	Include	0.00	29.00
38	V 98417 73285	2	2	28	0	Include	34.00	0.00
39	V 97256 72827	2	2	10	0	Include	15.00	0.00
40	V 96569 72909	2	2	3	8	Eff <60%		
41	V 93955 72990	4	3	1	0	Unsuitable Habitat		
42	V 94186 72468	4	2	4	5	Include	4.44	5.56
43	V 94336 72105	4	2	1	21	Include	1.00	21.00
44	V 94407 71770	6	1	1	12	Include	1.38	16.62
45	V 95925 72217	6	2	1	18	Include	1.16	20.84
46	V 95487 72263	6	1	0	11	Include	0.00	15.00
47	V 97650 72625	6	1	0	42	Include	0.00	57.00
48	V 98085 72591	6	1	0	36	Include	0.00	41.00
49	V 96499 72370	6	2	0	17	Include	0.00	20.00

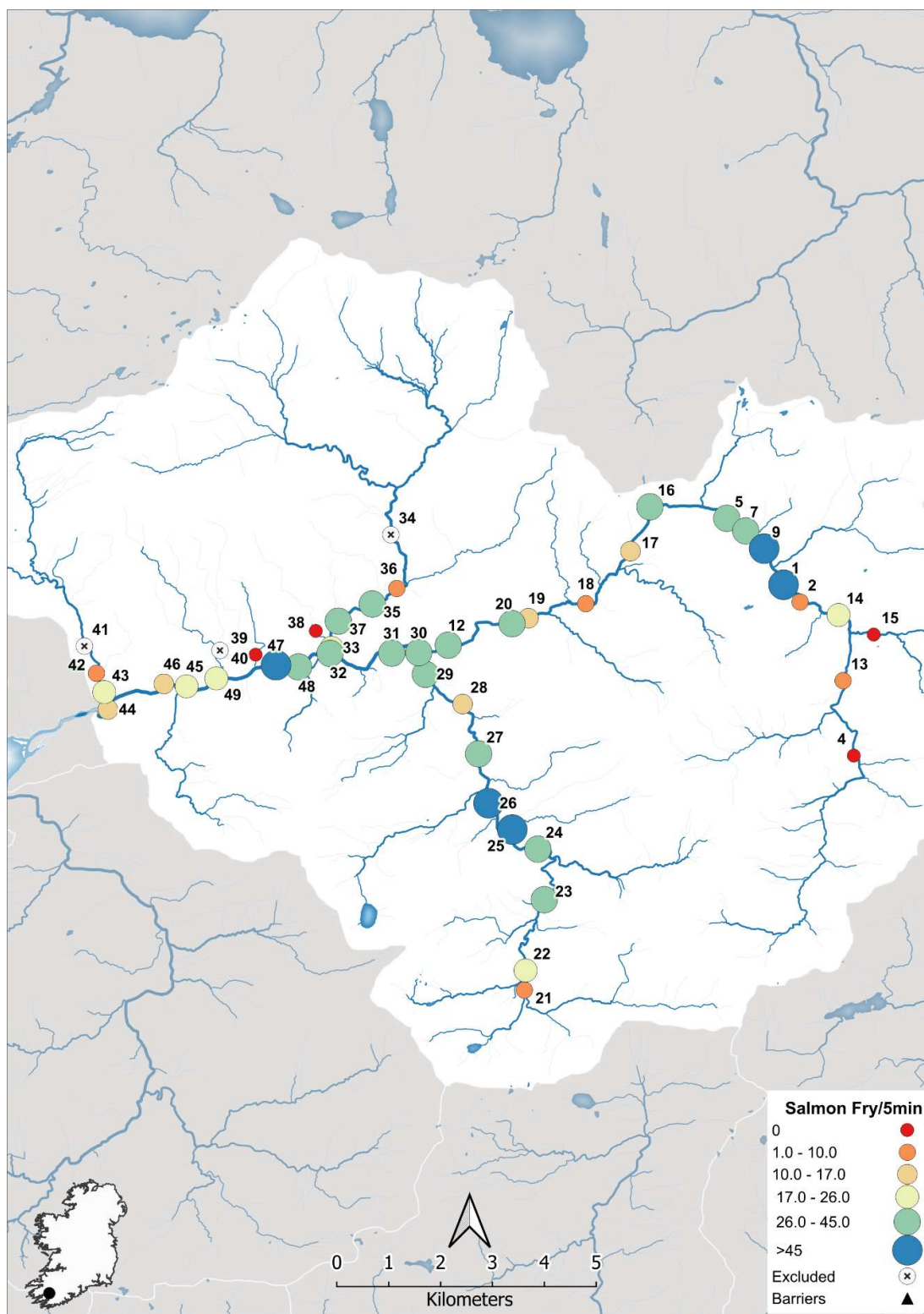


Fig. 46 Showing salmon fry/5min values and locations of surveys on the Roughty River in 2024.

A.3.7 Finnihy River

IFI Salmon Catchment #: 89
 2024 survey dates: 5/7/2024
 Mean Salmon Fry/5 min (2024): 4.69 fry/5min
 CWEF Index: 3.00 fry/5min.

Sampling carried out by: Mark Whelan
 Tony Holmes
 Fish Species Present: Brown Trout
 European Eel
 Salmon

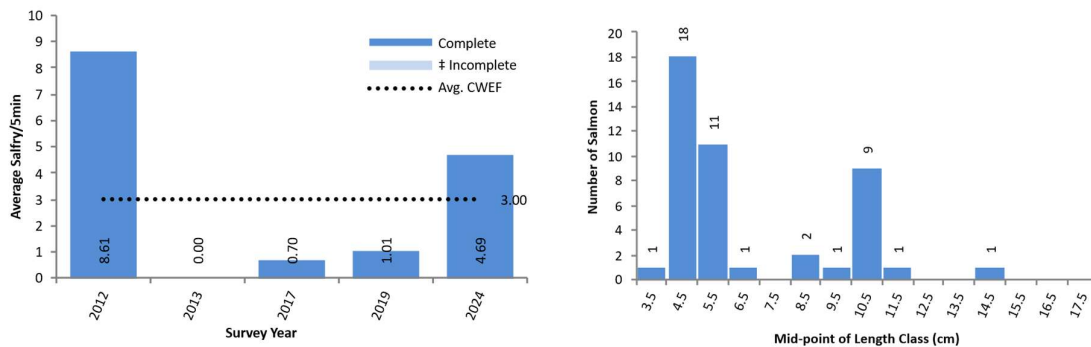


Fig. 47 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Finnihy river.

In this year's survey of the Finnihy, 8 sites were examined on July 5th. Salmon fry (0+) were found at 6 sites, with the highest number recorded at site 10, where 14 salmon fry were observed. The modal length of 0+ salmon was 4.5 cm.

All 8 sites were included in the analysis; the mean catch at these sites was 4.69 salmon fry/5min.

Conclusion

The Finnihy had a salmon fry abundance of 4.69 salmon fry/5min in 2024. This is a marked improvement from recent surveys. Taking the 5 most recent complete surveys into account this results in a cumulative average of 3.00 salmon fry/5min which is below the 17 salmon fry threshold.

Table 25 Site specific results of CWF on the Finnihy River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
4	V 90044 73344	4	2	6	8	Include	7.29	9.71
5	V 90103 71790	4	2	3	2	Include	3.00	2.00
6	V 90924 70988	4	1	1	1	Include	1.00	1.00
7	V 86424 75192	3	2	22	0	Include	27.00	0.00
8	V 90712 71335	4	1	7	4	Include	8.91	5.09
9	V 91096 71047	2	2	10	0	Include	10.00	0.00
10	V 89915 72833	4	2	4	14	Include	4.89	17.11
11	V 90049 71975	4	3	5	2	Include	6.43	2.57

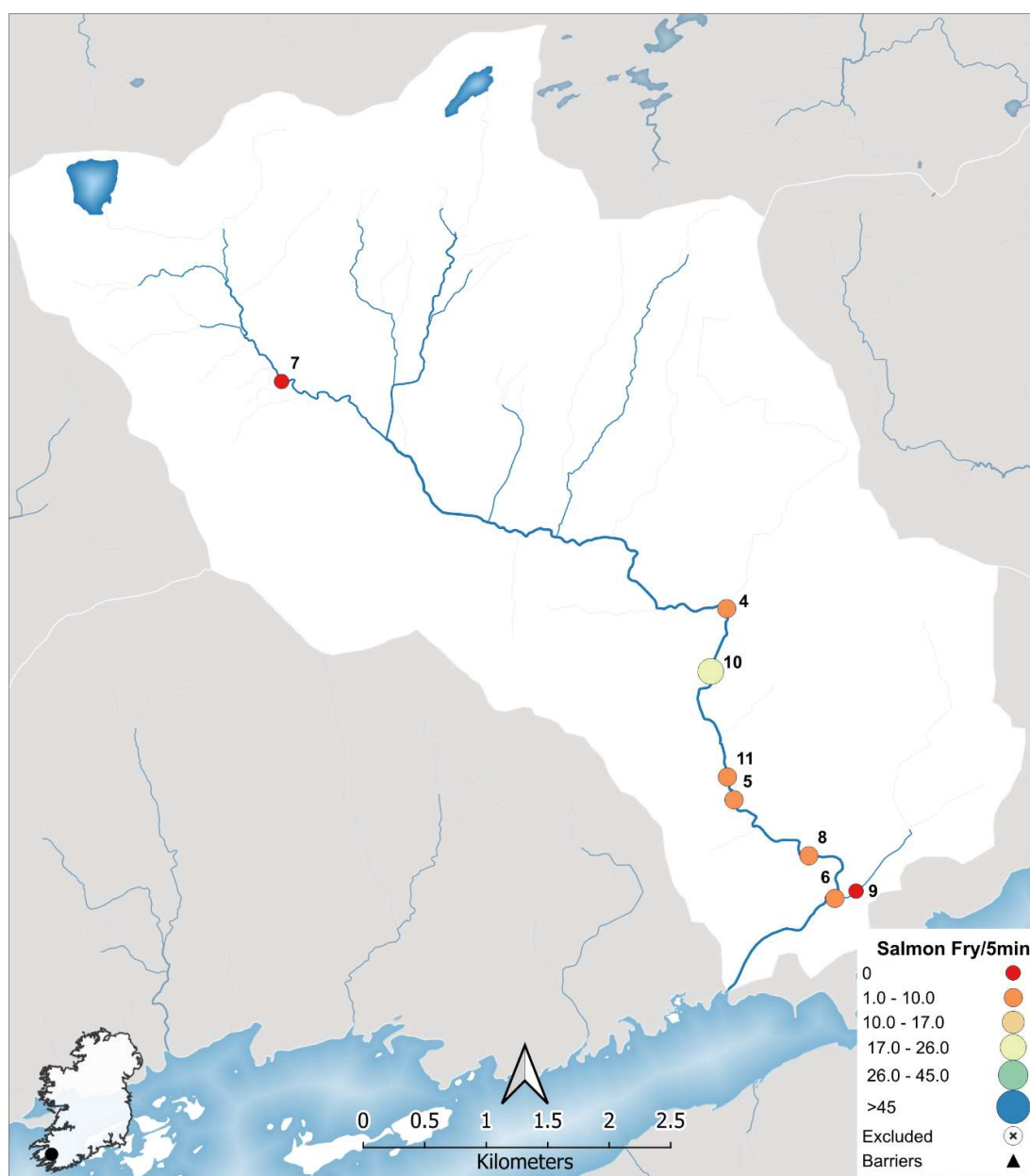


Fig. 48 Showing salmon fry/5min values and locations of surveys on the Finnihy River in 2024.

A.3.8 Kerry Blackwater River

IFI Salmon Catchment #:	90
2024 survey dates:	2-4/9/2024
Mean Salmon Fry/5 min (2024):	20.46 fry/5min
CWEF Index:	20.91 fry/5min.
Sampling carried out by:	Fish Species Present:
Karen Griffin	Brown Trout
Paul Tanner	Minnow
Tony Holmes	Salmon

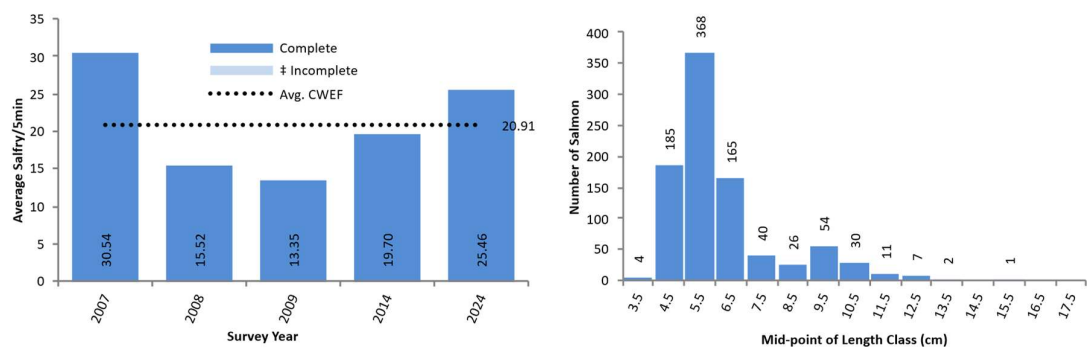


Fig. 49 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Kerry Blackwater river.

In this year's survey of the Blackwater (Kerry), 36 sites were examined from September 2nd to 4th. Salmon fry (0+) were found at 34 sites, with the highest number recorded at site 10, where 72 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

35 sites were included in the analysis; the mean catch at these sites was 25.46 salmon fry/5min.

Conclusion

The Blackwater (Kerry) had a salmon fry abundance of 25.46 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 20.91 salmon fry/5min which is above the 17 salmon fry threshold.

Table 26 Site specific results of CWF on the Kerry Blackwater River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	V 75588 72629	4	1	0	50	Include	0.00	55.00
2	V 74227 74530	3	1	4	29	Include	4.00	29.00
3	V 73884 75762	3	1	3	39	Include	3.43	44.57
4	V 74575 74574	3	1	2	33	Include	2.34	38.66
5	V 74490 75361	3	3	4	7	Include	4.73	8.27
6	V 77216 72788	4	2	2	17	Include	2.74	23.26
7	V 79209 71411	4	1	1	23	Include	1.00	23.00
8	V 79462 72484	4	3	1	6	Include	1.29	7.71
9	V 81430 73349	4	3	1	4	Include	1.60	6.40
10	V 77311 72836	5	2	0	72	Include	0.00	77.00
11	V 77432 76287	5	3	12	24	Include	14.33	28.67
12	V 78122 74747	3	1	8	33	Include	9.17	37.83
14	V 78490 70287	3		20	0	Include	25.00	0.00
16	V 77626 72685	5	1	0	6	Include	0.00	6.00
17	V 78079 72309	5	1	0	20	Include	0.00	22.00
18	V 79415 70787	5	1	1	23	Include	1.13	25.88
19	V 79257 69883	5	2	0	21	Include	0.00	27.00
20	V 74193 74477	2	1	2	35	Include	2.16	37.84
21	V 77471 73594	5	2	7	27	Include	9.06	34.94
23	V 75763 72309	4	2	0	26	Include	0.00	32.00
24	V 75936 72202	4	2	1	23	Include	1.25	28.75
25	V 76376 72214	4	2	0	24	Include	0.00	30.00
26	V 74951 73437	4	1	0	36	Include	0.00	39.00
27	V 79210 71356	5	2	1	35	Include	1.28	44.72
28	V 77313 77107	4	1	4	25	Include	4.41	27.59
29	V 77233 76901	3	1	8	8	Include	11.00	11.00
30	V 77405 76749	4	1	3	22	Include	3.72	27.28
31	V 77647 76946	4	3	5	5	Include	6.50	6.50
36	V 84199 74076	3		12	0	Too Narrow		
37	V 83282 73560	3	2	13	6	Include	15.74	7.26
38	V 81965 73377	3	2	6	7	Include	8.31	9.69
39	V 80723 73355	4	1	0	24	Include	0.00	29.00
41	V 79791 72967	2	2	3	10	Include	3.69	12.31

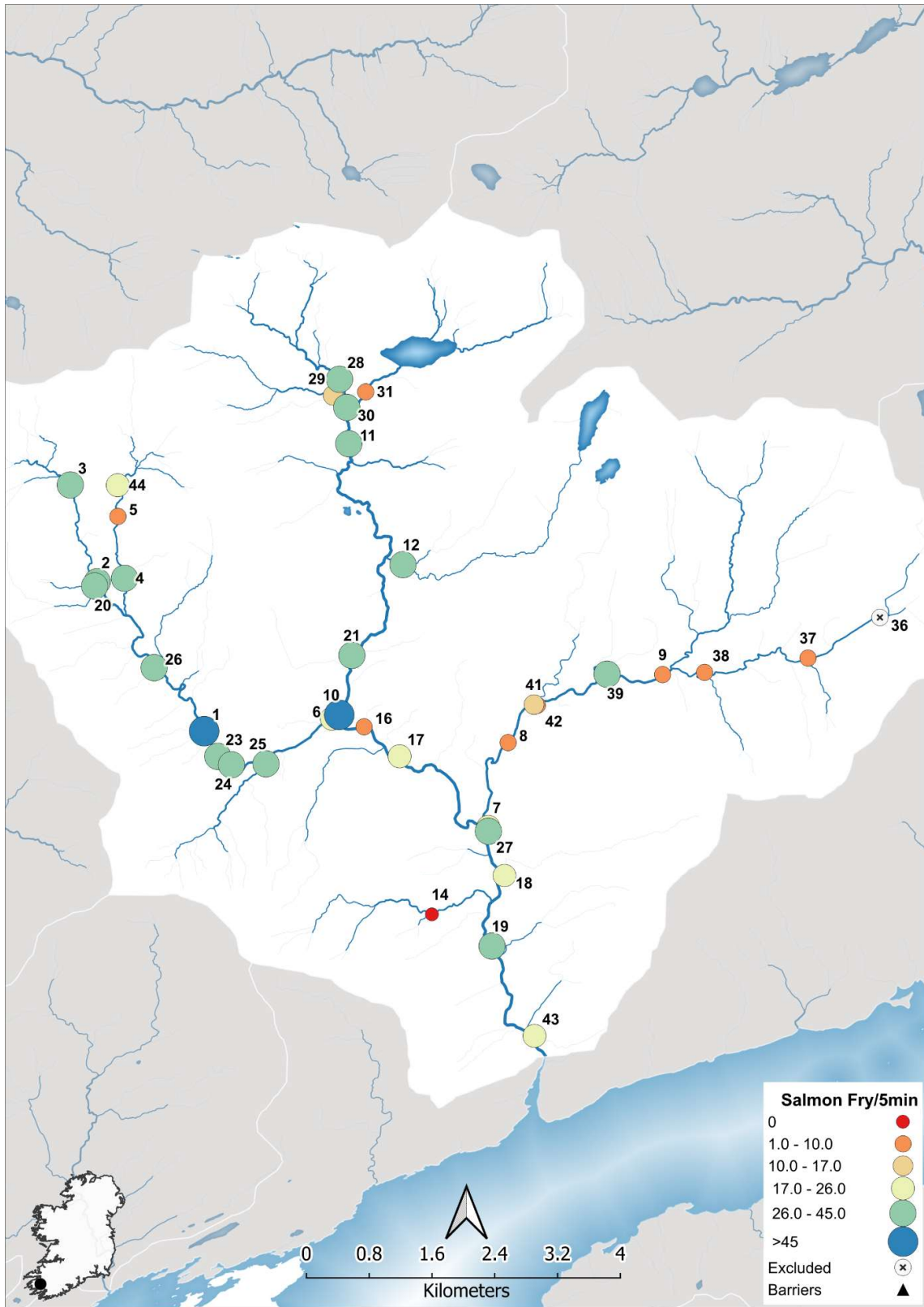


Fig. 50 Showing salmon fry/5min values and locations of surveys on the Kerry Blackwater River in 2024.

A.3.9 Owreagh River

IFI Salmon Catchment #:	93
2024 survey dates:	15/7/2024
Mean Salmon Fry/5 min (2024):	17.58 fry/5min
CWEF Index:	7.98 fry/5min.
Sampling carried out by:	Fish Species Present:
Mark Whelan	Salmon
Tony Holmes	Brown Trout.

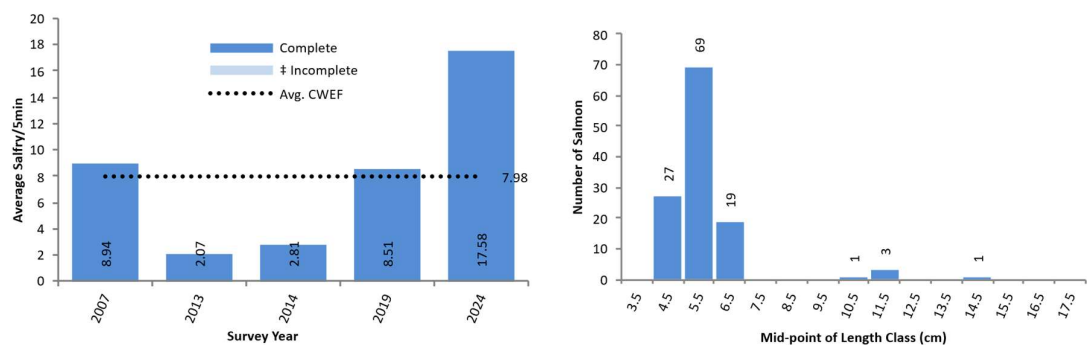


Fig. 51 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Owreagh river.

In this year's survey of the Owreagh, 8 sites were examined on July 15th. Salmon fry (0+) were found at 6 sites, with the highest number recorded at site 2, where 29 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

All 8 sites were included in the analysis; the mean catch at these sites was 17.58 salmon fry/5min.

Conclusion

The Owreagh had a salmon fry abundance of 17.58 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 7.98 salmon fry/5min which is below the 17 salmon fry threshold.

Table 27 Site specific results of CWF on the Owreagh River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	V 68040 66704	4	2	10	6	Include	13.75	8.25
2	V 64859 66136	4	2	0	29	Include	0.00	29.00
3	V 66109 67140	3	1	10	0	Include	13.00	0.00
4	V 67090 66762	4	2	4	19	Include	5.39	25.61
5	V 63856 65890	3	1	7	24	Include	8.81	30.19
6	V 63827 65789	2	1	2	0	Include	3.00	0.00
8	V 64580 65930	4	2	5	26	Include	6.29	32.71
9	V 66315 66603	4	2	6	11	Include	8.12	14.88

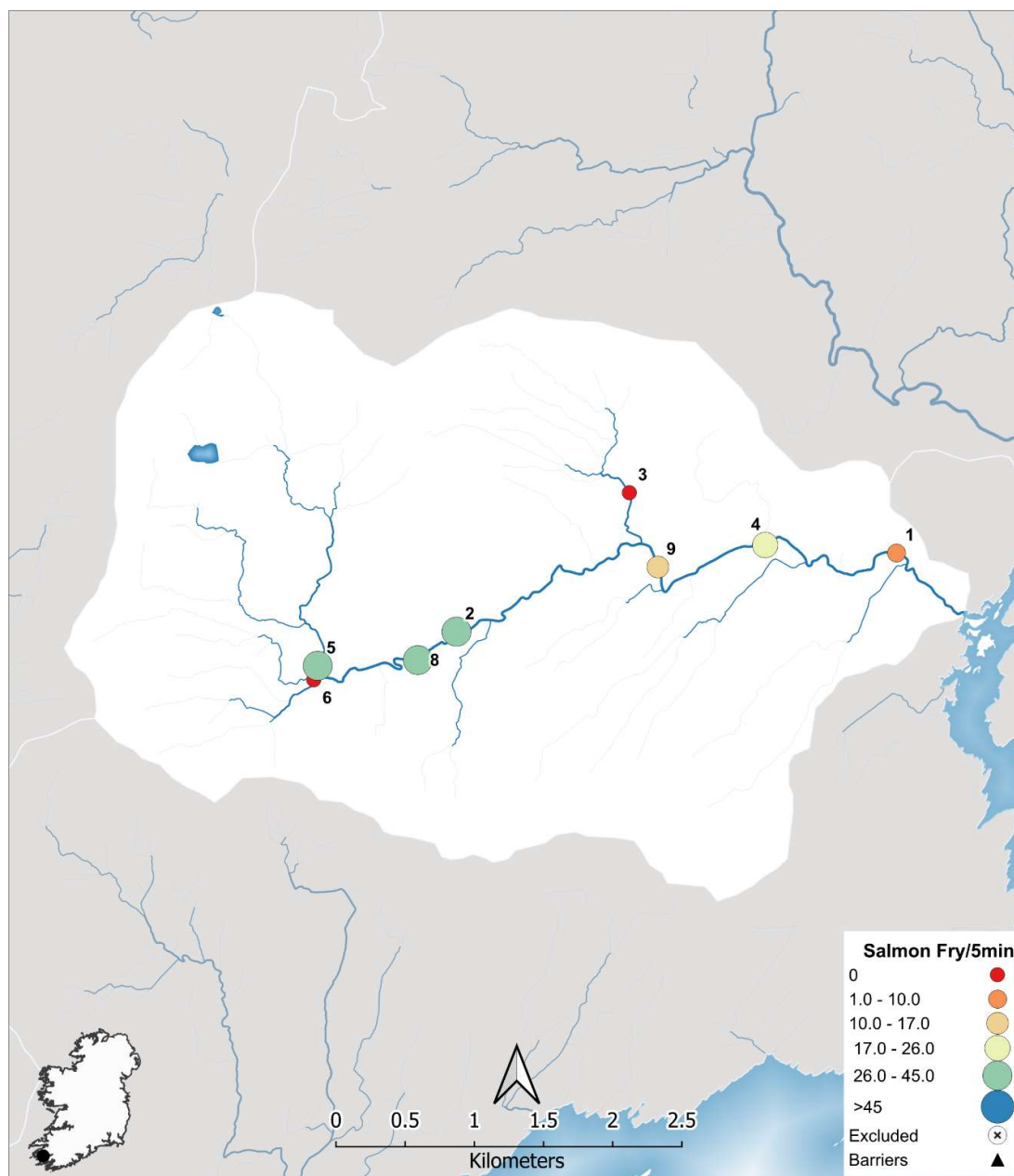


Fig. 52 Showing salmon fry/5min values and locations of surveys on the Owreagh River in 2024.

A.3.10 Inny River

IFI Salmon Catchment #:

2024 survey dates:

Mean Salmon Fry/5 min (2024):

CWEF Index:

98

2 - 8/7/2024

23.63 fry/5min

22.07 fry/5min.

Sampling carried out by:

Maek Whelan

Tony Holmes

Fish Species Present:

Brown Trout

European Eel

Salmon

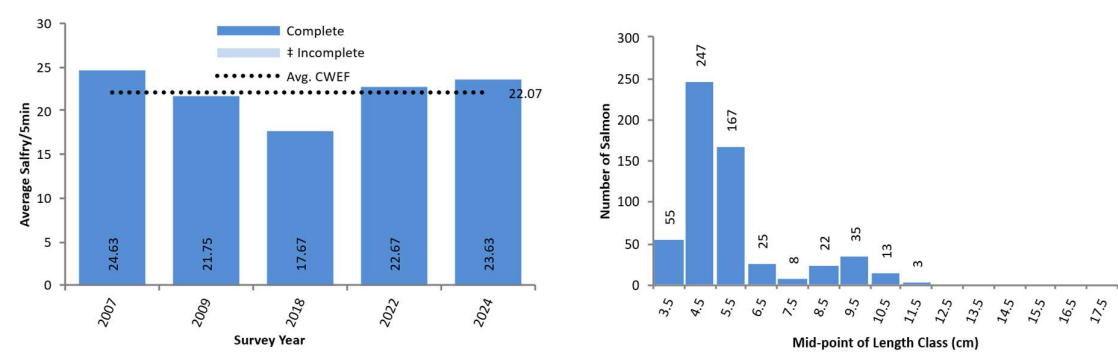


Fig. 53 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Inny river.

In this year's survey of the Inny, 27 sites were examined from July 2nd to 8th. Salmon fry (0+) were found at 25 sites, with the highest number recorded at site 18, where 75 salmon fry were observed. The modal length of 0+ salmon was 4.5 cm.

25 sites were included in the analysis; the mean catch at these sites was 23.63 salmon fry/5min.

Conclusion

The Inny had a salmon fry abundance of 23.63 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 22.07 salmon fry/5min which is above the 17 salmon fry threshold.

Table 28 Site specific results of CWF on the Inny River in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	V 54549 72040	5	2	0	41	Include	0.00	51.00
2	V 56003 73052	5	2	0	26	Include	0.00	32.00
3	V 57817 74533	5	2	0	28	Include	0.00	34.00
4	V 59175 75922	5	3	1	2	Include	1.67	3.33
5	V 60330 76595	5	3	0	3	Eff <60%		
6	V 61510 77152	4	2	3	10	Include	4.38	14.62
7	V 62661 76885	4	2	0	16	Include	0.00	16.00
8	V 63330 77106	4	2	0	13	Include	0.00	18.00
9	V 64904 78391	3	2	0	9	Include	0.00	11.00
10	V 51671 70636	2	2	2	0	Include	3.00	0.00
11	V 52458 71044	2	1	2	27	Include	2.55	34.45
12	V 53178 73047	2	2	2	1	Include	3.33	1.67
14	V 54468 74250	3	2	14	46	Include	17.73	58.27
15	V 57633 75358	4	2	1	5	Include	1.00	5.00
16	V 57079 76281	4	1	1	3	Include	1.25	3.75
17	V 61193 79155	3	1	0	52	Include	0.00	62.00
18	V 63014 80293	4	1	1	75	Include	1.20	89.80
21	V 63357 77044	3	1	3	28	Include	4.06	37.94
23	V 56611 77009	2	1	9	2	Include	13.09	2.91
24	V 55158 72746	3	2	1	21	Include	1.32	27.68
25	V 55239 72456	5	2	0	17	Include	0.00	21.00
26	V 61214 77283	4	2	0	14	Include	0.00	19.00
28	V 61512 79712	3	2	3	7	Include	4.20	9.80
29	V 51252 72077	2	2	3	0	Include	3.00	0.00
30	V 54552 72002	5	2	0	9	Include	0.00	12.00
31	V 54948 73344	3	2	6	18	Include	8.50	25.50

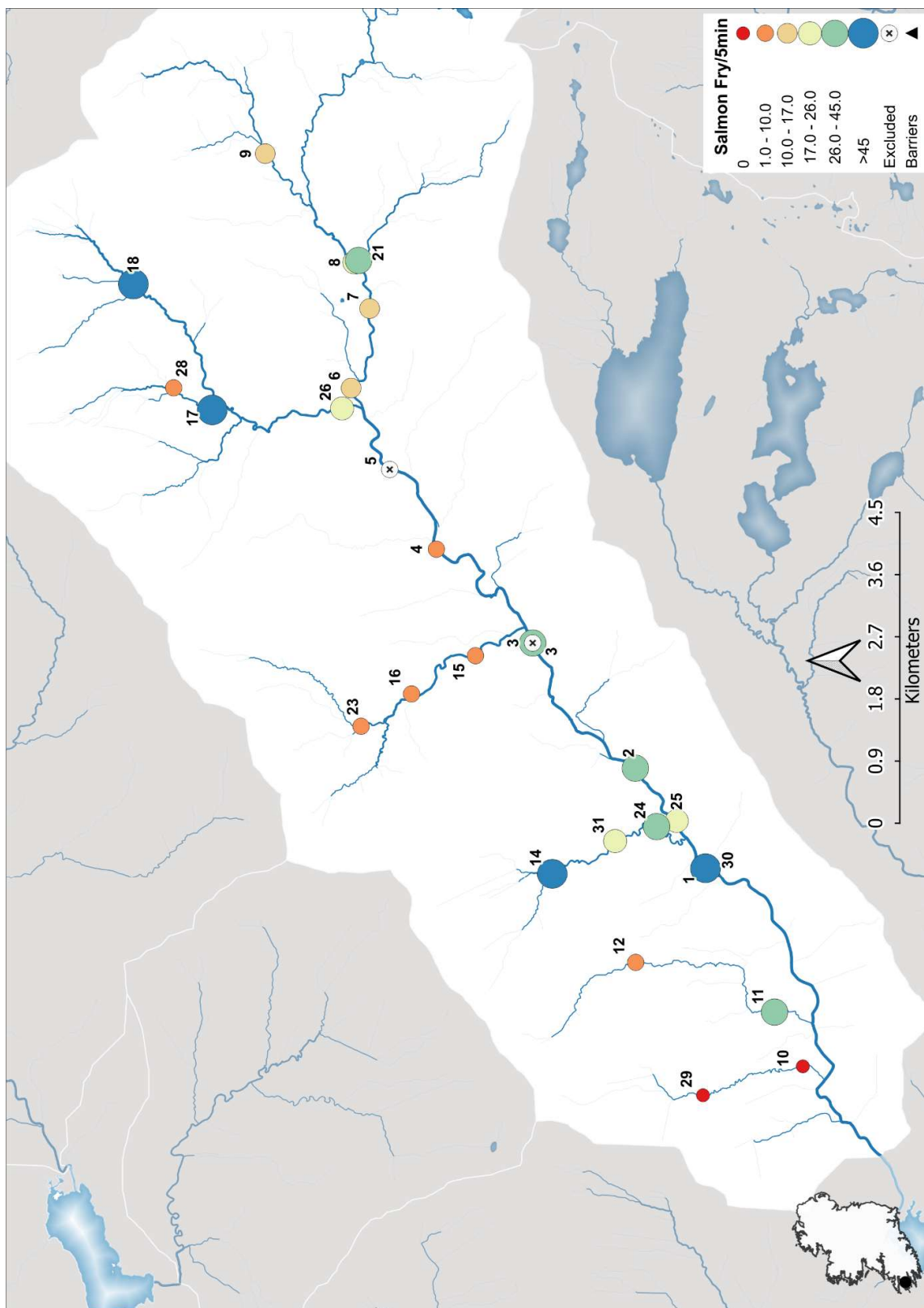


Fig. 54 Showing salmon fry/5min values and locations of surveys on the Inny River in 2024.

