Council



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:	United Kingdom
Jurisdiction / Region:	Northern Ireland

1:	Changes to the Implementation Plan
1.1	Describe any proposed revisions to the Implementation Plan (<i>Where changes are proposed, the revised Implementation Plans should be submitted to the Secretariat by 1 November</i>).
N/A	<u> </u>
1.2	Describe any major new initiatives or achievements for salmon conservation and
	management that you wish to highlight.
N/A	

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 salmon returns to Northern Ireland in 2023 were amongst the lowest recorded in modern times. The return of 1SW salmon was particularly poor and underpinned the low returns. The marine survival estimate

for 1SW salmon on the River Bush stock (2.1%) was the lowest recorded since the time-series began in 1986.

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').

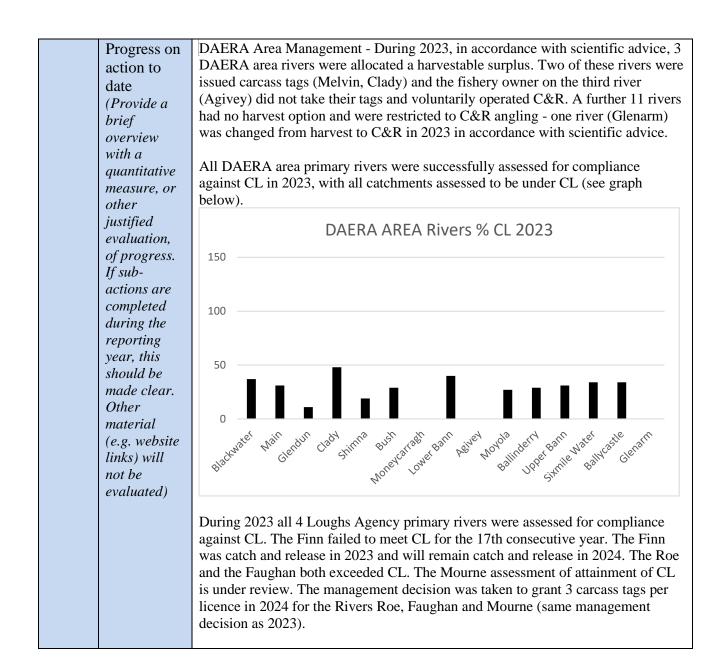
or round fresh weight equivalent).				
(a) provisional nominal	In-river	Estuarine	Coastal	Total
catch (which may be	0.8	0	0	0.8
subject to revision) for				
2023 (tonnes)				
(b) confirmed nominal	0.8	0	0	0.8
catch of salmon for 2022				
(tonnes)				
(c) estimated unreported	0.1	0	0	0.1
catch for 2023 (tonnes)				
(d) number and	DAERA area	591 salmon C	&R (96% C&R)	
percentage of salmon	Loughs Agency area 2420 salmon C&R (82% C&R)			
caught and released in				
recreational fisheries in				
2023				

3: Implementation Plan Actions.

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 material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.

Action	Description	The target is to manage the 18 primary rivers affected by both commercial and
F1:	of action	recreational fisheries to exceed their CLs.
	(as submitted	
	in the IP)	
	Expected	More primary salmon rivers increasing their adult returns and exceeding their CLs.
	outcome	
	(as submitted	
	in the IP)	
	Approach	Primary salmon rivers are assessed for compliance against Cls annually and this
	for	will be reported in the APR. Legislation used to maintain rivers as catch and release
	monitoring	only fisheries unless individual river MTs are met on a consistent basis to allow
	effectivenes	harvest options.
	s &	
	enforcemen	
	t	
	(as submitted	
	in the IP)	



		Loughs Agency Rivers % CL 2023
		200
		150
		100
		50
		0
		Finn Mourne Roe Faughan
	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	Ongoing
	<i>'Ongoing')</i> If 'Completed ', has the action achieved its objective?	
Action F2:	Description of action (as submitted in the IP)	Update Conservation limits and Management targets for 3 primary salmon rivers in Northern Ireland using refreshed habitat data.
	Expected outcome	To update CLs for the 3 rivers identified in Section 1.5.

