

Council

CNL(20)27

Annual Progress Report on Actions Taken Under the Implementation Plan for the Calendar Year 2019

United States

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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 2020**.

Party:	United States
Jurisdiction / Region:	

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.

In 2019, the Final Recovery Plan for the Gulf of Maine distinct population of endangered Atlantic salmon was published. The recovery plan details recovery goals, criteria, and site-specific actions needed for recovery of the species.

In 2019, we estimate between 30 to 40 events and media campaigns were held throughout the northeastern United States in support of International Year of the Salmon (IYS) reaching approximately 30,000 people. Events and activities included: An IYS celebration event at the Maine Discovery Museum in Bangor Maine; an event called "Sea-Run-Go!" at the Lake Champlain Maritime Museum in Vermont aimed to educate the public about history, ecology,

and conservation of Atlantic salmon; and, the Atlantic Salmon Conservation Schools Network (ASCSN) brought students together from New Brunswick and Maine to work with hatchery managers, field biologists, and civil engineers to improve salmon habitat in the Miramichi and Machias Rivers.

In September 2019, the agencies that co-manage Atlantic salmon (U.S. Fish and Wildlife Service, NOAA's - National Marine Fisheries Service, Maine Department of Marine Resources, and Penobscot Indian Nation) began implementation of a one-year pilot of a new governance structure referred to as the Collaborative Management Strategy (CMS). The CMS is designed to improve collaboration, communication, and transparency across agencies and among stakeholders. The foundation of the CMS is three Salmon Habitat Recovery Unit (SHRU) teams. These teams are in place to plan, prioritize, and implement conservation efforts that facilitate Atlantic salmon recovery. An oversight group, referred to as the Implementation Team includes SHRU Team chairs, the management board, a science advisor, and an administrative coordinator. The Implementation Team is in place to make decisions on issues that cross-cut across SHRUs, including resource allocation, and to provide for conflict resolution.

In 2019, the Atlantic Salmon Federation removed a 23-foot section of the lower-most dam on the Sheepscot River, the Head Tide Dam. The completion of this project will allow for unimpeded upstream and downstream movement of endangered Atlantic salmon and other searun fish including American shad, alewives, and American eel. The Sheepscot River has the only remaining locally-adapted stock in the Merrymeeting Bay Salmon Habitat Recovery Unit.

2: Stock status and catches.

2.1 Provide a description of any new factors that may significantly affect the abundance of salmon stocks 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.

For 2019, no new factors significantly affected the abundance of wild salmon stocks in the United States. Provisionally, there were 1,535 adult returns to U.S. waters in 2019. This count includes 1,528 returns to the GOM DPS; four to the Central New England complex; and three to the Long Island Sound complex.

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	0	0	0	0
subject to revision) for				
2019 (tonnes)				
(b) confirmed nominal	0	0	0	0
catch of salmon for				
2018 (tonnes)				
(c) estimated	0	0	0	0
unreported catch for				
2019 (tonnes)				
(d) number and	There are no recreational fisheries for sea-run Atlantic salmon in the United			
percentage of salmon	States. There are,	however, small fis	heries for domestic	broodstock in the

caught and released in	Naugatuck and Shetucket Rivers in Southern New England; these rivers are
recreational fisheries in	outside the geographic range of endangered wild Atlantic salmon.
2019	

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. 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 F1:	Description of action (as submitted in the IP): Expected outcome (as submitted in the IP):	 Reduce mortality of U.Sorigin salmon in mixed-stock fisheries by remaining active in the West Greenland Commission and the North American Commission. a) Maintenance of existing mortality attributable to the West Greenland fishery as measured by the quota currently set at 30mt through 2020 (note: specific outcomes beyond 2020 cannot be determined at this time as the existing regulatory measure
		 appressionly for 2018, 2019, and 2020) b) Agreement on a regulatory measure in 2021 c) Maintenance of low levels (previously estimated at 30 to 40 U.Sorigin salmon per year) of interception of U.Sorigin salmon in the mixed-stock fishery in Labrador
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. Other material (e.g. website links) will not be evaluated):	In 2019, the United States worked cooperatively with the Parties of the West Greenland Commission to enable the continuation of the 2018-2020 regulatory measure. The regulatory measure contains a number of important elements designed to improve the management of the fishery, including limiting harvests, mandating that any quota overharvests in one year be paid back the next, and requiring additional strengthened monitoring and control measures. Effective implementation of these requirements is expected to provide conservation benefits to contributing stocks, including critically endangered U.S. origin salmon.
		The current regulatory measure is in effect through 2020. The United States continues to participate fully in the work of the West Greenland Commission, including the annual evaluation of the effectiveness of the 2018 regulatory measure <i>vis a vis</i> the results of the 2018-2020 fisheries at West Greenland. In light of the continuing need for strong protection of U.Sorigin salmon, the United States is eager to work with members of the Commission to develop and adopt a new regulatory measure in 2021.