A.3.11 Owenascaul River

IFI Salmon Catchment #:	109
2024 survey dates:	25 - 26/7/2024
Mean Salmon Fry/5 min (2024):	16.03 fry/5min
CWEF Index:	13.88 fry/5min.

Sampling carried out by:	Fish Species Present:
Mark Whelan	Brown Trout
Tony Holmes	European Eel
	Salmon

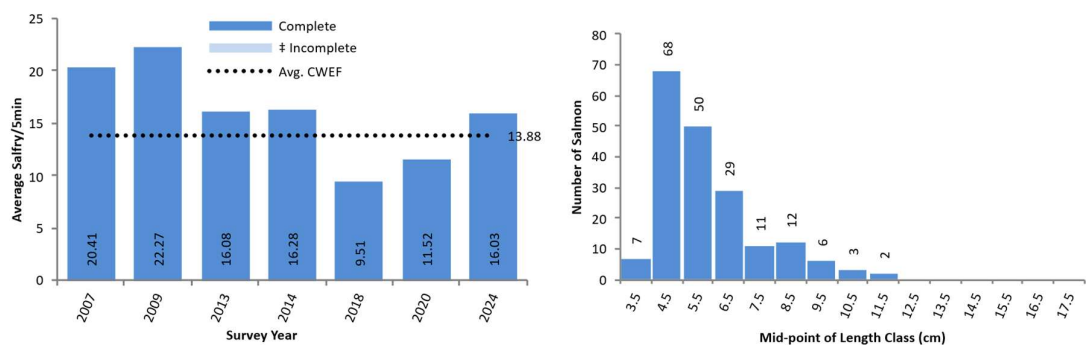


Fig. 55 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Owenascaul river.

In this year's survey of the Owenascaul, 13 sites were examined from July 25th to 26th. Salmon fry (0+) were found at 12 sites, with the highest number recorded at site 7, where 41 salmon fry were observed. The modal length of 0+ salmon was 4.5 cm.

12 sites were included in the analysis; the mean catch at these sites was 16.03 salmon fry/5min.

Conclusion

The Owenascaul had a salmon fry abundance of 16.03 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 13.88 salmon fry/5min which is below the 17 salmon fry threshold.

Table 29 Site specific results of CWF on the Owenascaul River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	Q 59257 01820	4	2	6	16	Include	7.09	18.91
2	Q 57998 05444	3	1	2	33	Include	2.17	35.83
3	Q 58680 02338	3	2	2	9	Include	2.00	9.00
4	Q 59815 02518	4	2	1	3	Include	1.25	3.75
5	Q 60251 03585	4	1	4	13	Include	4.71	15.29
6	Q 60385 04616	3		0	0	Overgrown		
7	Q 59381 03450	3	2	0	41	Include	0.00	48.00
8	Q 59344 04094	3	1	2	15	Include	2.47	18.53
9	Q 58245 02636	3	1	9	2	Include	10.64	2.36
10	Q 60466 04097	3	1	3	7	Include	4.20	9.80
11	Q 57711 05702	3	2	2	11	Include	2.31	12.69
12	Q 57961 02955	3	1	25	2	Include	27.78	2.22
13	Q 59245 01919	3	2	0	13	Include	0.00	16.00

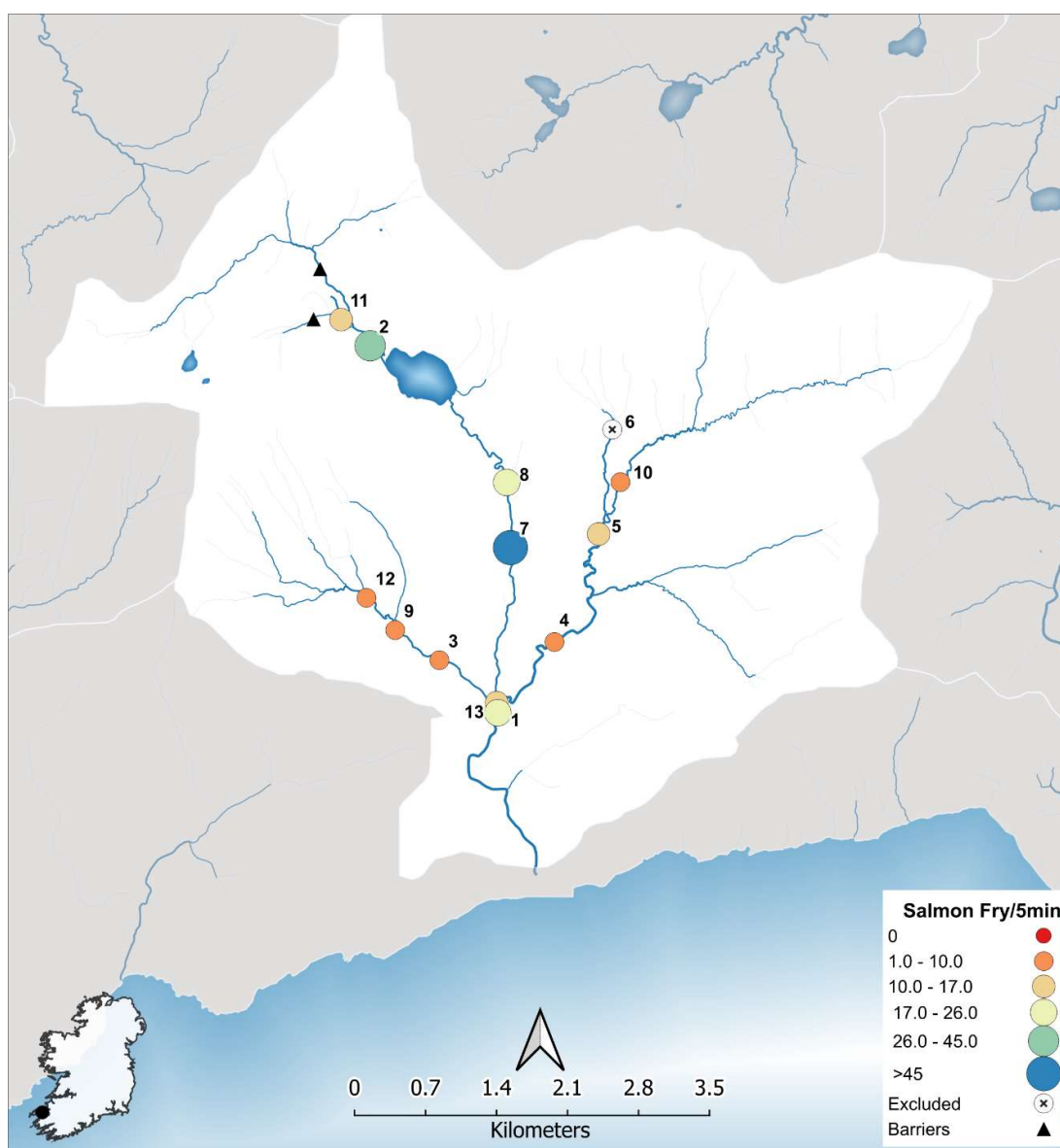


Fig. 56 Showing salmon fry/5min values and locations of surveys on the Owenascaul River in 2024.

A.4 Shannon River Basin District

Summary

Since 2007 twenty-two catchments or sub-catchments have been surveyed in the Shannon River Basin District (SHRBD) as part of the on-going catchment-wide electrofishing surveys. The results of these surveys are presented in Table 30 and Fig. 57. Currently three of these catchments are meeting the threshold index of 17 salmon fry/5min: the Feale, and Kilmastula Rivers and the Old Main channel of the Shannon. In 2024 surveys were completed on the Mulkear, Ratty and Inagh rivers.

Table 30 Catchment-wide electrofishing data for the SHRBD 2016-2024 showing the average salmon fry captured /5min for each year surveyed. Also shown is the current index, surveys prior to 2016 are included in Appendix C.

Code/River	Survey Year									Current Index	# Annual Surveys Considered
	2016	2017	2018	2019	2020	2021	2022	2023	2024		
118/Brick										0.00	1
119/Feale										<u>24.15</u>	1
120/Galey										12.99	1
125/Deel	1.87‡	0.04				3.83		1.46		1.14	5
126/Maigue						14.23				11.35	4
128/Shannon Kilcrow											
128/Sh. Graney											
128/Sh. Woodford											
128/Sh. Mulkear			8‡						23.41	<u>23.41</u>	1
128/Sh. Blackwater		10.74†	10.74†								
128/Sh. Groody		0†	7.45†								
128/Sh. Kilmastula		10.35†	24.45†								
128/Sh. Old MC		5.5‡	18.25‡	35.68			28.82			<u>32.25</u>	2
130/Owenagarney (Ratty)					3.82				4.05	8.43	4
131/Fergus					4.99‡	9.68				6.90	5
133/Doonbeg	16.14‡	18.77					18.82			16.82	4
134/Skivaleen	14.54‡				10.30			2.97		9.95	4
135/Annageeragh					0.84			1.75		3.41	4
142/Inagh					7.23				3.06	4.87	4
143/Aughyvackeen		1.70					2.56			1.75	3
144/Aille							0.00			0.00	1
Quin										6.47	1

Bold annual figures indicate years included in the calculation of the current CWF index.

Underlined index figures indicate those exceeding the 17 salmon fry threshold.

‡ Incomplete surveys not included in the calculation of the current index.

† Sub-catchment surveys.

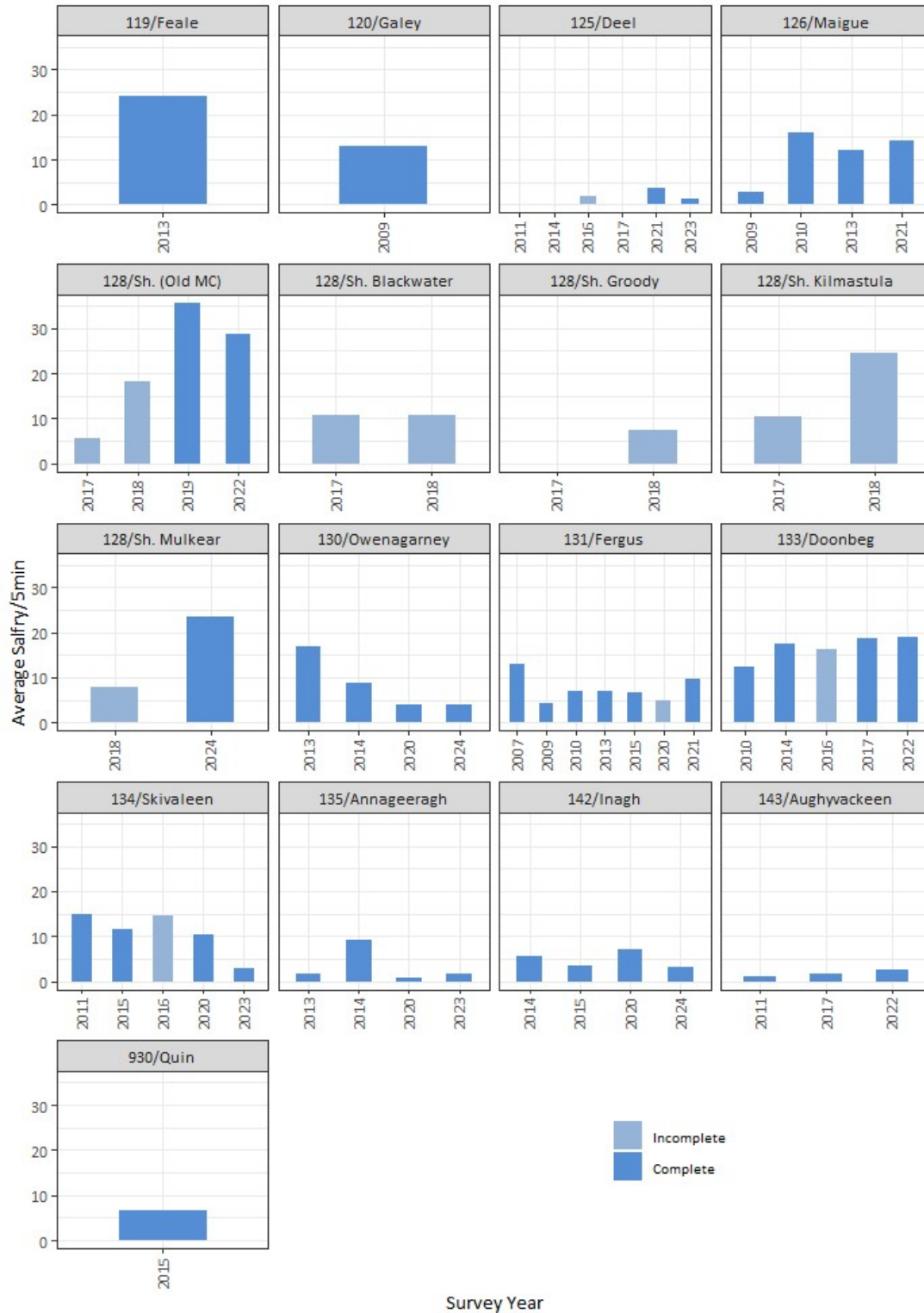


Fig. 57 Summary of results of annual CWF surveys (average salmon fry per 5min) in the SHRBD 2007-2024 (Kilcrow, Graney and Woodford and Aille omitted)

A.4.1 Shannon Mulkear River

IFI Salmon Catchment #: 128
 2024 survey dates: 30/7 - 7/8/2024
 Mean Salmon Fry/5 min (2024): 23.41 fry/5min
 CWEF Index: 23.41 fry/5min.

Sampling carried out by:

Mark Whelan
 Tony Holmes

Fish Species Present:

Brown Trout Salmon
 European Eel Stone Loach
 Minnow

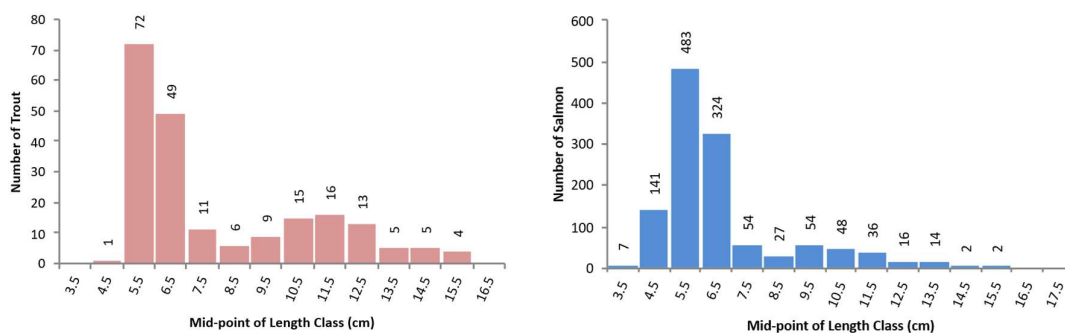


Fig. 58 Showing length distribution of Trout (left) and salmon captured in 2024 (right) on the Mulkear river.

In this year's survey of the Shannon Mulkear, 60 sites were examined from July 30th to August 7th. Salmon fry (0+) were found at 47 sites, with the highest number recorded at site 812, where 62 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

51 sites were included in the analysis; the mean catch at these sites was 23.41 salmon fry/5min.

Conclusion

The Shannon Mulkear had a salmon fry abundance of 23.41 salmon fry/5min in 2024. As this is the first complete survey on this catchment the CWEF index is also 23.41 salmon fry/5min which is above the 17 salmon fry threshold.

Table 31 Site specific results of CWF on the Mulkear River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
801	R 64264 57682	6	2	0	5	Include	0.00	8.00
802	R 64562 56271	6	2	0	8	Include	0.00	11.00
803	R 69626 53176	6	2	0	3	Include	0.00	4.00
804	R 72286 50568	6	2	0	14	Include		0.00
805	R 73986 48058	6	1	0	9	Include		0.00
806	R 77138 48020	6	1	0	1	Eff <60%		
807	R 78655 49294	5	3	1	8	Include	1.00	8.00
808	R 77987 50363	5	1	0	29	Include		0.00
809	R 77658 51550	5	2	1	27	Include	1.00	27.00
810	R 79787 51585	5	1	0	46	Include	0.00	53.00
811	R 80083 51437	5	1	0	52	Include	0.00	62.00
812	R 81542 51866	5	1	0	62	Include	0.00	75.00
813	R 82621 52708	4	2	2	13	Include	2.40	15.60
814	R 84313 56403	4	2	3	18	Include	3.43	20.57
815	R 84449 56687	4	1	1	49	Include	1.10	53.90
816	R 84464 56709	4	2	1	22	Include	1.22	26.78
817	R 85163 57504	4	2	1	36	Include	1.22	43.78
818	R 88826 58336	4	1	18	26	Include	20.05	28.95
819	R 88985 58711	3	2	2	38	Include	2.15	40.85
820	R 90113 60136	2	1	6	24	Include	6.40	25.60
821	R 89888 61824	2	1	7	19	Include	8.08	21.92
822	R 80045 53426	3	2	9	1	Include	10.80	1.20
823	R 81614 53929	3	1	20	0	Include	26.00	0.00
824	R 82180 55398	3		0	0	No Salmon Below		
825	R 82762 52663	4	1	2	21	Include	2.61	27.39
826	R 87122 54884	3	1	5	26	Include		5.65
827	R 82444 46319	4	2	1	0	Include		1.00
828	R 85009 44164	4	2	1	1	Include	1.00	1.00
829	R 87518 43534	4	2	8	0	Include	8.00	0.00
830	R 87532 43547	4	2	2	0	Include	2.00	0.00
831	R 86742 47527	3		0	0	Unsuitable		
832	R 82820 48262	3	2	0	15	Include	0.00	19.00
833	R 85253 49068	3	2	14	1	Include	14.00	1.00
834	R 86690 51049	3	1	5	6	Include	5.91	7.09
835	R 72360 53517	3	3	1	7	Include	1.00	7.00
836	R 68179 56311	5	1	0	12	Include	0.00	17.00
837	R 68382 57781	5	1	1	21	Include	1.14	23.86
838	R 68383 59551	4	2	0	12	Include	0.00	16.00
839	R 68613 60462	4	3	0	26	Include	0.00	34.00
840	R 70227 61864	4	1	0	47	Include	0.00	59.00
841	R 71611 61583	4	1	0	15	Include	0.00	20.00
842	R 77605 66903	3	1	0	34	Include	0.00	44.00
843	R 78403 68328	3	1	4	33	Include		4.22
844	R 80465 68640	3	1	4	53	Include	4.70	62.30
845	R 83672 68372	3	2	2	18	Include	2.40	21.60
846	R 86075 67363	3		4	27	Include		4.52
847	R 86425 67254	3	2	9	2	Include	10.64	2.36
848	R 86826 65423	2	2	8	7	Include	9.60	8.40
849	R 69630 59359	4	1	1	15	Include	1.00	15.00
850	R 70806 59381	4	1	1	32	Include	1.18	37.82
851	R 71824 59271	4	2	2	43	Include	2.36	50.64
852	R 72965 60001	4	3	0	6	Include	0.00	8.00
853	R 73999 58959	4		0	0	Lge Falls- No Site		
854	R 75041 59208	4	1	4	0	Above Falls		
855	R 78847 60184	4	1	1	0	Above Falls		
856	R 81426 60191	4	2	13	0	Above Falls		
857	R 82616 62309	3	1	17	0	Above Falls		
858	R 82392 59248	2		0	0	Above Falls And Overgrown		
859	R 74245 62557	2	3	5	0	Include	5.00	0.00
860	R 77824 65062	3	2	2	23	Include	2.40	27.60

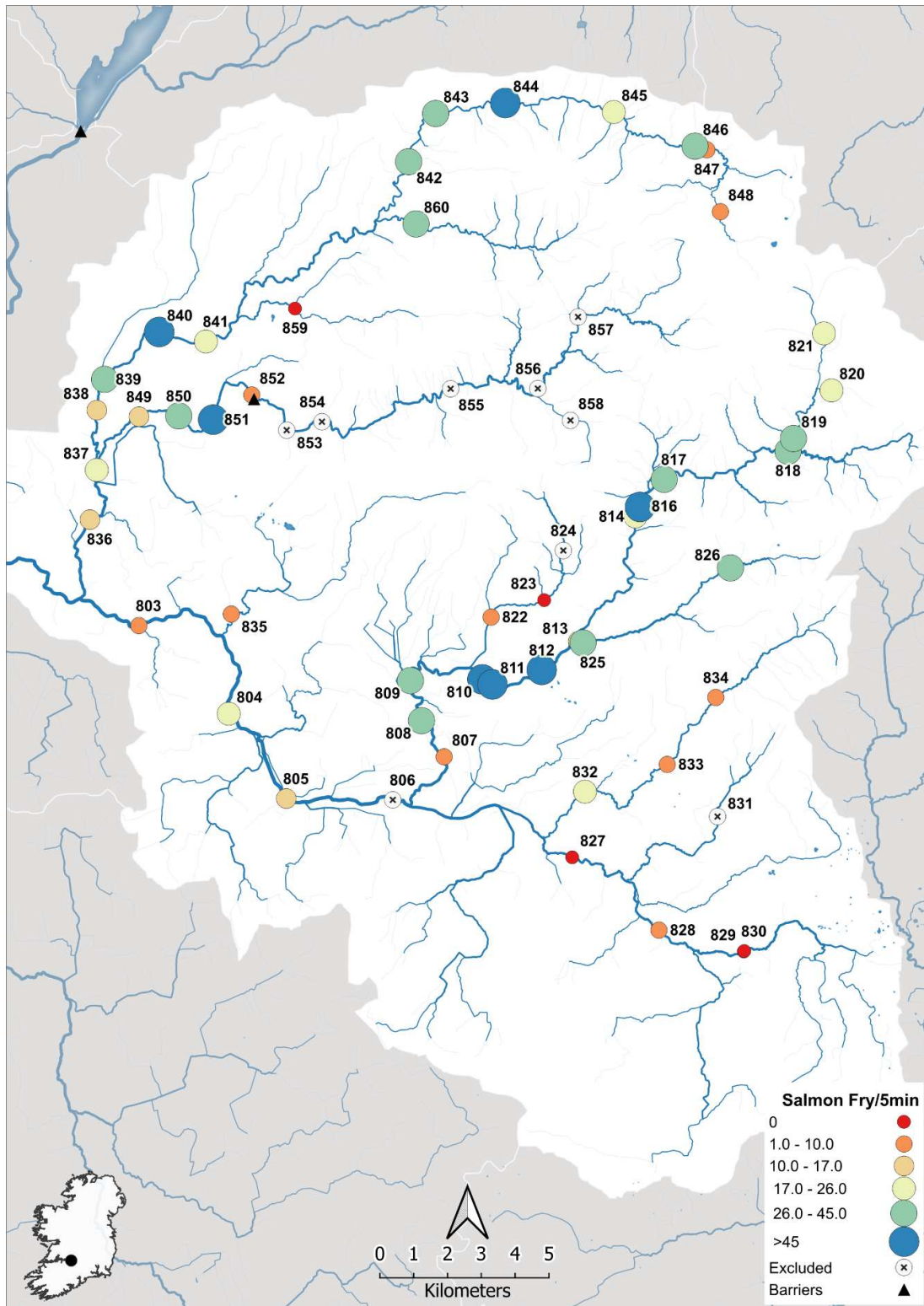


Fig. 59 Showing salmon fry/5min values and locations of surveys on the Mulkear River in 2024.

A.4.2 Owenagarney (Ratty) River

IFI Salmon Catchment #: 130
 2024 survey dates: 31/8-20/9/2024
 Mean Salmon Fry/5 min (2024): 4.05 fry/5min
 CWEF Index: 8.42 fry/5min.

Sampling carried out by:

Bill Keane
 Jonathan Coates Farrell
 Tom Hilgers
 Wayne Timmons

Fish Species Present:

Brown Trout 3-spined Stickleback
 Gudgeon Salmon
 Stone loach

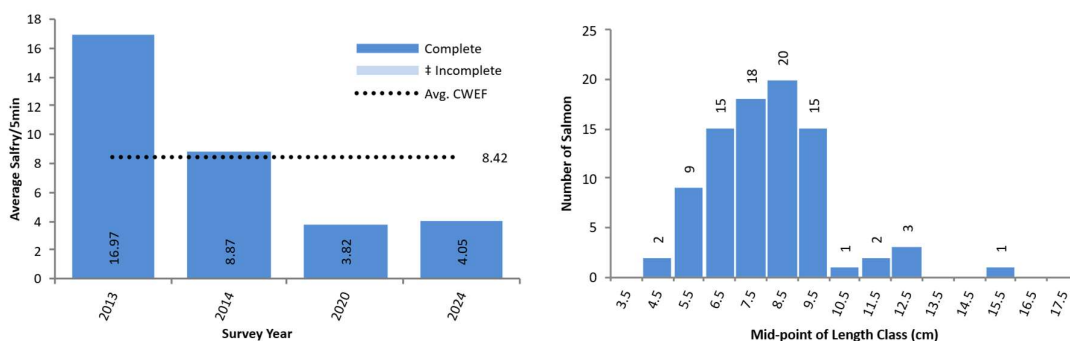


Fig. 60 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Owenagarney river.

In this year's survey of the Owenagarney (Ratty), 20 sites were examined from August 31st to September 20th. Salmon fry (0+) were found at 10 sites, with the highest number recorded at site 5, where 15 salmon fry were observed. The modal length of 0+ salmon was 8.5 cm.

18 sites were included in the analysis; the mean catch at these sites was 4.05 salmon fry/5min.

Conclusion

The Owenagarney (Ratty) had a salmon fry abundance of 4.05 salmon fry/5min in 2024. Taking the 4 most recent complete surveys into account this results in a cumulative average of 8.42 salmon fry/5min which is below the 17 salmon fry threshold.

Table 32 Site specific results of CWEF on the Owenagarney (Ratty) River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
4	R 47831 65890	4	2	0	6	Include	0.00	8.00
5	R 47668 67608	4	1	0	15	Include	0.00	16.00
6	R 48022 68412	4	2	0	0	Include	0.00	0.00
8	R 50802 71226	4	2	1	12	Include	1.00	12.00

Table 32 Site specific results of CWF on the Owenagarney (Ratty) River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
11	R 55671 75787	3	2	6	0	Include	9.00	0.00
12	R 56289 76940	3		2	0	Include	3.00	0.00
13	R 57461 76606	3	1	7	0	Include	9.00	0.00
14	R 48785 64808	3	1	5	2	Include	5.71	2.29
15	R 49793 66259	2	2	2	2	Include	3.00	3.00
16	R 51657 66672	2	1	0	0	Include	0.00	0.00
17	R 54188 75800	3	2	2	4	Include	2.67	5.33
18	R 53887 76940	3	2	0	0	Include	0.00	0.00
19	R 54812 79025	2		0		Not Sampled		
20	R 57782 77746	2	2	3	0	Include	5.00	0.00
21	R 59613 77938	2	1	1	0	Eff <60%		
22	R 52913 71838	3	1	1	5	Include	1.00	5.00
23	R 55702 73439	3	2	0	9	Include	0.00	11.00
24	R 57322 72769	3	1	1	7	Include	1.13	7.88
26	R 58379 72098	3	1	4	2	Include	4.67	2.33
28	R 61033 72076	3	1	5	0	Include	5.00	0.00

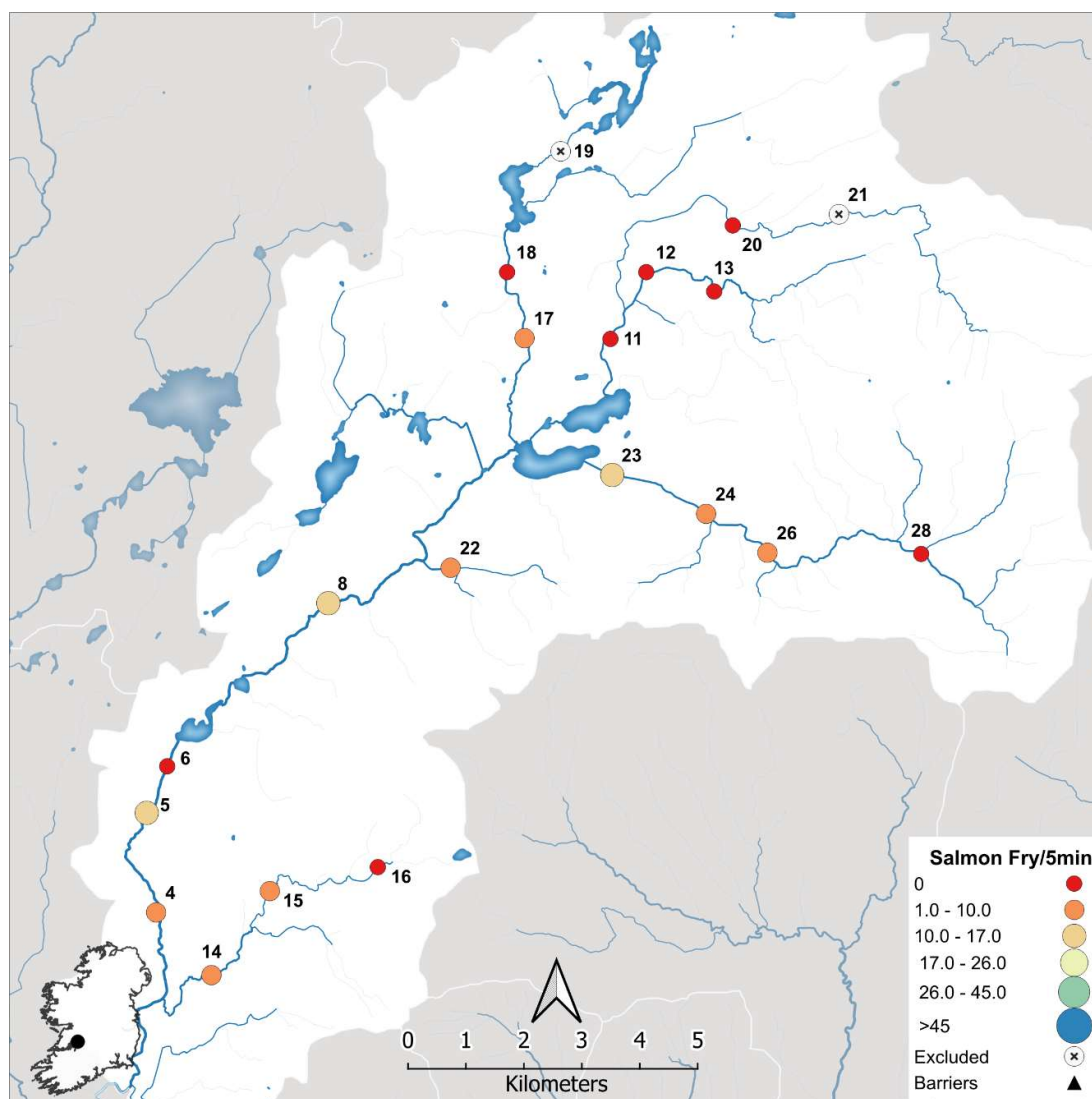


Fig. 61 Showing salmon fry/5min values and locations of surveys on the Owenagarney River in 2024.