(as submitted	
in the IP)	
Approach for	To review CLs once new habitat data is available and to report rivers which have had their CLs updated in the APR report.
monitoring	
effectivenes	
s &	
enforcemen	
t	
(as submitted	
in the IP)	
Progress on	During this IP reporting period 4 DAERA area rivers have had CL's reviewed
action to	using new stock & recruitment datasets (Main, U Bann, Blackwater & Sixmile).
date	In addition physical habitat surveys are currently being refreshed on the Glendun
(Provide a	river.
brief	Loughs Agency will be undertaking physical surveys to assess the efficiency of
overview	the Mourne fish counter in 2024.
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)	
Current	Ongoing
status of	
action	
(Please note:	
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means that	
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complete for	
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of the third	
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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	Maintain the Long Term Monitoring of Wild Salmon Stock on the R Bush - used
F3:	of action	as an Index River for NI.
	(as submitted	
	in the IP)	
	Expected	Maintain and build the long term dataset of adult returns, smolt migration, stock
	outcome	recruitment data, freshwater survival, marine survival, biological characteristics of
	(as submitted	the R Bush stock over the 5 year period.
	in the IP)	V A
	Approach	Full time adult trap in place and smolt trap for smolt run period, an annual
	for	programme of juvenile fry surveys of the main spawning areas and an annual
	monitoring	assessment of both freshwater and marine survival for R Bush stocks. Data collected
	effectivenes	provided to the public once completed. This will also be reported as part of the
	s &	NASCO APR process.
	enforcemen	
	l (an aubmitted	
	(as submitted)	
	<i>in the IP</i>)	All the long-term monitoring datasets were completed and updated for 2023. The
	Progress on	smolt run on the River Bush was enumerated at 15,404 fish in 2023. This was
	action to	dominated by $2+$ smolts which accounted for >85 % of the total run. The total
	date	adult return of wild salmon to the Bush river in 2023 was 496 with c. 88% classed
	(Provide a	as 1 Seawinter grilse. The marine survival for the 2022 smolt cohort (1 Seawinter
	brief overview	returns in 2023) was 2.1% and represented the lowest ever recorded in the current
	overview with a	time series. The average weight of 1SW salmon returning to the river Bush was
	quantitative	1.82kg in 2023.
	measure, or	
	other	
	justified	
	evaluation,	
	of progress.	
	If sub-	
	actions are	
	completed	
	during the	
	reporting	
	year, this	
	should be	

	7 7	
	made clear.	
	Other	
	material	
	(e.g. website	
	links) will	
	not be	
	evaluated)	
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	cycle. If it is	
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	should be	
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	'Ongoing')	
	If	
	'Completed	
	', has the	
	action	
	achieved its	
A (*	objective?	
	Description	To assess mortality of wild salmon smolts moving from the freshwater to the marine
F4:	of action	environment.
	(as submitted	
	in the IP)	
	Expected	To assess riverine mortality and identify possible areas of losses.
	outcome	
	(as submitted	
	in the IP)	
	Approach	Acoustic and radio telemetry studies of smolts actively monitored in freshwater and
	for	into the marine environment using automatic listening stations. Reports completed
	monitoring	on each study carried out and this will be reported as part of the NASCO APR
	effectivenes	process.
	s &	
	enforcemen	
	t	
	(as submitted	
	in the IP)	

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Progress on	A batch of 100 river Bush salmon smolts were tagged with acoustic tags to assess
action to	mortality of wild salmon smolts moving from the freshwater to the marine
date	environment. Riverine mortality estimates were relatively low in spring 2023 with
(Provide a	14% of tagged smolts lost in the Lower river Bush during downstream migration.
brief	The in-river loss rates were relatively low in 2023 (c. 3.8%/km) and were similar
overview	to the levels recorded in the previous season. These data contribute to a
with a	developing time-series for the River Bush and are currently being included for
quantitative	publication in a peer-review journal paper.
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	
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Current	Ongoing
status of	
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the overall	
action is	
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an ongoing	
action that is	
reported on	
annually, it	
should be	
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'Ongoing')	
If	
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', has the	
action	
action	<u> </u>

