Council



Annual Progress Report on Actions taken under the Implementation Plan for the Calendar Year 2023 EU – Ireland

Annual Progress Report on Actions taken under the Implementation Plan for the Calendar Year 2023

The Annual Progress Reports allow NASCO to evaluate progress on actions taken by Parties / jurisdictions to implement its internationally agreed Resolutions, Agreements and Guidelines and, consequently, the achievement of their objectives and actions taken in accordance with the Convention. The following information should be provided through the Annual Progress Reports:

- any changes to the management regime for salmon and consequent changes to the Implementation Plan;
- actions that have been taken under the Implementation Plan in the previous year;
- significant changes to the status of stocks, and a report on catches; and
- actions taken in accordance with the provisions of the Convention.

In completing this Annual Progress Report please refer to the Guidelines for the Preparation and Evaluation of NASCO Implementation Plans and for Reporting on Progress, <u>CNL(18)49</u>.

These reports will be reviewed by the Council. Please complete this form and return it to the Secretariat **no later than 1 April 2024**.

Party:	European Union
Jurisdiction / Region:	Ireland

1: Changes to the Implementation Plan

1.1 Describe any proposed revisions to the Implementation Plan (*Where changes are proposed, the revised Implementation Plans should be submitted to the Secretariat by 1 November*).

1.2 Describe any major new initiatives or achievements for salmon conservation and management that you wish to highlight.

2: Stock status and catches.

2.1 Provide a description of any new factors that may affect the abundance of salmon stocks significantly and, if there has been any significant change in stock status since the development of the Implementation Plan, provide a brief (200 word max) summary of these changes.

The catch advice for the 2023 fishery was that 48 rivers had an advisable harvestable surplus as they were exceeding their conservation limits (CL). A further 20 rivers were advised for opening for catch-and-

release-only (C&R-only) fishing based on exceeding a minimum fry threshold (\geq 17 salmon fry/5 minute electro-fishing average) in catchment-wide electrofishing surveys or that they met 65% or over of their CL but did not exceed their CL. 76 river systems were advised to be closed for fishing as they did not exceed 65% of CL, the minimum fry threshold or there was insufficient information for full stock assessment.

A separate assessment was made for 16 rivers in 2023 with significant multi-sea-winter (MSW) salmon stocks based on the same criteria above. Of these, 11 had an advised harvestable surplus as they were exceeding their CL, four were advised to open for C&R-only fishing and one was advised for closure.

The catch advice for the 2024 fishery which is based on stock status in the preceding five-year period including 2023 is that 43 rivers have a harvestable surplus, 24 rivers are advised as C&R-only fisheries and 77 rivers should be closed to fishing based on the same criteria outlined above.

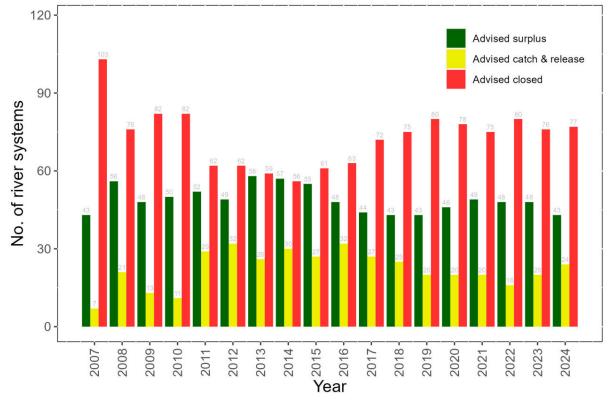


Figure 1. Scientific stock assessments for catch advice in Irish salmon fisheries (2007 to 2024).

There has been no significant changes in stock status since the development of the Implementation Plan.
2.2 Provide the following information on catches: (nominal catch equals reported quantity of salmon caught and retained in tonnes 'round fresh weight' (i.e. weight of whole, ungutted, unfrozen fish) or 'round fresh weight equivalent').

(a) provisional nominal	In-river	Estuarine	Coastal	Total
catch (which may be	22.40	10.90	0	33.30
subject to revision) for				
2023 (tonnes)				
(b) confirmed nominal	28.59	10.95	0	39.54
catch of salmon for 2022				
(tonnes)				
(c) estimated unreported			0	3.33
catch for 2023 (tonnes)				

(d) number		8,786 (51.4%)				
percentage caught and	of salmon released in					
recreationa	l fisheries in					
2023		Actions				
S: Imple	3: Implementation Plan Actions.					
(section Note: Please provide quant ration provide (e.g evalue	3.1 Provide an update on progress on actions relating to the Management of Salmon Fisheries (section 2.9 of the Implementation Plan). Note: the reports under 'Progress on action to date' should provide a brief overview of each action Please report in relation to the reporting year only or the most relevant recent year. For all actions provide clear and concise quantitative information to demonstrate progress. In circumstances where quantitative information cannot be provided for a particular action because of its nature, a clear rationale must be given for not providing quantitative information and other information should be provided to enable progress with that action to be evaluated. While referring to additional materia (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.					
Action F1:	Description of (as submitted i					
		The new RIB fleet and closely working with the Aer Corps at Navy will assist significantly in eradicating any offshore nettin – however should significant returns of salmon materialise t probability of some unscrupulous fishermen making efforts catch fish illegally remains. This is further countered by t careful monitoring of restaurants, smokeries and hotels for t occurrence of wild fish that have not come from a legal source	ng he to he he			
		The following recent investment by IFI will greatly assist achieving SMART actions regarding curtailment of illeg fishing:				
		New offshore RIB fleet; new technologies including use drones; Covert cameras; high power telescopes; therm imaging etc Greater concentration on training of staff at facilities to get RIBs closer to launch points. IFI measure mat metrics including man hours in fisheries protection; number patrols; number of nets seized; length of net; number individuals apprehended; number of fines issued; number prosecutions undertaken etc. IFI ability to achieve all this h been strengthened by the investment in the new technologi and boats over the last two years.	nal nd ny of of of as			
		IFI produce an annual "Protection Plan" which is strong focused on salmon protection; the plan for 2019 has increas focus on salmon protection as a support for the "Internation Year of the Salmon". IFI also have a very mobile reactional staff who can respond to threats or reported incidences of illega activity and a 24 hour hotline operates that can alert staff at an stage to illegal threats.	ed nal ury gal			
		IFI is looking for additional funding in 2019 to expand the dro patrolling programme and get added high resolution therm cameras to aid identifying targets in undergrowth close to rive	nal			