A.4.3 Inagh River

IFI Salmon Catchment #: 142
 2024 survey dates: 4 - 21/9/2024
 Mean Salmon Fry/5 min (2024): 3.06 fry/5min
 CWF Index: 4.87 fry/5min.

Sampling carried out by:
 Bill Keane
 Jonathan Coates Farrell
 Wayne Timons

Fish Species Present:
 Brown Trout 3-spined Sickleback
 European Eel Salmon
 Flounder

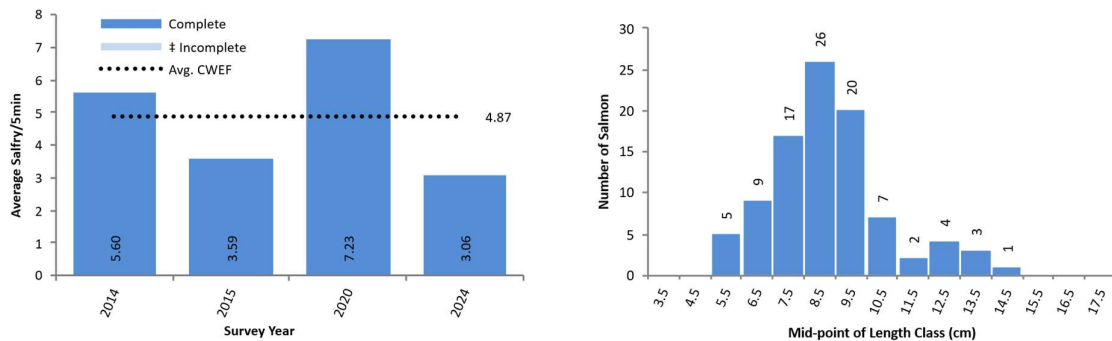


Fig. 62 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Inagh river.

In this year's survey of the Inagh, 24 sites were examined from September 4th to 21st. Salmon fry (0+) were found at 11 sites, with the highest number recorded at site 25, where 11 salmon fry were observed. The modal length of 0+ salmon was 8.5 cm.

All 24 sites were included in the analysis; the mean catch at these sites was 3.06 salmon fry/5min.

Table 33 Site specific results of CWF on the Inagh River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	R 13194 88193	5	2	1	9	Include	1.40	12.60
3	R 18936 83247	5	2	0	4	Include	0.00	6.00
5	R 20325 81775	5	2	2	4	Include	2.67	5.33
6	R 20694 81716	4	2	4	3	Include	5.14	3.86
7	R 20835 81304	4	2	1	2	Include	1.33	2.67
8	R 22129 82789	4	2	8	1	Include	9.78	1.22
9	R 23069 83266	3	2	4	0	Include	4.00	0.00
11	R 15948 82051	4	2	2	0	Include	2.00	0.00
12	R 15090 81676	3	1	13	0	Include	13.00	0.00
13	R 14449 81544	3	2	9	0	Include	11.00	0.00
14	R 13824 81822	3	2	10	0	Include	10.00	0.00
15	R 11789 82634	3	1	14	0	Include	15.00	0.00

Table 33 Site specific results of CWF on the Inagh River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
17	R 14273 80943	2	2	6	0	Include	7.00	0.00
20	R 20367 77978	3	2	8	0	Include	11.00	0.00
22	R 20635 80303	4	2	0	2	Include	0.00	2.00
23	R 22970 78558	3	3	0	0	Include	0.00	0.00
24	R 16811 85690	2	2	0	0	Include	0.00	0.00
25	R 15620 86979	3	1	3	11	Include	4.07	14.93
27	R 18078 80412	2	2	11	0	Include	15.00	0.00
29	R 15079 81279	3	1	7	0	Include	9.00	0.00
30	R 21182 77835	3	2	6	0	Include	8.00	0.00
32	R 15360 86853	3	2	1	4	Include	1.20	4.80
33	R 13781 87400	5	1	0	9	Include	0.00	11.00
34	R 12865 88440	5	2	0	8	Include	0.00	9.00

Conclusion

The Inagh had a salmon fry abundance of 3.06 salmon fry/5min in 2024. Taking the 4 most recent complete surveys into account this results in a cumulative average of 4.87 salmon fry/5min which is below the 17 salmon fry threshold.

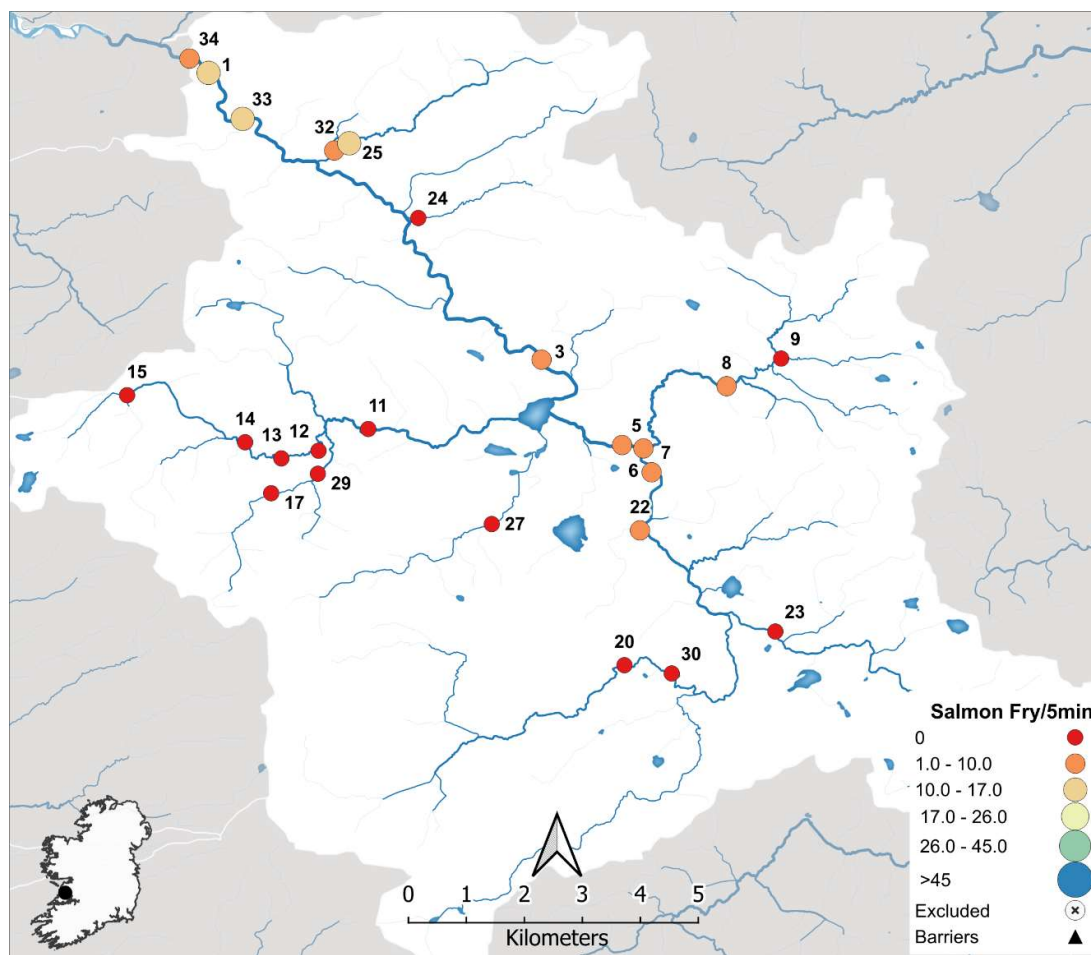


Fig. 63 Showing salmon fry/5min values and locations of surveys on the Inagh River in 2024.

A.5 Western River Basin District

Summary

Since 2007, thirty-one rivers have been surveyed in Western River Basin District (WRBD) as part of the ongoing catchment-wide electrofishing surveys. The results of these surveys are presented in Table 34 and Fig. 64. Currently eight of these rivers are meeting the threshold index of 17 salmon fry/5min: the Owenglin, Culfin, Erriff, Carrownisky, Owenmore, Carrowmore, and Drumcliff, as well as the Owenriff sub-catchment in the Corrib. In 2024 surveys were completed on the Kilcolgan, Erriff, Newport, Owenduff, Clooghnamore and Easky, and a further limited exploratory survey was undertaken on the Ballysadare.

Table 34 Catchment-wide electrofishing data for the WRBD 2016-2024 showing the average salmon fry captured /5min for each year surveyed. Also shown is the current index, surveys prior to 2016 are included in Appendix C.

Code/River	Survey Year									Current Index	# Annual Surveys Considered
	2016	2017	2018	2019	2020	2021	2022	2023	2024		
145/Kilcolgan		0.1‡	0.88‡		11.95			5.74‡	6.49	6.98	3
146/Clarínbridge					1.77					4.52	2
147/Corrib					10.74†						
147/Corrib Owenriff			10.35‡			22.30				19.03	2
148/Knock			1.5‡			16.93				14.73	2
149/Owenboliska			0.76			12.90				5.57	4
152/Cashla										10.83	1
154/L. Na Furnace										0.00	1
155/Screeb		10.70					12.39			11.55	2
161/Owenmore - Ballinahinch					14.83					14.83	1
163/Owenglin						29.86‡	28.56			20.90	2
166/Dawros											
167/Culfin										30.83	1
168/Erriff	21.72	13.69	22.81	22.25	31.95	40.49	37.18	19.64	31.60	32.17	5
171/Carrownisky		4.25‡		15.24			28.41			20.14	5
172/Bunowen										13.62	1
173/Owenwee (Belclare)				4.49						9.33	4
178/Newport (L. Beltra)								14.43‡	17.52	14.13	4
179/Srahmore										4.33	1
181/Owengarve					13.01			3.49		5.97	5
185/Owenduff (Bangor)									14.22	10.21	2
186/Owenmore - MC										27.65	1
186/Owenmore- Carrowmore										25.77	1
187/Glenamoy								9.54		14.45	3
188/Muingnabo					0.33					0.56	2
193/Ballinglen	4.97					10.73		0.60		7.55	5
194/Cloonaghmore		5.46‡	14.63				7.52		6.64	12.23	5
196/Brusna					6.73‡			5.28		9.80	4
198/Leaffony					0.67‡		0.00			3.86	4
200/Easky									5.48	5.48	1
202/Ballysadare									0.18‡		
203/Garvogue /Bon.						19.53	16.37	15.46		15.53	5
205/Drumcliff										17.72	1
207/Grange					4.08					4.42	4
Oranmore			0.63							0.63	1
Loch An Mhuillin		0.00								0.00	1

Bold annual figures indicate years included in the calculation of current the CWF index.

Underlined index figures indicate those exceeding the 17 salmon fry threshold.

‡ Incomplete surveys not included in the calculation of current index.

† Sub-catchment surveys.

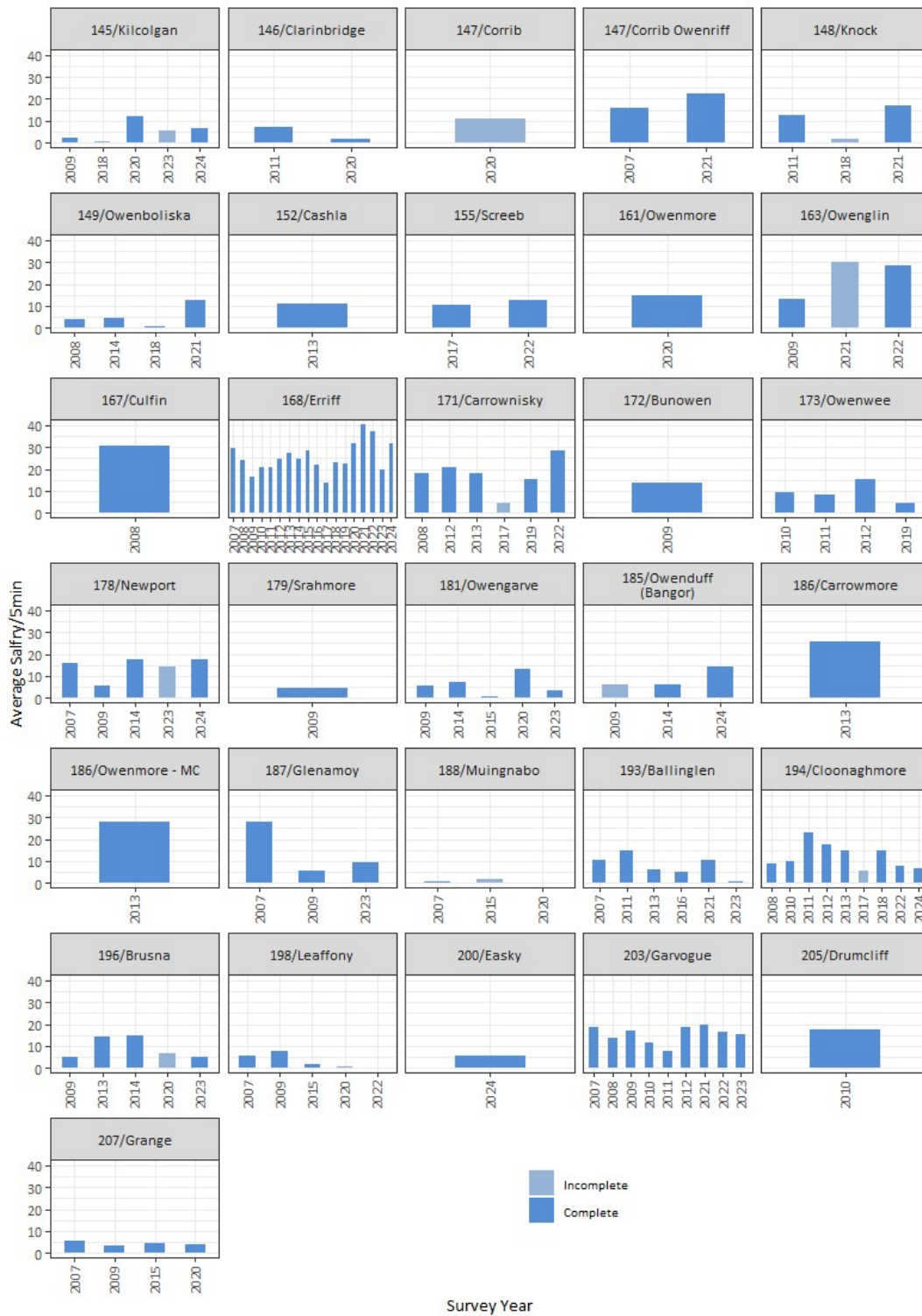


Fig. 64 Summary of results of annual CWF surveys (average salmon fry per 5min) in the WRBD 2007-2024.

A.5.1 Kilcolgan River

IFI Salmon Catchment #:	145	
2024 survey dates:	7 - 12/8/2024	
Mean Salmon Fry/5 min (2024):	6.49 fry/5min.	
CWEF Index:	6.99 fry/5min.	
Sampling carried out by:	Fish Species Present:	
Mark Whelan	Brown Trout	Stonelauch
Tony Holmes	European Eel	3-spined Stickleback
	Gudgeon	Salmon
	Minnow	White Clawed Crayfish
	Pike	

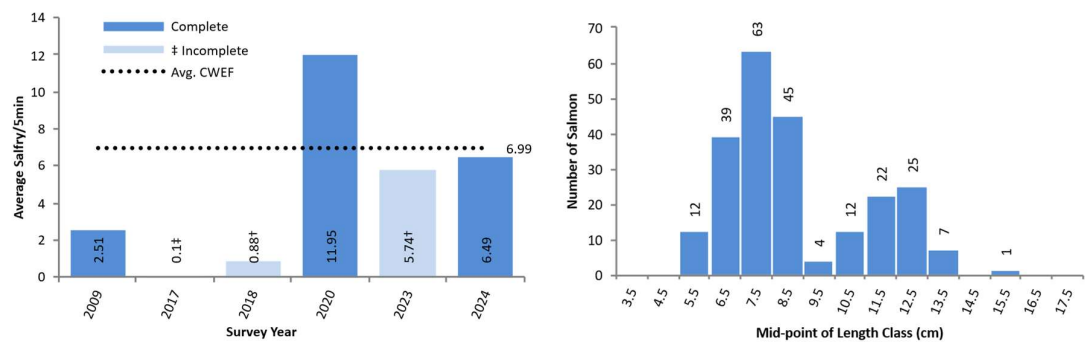


Fig. 65 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Kilcolgan river.

In this year's survey of the Kilcolgan, 33 sites were examined from August 7th to 12th. Salmon fry (0+) were found at 22 sites, with the highest number recorded at site 25, where 24 salmon fry were observed. The modal length of 0+ salmon was 7.5 cm.

28 sites were included in the analysis; the mean catch at these sites was 6.49 salmon fry/5min.

Conclusion

The Kilcolgan had a salmon fry abundance of 6.49 salmon fry/5min in 2024. Taking the 3 most recent complete surveys into account this results in a cumulative average of 6.99 salmon fry/5min which is below the 17 salmon fry threshold.

Table 35 Site specific results of CWF on the Kilcolgan River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	M 44182 18408	5	2	5	17	Include	6.59	22.41
2	M 45493 18399	5	2	7	1	Include	7.00	1.00
3	M 51065 19929	5	3	4	5	Include	4.89	6.11
4	M 54707 23253	4	2	0	2	Include	0.00	2.00
5	M 58135 24211	4	1	2	16	Include	2.22	17.78
6	M 58239 24259	4		0	0	Poor Site Very Close To Existing Site		
7	M 57930 25003	4	1	3	10	Include	3.92	13.08
8	M 60247 25834	4	2	0	5	Include	0.00	5.00
9	M 60885 26110	4	2	0	10	Include	0.00	12.00
10	M 61211 27496	4	2	2	1	Include	2.00	1.00
13	M 64729 26843	4	3	2	0	Include	2.00	0.00
14	M 64846 29110	4	2	6	0	Include	6.00	0.00
15	M 51822 18906	2		0	0	Overgrown		
16	M 50535 16739	3		0	0	Overgrown		
17	M 52585 20060	4	3	1	6	Include	1.29	7.71
18	M 57343 20837	4	3	3	1	Include	3.00	1.00
19	M 58531 21358	4	3	0	1	Include	0.00	1.00
20	M 59827 21314	4	3	1	4	Include	1.20	4.80
21	M 61435 21747	4	2	2	14	Include	2.00	14.00
22	M 61706 21786	4	3	0	1	Include	0.00	1.00
23	M 53798 20624	3	2	7	4	Include	7.00	4.00
24	M 53976 20595	3	3	4	10	Include	4.00	10.00
25	M 55344 20166	3	2	0	24	Include	0.00	27.00
26	M 55541 20141	3	1	1	15	Include	1.19	17.81
27	M 62233 18544	2	1	2	0	Include	2.00	0.00
28	M 63054 21393	3	2	4	0	Eff <60%		
29	M 62698 22333	3	3	2	1	Include	2.00	1.00
30	M 63298 22801	3	2	4	0	Include	4.00	0.00
31	M 55896 21589	3	3	3	6	Include	3.33	6.67
32	M 56055 21560	3	3	7	5	Include	7.58	5.42
33	M 65081 27366	3	3	10	0	Include	11.00	0.00
34	M 65581 27165	2	2	5	0	Include	6.00	0.00
35	M 65552 27247	2	2	0	0	Too Small, Not Salmon Habitat		

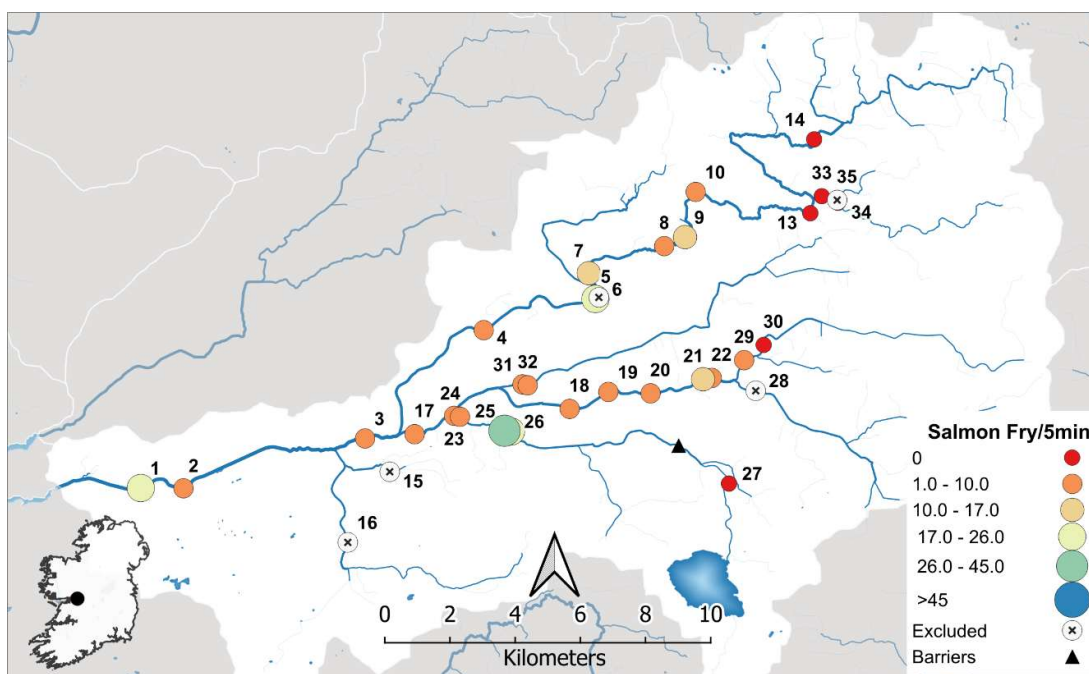


Fig. 66 Showing salmon fry/5min values and locations of surveys on the Kilcolgan River in 2024.

A.5.2 Erriff River

IFI Salmon Catchment #: 168
2024 survey dates: 3-12/9/2024
Mean Salmon Fry/5 min (2024): 31.60 fry/5min
CWEF Index: 32.17 fry/5min.

Sampling carried out by:

Joaquin Nunez
 Hanna Addons
 Enda O'Brien
 Mick Millane
 Tony Holmes

Fish Species Present:

Brown Trout Salmon
 Minnow 3-spined Sticklenback
 European Eel

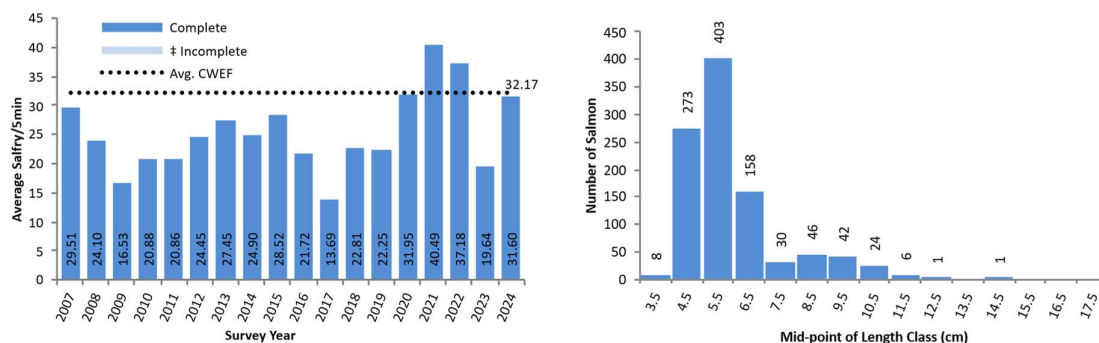


Fig. 67 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Erriff river.

In this year's survey of the Erriff, 33 sites were examined from September 3rd to 12th. Salmon fry (0+) were found at all 33 sites, with the highest number recorded at site 2, where 56 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

32 sites were included in the analysis; the mean catch at these sites was 31.6 salmon fry/5min.

Conclusion

The Erriff had a salmon fry abundance of 31.6 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 32.17 salmon fry/5min which is above the 17 salmon fry threshold.

Table 36 Site specific results of CWEF on the Erriff River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	L 92056 65797	5	1	0	13	Include	0.00	15.00
2	L 92702 65721	5	2	0	56	Include	0.00	70.00
3	L 93503 66122	5	2	0	30	Include	0.00	42.00
4	L 93784 66390	5	1	0	41	Include	0.00	48.00
5	L 94352 66589	5	2	0	50	Include	0.00	60.00
6	L 94798 67019	5	2	0	45	Include	0.00	53.00

Table 36 Site specific results of CWF on the Erriff River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
7	L 95142 67641	5	1	0	39	Include	0.00	45.00
8	L 95846 67875	5	1	0	25	Include	0.00	35.00
10	L 97630 71190	4	1	1	21	Include	1.09	22.91
11	L 97125 71269	4	1	1	21	Include	1.09	22.91
12	L 96732 71295	4	1	1	33	Include	1.06	34.94
13	L 95919 71252	4	1	8	41	Include	8.49	43.51
19	L 92739 73748	4	1	0	29	Include	0.00	35.00
20	L 92438 73774	4	1	0	30	Include	0.00	33.00
21	L 92057 73962	4	1	2	36	Include	2.16	38.84
24	L 90454 74809	3	1	4	28	Include	4.75	33.25
25	L 89216 74612	3	1	1	38	Include	1.05	39.95
26	L 90525 64492	3		2	10	Include	2.17	10.83
27	L 93408 66092	4	2	0	27	Include	0.00	31.00
29	L 95081 67292	3	1	1	12	Include	1.46	17.54
30	L 95039 67705	3	2	0	14	Include	0.00	19.00
31	L 90058 67605	3	1	6	24	Include	6.60	26.40
32	L 89506 67128	2	1	3	15	Include	3.17	15.83
33	L 96407 69493	3	2	1	9	Eff <60%		
34	L 99926 72098	4	1	0	23	Include	0.00	27.00
35	M 00301 72204	4	1	0	18	Include	0.00	25.00
39	M 01401 73456	3	2	2	11	Include	2.46	13.54
40	M 01753 73717	3	1	1	30	Include	1.13	33.87
41	M 02046 73578	2	1	4	6	Include	5.60	8.40
53	L 88685 74071	2	1	0	25	Include	0.00	28.00
56	L 96034 68324	5	1	0	16	Include	0.00	24.00
57	L 89337 66953	2	1	3	10	Include	4.38	14.62
61	L 93793 73129	4	2	0	42	Include	0.00	44.00

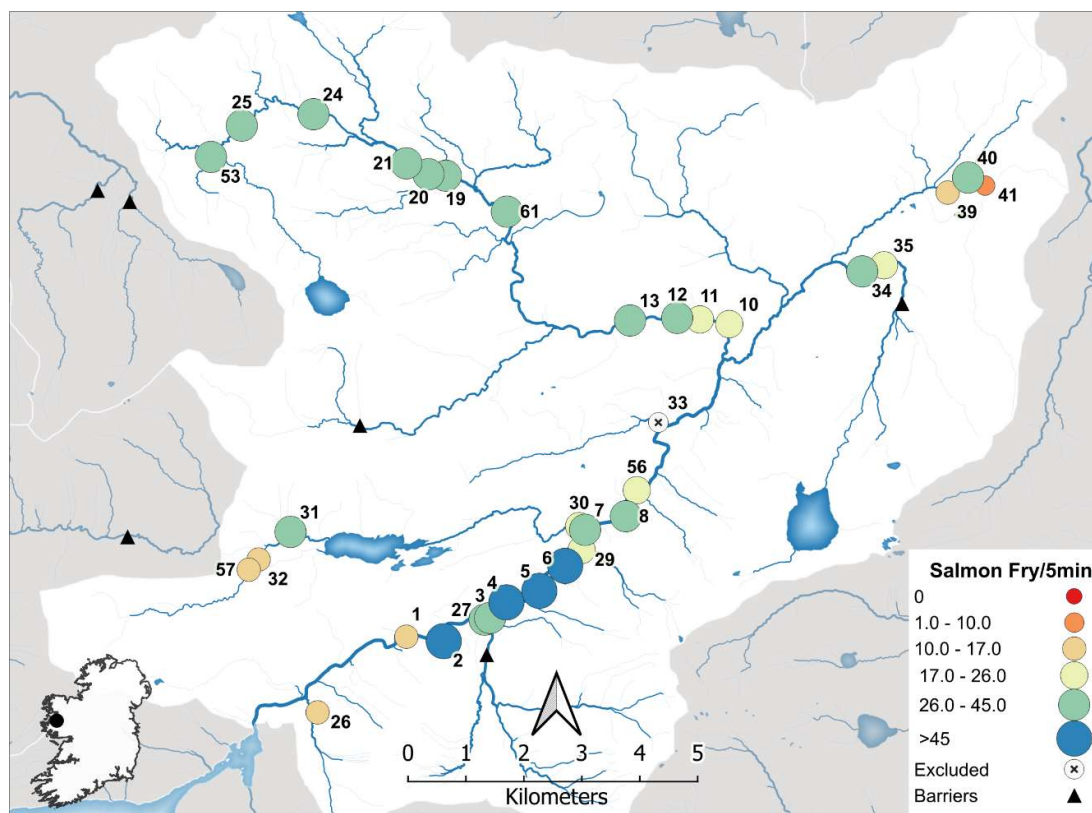


Fig. 68 Showing salmon fry/5min values and locations of surveys on the Erriff River in 2024.

A.5.3 Newport (Lough Beltra) River

IFI Salmon Catchment #: 178
 2024 survey dates: 2-23/9/2024
 Mean Salmon Fry/5 min (2024): 17.52 fry/5min.
 CWEF Index: 14.13 fry/5min.