		In 2019, the United States continued to support efforts to monitor the mixed-stock fishery in Labrador. The United States remains an active participant in the North American Commission and continues to encourage Canada to expand sampling of this fishery to ensure broader data collection and improved characterization of the impact of the fishery on U.S. origin salmon. In addition, we continue to urge Canada to implement fishery management measures that eliminate the catch of U.S. origin salmon in the Labrador fishery. Toward this end, management action has been taken in recent years by Canada. Expanded sampling in Labrador would assist in evaluating the effectiveness of these management actions.
	Current status of action:	Ongoing
	If 'Completed', has the action achieved its objective?	
Action	Description of action	Reduce by catch of Atlantic salmon in recreational fisheries for other species, such as brook trout, to the maximum avtent possible.
r2:	(as submitted in the IP): Expected outcome (as submitted in the IP):	Closures of certain areas of rivers, gear restrictions, bag limit reductions, publication of species identification guides in fishing law books, prosecution of poachers when necessary, among others. Note: this action (and therefore expected outcome) does not lend itself to quantitative measures because specific estimates of bycatch are not available. Thus, developing quantitative targets is not possible. Reporting on progress under this action will therefore focus on qualitative aspects (using specific examples where
		possible) with the assumption that activities under this action will correlate with reductions in mortality of Atlantic salmon attributable
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. Other material (e.g. website links) will not be evaluated):	to bycatch. In 2019, the State of Maine incorporated into its fishing regulations that the area within 150 feet of any part of the West Enfield and Milford Dams on the Penobscot River, including fishways, are closed to fishing at all times. The aim is to reduce significantly the incidental catch of adult Atlantic salmon in recreational fisheries. Enforcement of these regulations is identified as a priority through a joint enforcement agreement between NOAA and the State of Maine described in action F3.
	noi de evalualea).	The federal Endangered Species Act prohibits any "take" of endangered Atlantic salmon. The state of Maine maintains stringent regulations governing recreational fishing <u>https://www.maine.gov/ifw/docs/19-MDIFW-23-Fishing-Lawbook-</u> <u>2020.pdf</u>) in salmon habitats that remained in place in 2019. These regulations explain that sea-run salmon are federally endangered and cannot be removed from the water. Anglers are also prohibited from retaining landlocked salmon and brown trout above 25 inches to

		ensure that adult sea-run salmon are not incidentally captured and
	Current status of action:	Ongoing
	If 'Completed', has the action achieved its objective?	
Action F3:	Description of action (as submitted in the IP):	Reduce poaching of Atlantic salmon to the maximum extent possible.
	Expected outcome (<i>as submitted in the IP</i>):	Deterrence of illegal activity and prosecutions of poachers when necessary.
		Note: this action (and therefore expected outcome) does not lend itself to quantitative measures because specific estimates of mortality attributable to poaching are not available. Thus, developing quantitative targets is not possible. Reporting on progress under this action will therefore focus on qualitative aspects (using specific examples where possible) with the assumption that activities under this action will correlate with reductions in mortality of Atlantic salmon attributable to poaching.
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. Other material (e.g. website links) will not be evaluated):	Marine Patrol Officers did not encounter any Atlantic salmon violations in 2019. Atlantic salmon is specifically identified as an enforcement priority within Marine Patrol's previous and current Joint Enforcement Agreement with NOAA. Since August 2018 when the agreement was signed, MMP Officers documented 577.5 hours of targeted Atlantic salmon enforcement with aircraft, watercraft, motor vehicle, foot patrol, and surveillance details. This documented effort is in addition to hundreds of additional hours spent enforcing smelt, alewife, elver, striped bass, and shad fishing regulations along Maine's rivers.
	Current status of action:	Ongoing
	If 'Completed', has the action achieved its objective?	
Action F4:	Description of action (<i>as submitted in the IP</i>):	Reduce mortality of Atlantic salmon by (1) maintaining closures for all directed fisheries for Atlantic salmon consistent with the existing Fishery Management Plan under the Magnuson-Stevens Fisheries Conservation and Management Act and (2) reducing bycatch of Atlantic salmon in fisheries for other species to the maximum extent possible.
	Expected outcome (<i>as submitted in the IP</i>):	Zero mortality of Atlantic salmon attributable to (1) directed salmon fisheries and (2) bycatch of Atlantic salmon in other commercial fisheries.
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. Other material	In 2019, there continued to be no directed fisheries for sea-run Atlantic salmon in the United States consistent with the existing Fishery Management Plan under the Magnuson- Stevens Fisheries Conservation and Management Act. There are, however, small fisheries for domestic broodstock in the Naugatuck and Shetucket Rivers in Southern New England; these rivers are outside the geographic range of endangered wild Atlantic salmon.

