Council



Annual Progress Report on Actions taken under the Implementation Plan for the Calendar Year 2022 UK – Northern Ireland

CNL(23)43

Annual Progress Report on Actions taken under the Implementation Plan for the Calendar Year 2022

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, CNL(18)49.

These reports will be reviewed by the Council. Please complete this form and return it to the Secretariat no later than 1 April 2023.

Party:	United Kingdom
Jurisdiction / Region:	Northern 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.

2022 saw low returns of 1SW fish to Northern Irish rivers. It is worth highlighting that the return of adults to the river Bush (N. Ireland long term monitoring/index catchment) totalled 525 fish, which represents the lowest return in the 50 year Bush time-series.

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')

unjrozen jish) or round fresh weight equivalent).				
(a) provisional nominal	In-river	Estuarine	Coastal	Total
catch (which may be	0.798	0	0	0.798
subject to revision) for				
2022 (tonnes)				
(b) confirmed nominal	0.917	0	[0]	0.917
catch of salmon for				
2021 (tonnes)				
(c) estimated	[0.3]	[0]	[0]	[0.3]
unreported catch for				
2022 (tonnes)				
(d) number and	DAERA Area 1025 Salmon C&R 92%			
percentage of salmon	Loughs Agency 2545 C&R 84%			
caught and released in				
recreational fisheries in				
2022				

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.

A .4°	D '	The target is to manage the 10 minimum singure offseted by both communical and
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
	effectiveness	harvest options.
	&	
	enforcement	

(as submitted in the IP) Progress on The 18 primary rivers in N Ireland (14 in DAERA 4 in LA) were assessed action to and management recommendations developed for recreational fisheries in date 2023. (Provide a In 2022 in the DAERA area 4 rivers were allocated a harvestable surplus brief overview and defined tag allocation, whilst 12 rivers were catch and release only. with a In 2023 in the DAERA area 3 rivers will be allocated a harvestable surplus quantitative and defined tag allocation, whilst 13 rivers will be managed as catch and measure, or release only. other justified In 2023 in the LA area 3 rivers are open for controlled harvest and 1 river evaluation, of (Finn) will be managed as catch and release only. progress. If sub-actions DAERA AREA Rivers % CL 2022 are completed during the 150 reporting year, this should be 100 made clear. Other material (e.g. 50 website links) will not be evaluated) 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',

	1 41	
	has the	
	action	
	achieved its	
	objective?	
Action	Description	Update Conservation limits and Management targets for 3 primary salmon rivers
F2:	of action	in Northern Ireland using refreshed habitat data
	(as submitted	
	in the IP)	
	Expected	To update CLs for the 3 rivers identified in Section 1.5
	outcome	
	(as submitted	
	in the IP)	
	Approach	To review CLs once new habitat data is available and to report rivers which have
	for	had their CLs updated in the APR report
	monitoring	•
	effectiveness	
	&	
	enforcement	
	(as submitted	
	`	
	in the IP)	Drograss on this issue was contailed in 2020 and 2021 due to cavid
	Progress on	Progress on this issue was curtailed in 2020 and 2021 due to covid
	action to	restrictions. Work was limited in 2022 due to fieldwork backlogs in other
	date	work areas. It is hoped to recommence work in 2023.
	(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	Ongoing
	status of	
	action	
	(Please note:	
	'Completed'	
	means that	
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	action is	
	complete for	
	the lifetime 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
	-	as an Index River for NI
F3:	of action	as all flucx Kivel Iol Ini
	(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)	
	Approach	Full time adult trap in place and smolt trap for smolt run period, an annual
		programme of juvenile fry surveys of the main spawning areas and an annual
	for	
	monitoring	assessment of both freshwater and marine survival for R Bush stocks. Data
	effectiveness	collected provided to the public once completed. This will also be reported as part
	&	of the NASCO APR process.
	enforcement	
	(as submitted	
	in the IP)	
		All the detects were undeted and consuleted in 2022 and annual to 1
	Progress on	All the datasets were updated and completed in 2022 and annual survival
	action to	metrics determined for the Bush salmon stock.
	date	The freshwater survival rate from egg-smolt for the most recent fully
	(Provide a	recruited ova cohort (2018) was 1.04%. The smolt run in 2022 totalled
	brief overview	20,989 fish, which was higher than the previous 10 year average (18,462),
	with a	and reflective of good freshwater production.
	quantitative	and reflective of good freshwater production.
	measure, or	
		The total adult return of wild salmon to the Bush river in 2022 was 525
		fish & marine survival rate of 1SW salmon was 2.86%. This adult return
		represented the lowest adult salmon return in the 50 year Bush time-series
		•
		and the first enhanced the forest condition factor recorded to date.
	•	
	during the	
	reporting	
	other justified evaluation, of progress. If sub-actions are completed	The total adult return of wild salmon to the Bush river in 2022 was 525 fish & marine survival rate of 1SW salmon was 2.86%. This adult return represented the lowest adult salmon return in the 50 year Bush time-series and the 1SW fish exhibited the lowest condition factor recorded to date.
	- C	
	reporting	