Sampling carried out by: Fish Species Present:
 Ger Mckenna Brown Trout
 Hannah Addons European Eel
 Mark Whelan Salmon
 Tommy McGinnely
 Tony Holmes

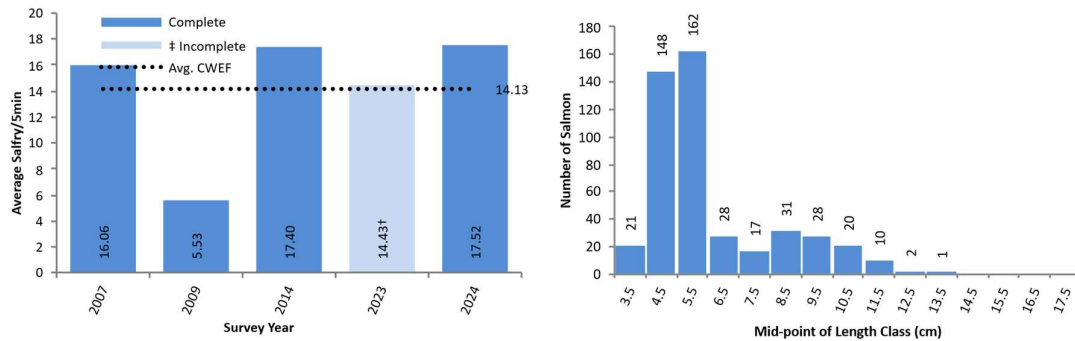


Fig. 69 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Newport river.

In this year's survey of the Newport (L. Beltra), 27 sites were examined from September 2nd to 23rd. Salmon fry (0+) were found at 24 sites, with the highest number recorded at site 12, where 39 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

24 sites were included in the analysis; the mean catch at these sites was 17.52 salmon fry/5min.

Table 37 Site specific results of CWF on the Newport River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	M 01964 95358	5	1	0	13	Include	0.00	15.00
2	M 03307 96406	5	2	0	56	Include	0.00	70.00
2	M 03307 96406	5	2	0	30	Include	0.00	42.00
3	M 04309 97285	5	1	0	41	Include	0.00	48.00
4	M 02690 97592	5	2	0	50	Include	0.00	60.00
5	M 02072 98017	5	2	0	45	Include	0.00	53.00
6	M 07331 96586	5	1	0	39	Include	0.00	45.00
7	G 08982 01385	5	1	0	25	Include	0.00	35.00
8	G 06840 06712	4	1	1	21	Include	1.09	22.91
9	G 06124 07127	4	1	1	21	Include	1.09	22.91
10	G 05896 07549	4	1	1	33	Include	1.06	34.94
11	G 05541 07609	4	1	8	41	Include	8.49	43.51

Table 37 Site specific results of CWF on the Newport River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
12	G 06504 01755	4	1	0	29	Include	0.00	35.00
13	G 01591 01492	4	1	0	30	Include	0.00	33.00
14	M 04751 97865	4	1	2	36	Include	2.16	38.84
15	M 05021 96099	3	1	4	28	Include	4.75	33.25
16	M 07573 95868	3	1	1	38	Include	1.05	39.95
17	G 07430 06532	3		2	10	Include	2.17	10.83
18	G 08913 03876	4	2	0	27	Include	0.00	31.00
19	G 08428 00877	3	1	1	12	Include	1.46	17.54
21	G 05964 01817	3	2	0	14	Include	0.00	19.00
22	G 04674 02168	3	1	6	24	Include	6.60	26.40
24	M 05387 99869	2	1	3	15	Include	3.17	15.83
25	G 01875 00258	3	2	1	9	Eff <60%		
26	M 02773 99082	4	1	0	23	Include	0.00	27.00
27	G 08747 00023	4	1	0	18	Include	0.00	25.00
28	M 08428 99948	3	2	2	11	Include	2.46	13.54

Conclusion

The Newport (L. Beltra) had a salmon fry abundance of 17.52 salmon fry/5min in 2024. Taking the 4 most recent complete surveys into account this results in a cumulative average of 14.13 salmon fry/5min which is below the 17 salmon fry threshold.

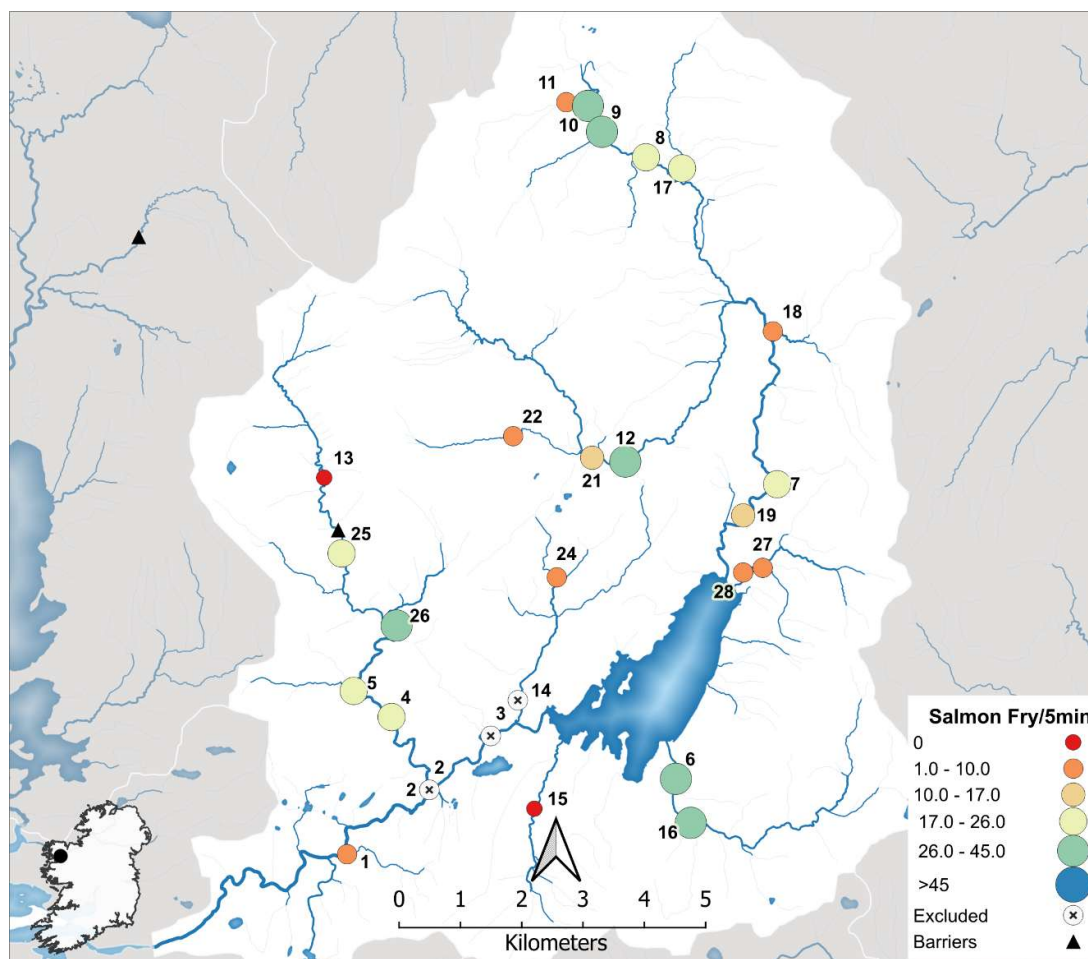


Fig. 70 Showing salmon fry/5min values and locations of surveys on the Newport River in 2024.

A.5.4 Owenduff River

IFI Salmon Catchment #: 185
 2024 survey dates: 4-5/9/2024
 Mean Salmon Fry/5 min (2024): 14.22 fry/5min
 CWEF Index: 10.21 fry/5min.

Sampling carried out by: Fish Species Present:
 Ger Mckenna Brown Trout
 Diarmuid Hughes European Eel
 Mark Whelan Salmon

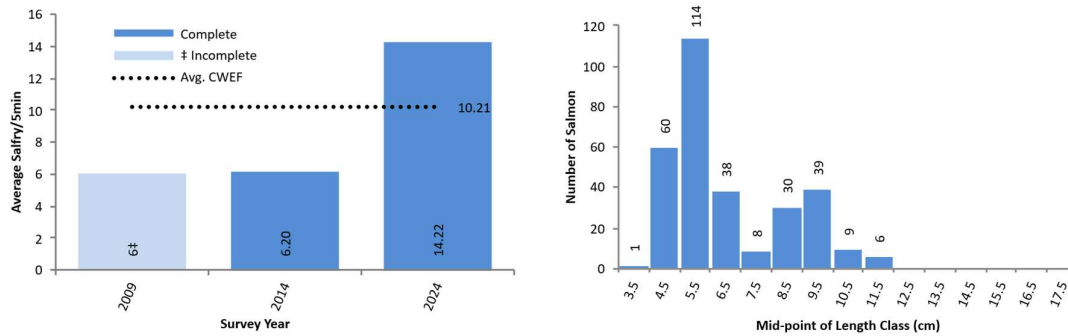


Fig. 71 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Owenduff river.

In this year's survey of the Owenduff (Bangor), 21 sites were examined from September 4th to 5th. Salmon fry (0+) were found at all 21 sites, with the highest number recorded at site 4, where 26 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

All 21 sites were included in the analysis; the mean catch at these sites was 14.22 salmon fry/5min.

Table 38 Site specific results of CWEF on the Owenduff River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	F 83203 14286	5	2	1	5	Include	1.33	6.67
2	F 85737 08476	5	1	0	4	Include	0.00	6.00
3	F 86649 07287	4	2	3	14	Include	4.06	18.94
4	F 87293 07388	4	2	0	26	Include	0.00	35.00
5	F 83290 14347	4	1	1	24	Include	1.16	27.84
6	F 85368 15100	4	2	0	18	Include	0.00	21.00
7	F 86481 15813	4	2	0	14	Include	0.00	16.00
8	F 86776 16096	4	2	0	20	Include	0.00	25.00
9	F 87343 16092	4	1	2	10	Include	2.50	12.50
10	F 84595 12247	2	3	4	4	Include	5.50	5.50
11	F 86477 15714	3	2	3	9	Include	3.50	10.50
12	F 86766 15264	3	2	4	11	Include	4.80	13.20
13	F 87280 14595	3	2	2	7	Include	2.67	9.33

Table 38 Site specific results of CWF on the Owenduff River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
14	F 87275 14673	2	3	11	1	Include	11.92	1.08
15	F 84501 11168	3	1	4	5	Include	4.89	6.11
16	F 88423 16649	2	1	4	18	Include	4.55	20.45
17	F 89329 15890	3	2	9	2	Include	10.64	2.36
18	F 87994 16699	3	1	5	15	Include	6.25	18.75
19	F 80635 14747	5	1	0	15	Include	0.00	17.00
20	F 88437 07744	4	1	2	12	Include	2.71	16.29
21	F 87030 06913	4	2	2	9	Include	2.00	9.00

Conclusion

The Owenduff (Bangor) had a salmon fry abundance of 14.22 salmon fry/5min in 2024. Taking the 2 most recent complete surveys into account this results in a cumulative average of 10.21 salmon fry/5min which is below the 17 salmon fry threshold.

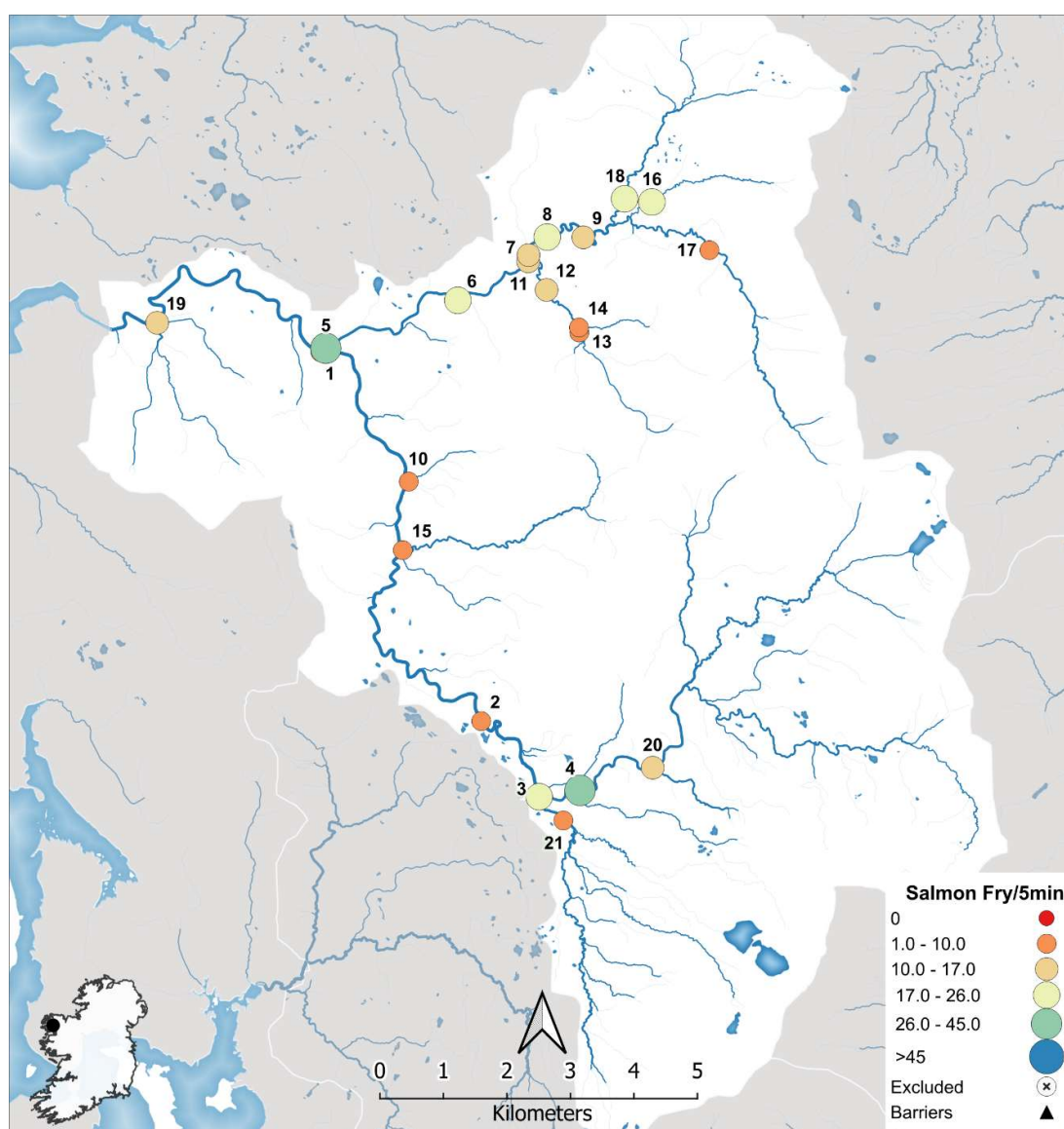


Fig. 72 Showing salmon fry/5min values and locations of surveys on the Owenduff River in 2024.

A.5.5 Cloonaghmore (Palmerstown) River

IFI Salmon Catchment #:	194
2024 survey dates:	3/8 - 7/9/2024
Mean Salmon Fry/5 min (2024):	6.64 fry/5min
CWEF Index:	12.23 fry/5min.

Sampling carried out by:	Fish Species Present:
Brian Flannery	Brown Trout
Colin Jenks	European Eel
Eddie Doherty	Minnow
Eugene O'Flaherty	Salmon
Michael Wilson	3-spined Stickleback

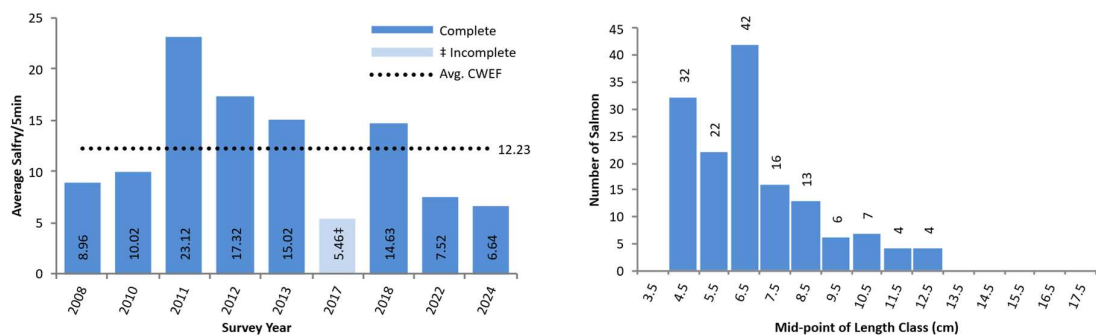


Fig. 73 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Cloonaghmore river.

In this year's survey of the Cloonaghmore (Palmerstown), 22 sites were examined from August 3rd to September 7th. Salmon fry (0+) were found at 17 sites, with the highest number recorded at site 32, where 35 salmon fry were observed. The modal length of 0+ salmon was 6.5 cm.

All 22 sites were included in the analysis; the mean catch at these sites was 6.64 salmon fry/5min.

Conclusion

The Cloonaghmore (Palmerstown) had a salmon fry abundance of 6.64 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 12.23 salmon fry/5min which is below the 17 salmon fry threshold.

Table 39 Site specific results of CWF on the Cloonaghmore River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
2	G 15680 27490	5	1	2	3	Include	3.20	4.80
6	G 14351 27638	3	2	1	6	Include	1.29	7.71
7	G 13868 28036	3	1	4	2	Include	4.67	2.33
9	G 11910 28454	3	2	10	0	Include	12.00	0.00
10	G 10732 28438	2	2	5	1	Include	5.00	1.00
15	G 13098 26063	3	1	3	6	Include	3.67	7.33
16	G 11699 26154	3	2	6	5	Include	7.09	5.91
18	G 10509 26788	3	1	7	2	Include	8.56	2.44
19	G 09245 27017	3	2	7	4	Include	7.00	4.00
21	G 08234 26743	3	2	5	0	Include	6.00	0.00
24	G 14353 26050	4	1	0	8	Include	0.00	12.00
26	G 14045 25612	4	1	1	8	Include	1.33	10.67
27	G 13497 25020	4	1	0	9	Include	0.00	12.00
28	G 13016 25239	3	1	4	6	Include	4.80	7.20
29	G 11659 23888	4	1	16	0	Include	21.00	0.00
32	G 09669 23122	4	1	0	35	Include	0.00	42.00
34	G 07140 24360	3	1	23	0	Include	26.00	0.00
37	G 05556 27487	3	1	0	5	Include	0.00	7.00
38	G 05148 27971	3	2	9	9	Include	9.50	9.50
40	G 11192 24936	3	2	0	2	Include	0.00	3.00
43	G 05310 24362	2	1	9	6	Include	10.80	7.20
49	G 10226 26840	3	2	13	0	Include	15.00	0.00

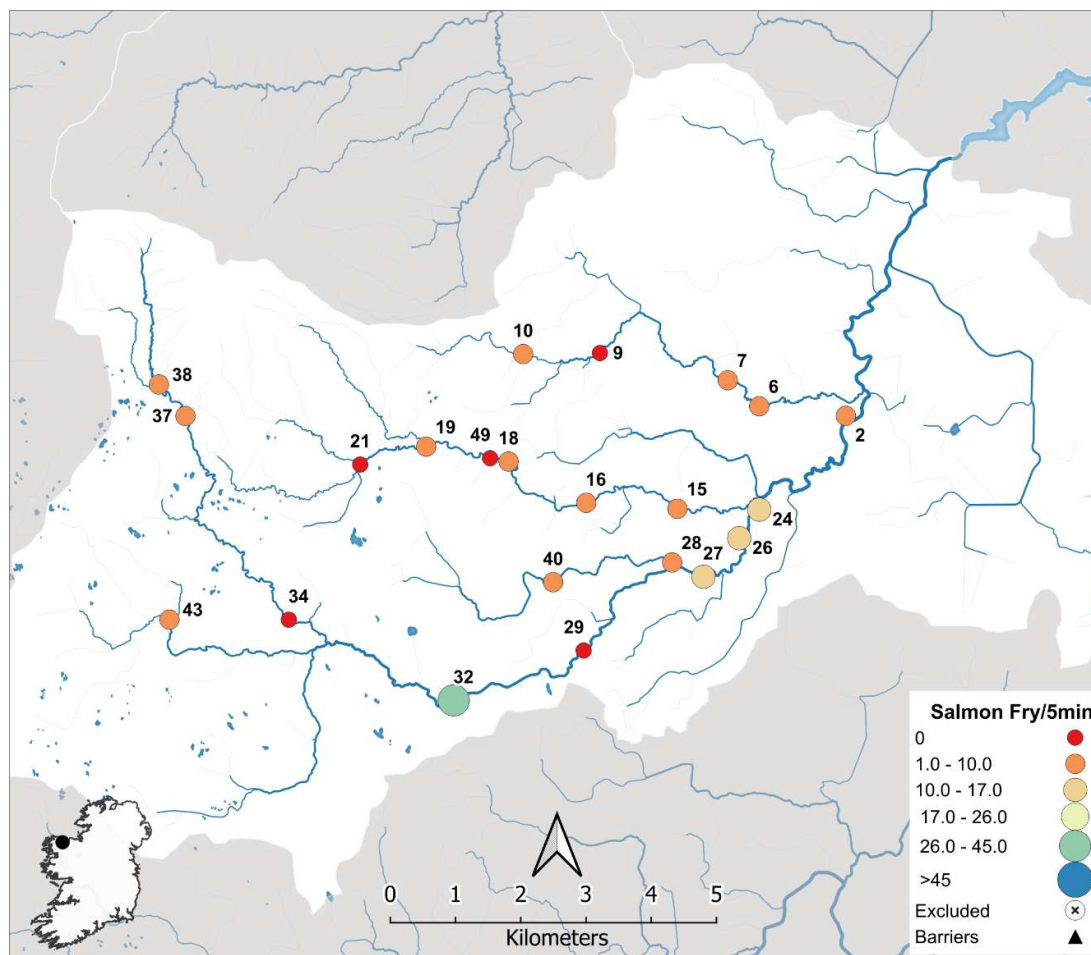


Fig. 74 Showing salmon fry/5min values and locations of surveys on the Cloonaghmore River in 2024.

A.5.6 Easky River

IFI Salmon Catchment #:	200	
2024 survey dates:	4-19/9/2024	
Mean Salmon Fry/5 min (2024):	5.58 fry/5min	
CWEF Index:	5.58 fry/5min.	
Sampling carried out by:		Fish Species Present:
Brian Flannery	John-luc Flanagan	Brown Trout
Eddie Doherty	Michael Wilson	European Eel
John Hastey		Salmon

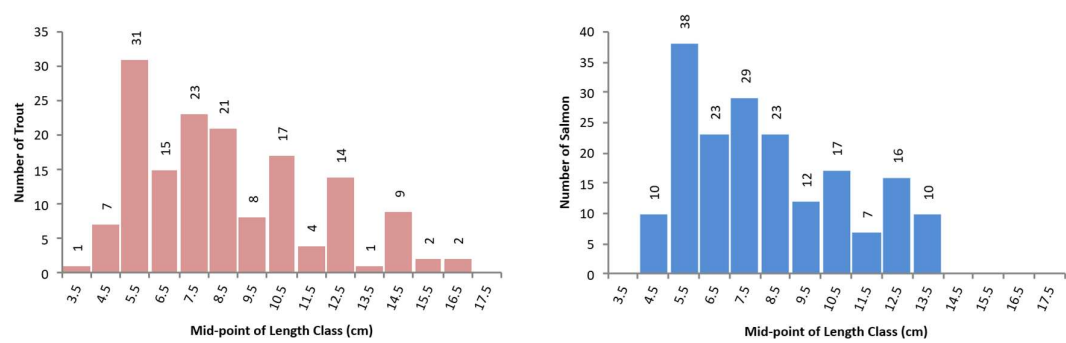


Fig. 75 Showing length distribution of Trout (left) and salmon captured in 2024 (right)) on the Easky river.

In this year's survey of the Easky, 22 sites were examined from September 4th to 19th. Salmon fry (0+) were found at 21 sites, with the highest number recorded at site 16, where 12 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

20 sites were included in the analysis; the mean catch at these sites was 5.48 salmon fry/5min.

Conclusion

The Easky had a salmon fry abundance of 5.48 salmon fry/5min in 2024. As this is the first complete survey on this catchment the CWEF index is also 5.48 salmon fry/5min which is below the 17 salmon fry threshold.

Table 40 Site specific results of CWF on the Easky River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	G 40314 25282	4	1	2	5	Include	2.29	5.71
2	G 39493 25872	5	1	0	3	Include	0.00	4.00
3	G 39201 27468	5	1	1	5	Include	1.33	6.67
4	G 41409 30378	3	2	6	3	Include	7.33	3.67
5	G 40265 32476	1	2	1	1	Stream Order<2		
6	G 40539 31027	3	2	3	6	Include	3.67	7.33
7	G 44895 22345	3	2	3	1	Eff <60%		
8	G 44597 24179	4	1	4	4	Include	5.00	5.00
9	G 44483 25090	4	1	7	4	Include	7.64	4.36
10	G 39670 28025	3	2	10	2	Include	11.67	2.33
11	G 41130 24906	4	2	9	8	Include	10.06	8.94
12	G 42643 29054	3	2	5	6	Include	5.91	7.09
13	G 42172 29708	3	2	3	3	Include	3.50	3.50
14	G 43959 27278	3	1	0	0	Include	0.00	0.00
15	G 39960 33262	5	3	5	11	Include	5.00	11.00
16	G 38574 36052	5	3	6	12	Include	6.67	13.33
17	G 37670 37569	5	2	3	9	Include	3.25	9.75
18	G 38886 35405	5	3	2	4	Include	2.00	4.00
19	G 39360 29821	5	3	1	1	Include	1.00	1.00
20	G 38596 26317	3	2	0	4	Include	0.00	4.00
21	G 41454 29734	2	2	1	5	Include	1.00	5.00
22	G 38697 25780	3	2	5	3	Include	5.00	3.00

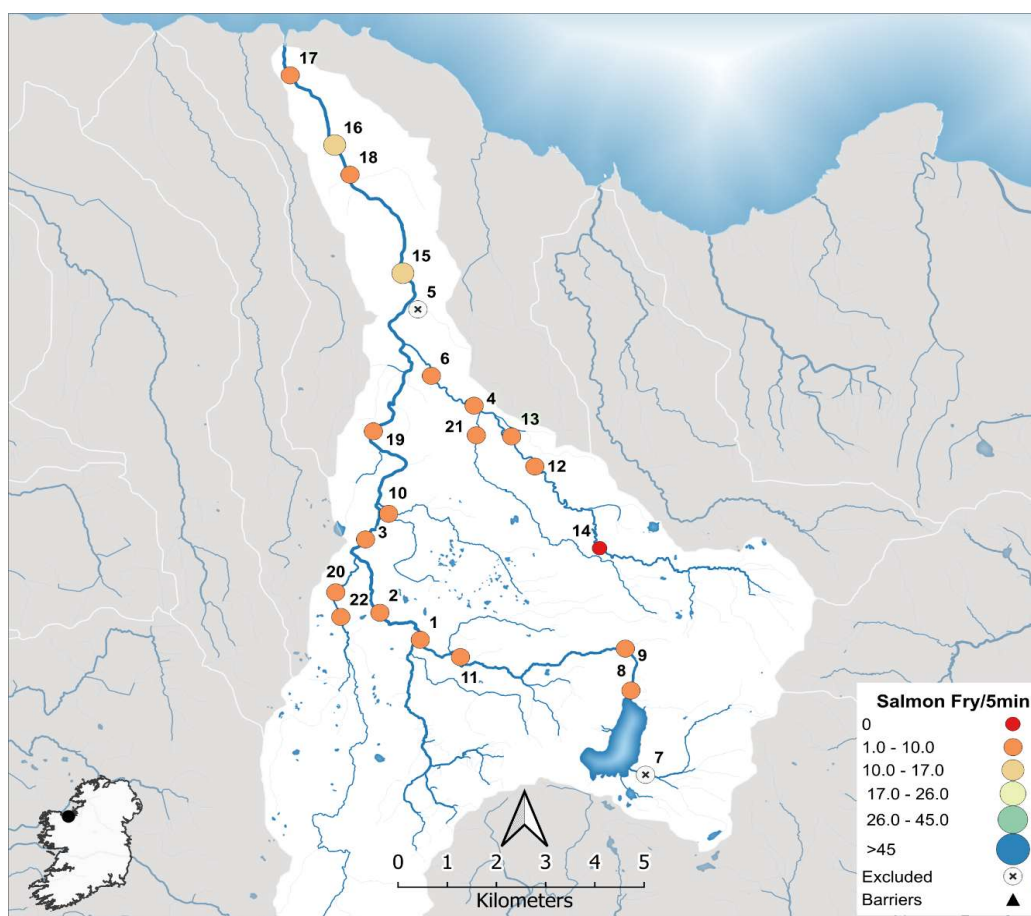


Fig. 76 Showing salmon fry/5min values and locations of surveys on the Easky River in 2024.

A.5.7 Ballysadare River

IFI Salmon Catchment #: 196
 2024 survey dates: 13-24/9/2024
 Mean Salmon Fry/5 min (2024): Not Calculated
 CWF Index: Not Calculated

Sampling carried out by:

Mark Whelan
 Mick Millane
 Tony Holmes

Fish Species Present:

Brown Trout Raoch
 Gudgeon Salmon
 Minnow

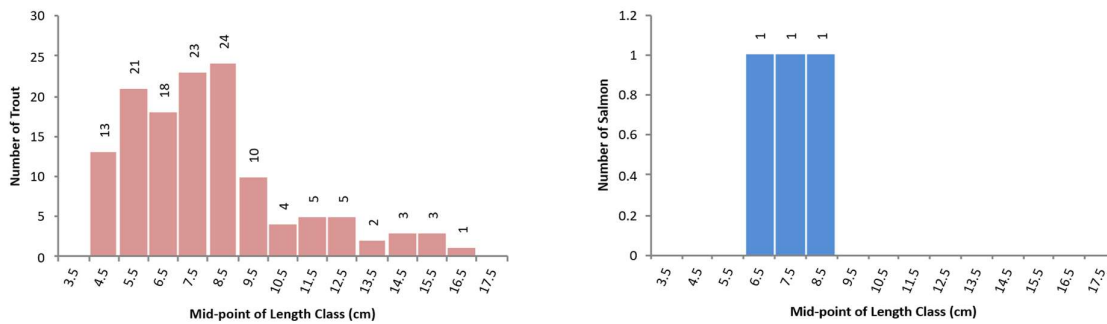


Fig. 77 Showing length distribution of trout (left) and salmon captured in 2024 (right) on the Ballysadare River.

In this year's survey of the Ballysadare river, 25 sites were examined from September 13th to 24th. The purpose of the survey was to attempt to identify the upper ranges of Salmon within the system, particularly to discover whether they penetrated beyond Templehouse lake on the western side of the catchment. A total of 3 Salmon fry (0+) were found at 2 sites and ranged in length from 6 to 8cm.

Conclusion

Results of these surveys suggest that in winter 2023/24 salmon spawned above Templehouse lake.