	achieved its	
	objective?	
Action F5:	Description of action (as submitted in the IP)	To improve recreational catch returns and statistics from the current baseline of 5 - 10% to 30%.
	Expected outcome (as submitted in the IP)	To increase catch returns / data for recreational caught salmon.
	Approach for monitoring effectivenes s & enforcemen t (<i>as submitted</i>	Monitoring use of digital licensing system and any trends in the number of catch returns completed by recreational anglers. To encourage anglers to report catches by issuing reminder notices to angling clubs and fishery owners. To obtain catch data from fishery owners and angling clubs for catchments. Data on catch returns to be reported as part of the APR.
	in the IP)	
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub- actions are	Catch returns from anglers for the DAERA area have remained close to zero and this trend continues despite regular reminders to anglers of the value of this information. A game licence also permits fishing for stocked game fisheries (including trout and rainbow trout) as well as wild fish with many anglers preferring to fish only stocked game fisheries. There is a concern that the number of salmon anglers as well as increasing in age profile may also be decreasing though there is no data to support this. The current method for reporting is currently not linked to the licence records which makes reporting cumbersome. It is planned to review both the reporting process and the legal requirements around reporting salmon catches as soon as resources allow. Angling catch returns are currently predominantly obtained directly from fishery owners as they often retain a good record for their own purposes and DAERA has a high confidence in both this data alongside the reported nominal catch data provided earlier.
	completed during the reporting year, 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	
		1
	'Completed	
	', has the	
	action	
	achieved its	
	objective?	
Action	Description	To protect wild salmon stocks from illegal activity which includes illegal fishing,
F6:	of action	illegal river works etc.
10.	(as submitted	
	in the IP)	
		To protect salmon stocks by detecting, deterring and disrupting any illegal activity
	Expected	directed at damaging or removing salmon stocks subject available resources.
	outcome	unected at damaging of removing samon stocks subject available resources.
	(as submitted	
	in the IP)	
	Approach	Difficult to put in a smart target here but a qualitative measure is appropriate.
	for	Enforcement activities are recorded and the number of patrols / enforcement
	monitoring	outcomes are compiled and regularly reported annually. There is a good
	effectivenes	communication / co-operation system in place between fisheries agencies (Loughs
	s &	Agency, Inland Fisheries Ireland (IFI) and DAERA) and also with angling clubs /
	enforcemen	fishery owners which can help identify illegal fishing activity. A 24 hour telephone
	t	service is available to report illegal fishing activity and on call staff can respond if
	(as submitted	required. The number of patrols carried out and detections made will be reported as
	in the IP)	part of the NASCO APR process.
		Organised enforcement patrols (on land and water) are carried out in both the
	Progress on	DAERA and LA areas to deter, disrupt and detect illegal fishing or other
	action to	activities.
	date	In 2023, 2808 patrols were carried out in the DAERA area. A total of 3 illegal nets
	(Provide a	were seized and any illegal caught salmon were released unharmed. In addition 24
	brief .	
	overview	inspections were carried out on commercial premises where salmon can be bought or sold.
	with a	or solu.
	quantitative	In the Foyle and Carlingford area, 830 patrols were carried out on land, with 76
	measure, or	patrols carried out by vessel. Loughs Agency also operated a 24 hour pollution
	other	and protection hotline. These patrols have resulted in the following seizures from

justified	those fishing illegally - 32 nets, 39 fishing rods, 3 boats and cars used in illegal
evaluation,	fishing activity, and 13 salmonid fish.
of progress.	Tishing activity, and 15 samonid fish.
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	Ongoing
status of	
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(Please note:	
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of the third	
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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?	