	7 .	
	year, this	
	should be	
	made clear. Other	
	material (e.g.	
	website links) will not be	
	evaluated)	
	Current	Ongoing
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	'Ongoing')	
	If	
	'Completed',	
	has the	
	action	
	achieved its	
	objective?	
A .4°		T
Action	Description	To assess mortality of wild salmon smolts moving from the freshwater to the marine environment
F4:	of action	marine environment
	(as submitted	
	in the IP)	To assess vivoning montality and identify massible areas of losses
	Expected	To assess riverine mortality and identify possible areas of losses
	outcome	
	(as submitted	
	in the IP)	Acoustic and radio telemetry studies of smolts actively monitored in freshwater
	Approach	and into the marine environment using automatic listening stations. Reports
	for	completed on each study carried out and this will be reported as part of the NASCO
	monitoring	APR process.
	effectiveness	THIC Process.
	&	
	enforcement	
	(as submitted	
	in the IP)	

	Progress on	Under funding from the SeaMonitor project 100 salmon smolts were
	action to	tagged on the river Bush in Apr-May 2022. In total 92 were detected in the
	date	estuary, 80 at the coastal array off the river mouth and 42 at the offshore
	(Provide a	SeaMonitor array c. 50km off the river mouth. These data are developing
	brief overview	an important time-series on early marine smolt migration. Some data from
	with a	· · · · · · · · · · · · · · · · · · ·
	quantitative	this project were published in late 2022.
	measure, or	Kennedy, R. J., Rosell, R., Hunter, E., & del Villar-Guerra, D. (2022).
	other justified	Programmed acoustic tags reveal novel information on late-phase marine
	evaluation, of	life in Atlantic salmon, Salmo salar. Journal of Fish Biology,
	progress. If	https://doi.org/10.1111/jfb.15292
	sub-actions	·
	are completed	
	during the	
	reporting	
	year, this	
	should be	
	snouia be made clear.	
	maae ciear. Other	
	material (e.g.	
	website links)	
	will not be	
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	Current	Ongoing
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	If	
	'Completed',	
	has the	
	action	
	achieved its	
	objective?	
Action		To improve regrestional catch returns and statistics from the current baseline of 5
Action	Description	To improve recreational catch returns and statistics from the current baseline of 5 - 10% to 30%
F5:	of action	- 10% to 30%