	IFI, subject to funding will secure additional technological equipment in 2019 to further support fisheries protection operations.
	Specific, measurable and timely actions on fishery protection in 2019 are as follows;
	• 6,584 man hours on fishery protection sea patrols
	• 24,517 man hours on fishery protection coastal/estuary patrols
	• 58,613 man hours on fishery protection river patrols
	• 783 boat patrols on fishery protection
	• 19,561 vehicle patrols on fishery protection
	• 135 kayak patrols and 38 drone patrols
	• 881 inspections of commercial salmon licence holders
	• 14,657 inspections of recreational angler licence holders
	This level of activity in fishery protection is expected in each year of the five years over the 2019-2024 period.
Expected outcome (as submitted in the IP)	Increased protection of the salmon resource and a reduction in illegal fishing activities leading to stabilisation and / or increases of salmon stocks nationally.
Approach for monitoring effectiveness & enforcement (as submitted in the IP)	Number of incidence of illegal fishing at sea and in rivers, number of illegal nets seized, number of prosecutions issued. Improvement in the status of rivers.
Progress on action to date (Provide a brief overview	184,561 fishery staff hours were spent on protecting Ireland's fishing resource in 2023 as follows:
with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed	 6,977 staff hours on fishery protection sea patrols 29,791 staff hours on fishery protection coastal/estuary patrols
<i>during the reporting year,</i> <i>this should be made clear.</i>	• 64,903 staff hours on fishery protection river patrols
Other material (e.g. website links) will not be evaluated)	In addition, • 40,334 staff hours on fishery protection foot patrols • 30,852 staff hours on fishery protection lake patrols • 10,418 staff hours on fishery protection bass patrols
	• 785 boat patrols on fishery protection
	 20,550 vehicle patrols on fishery protection 88 kayak patrols and 870 drone patrols
	• 120 PWC patrols on fishery protection
	 503 inspections of commercial salmon licence holders 15,387 inspections of recreational angler licence holders
	This protection work was largely related to Atlantic salmon but fishery patrols were also targeted at other fish species. In 2023, a total of 151 nets were seized measuring a cumulative 5,449 metres in length; 297 Fixed Charge Notices were issued for
	meters in tengen, 277 i ined charge rotices were issued for

		Fishery Offences; and there were 102 fisheries-related
		prosecutions (concluded).
		In mid-2018, IFI announced a €3.3. million investment in 12 new state-of-the-art DELTA 780HX RIBs (Rigid Inflatable Boats) to be delivered on a phased basis for use as fisheries protection and enforcement vessels around Ireland's coastal zone and larger inland lakes. All of these RIBs have now been delivered to IFI and are operational.
	Current status of action	Ongoing
	(Please note: 'Completed'	
	means that the overall	
	action is complete for the lifetime of the third	
	reporting cycle. If it is an	
	ongoing action that is	
	reported on annually, it	
	should be marked as	
	'Ongoing')	
	If 'Completed', has the action achieved its	
	objective?	
Action	Description of action	IFI is actively promoting the returns of accurate catch
F2:	(as submitted in the IP)	information from anglers and commercial fishers through the
		national carcass tagging and logbook scheme. This scheme
		facilitates the collection of catch data for subsequent scientific
		stock assessment purposes and informs associated management decisions on the fisheries status of individual fisheries such as
		the setting of TACs for fisheries where harvest is permitted. IFI
		intends to deliver electronic licences and logbooks by the end of
		2021 specifically to encourage a greater uptake of licences and
		improve reporting rates from angling catches.
	Expected outcome (as submitted in the IP)	On-line system in place, facilitating greater returns of logbooks and increase in uptake of licences.
	Approach for monitoring	Reports issue in relation to the % of logbook returned and these
	effectiveness &	reports are evaluated. The return rate of logbooks from
	enforcement	commercial fishers is 100% in recent years and it is envisaged
	(as submitted in the IP)	that this will continue. Return rates of logbooks from anglers is
		c. 60% in recent years and it is intended that the reporting rate will increase. A proportion of non-return of licences are pursued
		through reminders and potentially through the legal system. Use
		of the system will allow for quicker analysis of data and
		identification of any issues arising leading to better and more
		timely management decisions regarding the protection and
	Des serves an extinuity 1 t	conservation of salmon.
	Progress on action to date (Provide a brief overview	Return of catch information from commercial licence holders was 100% for 2023, the same level as recent preceding years.
	with a quantitative	The return of logbooks by anglers is not yet available but is
	measure, or other justified	estimated at 56% in 2023. In 2022 it was 54.6% which was an
	evaluation, of progress. If	incremental improvement on 2021 (54.6%) but slightly lower
	sub-actions are completed	than 2020 (56.3%) and lower than average logbook returns of
	during the reporting year,	61.8% in the preceding ten-year period (2013-2022).