3.2 Provide an update on progress on actions relating to Habitat Protection and Restoration (section 3.5 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 material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.

evalu	ated by the Review Group.	
Action H1:	Description of action (as submitted in the IP) Expected outcome (as submitted in the IP) Approach for monitoring effectiveness & enforcement (as submitted in the IP)	To assess and provide fishery advice for 100% of River drainage maintenance schemes to protect salmon habitat and to incorporate mitigation / improvement measures where possible. Ensure sensitive / mitigated engineering solutions to maintain or where possible seek opportunities to restore or enhance salmonid habitat. Both DAERA and LA are informed in advance of river maintenance works and provide advice to ensure the protection of fish habitat present. There is regular monitoring and inspection of stretches where river drainage maintenance works and or habitat improvements are carried out. Rivers maintenance schemes where advice is provided and improvements carried out
	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)	will be reported as part of the NASCO APR process. Fisheries advice was provided for the 2023 DFI river drainage maintenance works programme in both the DAERA and Loughs Agency areas to ensure protection of fish stocks and habitat at the sites where works were carried out. Quarterly meetings are held with DFI Rivers to discuss the ongoing maintenance programme and to ensure the works planned are not detrimental to fish stocks. Loughs Agency is regularly consulted by River maintenance and planning authorities and has a robust consultation response program
	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 'Ongoing') If 'Completed', has the action achieved its	Ongoing
Action H2:	objective?Description of action (as submitted in the IP)	Management and control of water quality in salmon producing rivers in NI – the target is to have 70% of rivers at good ecological status by 2021.

-	cted outcome bmitted in the IP)	Protection against degradation of salmonid habitat through pollution or waste disposals.
Appro monit & enf	oach for oring effectiveness forcement <i>bmitted in the IP</i>)	Water quality is regularly assessed and reported on as part of the EU WFD requirements. All discharges are licensed and conditions of that licence are regularly assessed for compliance. Enforcement action maybe taken for non compliance issues. Pollution incidents are investigated and appropriate enforcement action may be taken which in some cases may result in a criminal prosecution for offenders. All enforcement activity is regularly reported to the public and will be included in the NASCO APR Process. Status reports on progress on the WFD goals are reported through the WFD process.
date (Provi	ess on action to de a brief overview quantitative	In 2015, 147 (33 %) river water bodies were classified as good or high status. In 2018,141 (31 %) achieved good or high ecological status. In 2021,140 rivers (31 %) achieved good or high ecological status.
measu evalua sub-ac during this sh Other	re, or other justified ation, of progress. If ctions are completed the reporting year, would be made clear. material (e.g. the links) will not be	 NIEA carried out 1849 investigations in relation to reports of water pollution in 2023, with enforcement action taken in line with set procedures. There were 11 incidents in 2023 in which fish were killed due to water pollution – 5 were classified as Major and 3 as Moderate. 3 other fish kill events relating to water pollution occurred for which no severity assessment is available. Loughs Agency staff also investigated 265 incidents of pollution in the Foyle and Carlingford area. 14 of which were classed as high, 55 classed as medium, 86 classed as low. There were 3 separate fish kills in the Loughs Agency linked to pollution. One fish kill resulted in the loss of 2352 fish on the Muff River, Lough Foyle, one killed 1302 fish in the Killygordon Burn, tributary of River Finn and one killed 73 fish in the Greenore stream in the Carlingford area. There were also 1 fish kill incident linked to high temperatures/Climate change on McCourt's Lake in the Carlingford catchment.
(Pleas means action lifetim report ongoin report	nt status of action e note: 'Completed' that the overall is complete for the e of the third ing cycle. If it is an ng action that is ed on annually, it l be marked as ing')	Ongoing
If 'Co	ompleted', has the achieved its	
	iption of action bmitted in the IP)	To identify and assess the impact of barriers on 18 primary salmon rivers in NI by 2024.