(e.g. website links) will	
(e.g. website links) will not be evaluated):	For 2019, our query of the dealer purchases database and vessel landings database revealed no record of Atlantic salmon being caught. NOAA maintains a vessel landings database, a dealer purchases database, and an observer database for commercial fisheries subject to federal jurisdiction. To ensure that bycatch of Atlantic salmon in other commercial fisheries remains insignificant, each year, we query these databases. For the observer database, bycatch of Atlantic salmon remains a rare event. Interactions have been observed in only 7 of the 30- year time series, and no Atlantic salmon have been observed since August 2013. Reporting is complete through August,
	2019.
Current status of action:	Ongoing
If 'Completed', has the	
action achieved its	
objective?	

3.2	Pro	vide an updat	e on progress on actions relating to Habitat Protection and Restoration
	(sec	ction 3.5 of the l	Implementation Plan). Note: the reports under 'Progress on action to date' should
	pro	vide a brief ove	erview of each action. For all actions, provide clear and concise quantitative
	info	rmation to dem	onstrate progress. In circumstances where quantitative information cannot be
	pro	vided for a partic	cular 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		
	mor	e detailed inform	nation, this will not be evaluated by the Review Group.
Acti	ion	Description	Improve fish passage by removing dams, installing fishways, removing culverts,

Action	Description	Improve fish passage by removing dams, installing fishways, removing culverts,
H1:	of action	decommissioning roads, and upgrading road stream crossings.
	(as submitted	
	in the IP):	
Expected By 2024, restor		By 2024, restore connectivity to 5,000 units of suitable Atlantic salmon habitat (as
	outcome	defined in the Atlantic salmon Recovery Plan).
	(as submitted	
	in the IP):	
	Progress on	Progress was made at improving fish passage at dams and culverts in all
action to three recovery units in 2019. A small number of new projects		three recovery units in 2019. A small number of new projects were
	date	implemented, with construction at several more anticipated in coming
	(Provide a	years. The most notable project was the modification of the Head Tide
	brief overview	Dam on the Sheepscot River, which, when combined with the habitat made
	with a	available by the removal of the upstream Coopers Mills Dam in 2018,
quantitative		significantly improves access to over 2,000 habitat units in the
	measure, or	Merrymeeting Bay recovery unit
other justified		hieriyineeting buy recovery unit.
	evaluation, of The estimates of habitat gains are preliminary and will be adjusted	
<i>progress.</i> <i>Other</i> Interestinates of habitat gains are preliminary and will be add annual reports. Only projects that are accessible from the oc		annual reports. Only projects that are accessible from the access are
		annual reports. Only projects that are accessible from the ocean are
	material (e.g.	considered in this table. For example, a dam removal that occurs upstream
	website links)	of an existing barrier to passage would not be included in the