		1
	this should be made clear.	
	Other material (e.g.	
	website links) will not be	
	evaluated)	
	Current status of action	Ongoing
	(Please note: 'Completed'	
	means that the overall	
	action is complete for the	
	lifetime of the third	
	reporting cycle. If it is an	
	ongoing action that is	
	reported on annually, it	
	should be marked as	
	'Ongoing')	
	If 'Completed', has the	
	action achieved its	
	objective?	
Action	Description of action	IFI's International Year of the Salmon Promotional Plan is in
F3:	(as submitted in the IP)	place and will be delivered in 2019 and will leave legacies into
10.		the future. IFI have an education and outreach programme
		which will raise awareness of the critical state of salmon stocks.
	Expected outcome	Raised awareness of the critical state of salmon stocks.
	(as submitted in the IP)	nationally.
	Approach for monitoring	Measures are in place in the International Year of the Salmon
	effectiveness &	Promotional Plan to assess effectiveness of the plan. IFI are
	enforcement	constantly monitoring the effectiveness of the education and
	(as submitted in the IP)	outreach programme.
	Progress on action to date	A range of IYS related initiatives and events were organised
	(Provide a brief overview	for 2019 to raise awareness of the critical state of salmon
	with a quantitative	stocks and highlight their value, notably:
	measure, or other justified	stocks and highlight then value, hotaoly.
	evaluation, of progress. If	• Launch of IYS by lead Government Minister and associated
	sub-actions are completed	national media PR campaign (five pieces of national media
	during the reporting year,	coverage and 11 pieces of regional coverage. Total reach =
	this should be made clear.	378,366 people).
	Other material (e.g.	576,500 people).
	website links) will not be	• Announcement of 2019 angling regulations (emphasis on
	evaluated)	sustainable salmon angling for IYS. IYS logo placed on all c.
		17,5000 salmon and sea trout licences issued).
		The IFI Citizen Science Salmon Scale Collection Project
		(https://tinyurl.com/u3v4gse). Sample packs were circulated
		with c. 17,000 angling licences issued. Initiative resulted in c.
		700 scale envelope submissions from 20 rivers with a strong
		representation of samples from rivers where monitoring is not
		routine (seven pieces of national and 17 pieces of regional
		media coverage. Total reach = $429,053$). Initiative will
		continue in 2020.
		 IFI managed the administration of the international NASCO
		funding call of €150,000 to promote IYS.
		Full details on IYS activities undertaken in 2019 were provided
		in a submission to NASCO in the standard IYS reporting

	Current status of action (Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as	template (Report on Actions and Activities to Deliver the International Year of the Salmon (IYS) Initiative, September 2018 to December 2019 IYS) and also reported in more detail in the 2020 APR submission.
	<i>'Ongoing')</i> If 'Completed', has the action achieved its objective?	Yes
Action F4:	Description of action (as submitted in the IP)	Permit the operation of mixed-stock commercial fisheries only in estuaries where the stocks of contributing rivers simultaneously exceed the conservation limit (CL) set. As of 2020, only two such fisheries are in operation (Killary Harbour and Castlemaine Harbour) with a third, Tullaghan Bay not operating since 2013. Closely monitor catches in-season as required to minimise over-exploitation and illegal fishing and ensure the return of 100% of commercial fisheries logbooks from such fisheries.
	Expected outcome (as submitted in the IP)	Sustainable exploitation in a very limited number of mixed- stock estuarine fisheries where the CL of constituent river stocks is simultaneously exceeded. Cessation of exploitation where stocks fail to meet CL to facilitate natural stock recovery.
	Approach for monitoring effectiveness & enforcement (as submitted in the IP)	Scientific stock assessments will be conducted annually by the Technical Expert Group on Salmon, the output of which is reported to the North-South Standing Scientific Committee for Inland Fisheries. This body then provides advice to the fisheries management authority (IFI) on the sustainable operation of such fisheries which are formalised <i>via</i> annual regulations. IFI fisheries protection staff will conduct in-season monitoring of catches as required and ensure the 100% reporting of logbooks. All relevant information will be reported annually in TEGOS and IFI reports.
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)	Four mixed-stock commercial fisheries were permitted to operate in 2023 (Castlemaine Harbour, Killary and Owenmore Estuary and Tullaghan Ferry) as their respective contributing river-stocks were all deemed to be simultaneously exceeding their conservation limit by TEGOS. As such, a sustainable surplus was available for exploitation which, if fished, would not affect the conservation status of individual stocks of contributary rivers. All four fisheries were commercially fished in 2023 and none exceeded the total allowable catch set. Catches at all four fisheries were monitored by IFI in-season via the Carcass Tagging and Logbook Scheme and 100% of

