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Supplementary Information of

Status and future perspectives of pink salmon in the Nordic region

Staveley et al.

Correspondence to: Thomas A.B. Staveley (tom.staveley@slu.se)

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Table S1. Summary of answers from each country including sources of data. The questions were as follows: 1. How do we get pink salmon observations/reports of adult spawners? 2. How do we get pink salmon observations/reports of juveniles? 3. What are the management actions (e.g. local, national levels, rules, plans, decisions)? 4. Is there any research being conducted on pink salmon? 5. Is it possible to report pink salmon? Ease of reporting, economical rewards, open and use of data, increase knowledge. 6. Is there mandatory or motivational reporting of fish catches, including pink salmon? 7. Has there been any awareness/ educational work?

Country/ Question	1	2	3	4	5	6	7
Sweden	anglers. Online reporting website (though underused). A camera fish counter in 1 river (Ätran). https://fiskdata.se/raknare/live/live-user.php?locationId=1 eDNA monitoring.	and eDNA in some rivers where spawners were detected from eDNA.	pink salmon report 2018. Advice from the Swedish Agency for Marine and Water Management: If pink salmon has been caught, it must be killed immediately and not thrown back into the water. Active in international organisations and projects – e.g. NASCO pink salmon working group, NASCO PINKTrack.	funded by the Swedish Research Council FORMAS. Aims: establish the distribution of pink salmon in rivers along the west and southern coasts and to detect if there are signs of reproduction. Involved in the NASCO PINKTrack eDNA project. https://salmonatsea.com/eu-funded-research/pinktrack/	communicate the reporting of pink salmon catches in 2023. Portal for reporting of aquatic species exists through SLU Swedish Species Information Centre – open data. Stickers, posters and website created with links/QR code to the portal.	recreational fish catches are voluntary. There have been no rewards or incentives to report pink salmon.	ID, and where to report. Stickers, posters distributed to relevant stakeholders individuals. Signs at fishing places by rivers. Webinars and presentations given. Information at fishing and boat exhibitions. TV, magazine and newspaper articles. Social media.
Norway	Mandatory catch reports from anglers in rivers.	in selected rivers in	Massive removal of pink salmon as a national strategy from	' '	Mandatory reporting of catches of anadromous	See response to question 5. Reporting of catches is	There has been a high level of attention on pink salmon in general

northern Norway and government (250 000 budgeted, salmonids (on the mandatory for angling since 2017, with some net/trap fishing. pink salmon fished out opportunistic and to a level of individual fish) in rivers, catches Mandatory catch numerous newspaper reports from in 2023). Regional little extent has been in place for during mitigation articles in national, eDNA (in Tana/Teno licenced bag net authorities heavily coordinated with each decades, so there are measures, licenced regional and local watershed). involved in the bag net fisheries at fisheries at sea. other. well-established newspapers. High Catch reports from sea, and angling at counties in Northern systems for reporting level of information sport Several Master theses salmonids including sea. Angling catches at from governmental Norway. Local people fishers/anglers at on pink salmon. There pink salmon from bodies, organisations heavily involved in sea are highly sea, there is a organising and underreported (national and are no grants or angling in rivers and performing the programs from the though, even if regional/local levels of reporting system for the licenced but little used so removal of pink coastal bag net mandatory because of research council, hunter- and fishers organisations, highly little focus on this. salmon in each river. government etc. to fisheries. However. underreported. Traps in lower parts of study the impacts of the reporting system landowners, sea for sport fishing fishers etc.) and 51 rivers in 2023. pink salmon on other Publicly available sometimes combined salmonids, noncatches at sea research institutions in data: www.ssb.no with net fishing. Some salmonid fish, and media, press releases, (angling) is not well (Statistics Norway) ecosystems. known and not much web page, social rivers without traps and used. Reporting of fish out pink salmon media and through Therefore, there is www.miljodirektor by use of nets, daily catches in traps meetings. Regular very little knowledge atet.no harpooning, taking and other mitigation lectures for biology, of the effects of pink fish out from fishways salmon in rivers, measures is via an fisheries, and Daily catch reports etc. The government estuaries, fjords and app, which has been aquaculture students from traps aimed at has funded measures easy for people to use. at the University of at sea. fishing out pink People are motivated in most of the rivers. Tromsø. salmon – traps in but in some cases to use it to show the 50 rivers in 2023. where it has not been results of their efforts. https://www.nina.no/ Daily catch reports funding available from english/Biodiversity/Al from others ien-Species/Pinkthe government, local removal efforts in organisations and salmon rivers, e.g. with people have nets, harpoon, performed removal on taking out of fish a voluntary basis (but ways etc. they need permissions

tory Lots of information
Atlantic distributed and made
trout, available over the
catches latest years, esp.
al fish since 2017.
Public meetings and
lectures locally,
seminars and
webinars nationally.
t