	will not be evaluated):	estimate. Habitat gai equals 100m ² .	ins are repo	orted in habi	itat units,	where 1 habit	at unit
						2019	
		Salmon Habitat Recovery Unit	# of P Dams	rojects Culverts	Critical Habitat	Non-critical Habitat	Total Units
		Downeast Coastal	1	0	0	15	15
		Penobscot Bay	0	0	0	0	0
		Merrymeeting Bay	2	0	2641	0	2641
		Total	3	0	2641	15	2656
	Current	Ongoing					
	status of						
	action:						
	If 'Completed'						
	has the						
	action						
	achieved its						
	objective?						
Action	Description	Improve fish passage a	t hydroelec	tric dams three	ough dam i	removal or con	struction
H2:	of action of effective fishways and the implementation of adaptive managements			management st	rategies		
	(as submitted	ted to achieve passage efficiency and survival targets for dams that cannot be removed.					
	Expected	By 2024, restore conne	ectivity to 1	0.000 units o	f suitable A	Atlantic salmon	habitat
	outcome	and reduce mortality an	nd injury of	smolts and k	elts at hyd	roelectric dams	8.
	(as submitted						
	in the IP):						
	Progress on	No additional habitat	units wer	e made acce	ssible due 2010 U	to improvem	ents in
	action to	heen made towards in	aams in c	alendar year	2019. H	owever, progr	through
	(Provide a	the relicensing of pro	biects unde	r the U.S. F	ederal Poy	ver Act (FPA)), and
	brief overview	through consultation	requireme	nts of the U	.S. Endan	gered Species	Act
	with a	(ESA). The objective	e in these	proceedings	is to impl	ement effectiv	ve
	quantitative	upstream and downst	tream fish	passage and	reduce th	e impact of	
	other justified	hydroelectric dams a	nd their op	erations on	Atlantic s	almon and the	e
	evaluation, of	ecosystem on which	they deper	id. Consulta	ations add	ressing the	.11
	progress.	mainstem hydro dam	s within d	i passage al	e currentr itical habi	y ongoing at a tat in the Gulf	nn Fof
	Other material (e.a.	Maine population. Ir	n 2019. fis	hwavs were	prescribe	d at the Ellsw	orth Dam
	website links)	(Downeast) on the U	nion River	; once in pla	ace, these	new fishways	will
	will not be	allow salmon and oth	ner diadror	nous species	s volitiona	l passage in th	ne Union
	evaluated):	River watershed for t	he first tin	ne since the	dams wer	e built in the e	early
		1900s. Brookfield R	enewable	operates the	tour lowe	er river dams o	on the
		dam on the river in 2	y construct	ed a new fis	snway at t	ne second low	er-most
		upstream fishways at	the remai	ning three d	ams in ord	ler to achieve	ESA and
	other justified evaluation, of progress. Other material (e.g. website links) will not be evaluated):	hydroelectric dams an ecosystem on which implementation of ef mainstem hydro dam Maine population. Ir (Downeast) on the U allow salmon and oth River watershed for t 1900s. Brookfield R Kennebec River; they dam on the river in 2 unstream fishways at	nd their op they deper fective fisl is within do a 2019, fis nion Riven her diadror the first tim enewable y construct 017. This	erations on ad. Consulta a passage ar- esignated cri- hways were c; once in pla nous species ne since the operates the ed a new fis- company ha	Atlantic s ations add e currently itical habi prescribed ace, these s volitiona dams wer four lowe shway at the s also prop	almon and the ressing the y ongoing at a tat in the Gulf d at the Ellswo new fishways l passage in the e built in the e er river dams o he second low posed to insta-	e Ill Fof orth Dam will ne Union early on the ver-most Il new ESA and

		FPA regulatory compliance; when complete, this will result in a significant			
		increase in habitat a	ccessibility in th	e Kennebec River	watersned.
			FPA	ESA	
			Relicensing	Consultations in	
			that are	place or	
		SHRU	ongoing	underway	
		Merrymeeting Bay	3	8	
		Penobscot Bay	3	4	
		Downeast Coastal	2	0	
	Current	Ongoing			
	status of				
	action:				
	II 'Completed'				
	has the				
	action				
	achieved its				
	objective?				
Action	Description	Develop and impleme	nt a freshwater p	rotection, restoration,	and enhancement
H3:	of action	strategy by 2024 for each of the three salmon habitat recovery units (actions			
	(as submitted	PD50.4, WID57.4 allu	PBS6.4, MBS7.4 and DES5.4 in the current recovery plan).		
	<i>in the IP</i>):	Geographically explicit freshwater protection restoration and enhancement			
	outcome	strategy for each of the	e three recovery i	inits. These strategie	es will explicitly
	(as submitted	consider protection of climate-resilient spawning and rearing habitats for each			
	in the IP):	recovery unit in the fa	ce of climate cha	nge.	
	Progress on	Three specific actions were completed in 2019 towards developing a			
	action to	freshwater protection, restoration, and enhancement strategy for each of the			
	date (Provide a	three salmon habitat recovery units.			
	hrief overview	1 A Final F	Pecovery Plan f	for the Gulf of Ma	ine DPS of Atlantic
	with a	salmon was	published in Ja	nuary 2019. The i	plan details recovery
	quantitative	criteria that i	nust be met for	salmon to be remo	ved from the federal
	measure, or	Endangered	Species Act. 7	The plan also ident	ifies Salmon Habitat
	evaluation. of	Recovery Ur	nit (SHRU) spec	ific actions that are	necessary to achieve
	progress.	the recovery	criteria.		
	Other	2. The results of a climate scenario planning exercise were published.			
	material (e.g.	Atlantic salm	on population r	esilience to changi	a climate conditions
	website tinks) will not be	across its cu	rrent range. T	he Project identified	ed management and
	evaluated):	research activ	vities that were	incorporated into th	e final recovery plan
		including co	nducting a rang	e wide habitat anal	ysis of key attributes
		essential to	Atlantic salm	on persistence an	d productivity; and
		identifying h	nabitat areas be	elieved to be most	resilient to climate
		change.			