	means that action is co lifetime of t reporting cy ongoing act	e: 'Completed' the overall mplete for the he third vcle. If it is an tion that is annually, it	logbooks recording catches from these fisheries in 2023 were submitted to the fisheries authorities. All relevant information referred to above is reported annually in the TEGOS, IFI Catch Statistics and NASCO EU (Ireland) mixed-stock fisheries reports. Ongoing			
	If 'Complet					
	action achie objective?	eved its				
No rep and info for wit	oort in relation t d concise quar ormation canno not providing h that action to	nder 'Progress of o the reporting y atitative informa t be provided for quantitative infor be evaluated. Whe e detailed informa Ireland's River level, correspon Action 1. Agrie The integrated Programme (20 water quality. T on water quality.	on action to date' should provide a brief overview of each action. Please ear only or the most relevant recent year. For all actions, provide clear tion to demonstrate progress. In circumstances where quantitative a particular action because of its nature, a clear rationale must be given rmation and other information should be provided to enable progress ile referring to additional material (e.g. via links to websites) may assist ation, this will not be evaluated by the Review Group. The Basin Management Plan (RBMP) 2018-2021 sets out, on a national noting actions that will be taken to address identified pressures. cultural Pollution Governmental approach to the enforcement of the Nitrates Action 18–2021) will be implemented with the aim of protecting and improving there will be increased targeting of inspections by local authorities based by results and the outputs of the RBMP characterisation process. It is a Nitrates Action Programme plan for the period 2022-2024 will follow h.			
		Action 2 Dome	estic Waste Water Pollution			
		2021) will cont	The National Inspection Plan for Domestic Waste Water Treatment Systems (2018–2021) will continue with over 4,000 inspections carried out by local authorities over this period. It is envisaged that a further plan from 2022-2024 will follow.			
		water projects, million for 25 investment in c	2017–2021, Irish Water will invest approximately $\notin 1.7$ billion in waste- programmes and asset maintenance. This investment will include $\notin 880$ 5 major waste-water treatment projects, $\notin 350$ million for capital ollection systems in 41 areas and $\notin 465$ million for capital maintenance grade programmes. Further investment is envisaged post-2021.			
	Expected outcome	Plan for Irela achievement of	provement in water quality nationally. The River Basin Management and 2018-2021 sets out detailed expected outcomes concerning f improved water quality, including upgrade of urban waste water s and increased investment in Ireland's waste water infrastructure. These			

(as submitted in the IP)	include 726 water bodies to achieve general water quality improvements and 152 water bodies to experience improved water quality status.
Approach for monitoring effectiveness & enforcement (as submitted in the IP)	The EPA monitor and publish periodic reports on water quality status nationally and progress on achieving the objectives of the Water Framework Directive. This is the principal indicator to measure the efficacy of the Nitrates Action Programme and domestic wastewater actions and associated water quality initiatives. Irish Water periodically publish details of investment plans, capital maintenance and national upgrade programmes in their annual reports and related publications. The Local Authorities, Waters Programme (LAWPRO) are responsible for undertaking and enforcing WFD Programmes of Measures and are carrying out a significant number of investigative assessments in identified areas for action. IFI undertake annual fish monitoring in designated water bodies for WFD reporting. These results are reported annually.
Progress on action to date (Provide a	Action 1 Agricultural Pollution In 2023, the EPA published a report on lake, river and estuarine water quality for the year 2022. This followed an assessment report published in 2022 documenting trends in water quality for the five-year period 2016-2021.
brief overview with a quantitative measure, or other justified evaluation, of progress. If sub- actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)	 Findings for the year 2022 revealed no significant changes in lake or river water quality compared to the previous assessment period. 40% of rivers nationally have excessively high nitrate concentrations and average nitrate levels in rivers nationally increased between 2021 and 2022. 28% of rivers and 36% of lakes have excessively high phosphate concentrations. Intensive agricultural activities are the primary cause of nitrate levels whilst wastewater discharge and agricultural run-off contribute primarily to high phosphate levels. Phosphate levels have generally stabilised over recent years; nitrate levels have continued to trend upwards Overall, 44% of assessed river water bodies were in moderate, poor or bad quality owing to water quality status. The EPA have widely stressed the urgency in ameliorating these water quality declines. The third River Basin Management Plan for 2022-2027 underwent public consultation in 2022 but is still currently in review and has not yet been finalised/published as of 01 March 2024. It was stressed that the plan needs to include a firm commitment to address the main causes of poor water quality and include clear deliverables and timelines. The fifth Nitrates Action Programme for 2022-2025 was published in 2022 and must be fully implemented to halt worsening water quality principally arising from intensive agriculture. To support this, the EPA will develop and implement a National Agricultural Inspection Programme for local authorities.
	 Action 2 Domestic Waste Water Pollution The EPA publish a Domestic Waste Water Treatment System Inspections report each year. The most recent 2023 report evaluated inspections made during 2022: 1143 inspections were made, a very slight decrease over the previous year (1147). 49% of systems failed. 20% of systems were deemed a risk to the environment. Primary reasons for failure related to operational issues (lack of maintenance) or structural defects (leaks, illegal discharges to waterbodies) 78% of systems that failed during 2013-2022 were fixed by the end of 2022.