/ 1 * 1	
(as submitted	
in the IP)	The financial and the state of the financial forms and the state of th
Expected	To increase catch returns / data for recreational caught salmon
outcome	
(as submitted	
in the IP)	
Approach	Monitoring use of digital licensing system and any trends in the number of catch
for	returns completed by recreational anglers. To encourage anglers to report catches
monitoring	by issuing reminder notices to angling clubs and fishery owners. To obtain catch
effectiveness	data from fishery owners and angling clubs for catchments. Data on catch returns
&	to be reported as part of the APR
enforcement	
(as submitted	
in the IP)	
Progress on	Changes to the DAERA LPE online system commenced in 2022 with
action to	work expected to be completed in 2023. Catch details have been utilised
date	from angling clubs where possible. Anglers continue to practise a high
(Provide a	level of catch and release and as a result are reluctant to report "zero"
brief overview	retained catches.
with a	Totalined edicines.
quantitative	Anglers getch reports in the I.A. area here been increasing ever the nest
measure, or	Anglers catch reports in the LA area have been increasing over the past
other justified	few years and are now over 30%.]
evaluation, of	
progress. If	
sub-actions	
are completed	
during the	
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Other	
material (e.g.	
website links)	
will not be	
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	'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.
_ 00	(as submitted	
	in the IP)	
	Expected	To protect salmon stocks by detecting, deterring and disrupting any illegal activity
	_	directed at damaging or removing salmon stocks subject available resources.
	outcome	directed at damaging of femoving sumon 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
	effectiveness	communication / co-operation system in place between fisheries agencies (Loughs
	&	Agency, Inland Fisheries Ireland (IFI) and DAERA) and also with angling clubs /
	enforcement	fishery owners which can help identify illegal fishing activity. A 24 hour telephone
	(as submitted	service is available to report illegal fishing activity and on call staff can respond if
	in the IP)	required. The number of patrols carried out and detections made will be reported
	in the II)	as part of the NASCO APR process.
	Progress on	Organised enforcement patrols (on land and water) are carried out in both
	action to	the DAERA and LA areas to deter, disrupt and detect illegal fishing or
	date	other activities. In 2022, 4117 patrols were carried out in the DAERA area
	(Provide a	and one detections made re the illegal capture of salmon. However a total
	brief overview	of 23 illegal nets were seized and any illegal caught salmon were released
	with a	
	quantitative	unharmed. In addition 39 inspections were carried out on commercial
	measure, or	premises where salmon can be bought or sold.
	other justified	
	evaluation, of	In the Foyle and Carlingford area, 1109 patrols were carried out on land,
	progress. If	with 84 patrols carried out by vessel. Loughs Agency also operated a 24
	sub-actions	hour pollution and protection hotline. These patrols have resulted in the
	are completed	following seizures from those fishing illegally - 29 nets, 32 fishing rods
	during the	and 27 salmonid fish and 3 fish traps.
	reporting	
	year, this	
	should be	
	made clear.	
	Other	
	material (e.g.	
	website links)	

will not be	
evaluated)	
Current	Ongoing
status of	[Ongoing
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(Please note:	
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If	Ī
'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.

evaiu	atea 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 will be reported as part of the NASCO APR process.
	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)	Fisheries advice was provided for the 2022 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.