Table 41 Site specific results of CWF on the Ballysadare River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
3	G 77937 08816	2	2	1	0	Eff <60%		
4	G 76231 14041	2	2	2	0	Include	2.00	0.00
6	G 77387 15847	2	1	27	0	Include	32.00	0.00
7	G 79934 09025	2	1	23	0	Include	26.00	0.00
8	G 76736 15783	3	3	0	0	Include	0.00	0.00
10	G 58993 17758	2	2	2	0	Include	2.00	0.00
11	G 57030 14488	2	2	1	0	Include	1.00	0.00
12	G 56099 15626	2	3	0	0	Include	0.00	0.00
13	G 64846 13193	4	3	0	0	Include	0.00	0.00

Table 41 Site specific results of CWF on the Ballysadare River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
14	G 60270 07545	3	1	2	0	Include	2.00	0.00
15	G 67166 09356	3		0	0	Include	0.00	0.00
16	G 69183 08353	3	2	11	0	Include	14.00	0.00
17	G 66397 15298	3	2	0	0	Include	0.00	0.00
18	G 68228 10026	3	2	1	2	Include	1.33	2.67
19	G 67054 05694	4	1	1	0	Eff <60%		
20	G 64785 06110	2	2	0	0	Include	0.00	0.00
21	G 68145 04275	3	1	5	0	Include	5.00	0.00
22	G 65418 04424	3	2	2	0	Include	2.00	0.00
23	G 69242 05795	3	2	2	0	Include	2.00	0.00
24	G 73048 06121	3	3	1	0	Include	1.00	0.00
25	G 68289 02859	2	1	4	0	Include	4.00	0.00
26	G 82301 11106	2	2	0	0	Include	0.00	0.00
27	G 69636 10325	3	2	6	1	Include	7.71	1.29
28	G 65369 13606	4	3	0	0	Include	0.00	0.00
33	G 68583 08823	3	2	12	0	Include	12.00	0.00

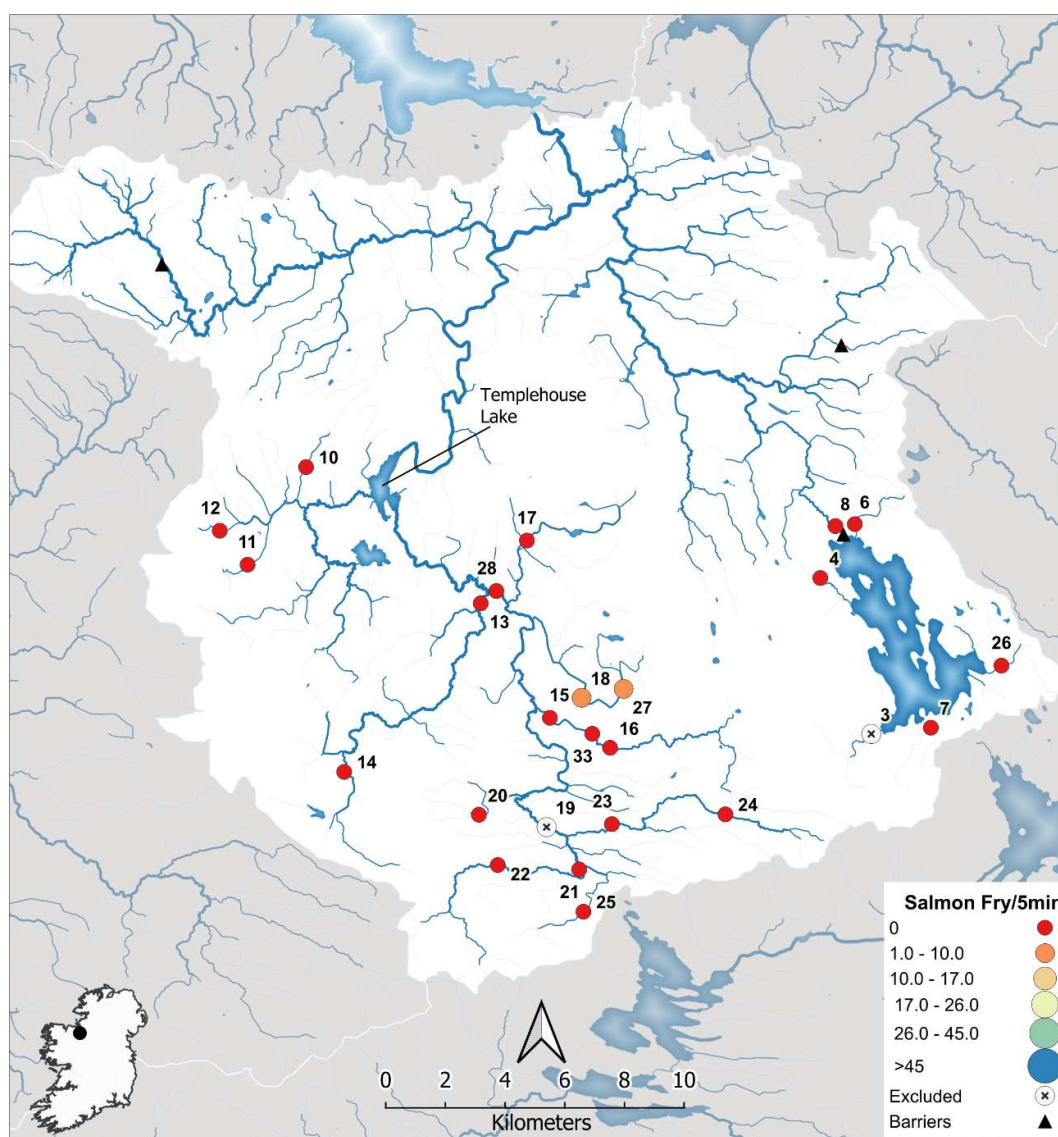


Fig. 78 Showing salmon fry/5min values and locations of surveys on the Ballysadare River in 2024.

A.5.8 Duff River

IFI Salmon Catchment #: 208
 2024 survey dates: 18-20/9/2024
 Mean Salmon Fry/5 min (2024): 9.29 fry/5min
 CWEF Index: 16.28 fry/5min.

Sampling carried out by: Ger McKenna
 Diarmuid Hughes
 Mark Whelan

Fish Species Present: Brown Trout
 White Clawed Crayfish
 Salmon

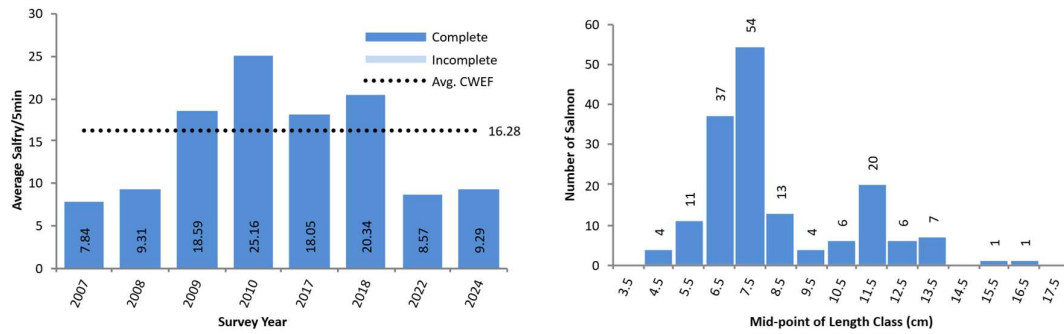


Fig. 79 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Duff River.

In this year's survey of the Duff, 20 sites were examined from September 18th to 20th. Salmon fry (0+) were found at 17 sites, with the highest number recorded at site 7, where 23 salmon fry were observed. The modal length of 0+ salmon was 7.5 cm.

15 sites were included in the analysis; the mean catch at these sites was 9.29 salmon fry/5min.

Table 42 Site specific results of CWF on the Duff River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	G 75530 56756	5	1	0	1	Include	0.00	1.50
2	G 75912 56188	5	2	0	8	Include	0.00	10.40
3	G 75020 54697	5	1	0	3	Include	0.00	3.00
4	G 74314 53929	5		0	14	Include	0.00	18.26
5	G 76016 52731	5		0		Not Sampled		
6	G 79014 52458	5	1	3	17	Include	3.52	19.96
7	G 79292 51128	5	1	0	23	Include	0.00	27.93
8	G 79521 49794	4	1	3	5	Eff <60%		
9	G 74831 52608	4	2	0	3	Eff <60%		
10	G 73469 52031	4	3	0	8	Include	0.00	12.80
11	G 73251 51229	4	2	0	4	Include	0.00	6.00
12	G 79668 51461	3		0		Not Sampled		
13	G 73725 50282	4		0	0	Include	0.00	0.00
14	G 75642 55588	5		0	12	Include	0.00	17.54

Table 42 Site specific results of CWF on the Duff River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
15	G 79518 50051	5	1	5	5	Include	5.91	5.91
16	G 79282 50071	4	2	3	2	Include	3.33	2.22
17	G 73246 51894	4	1	0	8	Include	0.00	11.33
18	G 75199 53210	5	2	0	4	Eff <60%		
19	G 79589 49134	4	2	10	1	Include	13.08	1.31
20	G 79057 49932	4	1	9	1	Include	10.38	1.15

Conclusion

The Duff had a salmon fry abundance of 9.29 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 16.28 salmon fry/5min which is below the 17 salmon fry threshold.

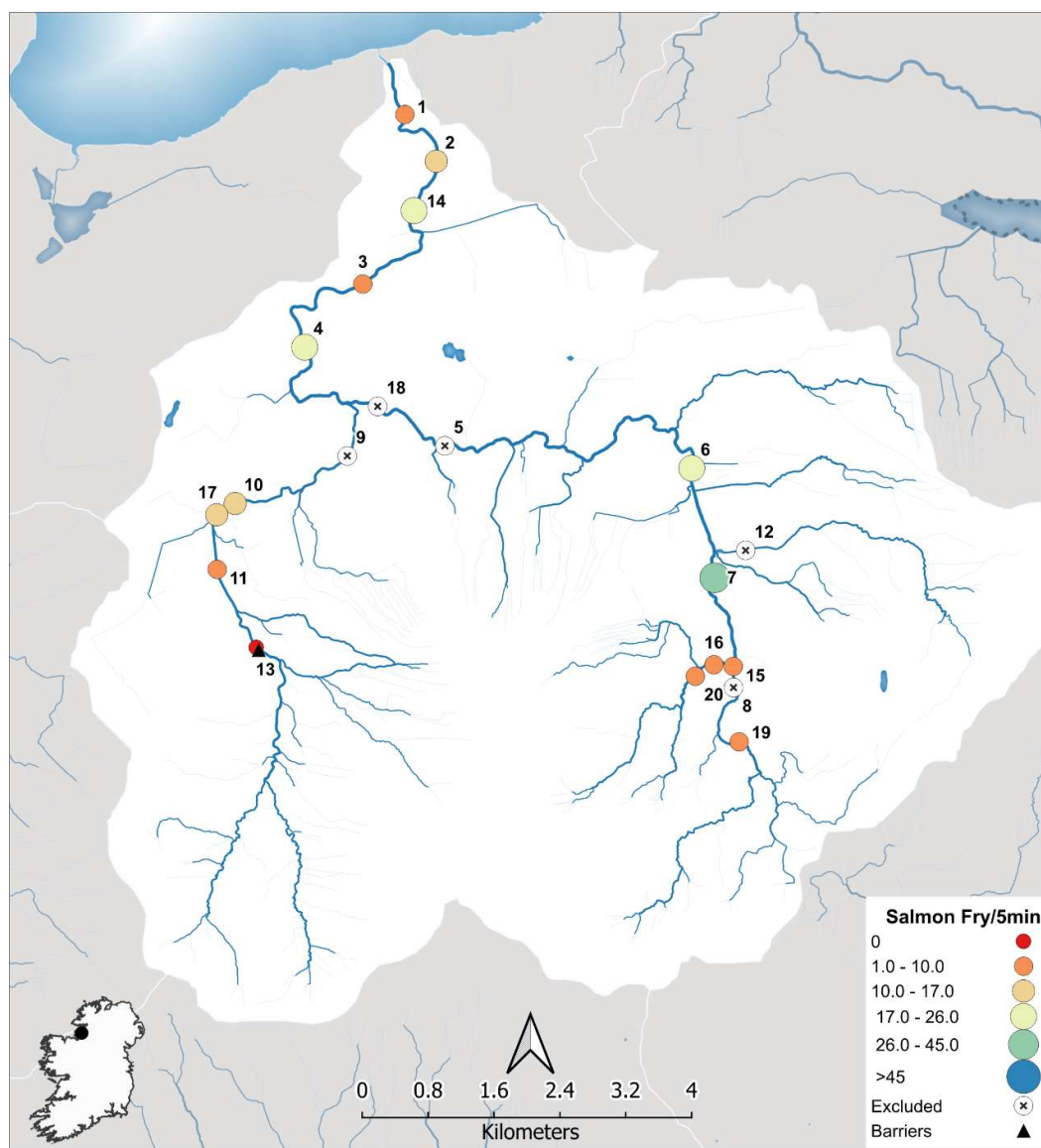


Fig. 80 Showing salmon fry/5min values and locations of surveys on the Duff River in 2024.

A.6 North Western River Basin District

Summary

Since 2007, thirty-three rivers have been surveyed in the North Western River Basin District (NWRBD) as part of the ongoing catchment-wide electrofishing surveys. The results of these surveys are presented in Table 43 and Fig. 81. Currently, ten of these rivers are meeting the threshold index of 17 salmon fry per 5 minutes: the Abbey, Eany, Oily, Owentocker, Owenea, Gweebarra, Clady, Lackagh, and Crana. In 2024, surveys were completed on the Duff, Erne, Ballintra, Laghy, Bungosteen, Gweebarra, Leannan, Swill and Glennagannon rivers.

Table 43 Catchment-wide electrofishing data for the NWRBD 2016-2024 showing the average salmon fry captured /5min for each year surveyed. Also shown is the current index, surveys prior to 2016 are included in Appendix C.

Code/River	Survey Year									Current Index	# Annual Surveys Considered
	2016	2017	2018	2019	2020	2021	2022	2023	2024		
208/Duff		18.05	20.34				8.57		9.29	16.28	5
210/Erne	1.25†	0†	0.69†	0†	0†	1.57†	0†		0†		
211/Abbey										<u>28.14</u>	1
212/Ballintra				13.31			2.29		14.79	12.72	5
213/Laghy				8.56			5.71		8.75	9.80	5
214/Eske			10.94					11.92		14.04	5
215/Eany										<u>19.61</u>	3
216/Oily		21.26			18.64			15.14		<u>21.07</u>	5
217/Bungosteen		13.17		13.41			3.46		3.56	10.57	5
219/Glen (Ballyshannon)			18.56		11.71			15.67		16.75	5
220/Owenwee (Yellow R)				14.20			6.24			15.75	5
221/Bracky					5.31			6.27		11.24	5
222/Owentocker							27.13			<u>23.60</u>	2
223/Owenea			33.94				43.19			<u>38.57</u>	2
225/Gweebarra							18.93		16.58	<u>17.76</u>	2
226/Owenamarve						10.67		13.30		6.67	5
228/Gweedore (Crolly R.)										13.66	2
229/Clady								20.23		<u>24.52</u>	3
234/Glenna	4.00					11.43		1.02		5.60	5
235/Tullaghobegly	0‡						6.24			7.87	3
236/Ray	3.71‡				6.65		10.39			11.62	5
240/Lackagh	17.5‡	24.75								<u>21.07</u>	5
248/Leannan	15.05‡	19.47	20.11	21.33	20.50	18.23	13.83	8.11	14.61	15.06	5
249/Swilly					14.36				9.87	11.74	5
250/Isle (Burn)						0.00				1.06	2
251/Burnfoot						0.00				3.56	3
252/Mill (Letterkenny)						0.00	0.00			0.00	4
253/Crana	6‡	6.93‡	16.38				33.01			<u>21.71</u>	3
256/Clonmany						9.55				9.81	4
257/Straid						0.00	0.00			0.05	4
258/Donagh						6.79	0.82			3.14	4
259/Glennagannon							1.26		0.00	5.82	5
261/Culoort						11.41				7.72	2

Bold annual figures indicate years included in the calculation of current the CWF index.

Underlined index figures indicate those exceeding the 17 salmon fry threshold.

‡ Incomplete surveys not included in the calculation of current index.

† Sub-catchment surveys.



Fig. 81 Summary of results of annual CWF surveys (average salmon fry per 5min) in the NWRBD 2007-2024.

A.6.1 Erne River

IFI Salmon Catchment #: 210
 2024 survey dates: 18 - 20/9/2024
 Mean Salmon Fry/5 min (2024): Not Calculated
 CWF Index: Not Calculated

Sampling carried out by:

A Crosbie M Fitzpatrick
 D Moorcroft T Corr
 J Gallagher

Fish Species Present:

Brown Trout Minnow
 European Eel Roach
 Gudgeon Stone Loach
 Lamprey sp. 3-Spined Stickleback

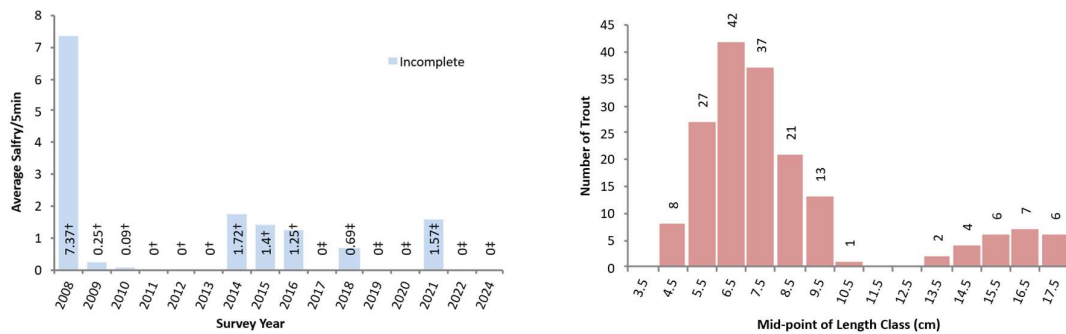


Fig. 82 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of trout captured in 2024 (right) on the Erne River.

In this year's survey of the Erne, 30 sites were examined from July 2nd to 10th. Salmon fry (0+) were absent from all sites, Brown trout were present at 22 sites.

Conclusion

Salmon were again absent from all sites surveyed in 2024.

Table 44 Site specific results of CWF on the Erne River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
108	H 50418 13164	3	2	7	0	Include	9.00	0.00
109	H 50728 13435	3	3	7	0	Include	7.00	0.00
110	H 50863 13411	3	2	5	0	Include	5.00	0.00
111	H 51302 13972	3	3	15	0	Include	15.00	0.00
115	H 52327 16110	3	3	8	0	Include	13.00	0.00
117	H 54060 11427	5	2	0	0	Include	0.00	0.00
503	H 55660 12946	4	2	2	0	Eff <60%		
504	H 55724 13131	4	2	0	0	Include	0.00	0.00
505	H 57582 13985	4	1	1	0	Include	1.00	0.00
506	H 57636 14272	4	2	1	0	Include	1.00	0.00
602	H 52328 09764	3	3	0	0	Include	0.00	0.00
605	H 51238 07040	3	2	0	0	Eff <60%		
607	H 51032 06817	3	2	1	0	Include	1.00	0.00
608	H 50552 05513	3	3	5	0	Include	5.00	0.00
609	H 50714 04588	3	3	16	0	Include	16.00	0.00

Table 44 Site specific results of CWF on the Erne River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
611	H 51383 05209	3	3	5	0	Include	5.00	0.00
612	H 52261 06681	3	2	3	0	Include	3.00	0.00
614	H 52928 05164	3	3	4	0	Include	4.00	0.00
615	H 52947 03681	3		0	0	Inaccessible		
616	H 54108 02040	3	2	10	0	Include	10.00	0.00
619	H 53328 02930	3	1	7	0	Include	7.00	0.00
620	H 55265 01245	3	3	3	0	Include	3.00	0.00
621	H 55946 01106	2	3	3	0	Include	3.00	0.00
623	H 56838 02238	2		0	0	Inaccessible		
629	H 52923 11221	3	2	1	0	Eff <60%		
630	H 51091 04285	3		0	0	Inaccessible		
638	H 50656 05739	3	3	2	0	Include	2.00	0.00
639	H 50052 03904	2	3	23	0	Include	24.00	0.00
641	H 49079 02187	2	3	1	0	Include	1.00	0.00
642	H 54742 01712	3		0	0	Inaccessible		

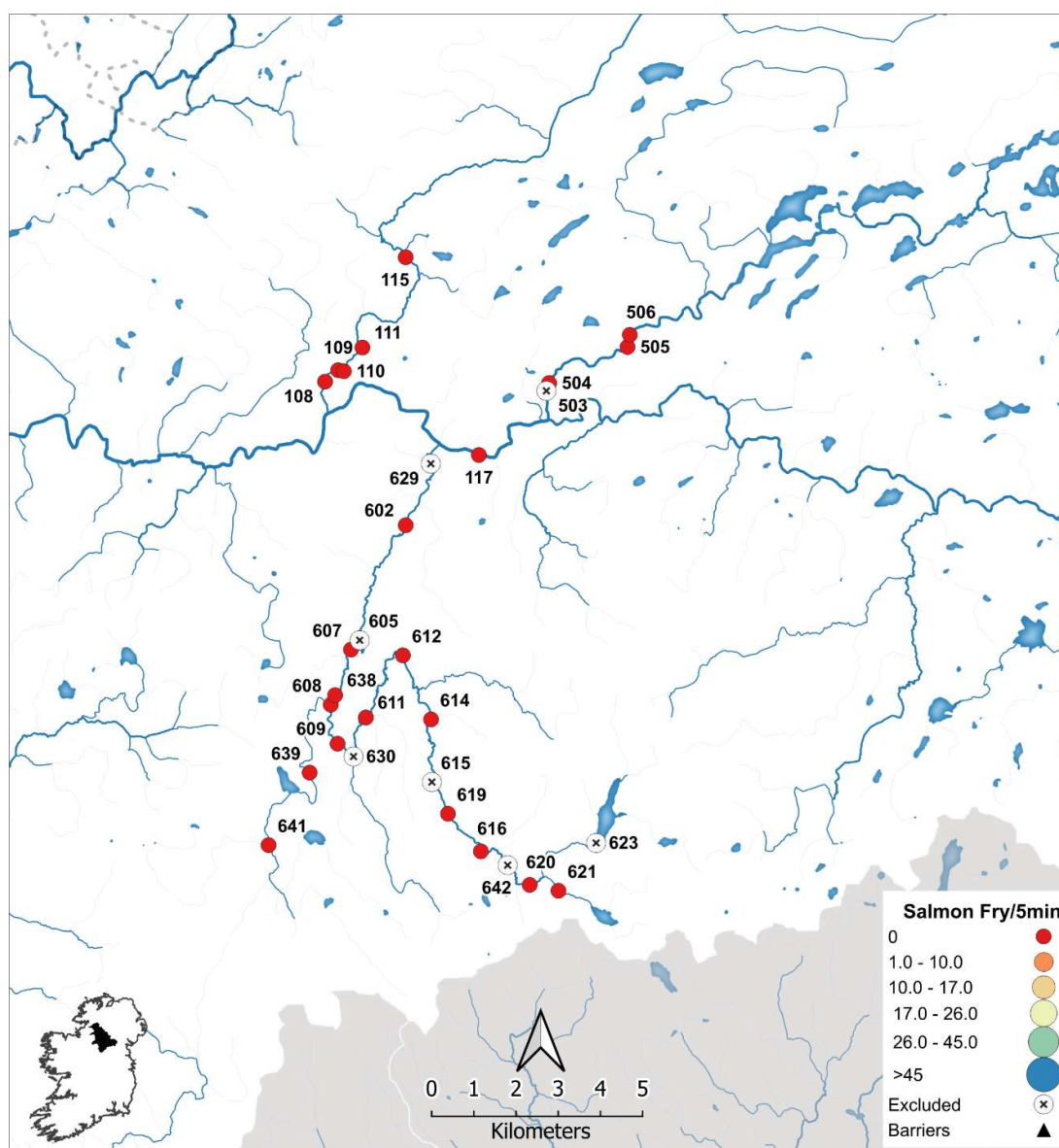


Fig. 83 Showing salmon fry/5min values and locations of surveys on the Erne River in 2024.

A.6.2 Ballintra River

IFI Salmon Catchment #: 212
 2024 survey dates: 24/9/2024
 Mean Salmon Fry/5 min (2024): 14.79 fry/5min
 CWEF Index: 12.72 fry/5min.

Sampling carried out by:
 Oliver Conlon
 Eoin McManus
 Colm McAnespie
 Michael Kane

Fish Species Present:
 Brown Trout
 European Eel
 Flounder
 White Clawed Crayfish
 Salmon

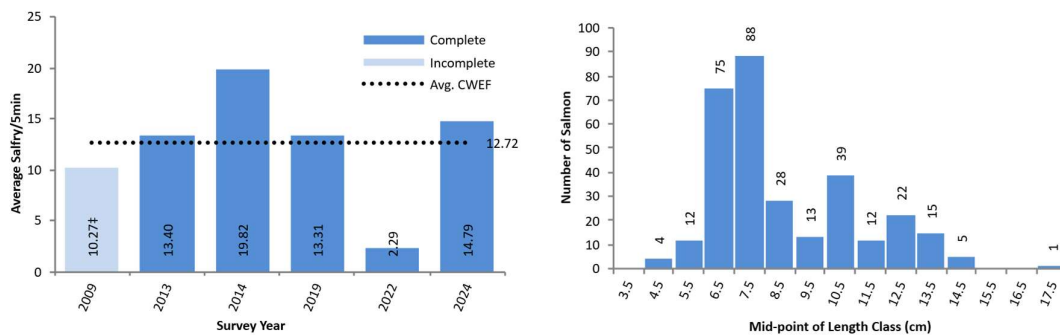


Fig. 84 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Ballintra River.

In this year's survey of the Ballintra, 16 sites were examined on September 24th. Salmon fry (0+) were found at 10 sites, with the highest number recorded at site 16, where 48 salmon fry were observed. The modal length of 0+ salmon was 7.5 cm.

All 16 sites were included in the analysis; the mean catch at these sites was 14.79 salmon fry/5min.

Table 45 Site specific results of CWF on the Ballintra River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	G 90280 70947	5	1	0	1	Include	0.00	1.50
2	G 91768 69771	5	2	0	8	Include	0.00	10.40
3	G 89943 70636	5	1	0	3	Include	0.00	3.00
5	G 90217 70630	5		0	14	Include	0.00	18.26
6	G 92014 69925	5		0		Not Sampled		
7	G 98903 70713	5	1	3	17	Include	3.52	19.96
8	G 97366 70611	5	1	0	23	Include	0.00	27.93
9	G 97151 70860	4	1	3	5	Eff <60%		
10	G 95075 70959	4	2	0	3	Eff <60%		
11	G 94244 70784	4	3	0	8	Include	0.00	12.80
12	G 94153 70999	4	2	0	4	Include	0.00	6.00
13	G 93654 71802	3		0		Not Sampled		
14	G 92820 71857	4		0	0	Include	0.00	0.00

Table 45 Site specific results of CWF on the Ballintra River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
15	G 91778 71847	5		0	12	Include	0.00	17.54
16	G 91084 71830	5	1	5	5	Include	5.91	5.91
17	G 99201 69863	4	2	3	2	Include	3.33	2.22

Conclusion

The Ballintra had a salmon fry abundance of 14.79 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 12.72 salmon fry/5min which is below the 17 salmon fry threshold.

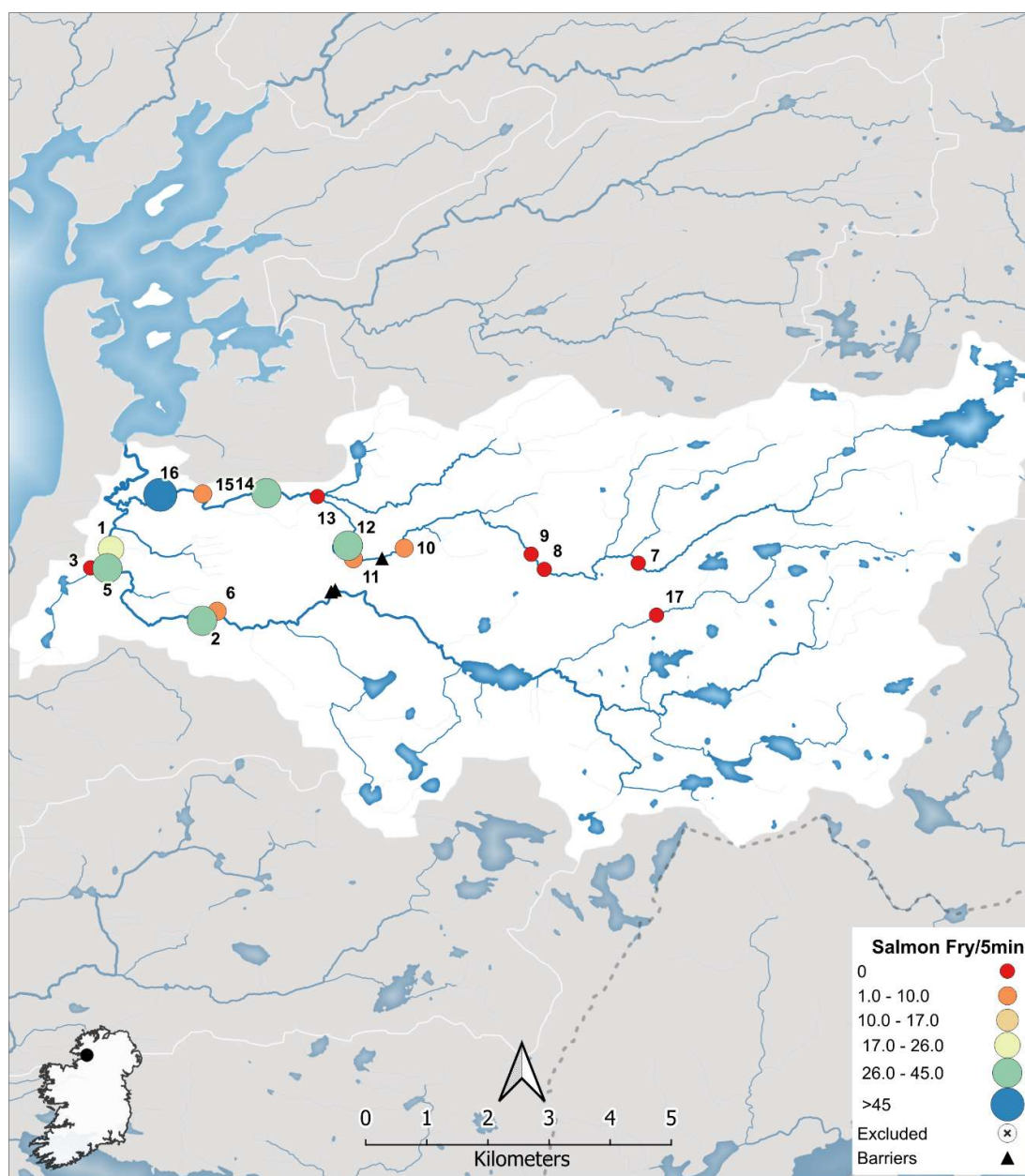


Fig. 85 Showing salmon fry/5min values and locations of surveys on the Ballintra River in 2024.

A.6.3 Laghy River

IFI Salmon Catchment #: 213
 2024 survey dates: 10-24/9/2024
 Mean Salmon Fry/5 min (2024): 8.75 fry/5min
 CWEF Index: 9.80 fry/5min.

Sampling carried out by:
 Tim O'Connor
 Linsey Clarke
 Oisin Cahil
 Colm McAnespie
 Shaun Keeney
 Tim O'Connor

Fish Species Present:
 Brown Trout
 European Eel
 Flounder
 Salmon

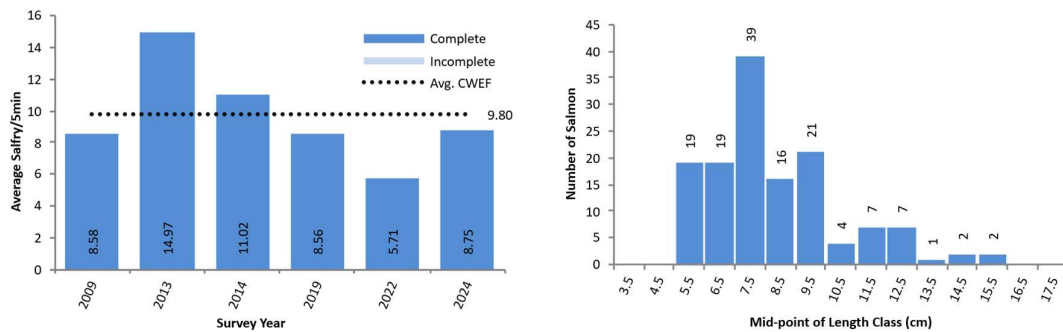


Fig. 86 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Laghy River.