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for 2022-2026 nere there is a l also increase that are not n accordance
ocument barriers g to the risk they itised restoration
obliged to carry s. Annually, the ls in its network, s to minimise cant retention of ty in appropriate

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Expected	Improveme	Improvement in salmon habitat quality and fish passage.				
outcome (<i>as</i>						
submitted	in					
the IP)						
Approach	Action 1: T	Action 1: The IFI Barriers programme will report annually on numbers of Barriers to				
for		e identified and		1	5	
monitoring		he OPW will re	port annually	, on the KM	ls of drained ch	annels maintained
effectiven	200	vironmental dr				anners mannamed
&	e	ivironnentar a	uniuge munit	entance prov		
enforceme	ent					
(as	<i></i>					
submitted the IP)	in					
Progress of	n Action 1. T	he National Ba	rrier Program	me (NRP)	has received fun	ding from the Irish
action to					to build on the n	
date						eakdown below).
(Provide a		•		•		ssment application.
brief	The NBP ha	as also identifie	ed 30 large pr	iority struct	ures for remova	l or mitigation by
overview			•	•	•	s surveyed 33,585
with a					tified as barriers	to fish passage
quantitati	· ·	culvert, weir, fo	ord, sluice etc).		
measure, o	or l					
other						
other	<u>/</u>		22 505		20 707	₹2,200
justified	Filters Barfor	Tot	33,585 tal Assessed Structures		39,797 To be Assessed	≡ 73,382 Total Potential Barriers
justified evaluation	Barrier No category selected			For Review		
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Barrier Remedial Works 2010 - 2024	Number
Works completed	48
In construction	2
Design stage	16
Planning stage	23
Delayed	3
Barrier collapsed	3
Total number	95

Action 2: The most recent information available on this action is published in the Environmental River Enhancement Programme (EREP) Annual Report 2022 and is summarised as follows:

- The year 2022 was the final in the current five-year EREP agreement between the Office of Public Works (OPW) and Inland Fisheries Ireland (IFI). It is envisaged that another agreement will be made between IFI and the OPW to continue the EREP work, share information on issues within drained catchments pertinent to the Water Framework Directive (WFD) such as fish passage barriers, hydromorphology and fish ecological status in order to inform mitigation measures.

- Detailed catchment-scale survey of the Lung catchment, part of the Boyle Arterial Drainage Scheme. 20 bank-based and 8 boat-based sites were surveyed for fish status. Regarding classification, the Ecological Quality Ratio results indicate that 38% of the sites on the Lung meet the minimum requirements of Good status, with half of these being High. The remainder of fishing sites were classified as Moderate, Poor and Bad status. 32 sites were surveyed using the River Hydromorphology Assessment Technique, and 22% of these were classified as Good with the remainder being Moderate and Poor. As part of the hydromorphological investigations, longitudinal connectivity in the catchment was assessed using IFI's Barrier Assessment and Screening Tool. There were 1,119 potential barriers identified during the survey and 93% of these were assessed. Of those surveyed to date, 97 (9.4%) were surveyed as barriers to fish passage, comprising 82 bridge aprons/culverts, 14 weirs and 1 ford.

- The River Stonyford survey site, a part of the River Boyne arterial drainage scheme was re-visited and a new method trialled to geo-reference physical habitat variables which was deemed suitable for fine scale assessments. The physical survey demonstrated that suitable river substrate is present to various degrees in all of the sites, and that this type of habitat is suitable for all life stages of the resident salmonid stock.

- Results were collated together for all catchment-wide surveys completed under the EREP since 2017. The catchment-wide survey approach involves electro-fishing, hydromorphology and barrier surveys in sites on OPW scheme channels and outside of the scheme but within the same watershed. 198 sites were fished across all five catchments, with only 37 sites achieving Good or High status, as required under the Water Framework Directive. This is a concerning result as it equates to just under 19% of all sites. As regards the hydromorphological status, 157 surveys were completed in the five catchments. Again, a low proportion of sites achieved Good status or higher, 19% in all equating to just 30 sites. 4,961 potential barriers to fish