	salmon (sonars,		Teno/Tana river in	Studies on juvenile			Articles in national,
	video cameras,			pink salmon migration			regional and local
	snorkelling).		Atlantic salmon fishing	. ~			ŭ
	eDNA.		ban). Applicants	timing, fish size &			newspapers and magazines.
	edina.			· ·			mayazmes.
			-	growth, feeding			Links: popular
			to fish for pink salmon	· •			literature review,
				SIA).			website, youtube
			Atlantic salmon	eDNA surveys across			video
			catches (methods,	different tributaries of			11400
			Isites. Time etc.).	the large Teno/Tana			
				river.			
			the national strategy	111011			
			on invasive species,	Study on the effects			
			need to be monitored.	of a pink salmon trap			
			need to be monitored.	and fence at the			
				Teno/Tana river.			
Iceland	Mandatory catch	Fyke-net operated in	Fishing associations in	Research study in	Catch reports via	All catches in-river are	NA
	reports from	selected rivers,	salmon rivers may	cooperation with	logbooks from anglers	mandatory and need	
	anglers/fishing	catching out-migrating	trap fish with Seine-	colleagues at Queen	and fishing	to be registered.	
	associations in	smolts in even years.	nets to remove pink	Mary University, UK.	association, has been		
	rivers.	Electrofishing also	salmon.		mandatory for several		
		applied in same		Marine and	decades, and since the		
	daily monitoring in	selected rivers.	Seine-netting in rivers	Freshwater Research	2023 season the MFRI		
			is not allowed in	Institute (MFRI)	has opened an online,		
	fishways, video		general, but the	handed one-time	open-source, internet		
	monitoring, fish		ľ	extra governmental	application to register		
	counters etc.				catch.		
				impact of pink salmon.			
			from the rules to allow				
			for such removals of				
			pink salmon for the				
			2023-2025 seasons.				
			2020 2020 30030113.				

Faroe	Due to the	We don´t.	Not to my knowledge.	Since the number of	In 2019, reports of	Only motivational	Outreach efforts for
Islands	increased			reported pink salmon	pink salmon catches	registrations.	the previously
	occurrence of pink			in the Faroes has been	were financially		mentioned citizen
	salmon in the			consistently low, with	incentivized. However,		science project have
	Faroes in 2017, a			fewer than 10	this practice has since		been interviews on
	citizen science			specimens in odd-	been discontinued,		the radio, newsletters,
	project was			numbered years, I	and anglers now		and short articles.
	launched in 2019.			believe no action will	report their catches		
	Since then, anglers			be taken unless there	voluntarily, primarily		
	have been			is a significant	by telephone.		
	encouraged to			increase in their			
	report or donate			population.			
	pink salmon to						
	Firum.						
Denmark	•	In Denmark, make	Due to the limited	•	It is possible to submit		Every odd-numbered
			occurrence of pink	reports of pink salmon		monitoring the	year, news has been
				have been sent to	salmon. Here is the	reporting platform for	published highlighting
	freshwater, and the		watercourses, the	3			the possibility of
			formal setup is	institutions. Genetic		catches, and based on	o.
			restricted. Upon the	tests have also been			and informing the
	through		capture of pink	conducted on pink		observations, direct	public about the
	· ·	3	Ü		D. O. Hqua Houna III.o	contact has been	importance of
		3	collection of			made with those who	reporting catches.
	I.		broodstock, the culling		J	have caught pink	https://www.fiskeplej
	possible.	ľ	of pink salmon will be		l'	salmon. Reporting of	e.dk/fiskebiologi/laks/
			permitted.			catches of pink salmon	
	,	Additionally, further				is not mandatory in	<u>laks/pukkellaks</u> .
		studies, through			p 040	Denmark.	
		electrofishing, are			important for		A newsletter has also
	runs in selected	often conducted in			monitoring the		been sent to many
	watercourses,	selected			occurrence of this		thousands of
	1 3	watercourses. Here,			species in Danish		subscribers regarding
		any findings of			watercourses and		the annual status of

pink salmon is mandatory.	juvenile pink salmon will be recorded.			waters. The information can be sent via email to DTU Aqua, or you can fill out this form – Form for reporting pink salmon catches in 2023. Formular til fangst af pukkellaks i 2023 "		incoming pink salmon. Additionally, there has been an emphasis on social media regarding the importance of reporting.
Social media call for observations.	A project was planned in 2024 in Kapisillit	, ,	•	Reporting can be done to the Greenland	In non-commercial recreational/	Call for observations through social media
observations.	river and near				household fishery	annually since 2019.
Mandatory	Kuumiut in East		· ·		Only Atlantic salmon	
reporting of catch	Greenland by				fishery has licence and	
of Atlantic salmon	scientists from UK.		•	•	reporting	
	Kapisillit was cancelled				requirements. When	
Samilon	due to low			https://arcg.is/rXuue	reporting Atlantic	
information.	observations of adult Pink salmon.		continue.		salmon, pink salmon has a separate	
eDNA monitoring.	i iiik saiiiiUii.				reporting column.	

Fig. S1. Numbers of rivers in Norway (count) showing the number of pink salmon reported from 2017-2023 (odd years only).

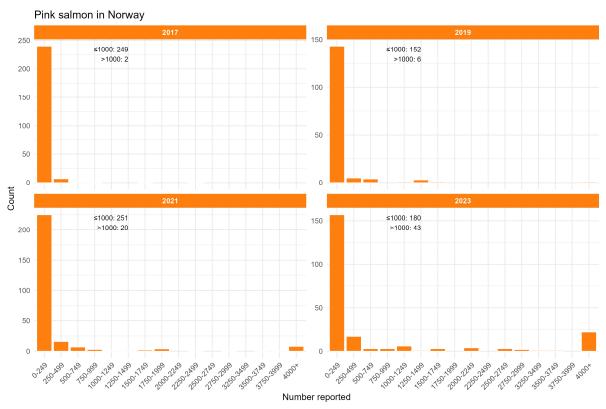


Fig. S2. Numbers of rivers in Norway (count) showing the number of returning Atlantic salmon from 2002-2023. The majority of rivers in Norway during this time are well below 1000 Atlantic salmon threshold. Data source: https://vitenskapsradet.no/VurderingAvEnkeltbestander/#/map