	Expected outcome	Protection against degradation of salmonid habitat through
	(as submitted in the IP)	pollution or waste disposals
	Approach for	Water quality is regularly assessed and reported on as part of the
	monitoring effectiveness	EU WFD requirements. All discharges are licensed and
	& enforcement	conditions of that licence are regularly assessed for compliance.
	(as submitted in the IP)	Enforcement action maybe taken for non compliance issues.
((as submitted in the 11)	Pollution incidents are investigated and appropriate
		enforcement action maybe 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.
	Progress on action to	NIEA carried out 1533 water pollution investigations in
	date	relation to reports of water pollution in 2022. Further
	(Provide a brief overview	actions were taken as appropriate. There were 12
	with a quantitative measure, or other justified	incidents in 2022 in which fish were killed due to water
	evaluation, of progress. If	pollution – 7 were classified as Major and 5 as Moderate.
	sub-actions are completed	I 1 A
	during the reporting year,	Loughs Agency staff also investigated 576
t	this should be made clear.	reports/incidents of water pollution in the Foyle and
	Other material (e.g.	Carlingford area, 19 of which were classed as high, 47 classed as medium, 88 classed as low. There were 4
	website links) will not be	separate fish kills in the Loughs Agency linked to
6	evaluated)	pollution. There were also 2 fish kill incidents linked to
		high temperatures/Climate change.
		night temperatures/Cinnate change.
	Current status of action	Ongoing
	(Please note: 'Completed'	
1	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	Description of action	To identify and assess the impact of barriers on 18 primary
Н3:	(as submitted in the IP)	salmon rivers in NI by 2024.
	Expected outcome	To carry out surveys to identify all potential barriers to fish
	(as submitted in the IP)	passage in primary salmon rivers in NI subject to resources and
		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 shoulded in the II)	assessed along with any mitigation / removal works to be
		reported as part of the NASCO APR process.
	Progress on action to	The barriers app has now been finalised for both Apple
	date	and Android devices. Data collection devices have
	(Provide a brief overview	provided to DAERA Fisheries staff. Work is 90%
	with a quantitative	±
	measure, or other justified	complete for the Ballycastle rivers and both the Glendun
	evaluation, of progress. If	and R Bush surveys have been started.
	sub-actions are completed	
	during the reporting year,	Significant preliminary work has already been completed
	this should be made clear.	for barrier identification for primary salmon rivers in the
	Other material (e.g.	LA area and these will be reviewed to apply a passability
	website links) will not be	rating.
	evaluated)	8.1
	,	Ongoina
	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')	T
	If 'Completed', has the	1
	action achieved its	
	objective?	
Action	Description of action	To update inventory of current and potential salmon habitat on
H4:	(as submitted in the IP)	3 primary salmon rivers in NI.
	Expected outcome	To update salmon habitat inventory data on a GIS database for
	(as submitted in the IP)	the Blackwater, Glendun, Margy /Glenshesk rivers This will
	,	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	_
	(as submitted in the IP)	
	Progress on action to	Work has continued on this action on the Glendun and
	_	1
	date	Margy rivers.
	(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)	r 1
	Current status of action	Ongoing
	(Please note: 'Completed'	
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	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')	T
	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
		and stakeholder schemes.
	Approach for	Rivers where degraded habitat is enhanced or habitat is
	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	River Bush
	(Provide a brief overview	
	with a quantitative	200m restoration of nursery habitat in a degraded
	measure, or other justified	channel, with associated bank re-grading. Addition of c.
	evaluation, of progress. If	1000T material. Reconnection of high value spawning
	sub-actions are completed	habitat with nursery habitat, to reduce local bottleneck on
	during the reporting year,	juvenile survival.
	this should be made clear.	Restoration of 5 spawning beds, including raking of
	Other material (e.g.	gravel, removal of weed, and addition of 150T of
	website links) will not be evaluated)	spawning gravel.
	evananca)	1 66
		Agivey River
		Restoration of spawning beds, including addition of 80T
		spawning gravel - 200m
		<u>.</u>

Margy River

Enhancement of 140m of holding habitat in intertidal zone, including addition of 200T material. Reduction of intertidal/inshore predation of adults and smolts.

Upper Blackwater – Lungs

1.6km of instream nursery habitat and bankside revetment completed

Removal of impassable instream obstruction 1860 tonnes cobble stone

Upper Ballycassidy River – O'Neills 500m of instream nursery habitat and bankside revetment completed

500m of livestock fencing erected 1025 tonnes cobble stone

Upper Ballinamallard River – Kilskeery Reduction in livestock access to watercourse Installation of 3 mains supplied livestock drinkers

Loughs Agency has carried out salmonid restoration works 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

Following the river enhancement work, the following outputs were recorded:

Riparian fencing – 18.6KM

Trees planted -22,106

Provisions of water for livestock – 73

Spawning beds created – 250m²

Spawning gravel regraded – 8942m²

Bank revetment to stop erosion – 1062m²

Rubble mats - 13 tonnes

Current status of action	Ongoing
(Please note: 'Completed'	
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ongoing action that is	
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should be marked as	
'Ongoing')	T
If 'Completed', has the	
action achieved its	
objective?	