Action	Expected outcome	To carry out surveys to identify all potential barriers to fish
H3:	(as submitted in the IP)	passage in primary salmon rivers in NI subject to resources and
11.5.		assess fish passage at them.
	Approach for	Where opportunities are identified and the necessary resources /
	monitoring effectiveness	permissions obtained to mitigate and reduce the number of
	& enforcement	barriers or improve fish passage at the site where they cannot be
	(as submitted in the IP)	removed. Rivers where barrier surveys have carried out and
	(as submitted in the II)	assessed along with any mitigation / removal works to be
		reported as part of the NASCO APR process.
	Progress on action to	Barriers assessment surveys have been completed within the
	date	following primary Salmon rivers in the DAERA area in 2023:
	(Provide a brief overview	Sixmilewater,
	with a quantitative	Ballinderry,
	measure, or other justified	Shimna,
	evaluation, of progress. If	Bush,
	sub-actions are completed	Ballycastle Rivers
	during the reporting year,	Glendun.
	this should be made clear.	Additional work has been completed on a GIS dashboard to
	Other material (e.g.	display survey information and assist with the prioritisation of
	website links) will not be	barriers for easement.
	evaluated)	
	Current status of action	Ongoing
	(Please note: 'Completed'	Ongoing
	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	1
	objective?	
Action	J	To undeta inventory of our rant and notantial solmon habitat an
Action	Description of action	To update inventory of current and potential salmon habitat on 3 primary salmon rivers in NI.
H4:	(as submitted in the IP)	
	Expected outcome	To update salmon habitat inventory data on a GIS database for the Blackwater, Glendun, Margy /Glenshesk rivers This will
	(as submitted in the IP)	help identify and prioritise subsequent habitat enhancement
		actions. In the Loughs Agency area surveys have been
		completed and is recorded on GIS layers which are available.
	Approach for	Habitat surveys updates carried out to be reported as part of the
	monitoring effectiveness	NASCO APR process.
	& enforcement	- r · · · · · ·
	(as submitted in the IP)	
		Habitat surveys complete on Glendun and work ongoing on the
	Progress on action to	other rivers.
	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)	
	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	To enhance degraded habitat or improve salmon habitat on 2
H5:	(as submitted in the IP)	primary salmon rivers annually in NI, with rivers below CL
		being prioritised. This would equate to a minimum of 2km of
		upgraded river habitat per year.
	Expected outcome	To enhance a minimum of 2km of degraded habitat or salmon
	(as submitted in the IP)	habitat on primary salmon rivers in NI including government
	Approach for	and stakeholder schemes. Rivers where degraded habitat is enhanced or habitat is
	Approach for monitoring effectiveness	improved carried out to be reported as part of the NASCO APR
	& enforcement	process and where resources permit both pre and post
	(as submitted in the IP)	assessments may also be carried out to consider the
		effectiveness of the works.
	Progress on action to	In the DAERA area the following works were carried out:
	date	Upper Ballycassidy River – 900 metres of instream nursery
	(Provide a brief overview	habitat and bankside revetment completed, 1000m of livestock
	with a quantitative measure, or other justified	fencing erected plus installation of 2 livestock drinkers. 2800
	evaluation, of progress. If	tonnes cobble stone introduced.
	sub-actions are completed	River Bush
	during the reporting year, this should be made clear.	300m of riparian fencing.
	Other material (e.g.	150m restoration of nursery habitat in a degraded
	website links) will not be	channel with associated bank protection and regrading.
	evaluated)	Addition of c. 1500T of material. Reconnection of high
		value spawning habitat with nursery habitat to reduce
		bottleneck on juvenile survival.
		Restoration of 3 spawning beds (totalling 150m)
		including raking of gravel, and removal of weed.
		Addition of 150T of spawning gravel.
		Agivey

		Restoration of spawning beds (totalling 100m), including raking of gravel, removal of weed, and addition of 100T of spawning gravel.
		Sixmilewater
		Restoration of spawning beds (totalling 100m), including raking of gravel, and addition of 80T of spawning gravel.
		In the LA area salmonid restoration works were carried out on the following rivers;
		Culdaff River
		River Roe
		River Finn
		Mournebeg River
		River Reelan
		Clanrye River
		Bessbrook River
		River Derg
		River Faughan
		River Dennett
		Camowen River
		River Strule
		Drumragh River
		Glenelly River
		River Deele:
		14.6KM Fencing
		4910+ Trees planted
		61 Solar pumps
		88 Access points
		1660m Bank protection
	t status of action note: 'Completed'	Ongoing
	hat the overall	
	s complete for the of the third	
	g cycle. If it is an	
ongoing	action that is	
	l on annually, it	
should b 'Ongoin	pe marked as	
	npleted', has the	
	achieved its	
objectiv	ve?	

3.3 Provide an update on progress on actions relating to Aquaculture, Introductions and Transfers and Transgenics (section 4.11 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 material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.