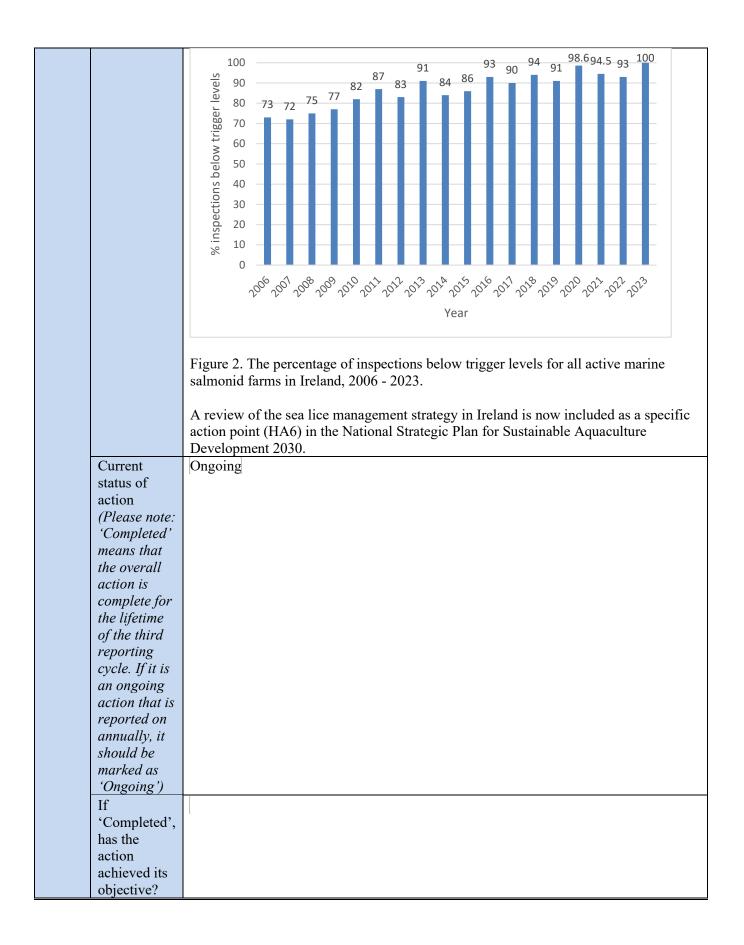
		passage were surveyed across the five catchments. In total, there are 444 barriers, meaning 8.9% of sites visited are problematic to various degrees for fish passage.
		incaring 8.976 of sites visited are problemate to various degrees for fish passage.
		The most recent annual report published on river drainage activities by the OPW is for
		the year 2022. 2049 km of river channel was maintained under the drainage scheme;
		however the kms of drained channels maintained using the environmental drainage
		maintenance procedures was not reported.
	Current	Ongoing
	status of	
	action	
	(Please note:	
	'Completed'	
	means that	
	the overall	
	action is	
	complete for	
	the lifetime	
	of the third reporting	
	cycle. If it is	
	an ongoing	
	action that is	
	reported on	
	annually, it	
	should be	
	marked as	
	'Ongoing')	
	If	
	'Completed',	
	has the	
	action	
	achieved its	
	objective?	
Action H3:	Description of action	IFI have initiated an evidence-based assessment programme to determine the impact of climate change on the Irish fisheries. This programme will establish index catchments
пз:	(as	for fisheries-related climate change research and associated fisheries policies will be
	submitted in	developed.
	the IP)	
	Expected	IFI – Series of vulnerability risk assessment maps for key fish species including salmon
	outcome	and informed targeted measures.
	(as	Mitigation measures to protect vulnerable fish species such as Atlantic salmon.
	submitted in	wingation measures to protect vulnerable fish species such as Atlantic samon.
	the IP)	
	Approach	IFI – A work programme has been developed with a series of deliverables and will be
	for	monitored through a steering group within IFI.
	monitoring	Details project plans and deliverables will be reviewed annually.
	effectiveness &	
	& enforcement	
	emoreement	1

(as	
submitted in	
the IP)	
Progress on	IFI established a research programme in 2019 to ascertain the impacts of climate
action to	change on Irish fish stocks including salmonids. In late 2020 funding was received
date	from the Office of Public Works to examine climate resilience of fisheries in drained
(Provide a	catchments.
brief	To date the two programmes have initiated a nationwide environmental monitoring
overview with a quantitative measure, or other justified evaluation, of progress.	network in 12 catchments including two state-of-the-art lake monitoring platforms in regionally important salmonid lakes. There are currently c. 380 environmental sensors collecting data in salmonid river habitat across Ireland, measuring a range of parameters including water temperature, water levels, dissolved oxygen and meteorological data. In 2023 calibration and data management processes were developed and improved. Spatial-temporal statistical models of catchment-wide stream temperatures are being developed to identify channels most at-risk from climate change impacts. These models and other data analyses will also identify river
If sub-	reaches to protect (i.e. channels that are potentially resilient to rising water
actions are	temperatures). Resulting habitat 'risk maps' are informing the development of targeted
completed	measures and fisheries policies will be produced at a later stage in this programme of
during the	work.
reporting	
year, this	Data collected so far has allowed the preliminary delineation of cold-water refuges
should be	and vulnerable river reaches experiencing excessively warm temperatures in a number
made clear.	of important Atlantic salmon catchments including the Erriff (National Salmonid
Other	Index Catchment) and the River Boyne.
material	A climate change vulnerability assessment for Ireland's freshwater fish species was
(e.g. website	published in 2022. Results highlight the high vulnerability of Atlantic salmon to
links) will	climate change, further emphasising the need for climate mitigation solutions in
not be	salmon rivers.
evaluated)	
Current	Ongoing
status of	
action	
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	has the	
	action	
	achieved its	
	objective?	
Action H4:	Description of action	Invasive Species Action 1.
	(as	
	submitted in the IP)	The EU Regulation (1143/2014) on "the prevention and management of the introduction and spread of invasive alien species" will be implemented.
		Action 2.
		Development and evaluation of survey techniques to assess the extent of infestation of Curly-leaved waterweed in Lough Corrib and monitor the efficacy of control measures undertaken there.
	Expected outcome (as	Action 1: Development of a more coherent and co-ordinated national approach to IAS management that will facilitate better communication and collaboration between relevant authorities.
	submitted in the IP)	Action 2: Survey techniques will be developed and evaluated to assess the extent of infestation of Curly-leaved waterweed in Lough Corrib and monitor the efficacy of control measures undertaken there.
	Approach for monitoring effectiveness & enforcement	Action 1: The Department of Culture, Heritage, and the Gaeltacht in consultation with other relevant Departments (notably the Department of Communications, Climate Action and Environment) will oversee the implementation of this action.
		Action 2: As the lead participant, IFI will manage the implementation of this programme and report annually on the progress made.
	(as submitted in the IP)	
	Progress on action to date (Provide a brief overview with a quantitative measure, or	Action 1: Following public consultation, Ireland's 4th National Biodiversty Plan (covering 2023-2027 period) was published in January 2024. The plan includes a specific target outcome to be achieved by 2030 related to the control, management, and where possible, eradication of IAS on an all-island basis (Outcome 2H). Specific intended actions toward achieving this outcome will include establishment of an IAS unit within the National Parks and Wildlife Service and the development of a national plan to implement aspects of the EU IAS Regulation 1143/2014, which as of 2024 has not yet been implemented for Ireland.
	other justified evaluation, of progress. If sub- actions are completed	Action 2: The Inland Fisheries Ireland Curly-leaved waterweed (Lagarosiphon major) research programme in Lough Corrib concluded in 2021. The final report covering the project progress over 2018-2020 was published in 2023 (Lagarosiphon Research on Lough Corrib (LARC) - Final Report 2018-2020). Results and recommendations from the work have helped to inform management of the issue, which is currently ongoing and subject to operational efforts to harvest and control curly-leaved waterweed in the lake.
	during the reporting year, this should be made clear. Other	