In this year's survey of the Laghy, 14 sites were examined from September 10th to 24th. Salmon fry (0+) were found at 12 sites, with the highest number recorded at site 11, where 31 salmon fry were observed. The modal length of 0+ salmon was 7.5 cm.

12 sites were included in the analysis; the mean catch at these sites was 8.75 salmon fry/5min.

Conclusion

The Laghy had a salmon fry abundance of 8.75 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 9.8 salmon fry/5min which is below the 17 salmon fry threshold.

Table 46 Site specific results of CWF on the Laghy River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	G 75530 56756	5	1	0	1	Include	0.00	1.50
2	G 75912 56188	5	2	0	8	Include	0.00	10.40
3	G 75020 54697	5	1	0	3	Include	0.00	3.00
4	G 74314 53929	5		0	14	Include	0.00	18.26

Table 46 Site specific results of CWF on the Laghy River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
5	G 76016 52731	5		0		Not Sampled		
6	G 79014 52458	5	1	3	17	Include	3.52	19.96
7	G 79292 51128	5	1	0	23	Include	0.00	27.93
8	G 79521 49794	4	1	3	5	Eff <60%		
9	G 74831 52608	4	2	0	3	Eff <60%		
10	G 73469 52031	4	3	0	8	Include	0.00	12.80
11	G 73251 51229	4	2	0	4	Include	0.00	6.00
12	G 79668 51461	3		0		Not Sampled		
13	G 73725 50282	4		0	0	Include	0.00	0.00
14	G 75642 55588	5		0	12	Include	0.00	17.54
15	G 79518 50051	5	1	5	5	Include	5.91	5.91
16	G 79282 50071	4	2	3	2	Include	3.33	2.22
17	G 73246 51894	4	1	0	8	Include	0.00	11.33
18	G 75199 53210	5	2	0	4	Eff <60%		
19	G 79589 49134	4	2	10	1	Include	13.08	1.31
20	G 79057 49932	4	1	9	1	Include	10.38	1.15

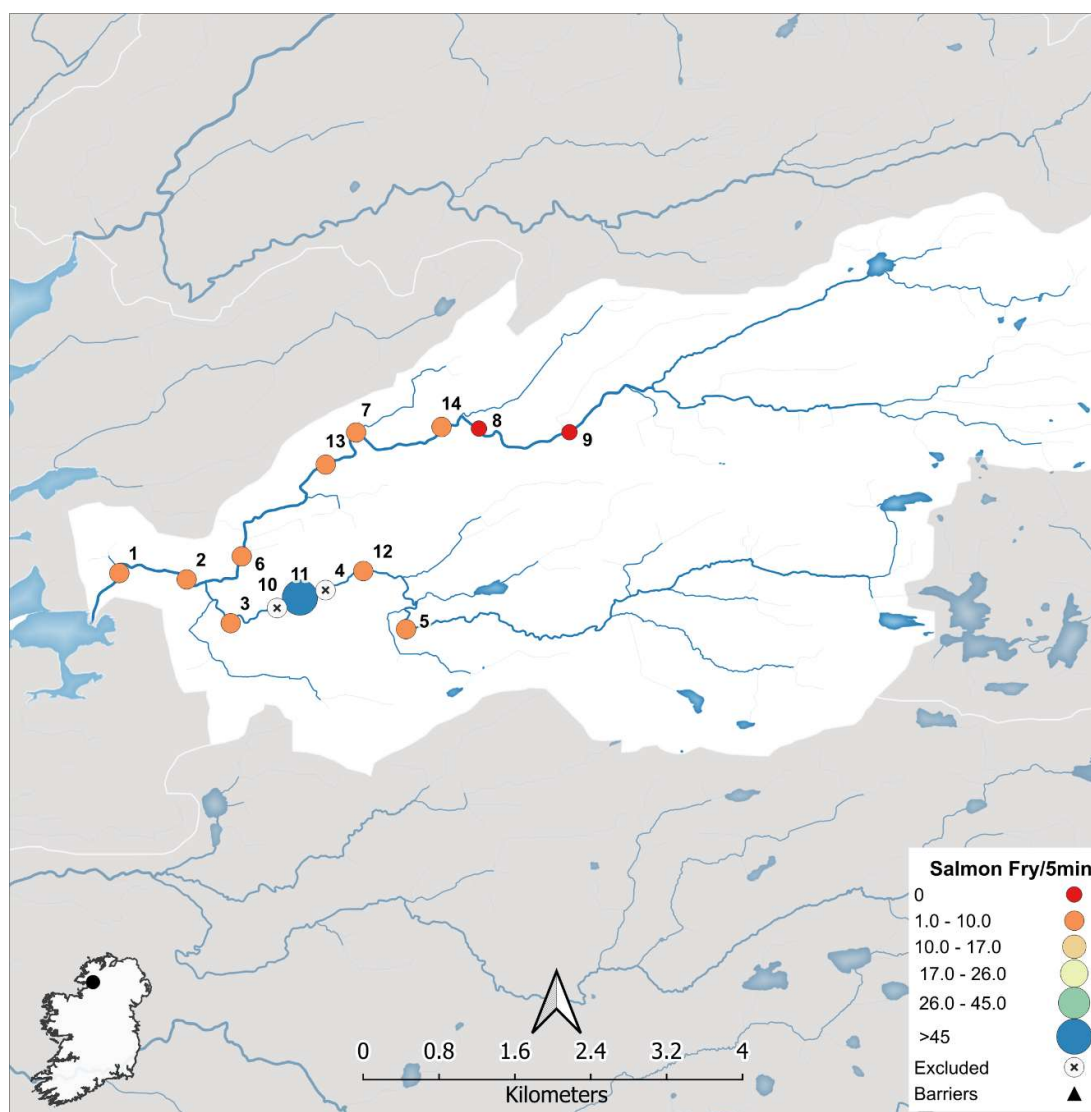


Fig. 87 Showing salmon fry/5min values and locations of surveys on the Laghy River in 2024.

A.6.4 Bungosteen River

IFI Salmon Catchment #: 217
 2024 survey dates: 9 - 20/9/2024
 Mean Salmon Fry/5 min (2024): 3.56 fry/5min
 CWEF Index: 10.57 fry/5min.

Sampling carried out by: Eoghan Cross
 Linsey Clarke
 Tom O'Connor

Fish Species Present:
 Brown Trout
 European Eel
 Salmon

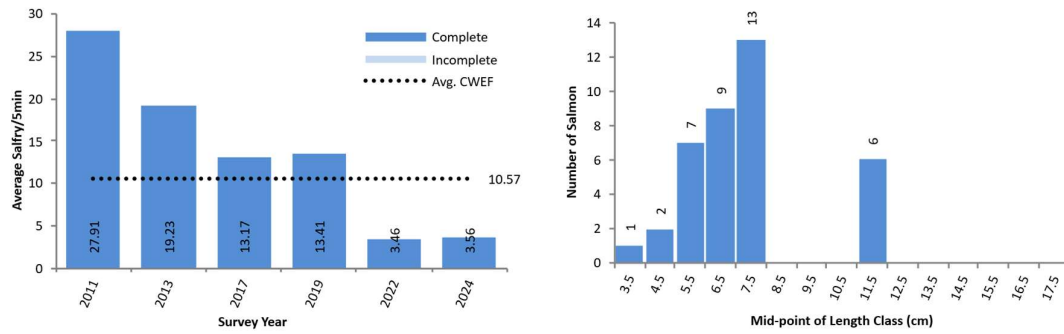


Fig. 88 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Bungosteen River.

In this year's survey of the Bungosteen, 9 sites were examined from September 9th to 20th. Salmon fry (0+) were found at 6 sites, with the highest number recorded at site 5, where 17 salmon fry were observed. The modal length of 0+ salmon was 7.5 cm.

All 9 sites were included in the analysis; the mean catch at these sites was 3.56 salmon fry/5min.

Table 47 Site specific results of CWEF on the Bungosteen River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
2	G 74205 83030	4	1	7	0	Include	7.00	0.00
3	G 73778 82937	3	1	4	0	Include	4.00	0.00
5	G 74052 82396	4	1	2	17	Include	2.00	17.00
6	G 73808 81766	4	2	1	5	Include	1.00	5.00
7	G 73504 80901	4	2	3	1	Include	3.00	1.00
8	G 72847 80771	3	2	1	0	Include	1.00	0.00
9	G 73126 80051	5	2	2	1	Include	2.00	1.00
10	G 72890 79366	5	3	0	2	Include	0.00	2.00
11		0	1	9	6	Include	9.00	6.00

Conclusion

The Bungosteen had a salmon fry abundance of 3.56 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 10.57 salmon fry/5min which is below the 17 salmon fry threshold.

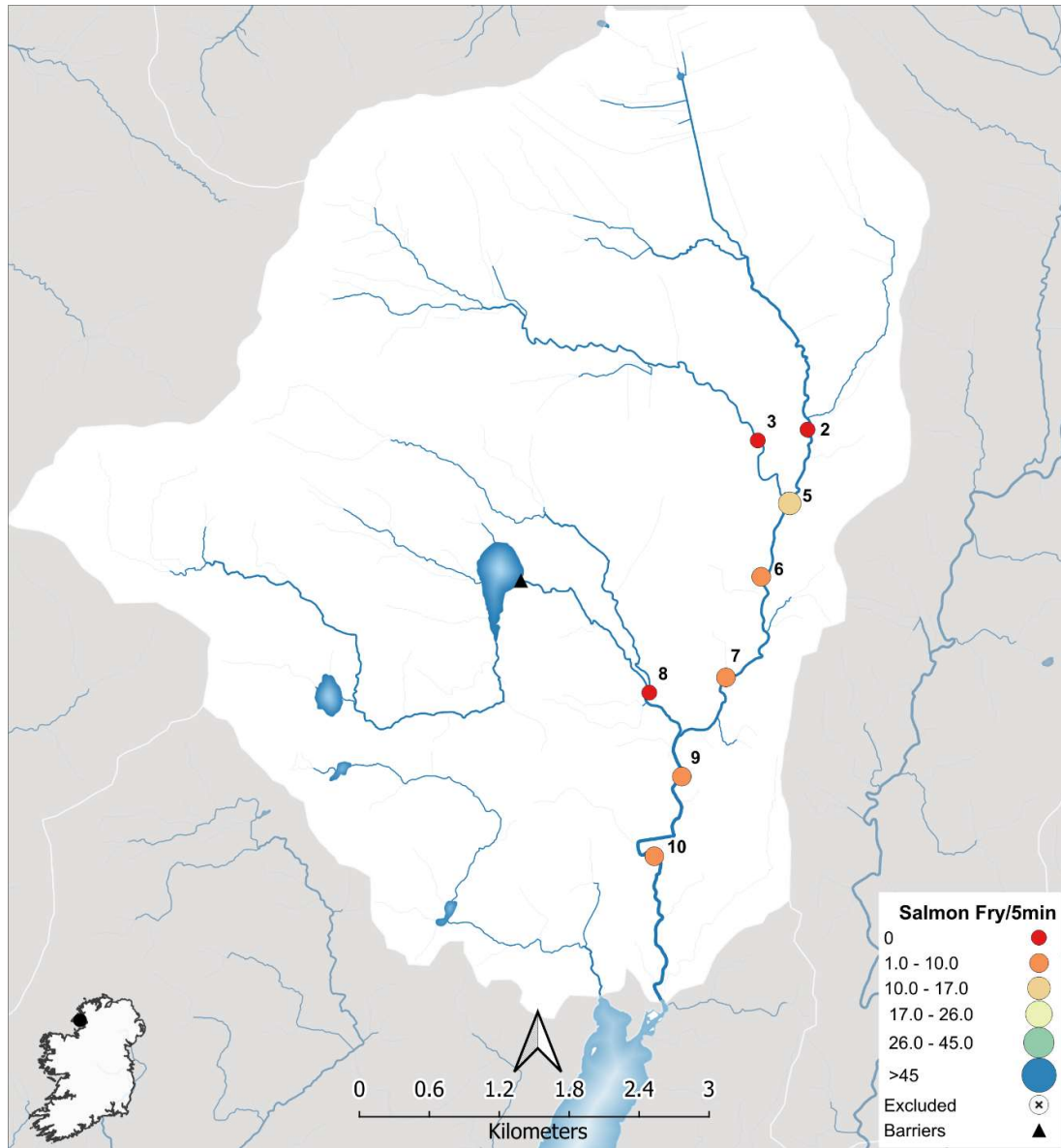


Fig. 89 Showing salmon fry/5min values and locations of surveys on the Bungosteen River in 2024.

A.6.5 Gweebarra River

IFI Salmon Catchment #: 208
 2024 survey dates: 16-18/9/2024
 Mean Salmon Fry/5 min (2024): 16.58 fry/5min
 CWEF Index: 17.76 fry/5min.

Sampling carried out by: Mark McLaughlin
 Raymond Brennan
 Tony Holmes

Fish Species Present: Brown Trout
 European Eel
 Lamprey .sp
 Salmon

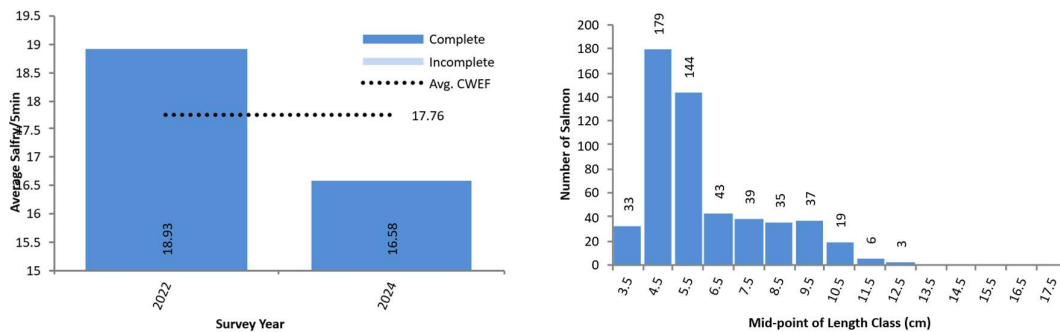


Fig. 90 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Gweebarra River.

In this year's survey of the Gweebarra, 29 sites were examined from September 16th to 18th. Salmon fry (0+) were found at 25 sites, with the highest number recorded at site 26, where 53 salmon fry were observed. The modal length of 0+ salmon was 4.5 cm.

27 sites were included in the analysis; the mean catch at these sites was 16.58 salmon fry/5min.

Conclusion

The Gweebarra had a salmon fry abundance of 16.58 salmon fry/5min in 2024. Taking the 2 most recent complete surveys into account this results in a cumulative average of 17.76 salmon fry/5min which is above the 17 salmon fry threshold.

Table 48 Site specific results of CWF on the Gweebarra River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	B 93900 13017	3	3	2	15	Include	2.24	16.76
2	B 93997 13193	2	3	0	19	Include	0.00	22.00
3	B 93752 12770	4	2	2	16	Include	2.22	17.78
4	B 93798 12681	4	1	2	29	Include	2.19	31.81
5	B 94094 13294	3	3	0	9	Include	0.00	11.00
6	B 93838 12934	3	3	0	20	Include	0.00	22.00

Table 48 Site specific results of CWF on the Gweebarra River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
7	B 93763 12942	3	2	1	13	Include	1.14	14.86
9	B 90122 08021	4	2	1	12	Include	1.00	12.00
10	B 90043 07898	4	1	1	17	Include	1.00	17.00
11	B 89980 07889	4	2	3	11	Include	3.43	12.57
12	B 90728 10050	3		5	11	Include	6.56	14.44
13	B 92474 09403	4	3	1	3	Include	1.00	3.00
14	B 92300 09166	4	2	4	9	Include	4.62	10.38
15	B 92158 09158	4		0		Not Sampled		
16	B 91740 09030	4		0		Not Sampled		
17	B 91613 08912	4	2	0	24	Include	0.00	28.00
20	B 88835 08569	4		2	11	Include	2.46	13.54
21	B 88215 08005	4	1	0	29	Include	0.00	38.00
22	B 87970 07813	4	2	2	12	Include	2.29	13.71
23	B 90223 08315	4	3	0	12	Include	0.00	13.00
24	B 88178 07081	5	2	0	6	Include	0.00	7.00
25	B 89523 02566	3	2	14	0	Include	16.00	0.00
26	B 90301 04045	3	1	2	53	Include	2.36	62.64
27	B 90505 04790	3	2	3	29	Include	3.38	32.63
28	B 91376 06383	3	3	3	0	Include	4.00	0.00
29	B 89913 06908	4	3	1	8	Include	1.33	10.67
31	B 91267 06380	3	2	9	6	Include	9.00	6.00
32	B 87612 06875	5	3	0	5	Include	0.00	5.00
33	B 86781 06549	5	2	0	8	Include	0.00	12.00

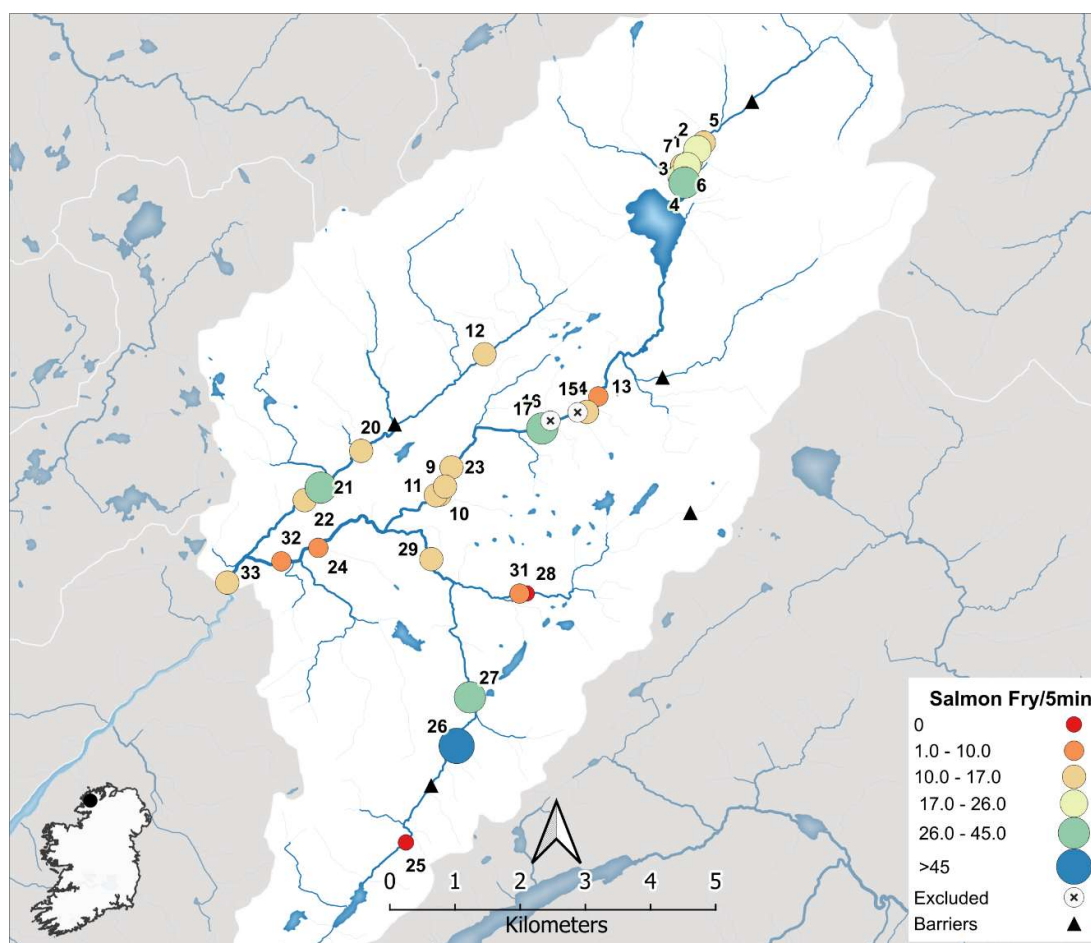


Fig. 91 Showing salmon fry/5min values and locations of surveys on the Gweebarra River in 2024.

A.6.6 Leannan River

IFI Salmon Catchment #: 208
 2024 survey dates: 9-20/9/2024
 Mean Salmon Fry/5 min (2024): 14.61 fry/5min
 CWEF Index: 15.06 fry/5min.

Sampling carried out by:
 Anne Brennan Mark Whelan
 Hugh Mooney Paul Burke
 Mark Laughlan Raymond Brennan
 Tony Holmes

Fish Species Present:
 Brown Trout
 European Eel
 Salmon
 3 Spined Stickleback

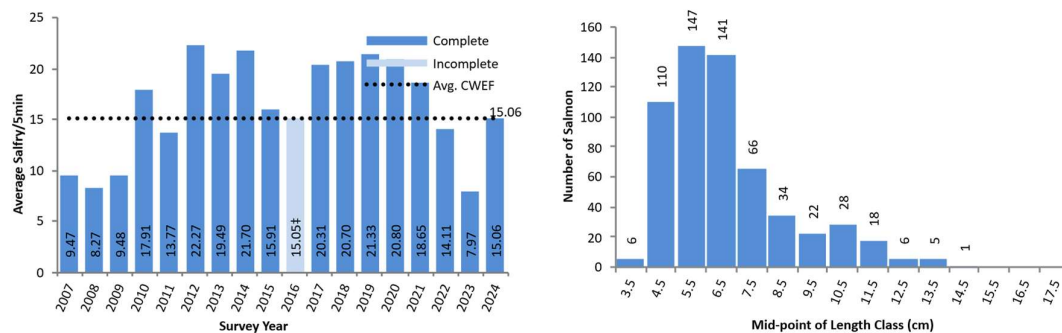


Fig. 92 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Leannan River.

In this year's survey of the Leannan, 35 sites were examined from September 9th to 20th. Salmon fry (0+) were found at 31 sites, with the highest number recorded at site 42, where 34 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

34 sites were included in the analysis; the mean catch at these sites was 14.61 salmon fry/5min.

Conclusion

The Leannan had a salmon fry abundance of 14.61 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 15.06 salmon fry/5min which is below the 17 salmon fry threshold.

Table 49 Site specific results of CWEF on the Leannan River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
2	C 18110 21555	5	3	0	21	Include	0.00	28.00
3	C 15115 20910	5	2	0	5	Include	0.00	6.00
4	C 14722 20597	5		0	3	Include	0.00	3.00
5	C 13349 19129	5		0	8	Include	0.00	10.00
6	C 10470 15850	5	1	0	4	Include	0.00	5.00
8	C 12588 21655	4	1	7	30	Include	8.14	34.86

Table 49 Site specific results of CWF on the Leannan River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
9	C 02422 14028	4	1	2	27	Include	2.34	31.66
10	C 22234 21028	5		0	0	Include	0.00	0.00
11	C 21677 20999	5	3	1	10	Include	1.45	14.55
12	C 19710 21001	5	2	1	18	Include	1.16	20.84
13	C 09540 15957	5		3	15	Include	3.17	15.83
14	C 07206 16991	5	3	2	10	Include	2.33	11.67
15	C 00385 13956	4	1	2	10	Include	2.50	12.50
16	C 19019 19448	4	2	1	1	Eff <60%		
17	C 11925 22178	2	2	11	10	Include	12.05	10.95
18	C 17013 17222	4	2	5	5	Include	6.00	6.00
19	C 15696 16505	3	2	5	1	Include	6.67	1.33
20	C 14938 21045	4	2	1	5	Include	1.00	5.00
21	C 14125 20475	4	3	12	9	Include	13.71	10.29
22	C 12199 22907	4	2	11	21	Include	11.00	21.00
23	C 10793 23117	4	2	15	3	Include	17.50	3.50
24	C 09643 15275	4	2	4	9	Include	5.54	12.46
25	B 99853 14070	4	3	2	0	Include	2.00	0.00
27	C 05160 17417	4	2	0	21	Include	0.00	24.00
28	C 02269 13466	3	1	3	30	Include	3.18	31.82
29	C 01542 13558	3	1	3	31	Include	3.44	35.56
31	C 01544 13637	4	1	0	20	Include	0.00	23.00
34	C 09680 14776	4	1	4	13	Include	4.94	16.06
36	B 98773 14828	3	2	2	0	Include	3.00	0.00
37	C 18382 18934	4	3	2	3	Include	2.00	3.00
38	C 09004 13462	4	1	2	24	Include	2.31	27.69
39	C 18760 19189	4	3	3	2	Include	4.80	3.20
40	C 12972 21411	4	3	4	26	Include	4.53	29.47
41	B 99203 14674	3	2	4	0	Include	4.00	0.00
42	C 02211 12907	3	1	3	34	Include	3.41	38.59

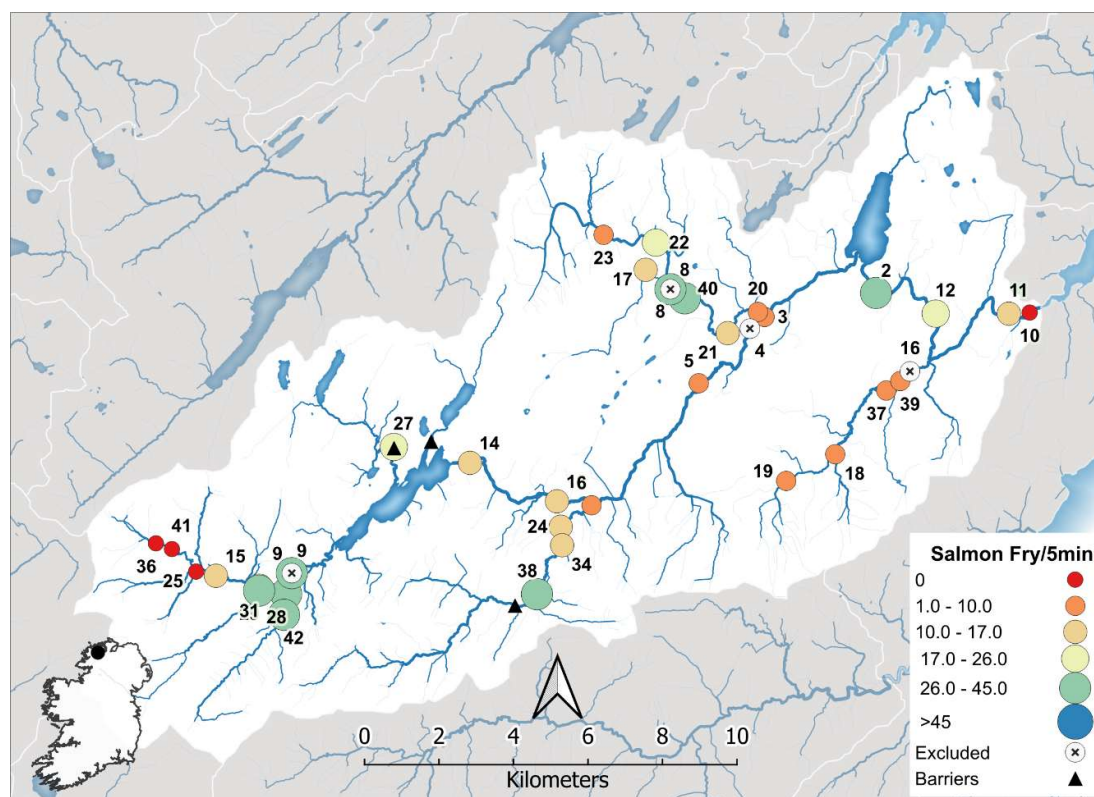


Fig. 93 Showing salmon fry/5min values and locations of surveys on the Leannan River in 2024.

A.6.7 Swilly River

IFI Salmon Catchment #: 249
 2024 survey dates: 10-23/9/2024
 Mean Salmon Fry/5 min (2024): 9.87 fry/5min
 CWEF Index: 11.74 fry/5min.

Sampling carried out by: Fish Species Present:
 Hugh Mooney Brown Trout
 Raymon Brennan European Eel
 Terry Frize Salmon
 Tommy Mooney
 Tony Holmes

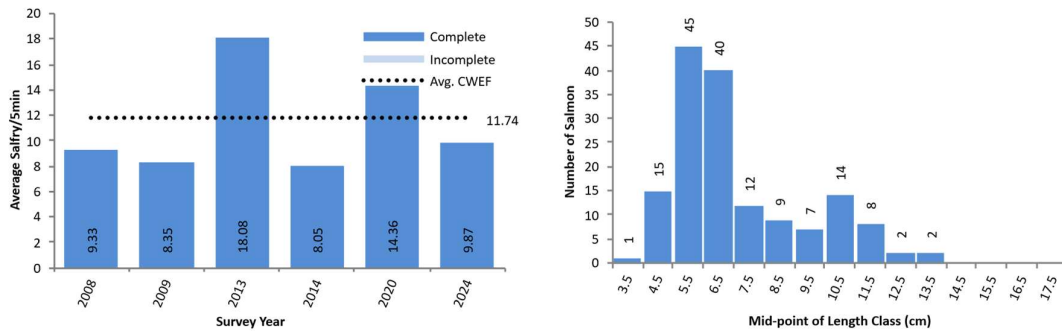


Fig. 94 Comparison of mean salmon fry/5min for all surveys along with current index (left) and Length distribution of salmon captured in 2024 (right) on the Swilly River.

In this year's survey of the Swilly, 14 sites were examined from September 10th to 23rd. Salmon fry (0+) were found at 9 sites, with the highest number recorded at site 5, where 24 salmon fry were observed. The modal length of 0+ salmon was 5.5 cm.

13 sites were included in the analysis; the mean catch at these sites was 9.87 salmon fry/5min.

Conclusion

The Swilly had a salmon fry abundance of 9.87 salmon fry/5min in 2024. Taking the 5 most recent complete surveys into account this results in a cumulative average of 11.74 salmon fry/5min which is below the 17 salmon fry threshold.

Table 50 Site specific results of CWEF on the Swilly River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
1	C 05985 09176	4	2	3	19	Include	3.68	23.32
2	C 04400 09373	3		1	0	Include	1.00	0.00
4	C 10319 09979	4		0	16	Include	0.00	20.00
5	C 08606 10021	4	2	0	24	Include	0.00	27.00
6	C 07295 10009	4	1	1	8	Include	1.44	11.56

Table 50 Site specific results of CWF on the Swilly River catchment in 2024.