Action A1:	Description of action (as submitted in the IP)	 To manage sea lice levels in salmon aquaculture in NI vigilance will remain high through: continued monitoring of farm practices, records and activities by DAERA Inspectors in relation to sea lice counts on fish; annual health inspection and surveillance sampling by DAERA in compliance with Regulation (EU) 2016/429; DAERA Inspectors carryout inspections at harvest and count sea lice as outlined in A3 If sea lice levels remained above the farm background levels for a significant period of time, DAERA would meet with the operators to discuss options for reducing the levels.
	Expected outcome (as submitted in the IP) Approach for monitoring effectiveness & enforcement (as submitted in the IP) 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)	 Sea lice levels on Aquaculture salmon are expected to remain low. Findings / results recorded, analysed and retained. Remedial action taken where deficiencies are found, DAERA would meet with the operators to discuss options for reducing the levels. Outcomes will be reported as part of the APR process. DAERA Fisheries inspectors continued monitoring of farm practices, records and activities in relation to sea lice counts on fish. This included the risk ranked health inspection and surveillance sampling by DAERA officers in compliance with Regulation (EU) 2016/429 No treatment for sea lice was required by the operator throughout 2023. Inspections were carried out during 9 site visits at harvesting to assess sea lice levels on fish and the results are reported in A3.
	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

	ongoing action th		
	reported on annu		
	should be marked	as	
	'Ongoing')		
	If 'Completed',	has the	
	action achieved	its	
	objective?		
Action	Description of action		Monitor for Non NI escapee aquaculture salmon in a wild
A2:	(as submitted in th		salmon stock in N. Ireland.
	Expected outcor		Escapee aquaculture salmon not from NI are monitored annually
	(as submitted in th		at the River Bush trap.
	Approach for	<i>le 11)</i>	Full time adult trap in place to monitor all adults returning to the
		4	R Bush. All adults are assessed for a range of biological
	monitoring effect	uveness	parameters. All escapees are removed from the system and data
	& enforcement		recorded. The results will be included in the NASCO APR.
	(as submitted in the	· · · · · · · · · · · · · · · · · · ·	7
	Progress on action	on to	No escaped aquaculture salmon were detected at the River
	date		Bush salmon trap in 2023.
	(Provide a brief o		
	with a quantitativ		
	measure, or other		
	evaluation, of pro	gress. If	
	sub-actions are co	-	
	during the report		
	this should be ma		
	Other material (e.g. website links) will not be evaluated) Current status of action		
			Ongoing
	(Please note: 'Co	*	
	means that the ov		
	action is complete		
	lifetime of the thir		
	reporting cycle. Ij		
	ongoing action that is		
	reported on annu	-	
	should be marked	as	
	<i>'Ongoing')</i> If 'Completed', has the action achieved its		
	objective?		
Action	Description of	Monitori	ng sea lice levels in aquaculture salmon in N. Ireland.
A3:	action		
	(as submitted in		
	the IP)		
	Expected		al assessment of sea lice levels of sea cage reared salmon in N.
	outcome	Ireland.	
	(as submitted in		
	the IP)		
	Approach for	There is a	an overall annual assessment of sea lice based on data on sea lice
	monitoring	levels ob	tained during the inspection of monthly harvesting operations by
		I	