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.

aeit	illea injormation	, this will not be evaluated by the Review Group.
Action	Description	To manage sea lice levels in salmon aquaculture in NI vigilance will remain high through:
A1:	of action (as submitted in the IP)	 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	Sea lice levels on Aquaculture salmon are expected to remain low
	outcome	
	(as submitted	
	in the IP)	
	Approach	Findings/results recorded, analysed and retained.
	for	Remedial action taken where deficiencies are found, DAERA would meet with the
	monitoring	operators to discuss options for reducing the levels.
	effectiveness	Outcomes will be reported as part of the APR process
	&	
	enforcement	
	(as submitted	
	in the IP)	
	Progress on	DAERA Fisheries inspectors continued monitoring of farm practices, records and
	action to	activities in relation to sea lice counts on fish. This included the
	date	

	(Provide a	annual health inspection and surveillance sampling by DAERA in compliance
	brief overview	with Regulation (EU) 2016/429
	with a	
	quantitative	No treatment for sea lice was required by the operator throughout 2022.
	measure, or	
	other justified	Progress For SectionA3:
	evaluation, of	6
	progress. If	Inspections were carried out during 12 site visits at harvesting to assess sea lice
	sub-actions	levels on fish and the following results were obtained.
	are completed	levels on fish and the following results were obtained.
	during the	No of fish with:
	reporting	Date No of fish harvested No of fish inspected No of positive fish % of sample % infected with Lep salmonis 1 louse 2 lice 3 lice 4 lice 26/01/2022 1950 376 62 19 16 55 6 1 0
	year, this	24/02/2022 2100 400 25 19 6.25 23 2 0 0 23/03/2022 1540 242 23 15.7 9.5 22 2 0 0
	should be made clear.	27/04/2022 1400 335 11 24 3.28 10 1 0 0
		18/05/2022 1680 345 21 20 6 19 2 0 0 22/06/2022 1740 364 4 21 1.09 2 2 0 0
	Other	27/07/2022 1680 320 0 19 0 0 0 0 0 31/08/2022 2700 400 2 14.8 0.5 2 0 0 0
	material (e.g.	28/09/2022 1680 305 5 18 1.63 5 0 0 0 25/10/2022 1440 296 5 20 1.68 3 1 0 0
	website links) will not be	09/11/2022 1820 339 9 19 2.6 9 0 0 0
		07/12/2022 2100 311 9 15 2.8 9 0 0 0
	evaluated)	Onacina
	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',	ı
	has the	
	action	
	action achieved its	
	objective?	
Action	Description	Monitor for Non NI escapee aquaculture salmon in a wild salmon stock in N. Ireland.
A2:	of action	
	(as submitted	
	in the IP)	

Expected	Escapee aquaculture salmon not from NI are monitored annually at the River Bush trap.
outcome	
(as submitted	
in the IP)	
Approach	Full time adult trap in place to monitor all adults returning to the R Bush. All adults are
for	assessed for a range of biological parameters. All escapees are removed from the system
	and data recorded. The results will be included in the NASCO APR.
monitoring	
effectiveness	
&	
enforcement	
(as submitted	
in the IP)	
Progress on	No farm escapees were detected at the river Bush trap in 2022.
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)	Ongoing
Current	Ongoing
status of	
action	
(Please note:	
'Completed'	
means that	
the overall	
action is	
complete for	
the lifetime 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	Monitoring sea lice levels in aquaculture salmon in N. Ireland.
A3:	of action	
	(as submitted	
	in the IP)	
	Expected	An annual assessment of sea lice levels of sea cage reared salmon in N. Ireland.
	outcome	
	(as submitted	
	`	
	in the IP)	There is an overall annual assessment of sea lice based on data on sea lice levels obtained
	Approach	
	for	during the inspection of monthly harvesting operations by DAERA staff. The data collected
	monitoring	is regularly reviewed by DAERA and will be included in the NASCO APR Process.
	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)	
	evatuatea)	