Site #	Grid Ref.	Stream Order	Riffle Grade	Trout Fry Captured	Salmon Fry Captured	Site Status	Trout Fry/5min	Salmon Fry/5min
11	C 13676 09524	2	2	12	0	Include	12.00	0.00
12	C 13358 09419	3	2	0	4	Include	0.00	5.00
13	C 13554 08084	3	2	5	0	Include	5.00	0.00
14	C 13291 07032	3	2	18	0	Include	21.00	0.00
15	C 06114 09088	3	2	0	12	Include	0.00	15.00
16	C 06133 08389	3	3	0	0	Include	0.00	0.00
17	C 05771 08730	3	3	3	15	Include	3.50	17.50
18	C 12386 09114	4	2	0	8	Include	0.00	9.00
19	C 11392 09254	2	2	0	5	Eff <60%		

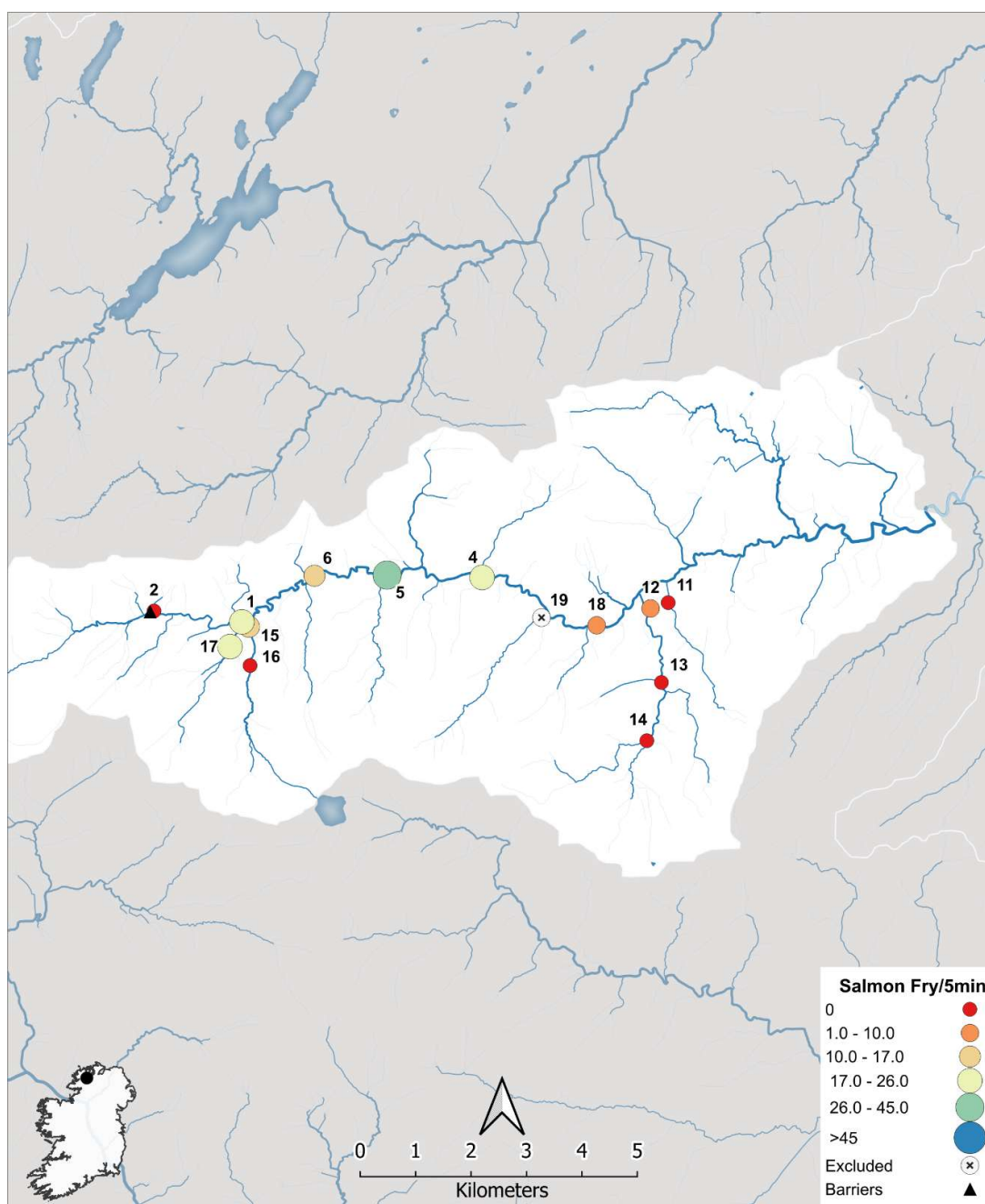


Fig. 95 Showing salmon fry/5min values and locations of surveys on the Swilly River in 2024.

B Other Species

B.1 European eel

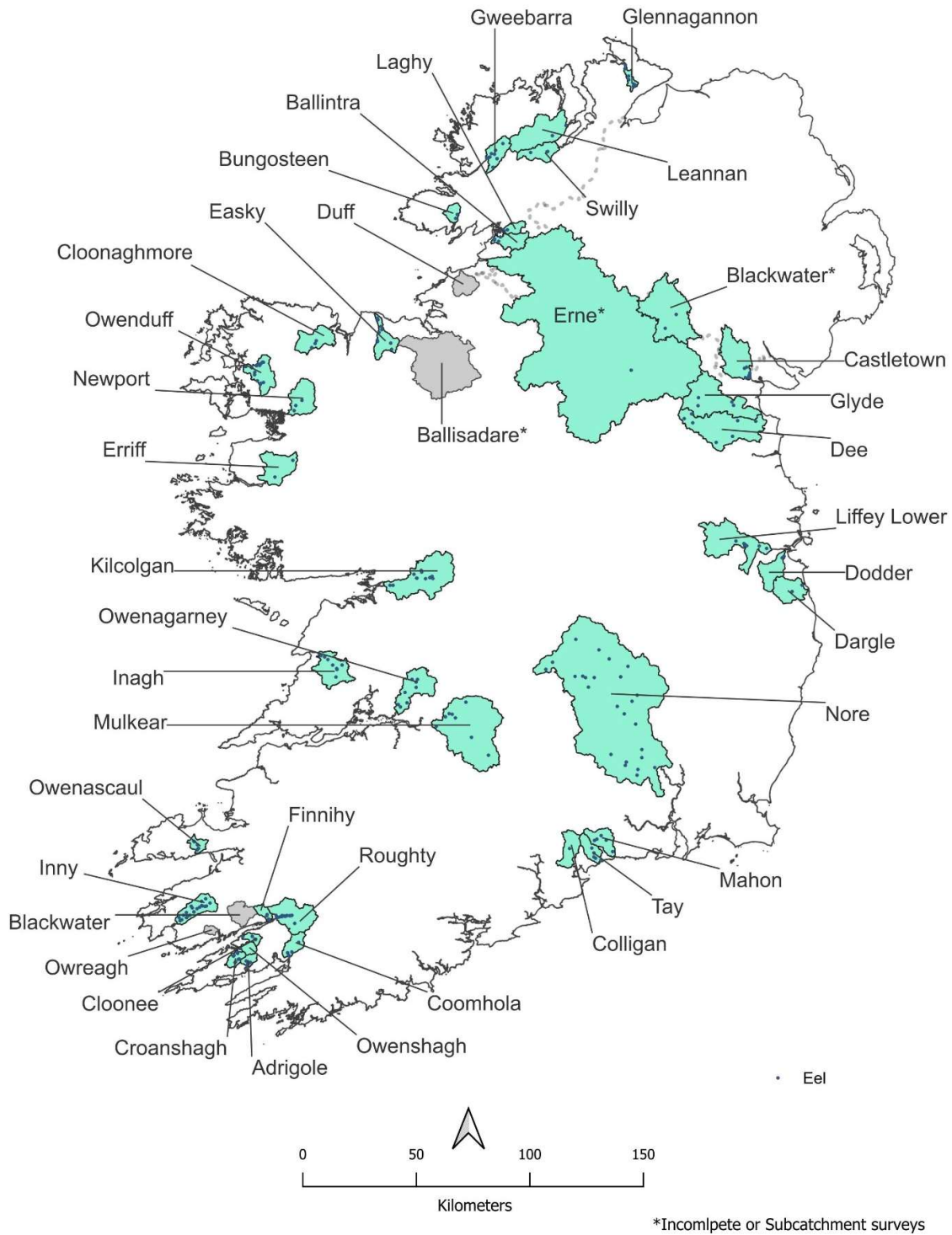


Figure 96 Locations at which European eel were observed during CWF surveys 2024.

B.2 Flounder

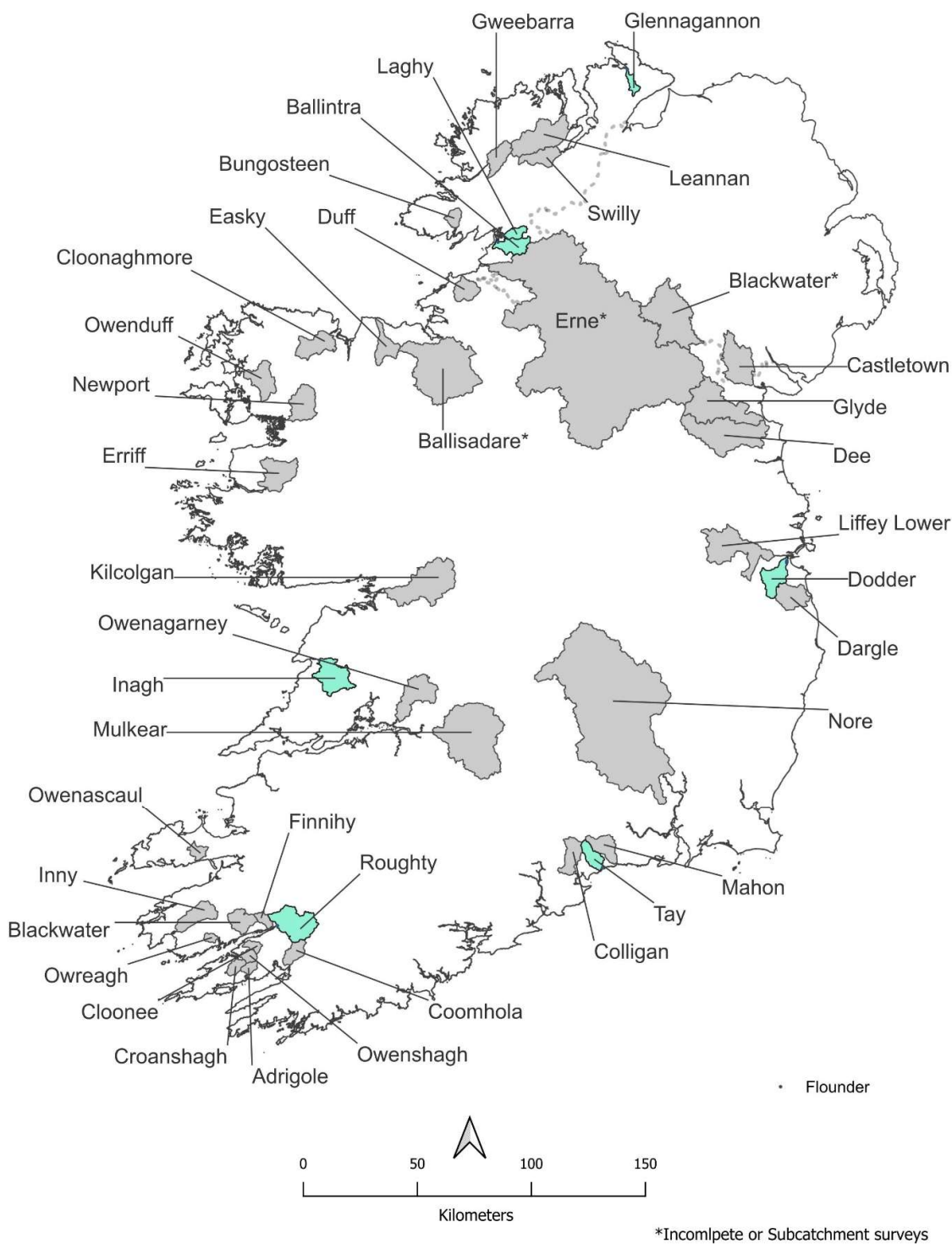


Figure 97 Locations at which flounder were observed during CWF surveys 2024.

B.3 Gudgeon



Figure 98 Locations at which gudgeon were observed during CWF surveys 2024.

B.4 Lamprey sp.



Figure 99 Locations at which lamprey sp. were observed during CWF surveys 2024.

B.5 Minnow



Figure 100 Locations at which minnow were observed during CWF surveys 2024.

B.6 Roach



Figure 101 Locations where roach were observed during CWF surveys 2024.

B.7 Three-spined stickleback



Figure 102 Locations where three-spined stickleback were observed during CWEF surveys 2024.

B.8 Stone loach



Figure 103 Locations where stone loach were observed during CWF surveys 2024.

B.9 White-clawed crayfish



Figure 104 Locations where white-clawed crayfish were observed during CWF surveys 2024.

C Annual CWF results and averages to date

Table 51 Annual CWF results and summary CWF averages to date.

Code/River	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Index	# Surveys Inc.
002/Flurry				5.24					17.15					37.55†	1.35†	5.58			9.32	3
003/Castletown			26.41				22.96	13.59					5.58	1.87				10.89	10.98	5
004/Fane			20.21			22.09			8.94†		0.5†	3.65					10.39		14.09	4
005/Glyde		2.49	17.08	31.61					5.19				4.02		6.58		10.73†	21.24	13.73	5
006/Dee		8.85	16.92	21.72	20.13				10.51				4.53†	7.59			2.59†	4.59	12.91	5
008/Boyne		21.91	17.92	19.52				13.21		14.47				14.94					16.01	5
013/Broadmeadow				0.00															0.00	1
014/Tolka					1.08	0.00						0.00							0.36	3
015/Liffey Lower		21.33	40.12	25.16	17.47	12.12				6.75		19.18				9†	14.33†	16.72	14.45	5
015/Liffey Upper		12.93	5.54	8.15	16.20	10.13				2.63†		1†			1.49†	2.24			8.45	5
016/Dodder					13.93											1.25		30.60	15.26	3
018/Dargle			1.40	2.69	7.52				4.74				1.03					5.89	4.37	5
020/Newcastle												0.00							0.00	1
021/Vartry		10.00	20.15	2.75	15.07				6.31	1.75				9.63		2.88			7.13	5
026/Avoca		4.04	5.56	5.68	18.88	5.15				1.89		8.37†	3.95				4.65		6.90	5
028/Owenavorrigh				19.76			0.33		4.61			6.20			2.40		4.58		3.62	5
030/Sow								11.54†												
031/Slaney	19.05		16.47	18.42				18.23		8.77	14.52		3.61†			28.39			17.67	5
033/Corock					37.11				5.47	1.23			6.47†			0.26			11.02	4
034/Owenduff (Wexford)				4.97	10.65	15.91			4.33	0.40			16†			1.56			6.57	5
037/Barrow	17.72		12.65	8.71	22.39	27.11			8.93†	11.65			16.64				35.95		22.75	5
038/Nore				19.03						12.44			12.69†		16.79			13.13	15.35	4
039/Blackwater (Waterford)														26.54			1.82		14.18	2
041/Lingaun										14.52				47.60			7.14		23.09	3
042/Glen (Waterford)										0.00									0.00	1
043/Suir										9.81						17.09			13.45	2
044/Clodiagh										11.77				51.00			7.88		23.55	3
050/Mahon		3.17						10.72	4.57				8.60					4.52	6.31	5
051/Tay					8.75				6.14	1.75				9.91				7.50	6.81	5
053/Colligan					29.32			9.50		3.62			4.84					5.07	10.47	5
055/Lickey		12.37							14.14					12.00					12.84	3
057/Finisk		10.55								3.31									6.93	2
058/Glenshelane	22.72	10.96								2.87						2.44			9.75	4
059/Blackwater (Munster)										14.87		22.76†				26.76†			14.87	1
060/Bride		10.40		24.70				19.85			7.65		18.93				26.08		19.44	5
061/Tourig						9.40					0.73†			11.19					10.29	2
062/Womanagh		15.45						2.39			1.54					3.68			5.77	4
064/Owennacurra	15.76										1.91†			9.47		21.58			15.61	3
065/Glashaboy																11.63			11.63	1
066/Lee (Cork)			0.46†																	
066/Lower Lee (Cork)N (Shournagh)												18.34					13.26		15.80	2
069/Bandon										11.71									11.71	1
070/Argideen	17.15														28.92		14.47		20.18	3
077/Mealagh						12.82													12.82	1
079/Coomhola																		33.12	33.12	1
080/Glengarriff			7.91																7.91	1

Code/River	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Index	# Surveys Inc.
081/Adrigole							4.68	1.33				17.20					3.04†	38.28	15.37	4
082/Kealinch	0.00								0.00					0.00					0.00	3
083/Lough Fada	3.23								1.68					0.00					1.63	3
084/Croanshagh										23.38								38.67	<u>31.03</u>	2
085/Owenshagh							4.75		6.73			19.27		17.33				18.92	13.40	5
086/Cloonee						16.18	33.06				24.09		26.48					47.72	<u>29.51</u>	5
088/Roughy					19.78													25.31	<u>22.54</u>	2
089/Finni						8.61	0.00				0.70		1.01					4.69	3.00	5
090/Blackwater (Kerry)	30.54	15.52	13.35					19.70										25.46	<u>20.91</u>	5
093/Owreagh	8.94						2.07	2.81					8.51					17.58	7.98	5
097/Currane								24.51											<u>24.51</u>	1
098/Inny	24.63		21.75									17.67				22.67		23.63	<u>22.07</u>	5
099/Emlaghmore	2.07								1.45					7.70					3.74	3
101/Carhan	15.76						6.05	8.61					7.55			17.03			11.00	5
102/Ferta	19.42							12.88			6.88		12.06						12.81	4
103/Behy	15.41	6.14	4.03	9.96	7.17					2.89			6.60			7.18			6.76	5
106/Laune		<u>17.42†</u>									21.63								<u>21.63</u>	1
107/Maine	31.88	32.81	<u>34.23†</u>								<u>22.05†</u>	<u>19.61†</u>			37.62				<u>34.10</u>	3
108/Emlagh	10.37	3.66	13.38	6.39	2.59					2.10					1.02				5.10	5
109/Owenascaul	20.41		22.27				16.08	16.28				9.51		11.52				16.03	13.88	5
110/Owenalondrig			21.90													19.23			<u>20.57</u>	2
111/Milltown (Kerry)		15.33		26.44			13.02		8.76				11.25				11.36		14.17	5
112/Feohanagh			18.46				3.56	11.93					13.75				9.62		11.46	5
114/Owenmore (Kerry)	25.07														28.62				<u>26.85</u>	2
115/Scorid										1.86						5.62			3.74	2
115/Glenahoo										1.87						15.52			8.70	2
116/Aghacashla										4.89						15.18			10.04	2
116/Owenamallagh										0.00									0.00	1
116/Meennascarty										0.00									0.00	1
116/Finglas (Camp)																0.00			0.00	1
117/Lee (Kerry)		0.72						0.68			0.69					0.00			0.52	4
118/Brick	0.00																		0.00	1
119/Feale							24.15												<u>24.15</u>	1
120/Galey			12.99																12.99	1
125/Deel					0.14			0.21		<u>1.87†</u>	0.04					3.83		1.46	1.14	5
126/Maigue			2.88	16.05			12.25									14.23			11.35	4
128/Shannon Kilcrow				<u>0.72†</u>																
128/Shannon Graney				<u>0.2†</u>																
128/Shannon Woodford				<u>0†</u>																
128/Shannon Mulkear																				
128/Shannon Blackwater											10.74†	10.74†						23.41	<u>23.41</u>	1
128/Shannon Groody											<u>0†</u>	7.45†								
128/Shannon Kilmastula											10.35†	24.45†								
128/Shannon Old Main Channel											<u>5.5†</u>	<u>18.25†</u>	35.68			28.82			<u>32.25</u>	2
130/Owenagarney (Ratty)							16.97	8.87						3.82				4.05	8.42	4
131/Fergus	12.96		4.25	7.06			6.84		6.66					<u>4.99†</u>	9.68				6.90	5
133/Doonbeg				12.28				17.39		16.14†	18.77					18.82			16.81	4
134/Skivaleen					14.82				11.70	<u>14.54†</u>							2.97		9.95	4
135/Annageeragh							1.82	9.24						0.84			1.75		3.41	4
142/Inagh								5.60	3.59					7.23				3.06	4.87	4
143/Aughyvackeen					1.00						1.70					2.56			1.75	3
144/Aille																0.00			0.00	1
145/Kilcolgan			2.51								<u>0.1†</u>	<u>0.88†</u>		11.95			<u>5.74†</u>	6.49	6.99	3
146/Clarinbridge					7.26									1.77					4.51	2

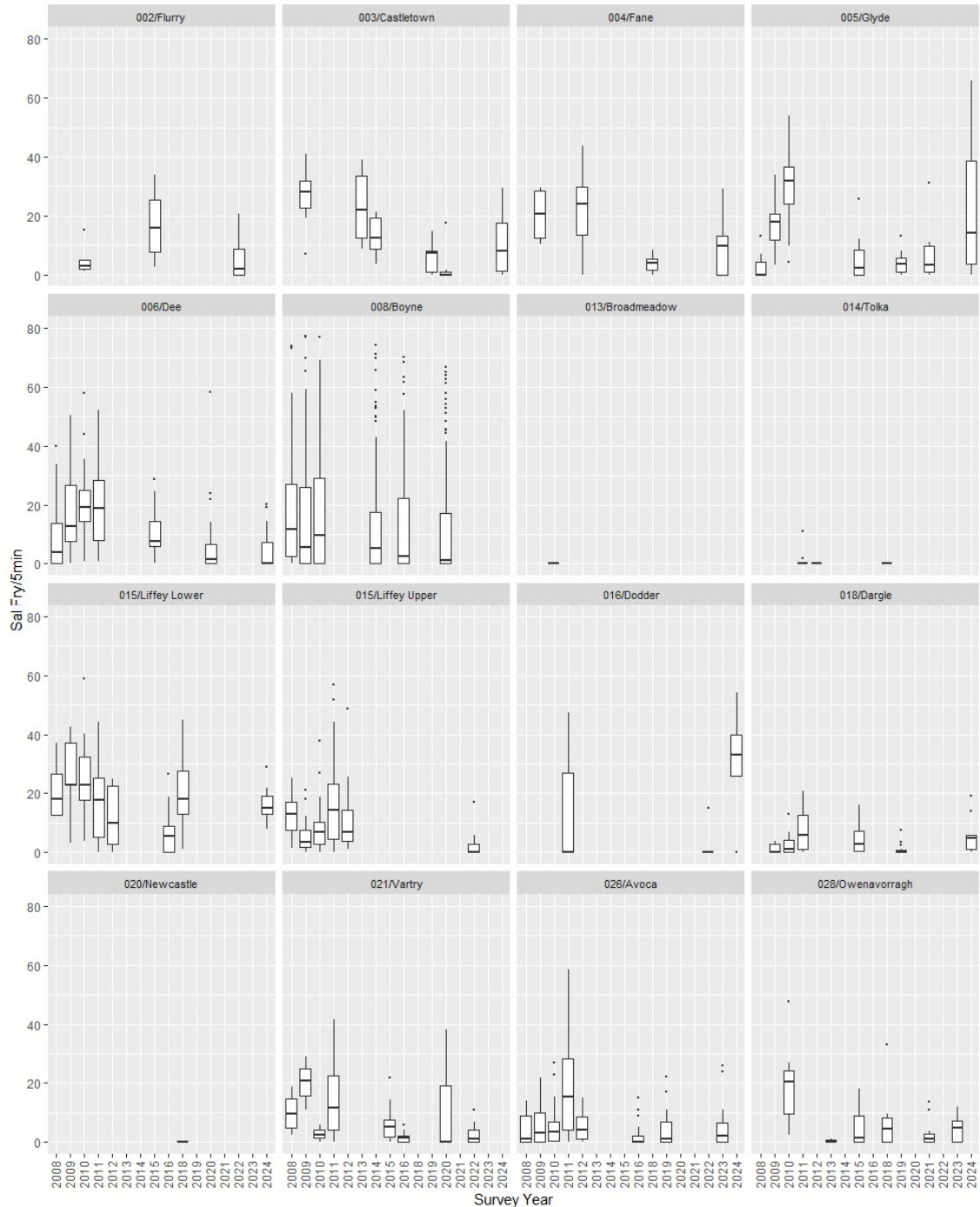
Code/River	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Index	# Surveys Inc.
147/Corrib														10.74†						
147/Corrib Owenriff	15.75											10.35†			22.30				19.02	2
148/Knock					12.53							1.5†			16.93				14.73	2
149/Owenboliska (Spiddal)		3.88						4.75							12.90				5.57	4
152/Cashla							10.83					0.76							10.83	1
154/L. Na Furnace stream									0.00										0.00	1
155/Screeb											10.70					12.39			11.54	2
161/Owenmore - Ballinahinch														14.83					14.83	1
163/Owenglin			13.23												29.86†	28.56			20.89	2
167/Culfin		30.83																	30.83	1
168/Erriff	29.51	24.10	16.53	20.88	20.86	24.45	27.45	24.90	28.52	21.72	13.69	22.81	22.25	31.95	40.49	37.18	19.64	31.60	32.17	5
171/Carrownisky		18.25				20.60	18.22				4.25†		15.24			28.41			20.15	5
172/Bunowen			13.62																13.62	1
173/Owenwee (Belclare)				9.41	8.16	15.27							4.49						9.33	4
178/Newport (L. Beltra)	16.06		5.53					17.40									14.43†	17.52	14.13	4
179/Srahmore			4.33																4.33	1
181/Owengarve			5.51					6.96	0.90					13.01			3.49		5.98	5
185/Owenduff (Bangor)			6†					6.20										14.22	10.21	2
186/Owenmore - MC							27.65												27.65	1
186/Owenmore- Carrowmore (Muinhin)							25.77												25.77	1
187/Glenamoy	28.16		5.65														9.54		14.45	3
188/Muingnabo	0.78								1.88†					0.33					0.55	2
193/Ballinglen	10.65				15.09		6.37			4.97					10.73		0.60		7.55	5
194/Cloonaghmore (Palmerstown)		8.96		10.02	23.12	17.32	15.02				5.46†	14.63				7.52		6.64	12.23	5
196/Brusna			5.00				14.16	14.74						6.73†			5.28		9.79	4
198/Leaffony	5.76		7.95						1.73					0.67†		0.00			3.86	4
200/Easky																		5.48	5.48	1
202/Ballysadare																		0.18†		
203/Garvogue (Bonnet)	18.41	13.55	16.83	11.53	7.73	18.54									19.53	16.37	15.46		15.53	5
205/Drumcliff				17.72															17.72	1
207/Grange	5.75		3.29						4.56					4.08					4.42	4
208/Duff	7.84	9.31	18.59	25.16							18.05	20.34				8.57		9.29	16.28	5
210/Erne		7.37†	0.25†	0.09†	0†	0†	0†	1.72†	1.4†	1.25†	0†	0.69†	0†	0†	1.57†	0†		0†		
211/Abbey							7.2†	28.14											28.14	1
212/Ballintra			10.27†				13.40	19.82					13.31			2.29		14.79	12.72	5
213/Laghy			8.58				14.97	11.02					8.56			5.71		8.75	9.80	5
214/Eske		13.10	16.99	16.30					14.07			10.94					11.92		14.04	5
215/Eany				15.86		30.08			12.89										19.61	3
216/Oily			9.49		33.68			16.62			21.26			18.64			15.14		21.07	5
217/Bungosteen					27.91		19.23				13.17		13.41			3.46		3.56	10.57	5
219/Glen (Ballyshannon)				19.44					18.37			18.56		11.71			15.67		16.75	5
220/Owenwee (Yellow R)	24.13	5.00	16.93			20.31	21.05						14.20			6.24			15.75	5
221/Bracky		10.82				21.57		12.24						5.31			6.27		11.24	5
222/Owentocker		20.06														27.13			23.59	2
223/Owenea												33.94				43.19			38.57	2
225/Gweebarra																18.93		16.58	17.76	2
226/Owenamarve			3.76				2.64	3.00						10.67			13.30		6.67	5
228/Gweedore (Crolly R.)		15.99			11.32														13.65	2
229/Clady		16.12				37.21											20.23		24.52	3
234/Glenna			16.80		3.77		7.77				4.00				11.43		1.02		5.60	5
235/Tullaghobegly		8.33		9.05						0†						6.24			7.87	3
236/Ray		7.35			16.38			17.31		3.71†				6.65		10.39			11.62	5
240/Lackagh		22.01	15.82		19.20	23.57				17.5†	24.75								21.07	5
248/Leannan	9.47	7.96	9.48	17.30	13.32	22.19	19.51	20.87	15.27	15.05†	19.47	20.11	21.33	20.50	18.23	13.83	8.11	14.61	15.06	5

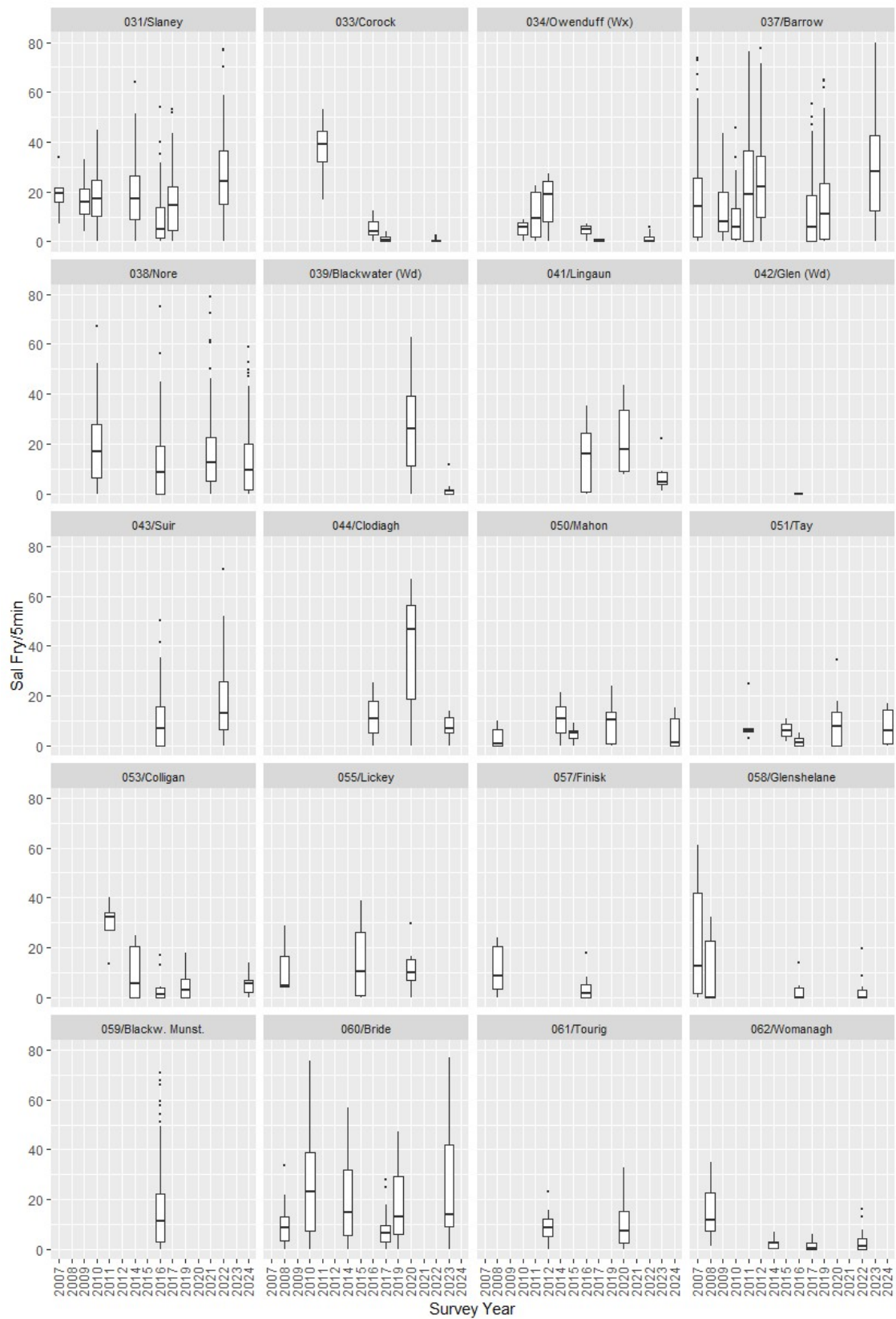
Code/River	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Index	# Surveys Inc.
249/Swilly		9.33	8.35				18.08	8.05						14.36				9.87	11.74	5
250/Isle (Burn)						2.12									0.00				1.06	2
251/Burnfoot		7.77		2.90											0.00				3.56	3
252/Mill (Letterkenny)				0.00					0.00						0.00	0.00			0.00	4
253/Crana			15.74							6‡	6.93‡	16.38				33.01			<u>21.71</u>	3
256/Clonmany		16.61		7.19					5.89						9.55				9.81	4
257/Straid				0.20					0.00						0.00	0.00			0.05	4
258/Donagh				4.25					0.68						6.79	0.82			3.13	4
259/Glennagannon			16.65		4.05		7.13									1.26		0.00	5.82	5
261/Culoort				4.03					0‡						11.41				7.72	2
270/Blackwater (Monaghan))																		0.07†		
805/Trafrask															5.36				5.36	1
930/Quin									6.47										6.47	1
1461/Oranmore												0.63							0.63	1
1551/Loch An Mhuillin											0.00								0.00	1