	effectiveness & enforcement (as submitted in the IP)	will be in	ncluded	he data co in the NAS	SCO AI	PR Proce	ess.				
	Progress on	· ~		carried ou and the f		-			-	to as	sess sea
	action to date	No fish harvested % infected with No of fish with: Date during inspection No fish Inspected No +ve fish Lep. Salmonis 1 louse 2 lice 3 lice 4 lice Total model									
	(Provide a brief overview with a	Date du 11/01/2023	ring inspection 1560	No fish Inspected 311	No +ve fish 16	Lep. Salmonis 5.14	1 louse 16	2 lice	3 lice 0	4 lice	Total no. lice 16
		22/02/2023	1400	205	3	1.46	3	0	0	0	3
	quantitative	22/03/2023 05/04/2023	1450 1300	205 200	1 0	0.48	1	0	0	0	1 0
	measure, or other	24/05/2023 28/06/2023	1160 1300	218 260	4	1.83 2.31	4	0	0	0	4
	justified	09/08/2023	1300	282	5	1.77	5	0	0	0	5
	evaluation, of	25/10/2023 13/12/2023	1890 1865	400 305	0	0.3	0	0	0	0	0
	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)										
	· · · · · · · · · · · · · · · · · · ·	Onasina]								
	Current status	Ongoing	,								
	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?										
	- V						0				
Action	Description of			s of geneti	c introg	gression	ot aqua	acultu	re salı	mon i	nto wild
A4:	action	stocks in	INI.								
	(as submitted in										
	the IP)						-				
		Triennia	l assessi	nent of lo	evels of	f geneti	c intro	ogress	ion of	f aqu	aculture
	Expected			nent of lo stocks adi		-		-		-	
	Expected outcome			nent of lo stocks adj		-		-		-	
	Expected					-		-		-	

		[
	Approach for	Every three years samples collected are assessed to monitor levels and
	monitoring	trends of introgression in wild stocks of rivers adjacent to the salmon
	effectiveness &	aquaculture site. The results will be included in the NASCO APR.
	enforcement	
	(as submitted in	
	the IP)	
	Progress on	In the 2014 study a maximum of 5.9% of juveniles had genomes of part
	action to date	farmed origin, compared to 1.9% in the 2018 study. Genetic samples
	(Provide a brief	have been collected for 2021 and are currently being analysed. The results
	overview with a	will be reported as part of the 2024 NI APR. Genetic samples for analysis
	quantitative	will also be collected in 2024 for analysis
	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	Ongoing
	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	Description of	To assess marine aquaculture sites annually.
A5:	action	
	(as submitted in	
	the IP)	
	Expected	To assess the potential for escapement of fish from marine aquaculture in
	outcome	NI each year.
	(as submitted in	
	the IP)	

	Approach for	DAERA staff will inspect the cages at marine aquaculture sites each year.
	monitoring	The results will be included in the NASCO APR.
	effectiveness &	
	enforcement	
	(as submitted in	
	the IP)	
	Progress on	There were no reports of escaped farmed salmon from the aquaculture
	action to date	marine site in NI in 2023. Visual inspection of the cages were carried out
	(Provide a brief	during the 9 inspection visits with no structural issues identified.
	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)	
	Current status	Ongoing
	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	
A	objective?	To establish Long tamp marile size descended at (11,1, (, (,)))
Action	Description of	To establish Long term monitoring through the establishment of a sea lice-
A6:	action	mortality risk index in wild anadromous salmonids in an area with
	(as submitted in	aquaculture production.
	the IP)	
	Expected	An annual assessment of the risk of sea lice induced mortality in post-smolt
	outcome	salmonids in an area of aquaculture activity.
	(as submitted in	
	the IP)	

enforcement (as submitted in the IP) 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) Current status of action (Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting	calculate a salmonid risk index which estimates the increased mortality due to sea lice infestation, based on the assumption (based on peer-reviewed science) that small salmonid post-smolts (<150 g body weight) experience similar sea lice mortality rates. Results will be reported in the APR. Fresh run, x.0+ sea age sea trout (finnock), are sampled from the sea pools of 2 rivers in the DAERA area of N. Ireland. Sampling is undertaken at the Glenarm river (<1 km from NI aquaculture facilities) and the Shimna river (>120 km distant from NI aquaculture facilities). The sampling is undertaken in early summer and targets sea fresh finnock off the tide. These young, sea trout inhabit coastal areas and act as a convenient sentinel for sea lice numbers. The mean sea lice count/fish on Glenarm finnock (n=11) was 2.5 (+/-1.8) lice/fish which showed no significant difference to Shimna finnock (n=9) which showed a mean level of 1.8 (+/- 2.5) lice/fish. The continued development of this time-series will provide useful contextual information on the numbers of sea lice present on wild N Irish salmonids.
Current status of action (Please note: 'Completed' means that the	Ongoing
should be marked as 'Ongoing') If 'Completed', has the action	
If 'Completed',	

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.

North 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.