	3. To operationalize the recovery plan, the two federal agencies,
	Maine Department of Marine Resources and the Penobscot Indian
	Nation implemented a one-year pilot of a new Governance strategy
	called the Collaborative Management Strategy (CMS). The CMS
	aims to ensure that resources are available to implement the recovery
	actions described in the Final Recovery Plan. A key component of
	the CMS is the formation of SHRU specific recovery teams. Each
	team is charged with planning for, and implementing recovery
	actions in each of the SHRUs. Each team must present an annual
	report describing their progress towards achieving the recovery
	criteria as described in the final recovery plan.
	In combination, the recovery plan, climate scenario planning, and CMS are
	the first steps in developing and implementing a freshwater protection,
	restoration and enhancement strategy for each of the three salmon habitat
	recovery units.
Current	Ongoing
status of	
action:	
lf	
'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. 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	Sea Lice - Minimize sea lice loads on commercial aquaculture fish being reared in
A1:	of action	marine net pens to reduce risks to salmon in the wild each year. This will be
	(as submitted	accomplished by mandatory fallowing, monitoring of lice levels (monthly when
	in the IP):	temperatures range from $6 - 8^{\circ}$ C and bimonthly when temperatures exceed 8° C),
		and mandatory treatments when thresholds for sea lice counts are exceeded (1 gravid
		female and 5 pre-adult lice).
	Expected	a) Lice loads in marine net pens maintained at a level
	outcome	b) below the pre-determined thresholds and
	(as submitted	Treatment when necessary (monitoring reveals sea lice levels above threshold
	in the IP):	levels) to ensure that risks to salmon in the wild remain low.
	Progress on	The aquaculture industry continues to exercise regularly scheduled fallowing
	action to	periods and stocking schedules in an effort to decrease lice loads. In addition,
	date	sea lice treatments are occurring seasonally at several sites in Maine. Private
	(Provide a	veterinarian services are used to properly administer the treatments if
	brief overview	needed. State and federal oversight has continued, and the industry is
	with a	complying with the permit requirements that are in place.

	quantitativo	
	quantitative measure, or other justified evaluation, of progress. Other material (e.g. website links) will not be evaluated):	Providing quantitative results of monitoring programs (e.g., lice counts) is not possible as Maine law prohibits the government from making public any data that can be linked to individual people or businesses. Because there is only one aquaculture company operating in Maine (Cooke Aquaculture), we have been unable to find a way that the industry can share this information without violating this regulation (which can be found in the code of Maine rules title 13-188 Ch. 5,, § 5.30). We are currently working with Cooke Aquaculture in Maine to determine if there is any way to provide information that would not violate this state regulation. Meanwhile, other efforts are ongoing in Maine to address sea lice. In 2019, NOAA Sea Grant awarded financial support to the University of Maine for project titled 'An integrated approach to addressing sea lice control in the commercial culture of Atlantic salmon.' So far, two workshops have been held to bring together state and federal regulators, industry, and academia to discuss ways to collaborate on sea lice control within the Maine salmon farming industry
	~	farming industry.
	Current	Ongoing
	status of	
	action:	
	Completed',	
	has the	
	action	
	achieved its	
	objective?	
Action	Description	Containment Minimize effects to wild salmon from genetic introgression from
A2:	of action	maintained at 100% of all salmon farms each year
	(as submitted	inalitatilea at 10070 of all samon familis each year.
	In the IP).	No ascanges of U.S. origin snawning in the rivers containing endangered salmon
	expected	No escapees of 0.5 origin spawning in the rivers containing endangered samon.
	(as submitted	
	in the IP):	
	Progress on	The aquaculture industry is required to report any escapes (min. reporting
	action to	requirement of 50 fish 2kg or more for marine pens) as a condition of their
	date	federal permits. The industry did not have any reportable escapes from
	(Provide a	commercial farms in Maine in 2019. Furthermore, the Maine Department of
	brief overview	Marine Resources' staff monitors sea run Atlantic salmon returns at many
	with a	facilities in Maine. In 2019, field biologists reported there were no captures
	quantitative	of farmed fish at these facilities. Atlantic salmon farming operations are
	other justified	concentrated in large bays and interspersed among the many islands along
	evaluation. of	Maine's coast.
	progress.	
	Other	
	material (e.g.	
	website links)	