	material	
	(e.g. website	
	links) will	
	not be	
	evaluated)	
	Current	Ongoing
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2.2 Dm		a on progress on exting relating to Aqueoulture Introductions and Transform and
		e on progress on actions relating to Aquaculture, Introductions and Transfers and
		ion 4.11 of the Implementation Plan).
		under 'Progress on action to date' should provide a brief overview of each action. Please
-		to the reporting year only or the most relevant recent year. For all actions, provide clear
		ntitative information to demonstrate progress. In circumstances where quantitative t be provided for a particular action because of its nature, a clear rationale must be given
		quantitative information and other information should be provided to enable progress
		be evaluated. While referring to additional material (e.g. via links to websites) may assist
		e detailed information, this will not be evaluated by the Review Group.
Action	Description	Salmon lice infestation: aspire to 100% of inspections below mandatory trigger levels.
A1:	of action	The Department of Agriculture, Fisheries and Food "Strategy for Improved Pest Control
	(as	in Irish salmon farms, 2008", aims to enhance the control of salmon lice infestations on
	submitted in	Irish salmon farms by the creation of a "real time" management regime. This regime is
	the IP)	intended to vigorously deal with failures to control sea lice infestations on a case-by-case
		basis. The strategy and the accompanying <i>Monitoring Protocol No. 3 Sea Lice Monitoring</i>
		& Control will be revised resulting in consistent and vigorous control of salmon lice
	Everente 1	infestations on marine farms.
	Expected	Reduced sea lice levels on farmed salmon.
	outcome	

(as		
	itted in	
the II		
Appr	oach All farms are	inspected monthly (bi-monthly from March to May) and a monthly report
for	circulated. Br	eaches of the trigger levels are notified to the farm and the regulator.
moni		preaches are dealt with through a Management Cell which may result in
	e	uld the farm fail to control the lice levels.
&		
enfor	cement	
(as	content	
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the II		
	/	
Ŭ		spection regime, performed by the Marine Institute on behalf of the
action	,	s the inspection and sampling of each year class of fish at all fish farm
date		per annum - twice per month during March, April and May and monthly
``		nder of the year, except December-January. Only one inspection is
brief		ring this period. Trends in sea lice infestation on farmed fish (Figure 1)
overv	1	eak period for wild salmon smolt migration, have shown a general
with a	a downward tre	nd since the introduction of the pest management strategy in 2008.
quan	titative	
meas	ure, or <u>ب</u> ^{3.0}	
other	2.5 -	 Ovigerous L. salmonis (±SE) Self reported data
justif	ied 5 2.0	
evalu	ation,	
of pro	$\begin{array}{c} 3.0\\ \hline ation,\\ \ ogress.\\ \ brace \\ \ ms \ are \\ \end{array}$	
If sub	- S 1.0	
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comp	latad 0.0	t Ω Θ Γ 8 0 0 1 0 m 4 Ω Θ Γ 8 0 0 1 0 m 4 Ω Θ Γ 8 0 0 1 0 m 7 m 4 Ω Θ Γ 8 0 0 1 0 m 4 Ω Θ Γ 8 0 0 0 1 0 m 4 Ω Θ Γ 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
durin		Page 11995 11955 1
repor	8	rage national May-mean adult female egg bearing salmon lice per fish,
year,		rage national trug mean daar temate egg oournig sunnon nee per fish,
shoul		
		nstitute issues a monthly report of sea lice levels an all active marine
Other		nd and publishes an Open Access annual report as part of the Irish
mater		
		etin series. Since 2006 there has been a gradual increase in the number
, 0		below trigger levels (Figure 2). No breaches of the trigger levels were
links)		J23.
not be		
evalu	ated)	