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Current Ongoing	
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the lifetime of the third	
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an ongoing	
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reported on	
annually, it	
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'Ongoing')	
If The state of th	
'Completed',	
has the	
action	
achieved its	
objective?	
Action Description Monitoring levels of genetic introgression of aquaculture salmon into	wild stocks in NI
A4: of action	wild stocks in 141
(as submitted	
in the IP)	
Expected Triennial assessment of levels of genetic introgression of aquacultur	re salmon into wild
outcome stocks adjacent to the sites for salmon aquaculture in NI	
(as submitted	
in the IP)	
Approach Every three years samples collected are assessed to monitor levery	vels and trends of
for introgression in wild stocks of rivers adjacent to the salmon aquacult	
monitoring will be included in the NASCO APR.	
effectiveness	
& &	
enforcement	
(as submitted	
in the IP)	
Progress on The most recent data suggests there has been a decrease in the le	vel of genetic
action to introgression of farmed genetic material into wild stocks in UK I	_
date and 2018. In the 2014 study a maximum of 5.9% of juveniles ha	
(<i>Provide a</i> farmed origin, compared to 1.9% in the 2018 study. Genetic same	
brief overview collected and will be analysed in 2023.]	. _T
J Concered and will be allary bed in 2025.	
with a	
with a quantitative	

	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:	
	'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')	T T
	If	
	'Completed',	
	has the	
	action	
	achieved its	
	objective?	
Action	Description	To assess marine aquaculture sites annually
A5:	of action	
	(as submitted	
	in the IP)	To assess the potential for escapement of fish from marine aquaculture in NI each year
	Expected	To assess the potential for escapement of fish from marine aquaculture in NI each year
	outcome (as submitted	
	in the IP)	
	in inc II)	
	Approach	D sites each year. The results will be included in the NASCO APR.AERA staff will inspect

monitoring	
effectiveness	
&	
enforcement	
(as submitted	
3	
in the IP)	D. D
Progress on	No escapees were reported to DAERA in 2022. Surface inspections of the site by
action to	Fisheries Inspectors did not highlight any structural issues with cages
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	Ongoing
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	has the	
	action	
	achieved its	
	objective?	
Action	Description	To establish Long term monitoring through the establishment of a sea lice-mortality risk
A6:	of action	index in wild anadromous salmonids in an area with aquaculture production.
	(as submitted	
	in the IP)	
	Expected	An annual assessment of the risk of sea lice induced mortality in post-smolt salmonids in
	outcome	an area of aquaculture activity.
	(as submitted	
	in the IP)	
	Approach	An annual sampling of wild sea trout post-smolts immediately upon return from the sea in
	for	the spring in rivers in the area of aquaculture production. These fish will be assessed for
	monitoring	sea lice burden. This data will be used to calculate a salmonid risk index which estimates
	effectiveness	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
	enforcement	sea lice mortality rates. Results will be reported in the APR.
	(as submitted	
	in the IP)	
	Progress on	Sampling of 0+ sea age sea-trout (finnock) was undertaken in the tidal portion of
	action to	the Glenarm river in May and August 2022. This is the closest geographical
	date	riverine habitat to the NI salmon aquaculture facility.
	(Provide a	1
	brief overview with a	No premature returning finnock were found in the May survey.
	quantitative	In total 19 sea run (silver) sea trout were sampled in the August survey with direct
	measure, or	lice counts ranging from 0-11 per fish with an average lice load of 1.6 lice/fish.
	other justified	It is hoped to repeat this pilot survey in 2023 and develop a timeseries.
	evaluation, of	This hoped to repeat this prior sarvey in 2023 and develop a unioseries.
	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:	
	'Completed'	
	means that	
	the overall	

action is	
complete for	
the lifetime 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?	
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.

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.