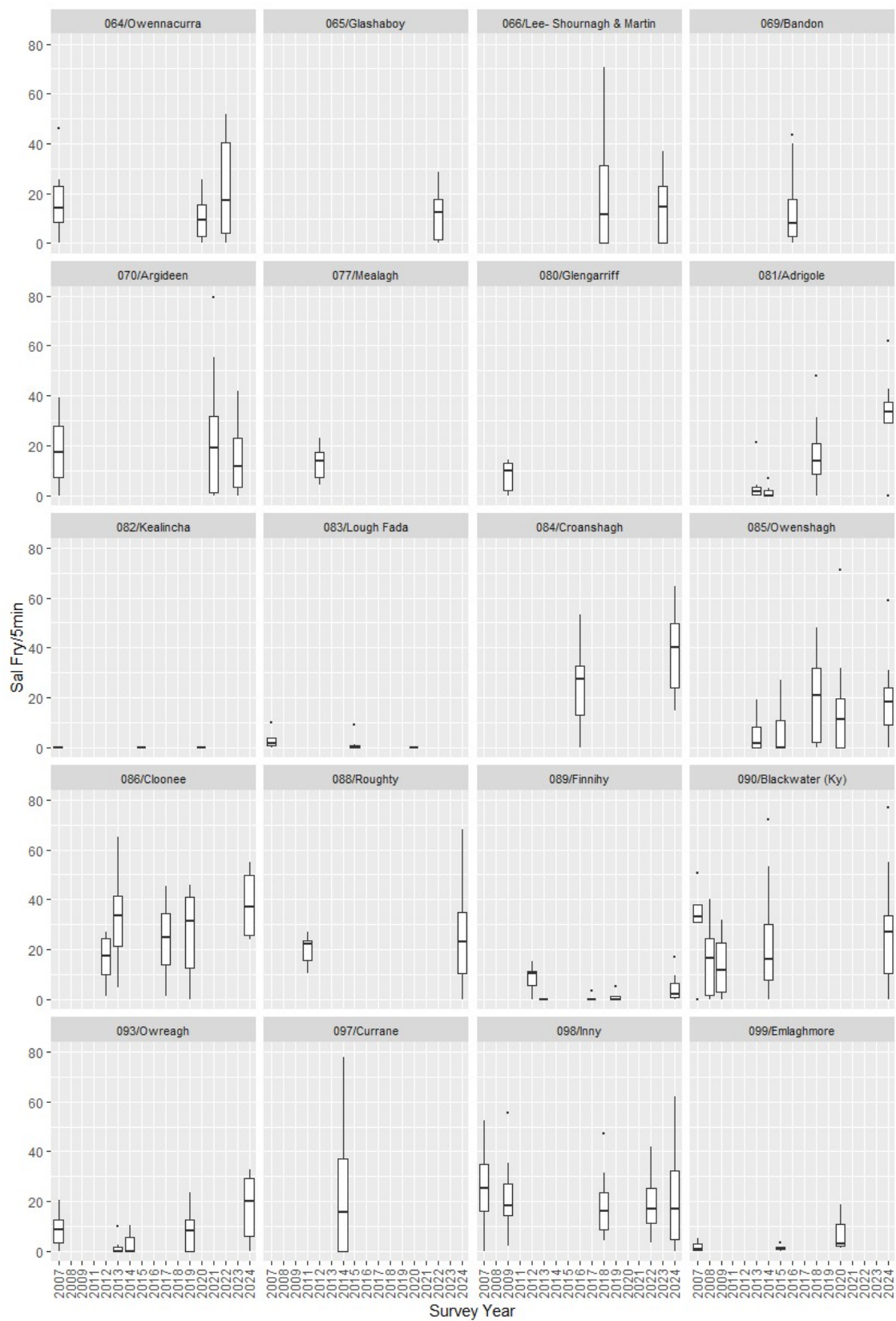
‡ surveys not completed, † sub-catchment surveys.

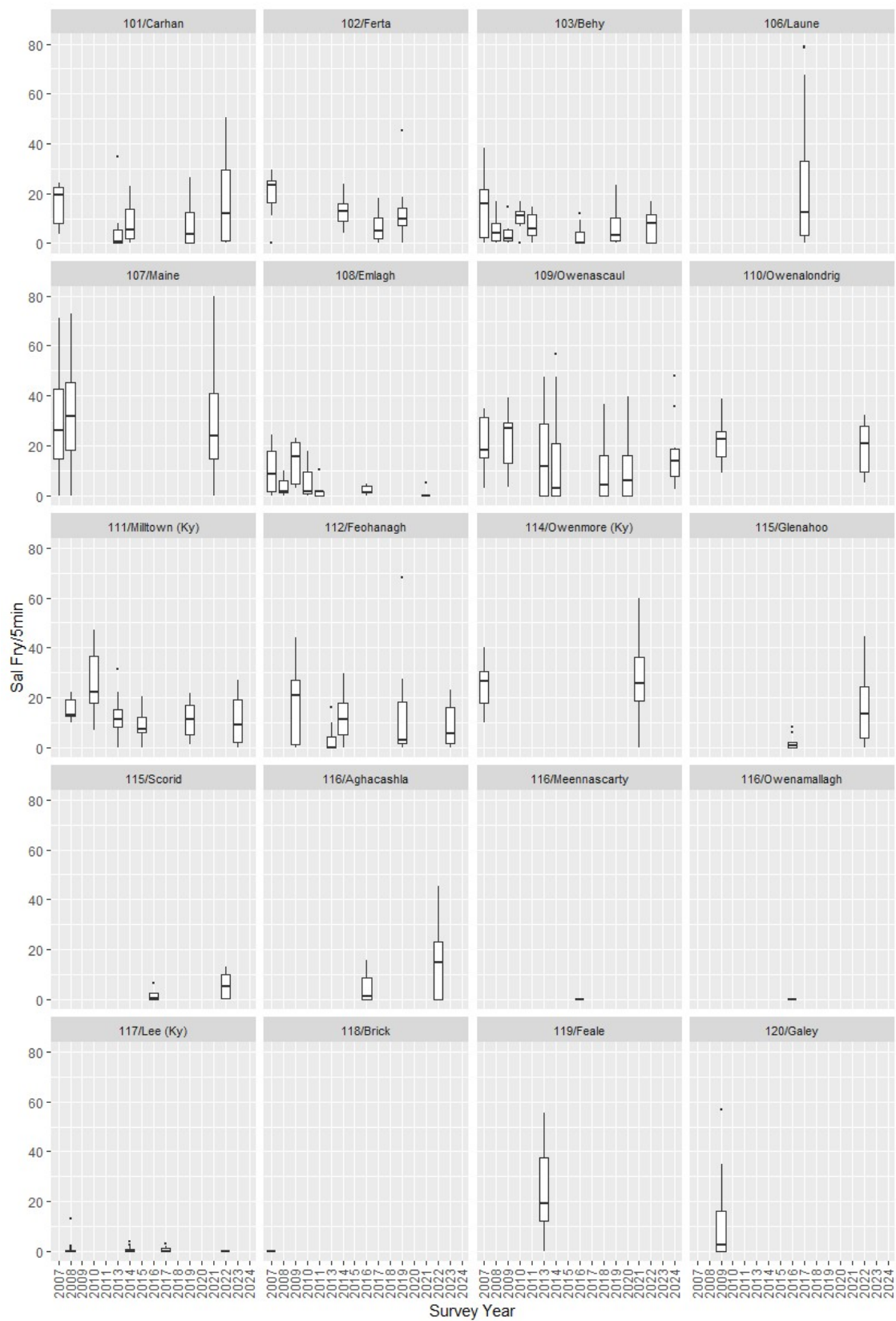
D Boxplots: CWEF site results per catchment >2 surveys (2007-2024)

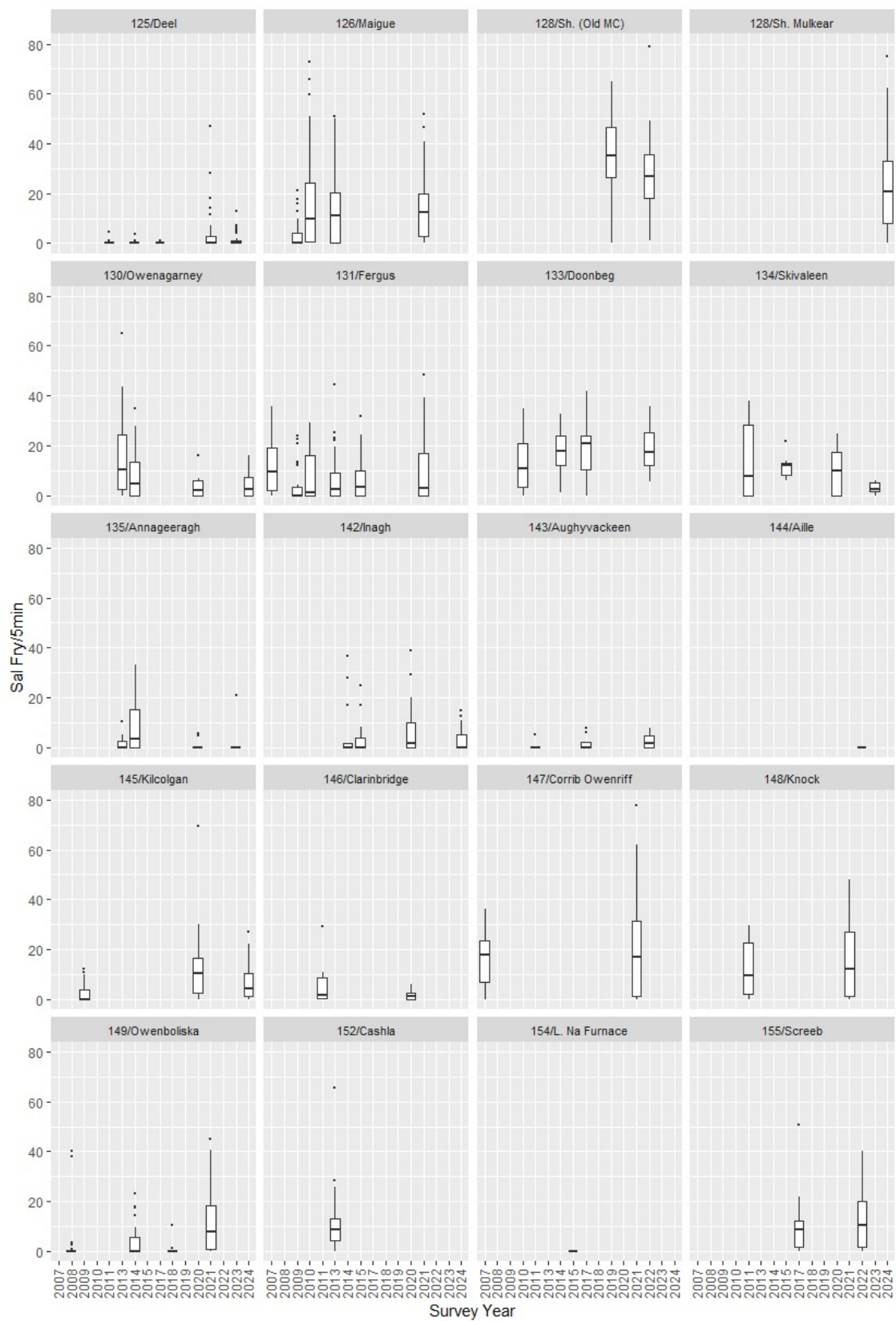
NB: Only site results used in CWEF average calculations in completed catchment surveys are represented (n=11,577). Y-axes limited to 80 salmon fry/5min, the surveys which achieved > 80 salmon fry/5min are not represented.

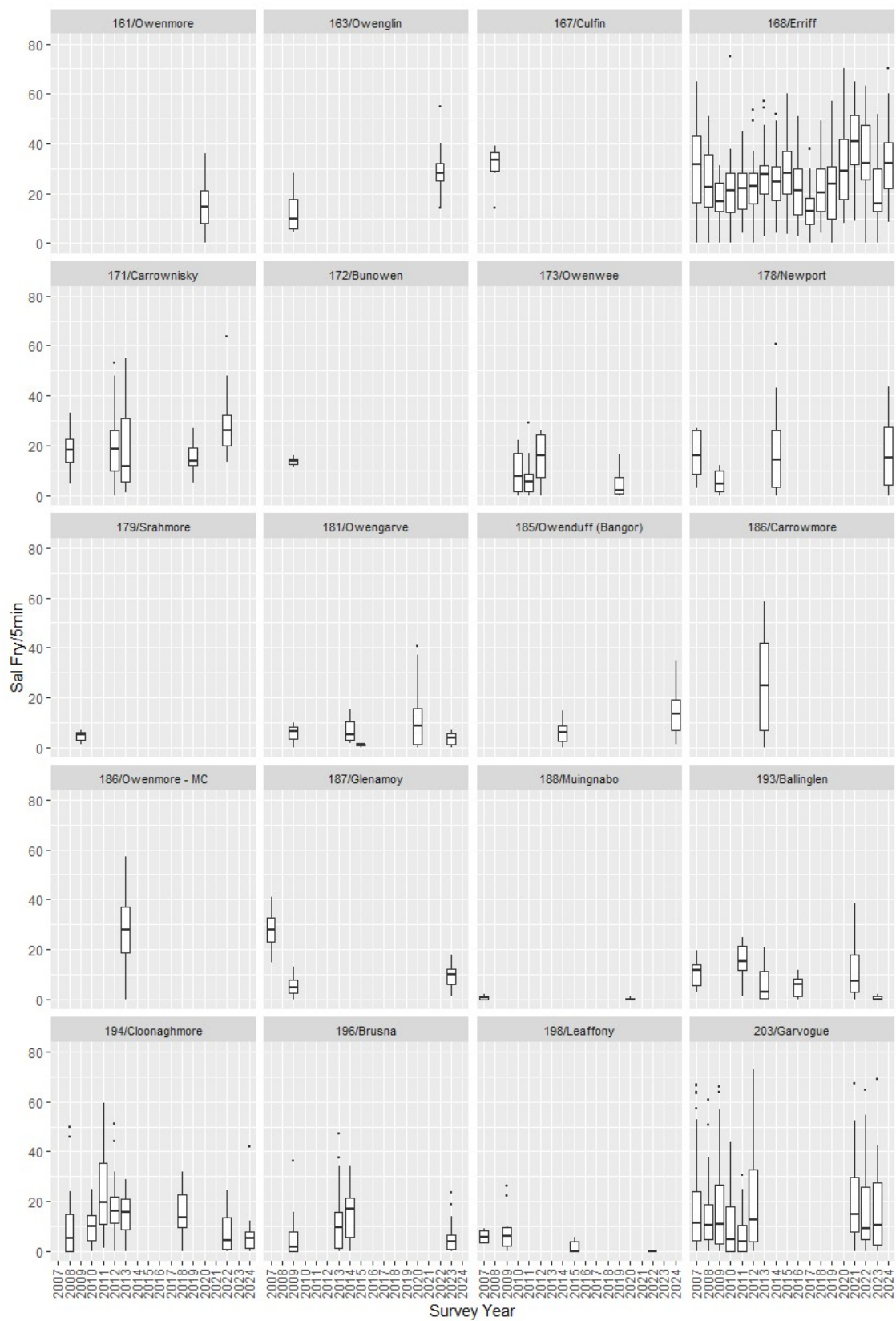


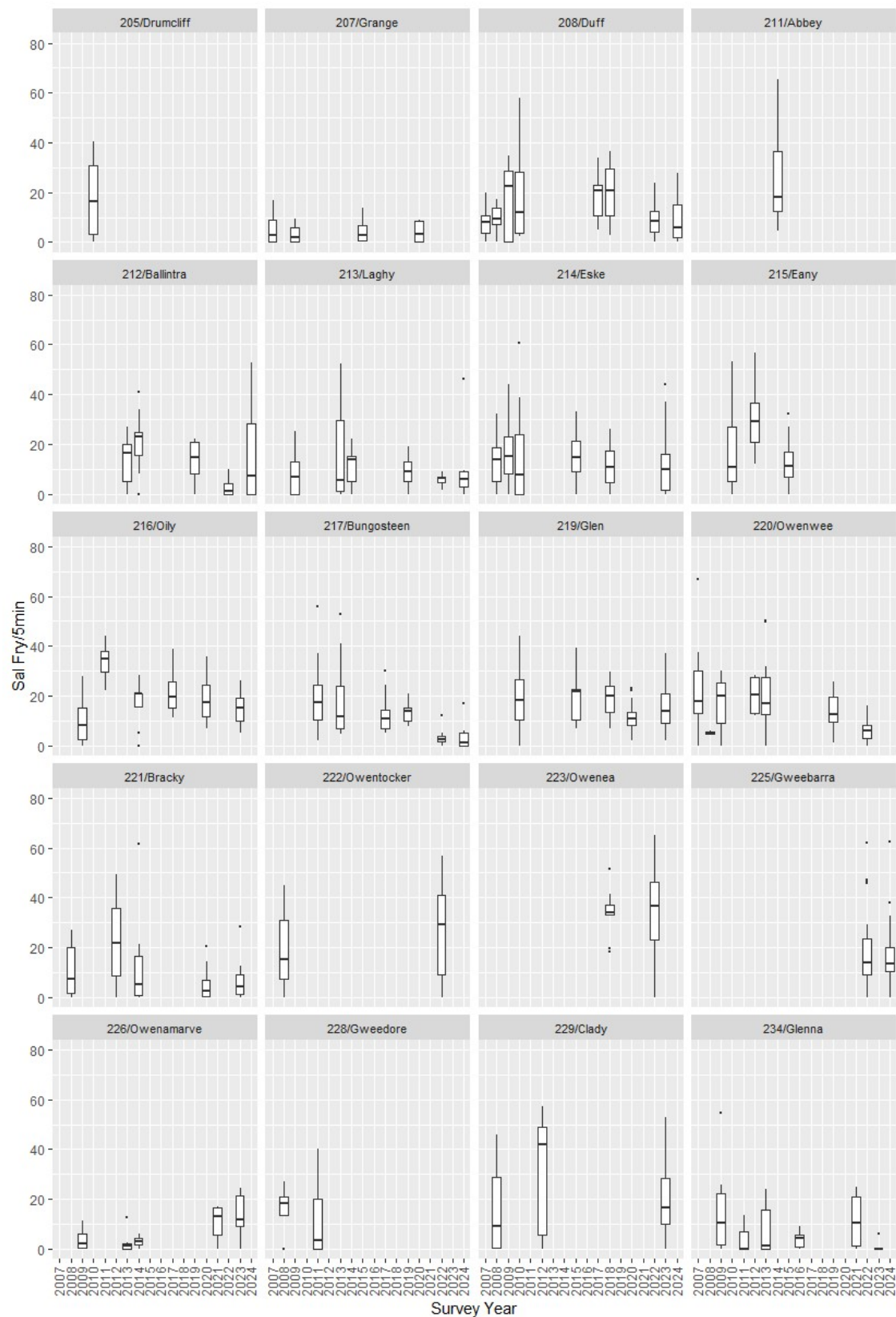


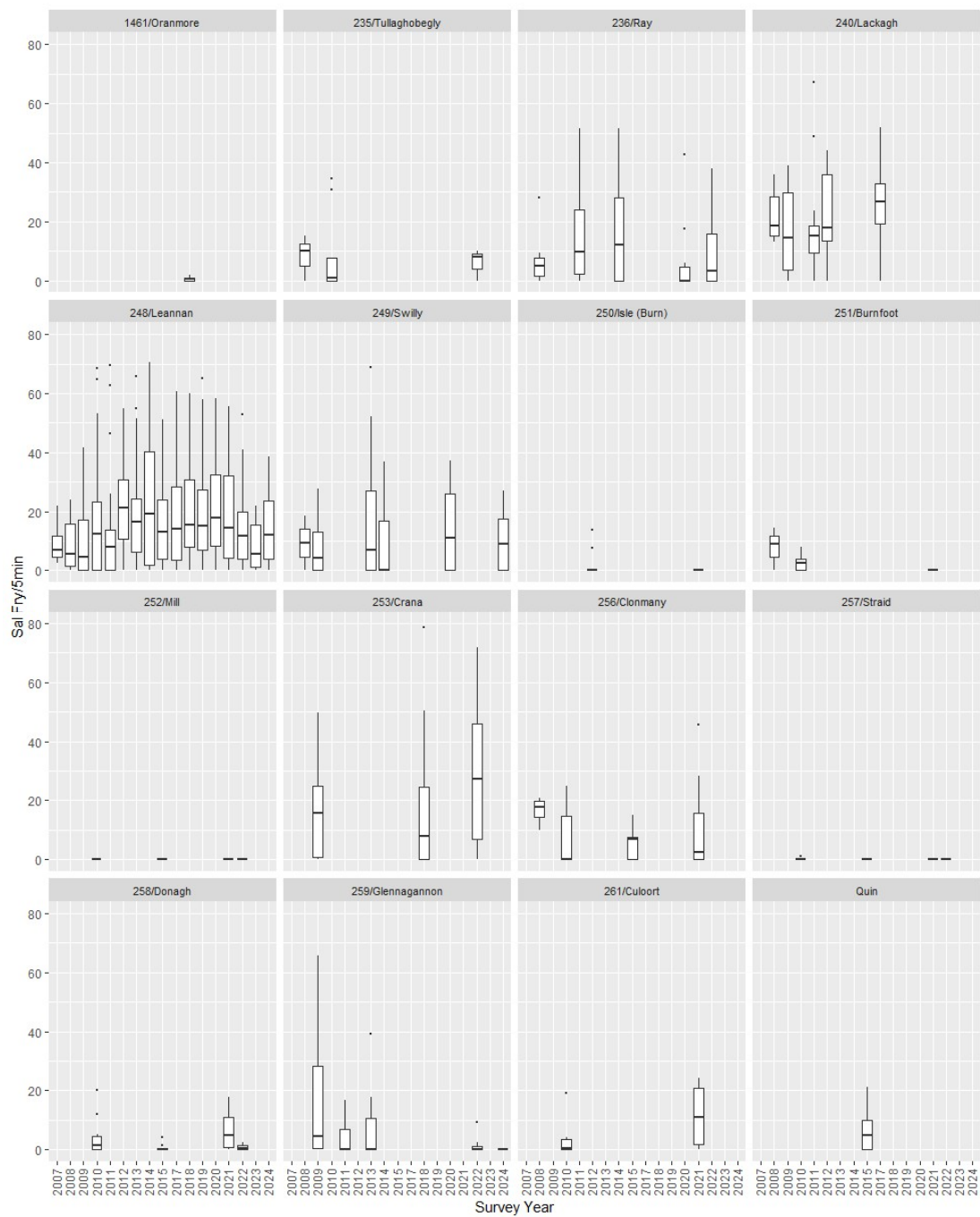












E Survey Density

Table 52. Annual survey density per catchment. (No. of sites visited per km of channel > stream order (SO) 1.) Only annual surveys that have been used in calculation of annual CWF averages are considered.

Code/River	Length of Channel >SO1 (from GIS)	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Min
002/Flurry	56				7					14							6			6
003/Castletown	135			10				12	12					14	10				10	10
004/Fane	146			21			10						11					13		10
005/Glyde	165		10	11	12					11				17		13			14	11
006/Dee	201		7	11	10	10				10					9				6	6
008/Boyne	1111		8	8	8				8		8				7					7
013/Broadmeadow	116				39															39
014/Tolka	82					7	41						16							7
015/Liffey Lower	122		20	20	11	7	17				7		6						14	6
015/Liffey Upper	412		24	13	11	8	16										21			8
016/Dodder	93					16											8		19	8
018/Dargle	77			13	4	5				5				6					9	4
020/Newcastle	9												3							3
021/Vartry	44		11	11	3	4				3	4				4		6			3
026/Avoca	345		16	11	13	4	11				8			9				15		4
028/Owenavorrigh	95				14			16		5			6				5	5		5
031/Slaney	866			18	11				7		6	6					6			6
033/Corock	95					16					19	16					5			5
034/Owenduff (Wexford)	33				11	5	5				7	7					3			3
037/Barrow	1095	11		13	13	13	10					8		9				9		8
038/Nore	1111				11						9					7			6	6
039/Blackwater (Waterford)	66														6			6		6
041/Lingaun	49										5				5			6		5
042/Glen (Waterford)	16										4									4
043/Suir	1502										13						13			13
044/Clodiagh	86										7				7			7		7
050/Mahon	64		6						8	8				4					6	4
051/Tay	41					7				8	6				5				5	5
053/Colligan	55					11			5		4			4					4	4
055/Lickey	20		5							2					2					2
057/Finisk	59		5								3									3
058/Glenshelane	27	4	4								3						2			2
059/Blackwater (Munster)	1193										4									4
060/Bride	166		8		6				4			4		4				4		4
061/Tourig	17						2								2					2
062/Womanagh	55		5						4			4					4			4
064/Owennacurra	46	3													3		2			2
065/Glashaboy	64																4			4
066/Shournagh/ Martin	122												4					6		4
069/Bandon	309										3									3
070/Argideen	60	3														3		3		3
077/Mealagh	49						4													4

Code/River	Length of Channel >SO1 (from GIS)	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Min
079/Coomhola	69																		5	5
080/Glengarriff	44			5																
081/Adrigole	35							4	3				3						3	3
082/Kealinda	24	8								5					5					5
083/Lough Fada	26	5								4					5					4
084/Croanshagh	55										4								5	4
085/Owenshagh	53							3		5			4		4				4	3
086/Cloonee	18						3	3				3		3					3	3
088/Roughty	199					15													5	5
089/Finni	22						4	4				4		3					3	3
090/Blackwater (Kerry)	81	16	6	5					2										2	2
093/Owreagh	17	3						3	2					2					2	2
097/Currane	78								1											1
098/Inny	85	4		4									4				3		3	3
099/Emlaghmore	15	3								4					4					4
101/Carhan	18	3						2	2					2			2			2
102/Ferta	34	4							3			2		3						2
103/Behy	28	4	3	3	3	3					3			3			3			3
106/Laune	540											5								5
107/Maine	187	3	4													2				2
108/Emlagh	20	5	4	4	4	4					4					4				4
109/Owenascaul	35	6		3				3	3				3		3				3	3
110/Owenalondrig	16			2													2			2
111/Milltown (Kerry)	16		3		2			2		2				2				2		2
112/Feohanagh	29			3				3	2					2				2		2
114/Owenmore (Kerry)	19	1														1				1
115/Glenahoo	12										1						1			1
115/Scorid	11										2						2			2
116/Aghacashla	14										2						2			2
116/Finglas (Camp)	18																4			4
116/Meennascarty	8										2									2
116/Owenamallagh	5										2									2
117/Lee (Kerry)	88		3						5			7					7			5
118/Brick	108	18																		
119/Feale	336							6												6
120/Galey	122			4																
125/Deel	251					3			2			9				5		5		2
126/Maigue	418			7	5			3								4				3
128/Shannon Mulkear	451																		8	8
128/Shannon Old Main Channel	25												1				1			1
130/Owenagarney (Ratty)	89							3	4						4				4	3
131/Fergus	233	12		6	6			3		4						4				3
133/Doonbeg	69				3				3			4					3			3
134/Skivaleen	30					2				3					4			4		2
135/Annageeragh	36							2	2						2			3		2
142/Inagh	121								4	5					4				5	4
143/Aughyvackeen	35					2						2					2			2

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144/Aille	51																10			10
145/Kilcolgan	166			5											7				5	5
146/Clarinbridge	42					6									5					5
147/Corrib Owenriff	53	2														2				2
148/Knock	20					3										3				3
149/Owenboliska (Spiddal)	58		2						3				3			2				2
152/Cashla	49							1												1
154/L. Na Furnace stream	12									3										3
155/Screeb	19											1					1			1
161/Owenmore - Ballinahinch	150														3					3
163/Owenglin	40			2													2			2
167/Culfin	21		3																	
168/Erriff	142	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	6	4	3
171/Carrownisky	42		2				2	2							3		2			2
172/Bunowen	70			23																
173/Owenwee (Belclare)	41				4	5	4							4						4
178/Newport (L. Beltra)	108	9		13					4										4	4
179/Srahmore	69			23																
181/Owengarve	25			6					3	5					2			3		2
185/Owenduff (Bangor)	127								9										6	6
186/Owenmore - MC	201							5												5
186/Owenmore- Carrowmore (Muinhin)	64							3												3
187/Glenamoy	65	5		9														4		4
188/Muingnabo	34	8													8					8
193/Ballinglen	39	7				3		4			3					3		4		3
194/Cloonaghmore (Palmerstown)	121		3		4	3	4	4					4				4		5	3
196/Brusna	103			3				3	4									4		3
198/Leaffony	25	4		2						2							2			2
200/Easky	97																		4	4
203/Garvogue (Bonnet)	257	5	5	5	5	10	6									5	5	5		5
205/Drumcliff	62				3															3
207/Grange	42	8		7						6					6					6
208/Duff	96	9	10	11	9							9	9				5		5	5
211/Abbey	30								2											2
212/Ballintra	83							5	6					10			5		5	5
213/Laghy	47			5				4	4					5			3		3	3
214/Eske	116		8	7	7					5			6					4		4
215/Eany	144				5		7			6										5
216/Oily	46			4		7			4			4			4			4		4
217/Bungosteen	44					4		4				4		6			5		5	4
219/Glen (Ballyshannon)	82				5					6			5		6			4		4
220/Owenwee (Yellow R)	17	2	6	2			4	1						2			1			1
221/Bracky	35		4				3		3						3			2		2
222/Owentocker	43		4														3			3
223/Owenea	124												11				7			7
225/Gweebarra	71																2		2	2
226/Owenamarve	16			2				2	2							3		2		2

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228/Gweedore (Crolly R.)	29		6			2														2
229/Clady	58		10				5											5		5
234/Glenna	19			3		3		3			3					3		3		3
235/Tullaghobegly	17		6		2												2			2
236/Ray	45		6			4			4						3		3			3
240/Lackagh	91		9	8		6	6					8								6
248/Leannan	219	24	8	8	8	8	8	8	8	8		8	6	6	6	6	6	6	6	6
249/Swilly	91		30	5				6	6						5				6	5
250/Isle (Burn)	49						5									5				5
251/Burnfoot	24		6		5											2				2
252/Mill (Letterkenny)	29				10					10						10	10			10
253/Crana	87			4									2				3			2
256/Clonmany	35		9		3					4						3				3
257/Straid	23				5					5						5	5			5
258/Donagh	31				3					3						4	3			3
259/Glennagannon	27			3		2		2									2		2	2
261/Culoort	18				2											3				2
930/Quin	78									4										4

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