A	D	
Action A2:	Description of action	In April 2016, DAFM brought in a <i>Protocol for Structural Design of Marine Finfish</i> <i>Farms</i> to standardise an improved structural design process for marine finfish farm
A2.	(as	installations in Ireland to apply to all new or renewal licence applications.
	submitted in	
	the IP)	A new <i>Protocol</i> for reporting and investigating farmed escape incidences is planned. This <i>Protocol</i> will apply to all facilities, both marine and freshwater.
	Expected outcome (as submitted in the IP)	Increased awareness of the impact of escapes and improved reporting in line with new protocol.
	Approach for monitoring effectiveness	Compliance with the <i>Protocol for Structural Design of Marine Finfish Farms</i> is monitored by the Marine Engineering Division of DAFM.
	& enforcement (<i>as</i> <i>submitted in</i>	
	the IP)	
	Progress on action to	There were no officially reported escapes of farmed Atlantic salmon in Ireland in 2023.
	date (Provide a brief overview with a	The development of a formal protocol for the reporting and investigation of fish farm escapes is now included as a specific action point (HA7) in the National Strategic Plan for Sustainable Aquaculture Development 2030.
	quantitative measure, or other	
	justified evaluation,	
	of progress. If sub- actions are	
	completed during the	
	reporting year, this should be	
	made clear. Other material	
	(e.g. website links) will	
	not be	
	evaluated)	
	Current status of	Ongoing
	status of action	
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If	
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achieved its	
objective?	
Description	Regulation (EU) 2016/429 ("Animal Health Law") is the statutory framework within
of action	which aquatic diseases are regulated in Europe. Under Implementing Regulation (EU)
(as	2021/620 Ireland is declared free from all listed salmonid diseases. This includes ISA,
<i>submitted in</i>	VHS, IHN. Ireland undertakes an active monitoring programme for these diseases in
the IP)	farmed salmon. Ireland has also applied additional national measures for BKD and G. salaris and is dealared free from these diseases in Regulation (FLD 2021/260, An estimate
	<i>salaris</i> and is declared free from these diseases in Regulation (EU) 2021/260. An active monitoring programme for the presence of <i>G. salaris</i> in wild salmonids is undertaken
	annually. In addition to the regulatory controls to prevent the introduction of these
	diseases, a Code of Practice has been agreed between industry and government in
	relation to general fish health management. A Fish Health Handbook has been devised
	which provides guidance in relation to the control and management of non-listed
	diseases on salmonid farms. The proactive disease control and stock management
	principles outlined in the Handbook have been applied by industry since 2012.
	In recent years, since the principles of the Handbook have been implemented, the
	incidence of diseases such as Pancreas Disease and IPN have declined. However, gill
	related disorders continue to be a significant issue on salmon farms. These disorders are
	believed to be impacted to some degree by water temperatures and significant phyto and
	zooplankton blooms. Amoebic Gill Disease (AGD) caused by infection with the
	protozoan parasite Neoparamoeba.perurans has been associated with mortality in
	farmed salmon in recent years, due in large part to the lack of availability of freshwater
	treatments. Significant resources are however being invested in developing
	infrastructure to ensure that treatments can be carried out, which will significantly
	decrease infection pressure.
	-
	Amoeba has been occasionally recorded on wild salmon but do not appear to have
	caused any negative impact. The condition is best treated with freshwater baths so any
	adult salmon returning to freshwater will be appropriately treated, should they have been
	infected. Temperatures above 10°C are thought to trigger the disease, but Scottish
	outbreaks have occurred at temperatures from 7.5°C. This raises the possibility of wild
	outbreaks have occurred at temperatures from 7.5°C. This raises the possibility of wild salmon smolts being infected in the vicinity of salmon farms in spring, although there
	outbreaks have occurred at temperatures from 7.5°C. This raises the possibility of wild

Expected	Maintenance of disease free status for major diseases of salmonids listed in Regulation
outcome	2016/429 and for which Ireland is declared disease free under national Measures (BKD
(as	and G. salaris).
submitted in	Reduced incidence of disease outbreaks in aquaculture facilities.
the IP)	Reduced merdence of disease outoreaks in aquaculture facilities.
	This involves intensive menitoring and emplication of logislation recording control of
Approach	This involves intensive monitoring and application of legislation regarding control of
for	disease and adherence to the agreed Code of Practice.
monitoring	
effectiveness	
&	
enforcement	
(as	
submitted in	
the IP)	
Progress on	Ireland continues to maintain disease freedom from major diseases of salmonids listed
action to	in Regulation (EU) 2016/429 and for which Ireland is declared disease free under
date	national Measures (BKD and G. salaris).
(Provide a	
brief	Incidence of disease outbreaks (other than listed diseases) in aquaculture facilities is
overview	monitored through voluntary reporting and from annual health surveillance visits
with a	under taken as required in Regulation (EU) 2016/429. Available evidence suggests
quantitative	that incidence of non-listed disease in aquaculture establishments overall remains at a
measure, or	consistent level. However, in 2023 there was a number of occurrences of salmon
other	rickettsial septicaemia (SRS) caused by Piscirickettsia salmonis on some salmon
justified	farms. These outbreaks were managed by private veterinary services. The incidence of
evaluation,	SRS in 2024 will be monitored during annual health surveillance visits under taken as
of progress.	required in Regulation (EU) 2016/429
If sub-	
actions are	
completed	
during the	
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made clear.	
Other	
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action that is
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should be
marked as
'Ongoing')
If
'Completed',
has the
action
achieved its
objective?

4:	Additional information required under the Convention
4.1	Details of any laws, regulations and programmes that have been adopted or repealed since the last notification.
4.2	Details of any new commitments concerning the adoption or maintenance in force for specified periods of time of conservation, restoration, and other management measures.
4.3	Details of any new actions to prohibit fishing for salmon beyond 12 nautical miles.
4.4	Details of any new actions to invite the attention of States not party to the Convention to matters relating to the activities of its vessels which could adversely affect salmon stocks subject to the Convention.
4.5	Details of any actions taken to implement regulatory measures under Article 13 of the Convention including imposition of adequate penalties for violations.
Nor	th American Commission Members only:
4.6	Details of any new measures to minimise bycatches of salmon originating in the rivers of the other member.
4.7	Details of any alteration to fishing patterns that result in the initiation of fishing or increase in catches of salmon originating in the rivers of another Party except with the consent of the latter.