	will not be	
	evaluated):	
	Current	Ongoing
	status of	
	action:	
	If	
	'Completed',	
	has the	
	action	
	achieved its	
	objective?	
Action	Description	Implement broodstock management protocols at conservation hatcheries on an
A3:	of action	annual basis.
	(as submitted	
	in the IP):	
	Expected	Reduce or eliminate the loss in diversity from endangered populations.
	outcome	
	(as submitted	
	in the IP):	
	Progress on	In 2019, we continued monitoring genetic diversity within seven broodstock
	action to	populations to ensure the goals of the conservation hatcheries are being
	date (Duovido a	met. Maintenance of genetic diversity remains the primary goal of the
	(Provide a	conservation natchery program: to maintain the genetic characteristics of each
	with a	and adaptation to occur, and to ansure that genetic diversity is not being lost
	quantitative	inadvartantly due to management practices. Estimates of heterozygosity
	measure, or	(observed and expected) compared over time within a broadstock and
	other justified	(observed and expected) compared over time within a broodstock and between broodstocks indicate that similar levels of diversity are present in
	evaluation, of	each broodstock: however, some broodstocks, particularly the Pleasant River
	progress.	have decreased estimates of allelic diversity relative to other broodstocks
	Other	likely a result of decreased broodstock number. Estimates of effective
	malerial (e.g.	population size also vary between broodstocks from between 50 to 150 for
	will not be	most populations to around 500 for the Penobscot, due to the larger total
	evaluated):	broodstock number and overall population size of the Penobscot River
	,	population. The most recent estimates of effective population size are
		provided in table A3 (below) and reflect estimates of the number of breeders
		for the parr-collected broodstocks primarily from a single cohort. This is
		based on multiple year classes of returning adults sampled at time of
		spawning for the Penobscot River. Due to the difference in collection times
		and year classes, there is a lag in the sample year between the two groups.

		DE DE DE DE DE DE DE DE DE DE
	Comment	Figure A3. Estimates of effective population size for the seven Atlantic salmon broodstocks managed through the conservation hatchery program in Maine based on time of sampling: as parr for the parr-based broodstocks, and as returning adults for the Penobscot River (operated by the U.S. Fish and Wildlife Service)
	status of	Ongoing
	action: If	
	'Completed',	
	action	
	achieved its objective?	
Action A4:	Description of action (as submitted in the IP):	Reduce stocking of non-native salmonids in the freshwater range of endangered salmon to ensure that predatory and competitive effects are minimized.
	Expected outcome (as submitted in the IP):	Minimally, the current locations for stocking non-native salmonids will be maintained where only the Sandy River is routinely stocked with brown trout.
	Progress on action to date (Provide a brief overview with a quantitative	In 2019, no stocking of non-native salmonids occurred in rivers that are actively managed in support of locally adapted Atlantic salmon except for the Sandy River in the Kennebec River watershed where brown trout are routinely stocked. However, non-native Brown Trout and Rainbow Trout are routinely stocked in lakes and ponds throughout the range of the Gulf of Maine population that currently do not support wild sea-run Atlantic salmon.
	measure, or other justified	

	evaluation, of	
	progress.	
	Other	
	material (e.g.	
	website links)	
	will not be	
	evaluated):	
	Current	Ongoing
	status of	
	action:	
	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.

Changes were made to the ESA section 7 regulations that, in part, provide for a consultation process that can result in the authorization of the incidental take of endangered salmon from certain federal activities (e.g., licensing and operation of a hydroelectric facility); however, these changes were designed to clarify policies and procedures and are not anticipated to change the outcomes of consultations.

- 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.
 N/A
- 4.3 Details of any new actions to prohibit fishing for salmon beyond 12 nautical miles.

N/A

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.
N/A
4.5 Details of any actions taken to implement regulatory measures under Article 13 of the Convention including imposition of adequate penalties for violations.
N/A
North American Commission Members only:
4.6 Details of any new measures to minimise by-catches of salmon originating in the rivers of the other member.
N/A
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.
N/A