

Agenda Item 8.1 For Information

Council

# CNL(13)36

Annual Report on Actions Taken Under Implementation Plans

Canada

#### CNL(13)36

### Annual Report on actions taken under Implementation Plans for the Calendar Year 2012

The Guidelines for the Preparation of Implementation Plans and for Reporting on Progress, NSTF(06)10, indicate that the primary purpose of the annual reports is to provide a summary of all the actions that have been taken under the Implementation Plan in the previous year. In addition, details of any significant changes to the status of stocks, new factors affecting stocks, any changes to the management regime in place, and any changes to the Implementation Plan should be included in the report. Details of actions taken in accordance with Articles 14 and 15 of the Convention are also needed by the Council. **Please provide the following information to the Secretariat by 5 April 2013** 

#### Section 1: Details of any significant changes to the management outlined in the introduction to the Implementation Plan.

No significant changes.

Section 2: A description of any significant changes in the status of stocks and information on catches. The Council has asked that the following information on catches be provided:

- (a) the provisional catch of salmon in tonnes for 2012;
- (b) the confirmed catch of salmon in tonnes for 2011;
- (c) an estimate of unreported catch in tonnes for 2012;
- (d) the number of salmon caught and released in recreational fisheries in 2012.

(a) provisional catch of salmon for 2012:

- 134.7 t, equivalent to 58,562 fish in number of all sizes.
- Comprised of 79.9 t of small salmon (< 63 cm fork length) equivalent by number to 46,891 small salmon and 54.8 t of large salmon (>= 63 cm fork length) equivalent by number to 11,671 large salmon.

(b) confirmed catch of salmon for 2011:

- 178.6 t, equivalent to 77,424 fish in number of all sizes.
- Comprised of 110.0 t of small salmon (< 63 cm fork length) equivalent by number to 63,756 small salmon and 68.6 t of large salmon (>= 63 cm fork length) equivalent by number to 13,668 large salmon.

(c) unreported catch estimate for 2012

- From illegal fishing activities: 30.6 t.
- Of the 15.3 t of this unreported catch to which a location was recorded, 65% was recorded as taking place in freshwater, 35% in tidal waters, and less than 1% in marine waters.

(d) number of salmon caught and released in recreational fisheries in 2012:

- 50,811 fish, comprised of 32,531 small salmon and 18,280 large salmon.
- In total, 57% of all fished captured (retained plus released) were released in the recreational fishery.

### Section 3: A description of any new factors which may significantly affect the abundance of salmon stocks.

Section 4: An account of all actions taken under the Implementation Plan with regard to the management of salmon fisheries; habitat protection and restoration; aquaculture and related activities; and other influences affecting salmon abundance or diversity (including the marine environment).

Management Action	Reporting Update	Achieved Management Action (Yes, No, Ongoing, Completed)
	Fisheries Management	
Quebec's stocking program changed in 2012 to orient it towards restoration, rather than fisheries development. Stricter criteria take into consideration genetic diversity and vulnerability.	Only 4 rivers will have stocking efforts. A monitoring program for stocked fish started in 2012. All stocked fish are being marked.	Ongoing
	Habitat Protection and Restoration	
Action: Canada will report	Overview of Fisheries and Oceans Canada Habitat Management Program activities:	Ongoing

annually on the	Fisheries and Oceans Canada Habitat Management Program staff review development proposals	
number and	(referrals) to assess if a harmful alteration, disruption or destruction (HADD) of fish habitat is	
extent (area of	likely to result from a proponent's proposed works or undertakings. Staff may then send advice to	
habitat	the proponent on how to proceed with their works or undertakings in a manner that will comply	
affected) of	with the Fisheries Act, mainly with respect to avoiding or reducing the HADD of fish habitat as	
habitat	prohibited under section 35. Advice is commonly provided in the form of a "Letter of Advice" or	
remediation	an "Operational Statement" for low risk activities. An "Authorization" pursuant to subsection	
activities	35(2) of the Fisheries Act may be issued when HADD cannot be avoided.	
undertaken		
annually.	Québec:	
Many of these		
would be	Fisheries and Oceans Canada issued approximately 200 Letters of Advice in 2012. Advice	
corrective	typically provided in terms of specific mitigation measures required to avoid impacts on fish and	
measures to	fish habitat. In addition, there were also 22 Section 35 Authorizations issued under the <i>Fisheries</i>	
remediate	Act and approximately five were identified in freshwater habitat of Atlantic salmon.	
dated and		
deficient	Some Fisheries Act authorizations contain Atlantic salmon compensation projects:	
historical		
structures.	1. Resting pool creation downstream of a fishway in the Matane river.	
	2. Resting pool creation in the St-Jean river.	
	3. Spawning and rearing habitat creation downstream of a hydroelectric station in the	
	Franquelin river.	
	<u>Nova Scotia</u> :	
	Fisheries and Oceans Canada issued approximately 529 Letters of Advice in 2012. Advice typically provided in terms of specific mitigation measures required to avoid impacts on fish and fish habitat. In addition, there were also 20 Section 35 Authorizations issued under the <i>Fisheries Act</i> (for which habitat compensation plans would have been required) and approximately 11 were identified in freshwater habitat of Atlantic salmon.	

<u>New Brunswick</u> :
In New Brunswick, Fisheries and Oceans Canada issued approximately 263 Letters of Advice in 2012. Advice typically provided in terms of specific mitigation measures required to avoid impacts on fish and fish habitat. In addition, there were also 11 Section 35 Authorizations issued under the <i>Fisheries Act</i> (for which habitat compensation plans would have been required); approximately 4 were identified in freshwater habitat of Atlantic salmon.
Prince Edward Island:
In Prince Edward Island, Fisheries and Oceans Canada issued approximately 131 Letters of Advice in 2012. Advice typically provided in terms of specific mitigation measures required to avoid impacts on fish and fish habitat. In addition, there were also 3 Section 35 Authorizations issued under the <i>Fisheries Act</i> .
In 2012 there were three <i>Fisheries Act</i> Authorizations issued, 2 were identified in freshwater habitat and a 3rd one in estuarine/marine habitat. Habitat compensation was undertaken in the area of interest 1 was compensated for through the habitat bank established by Small Craft Harbours
One of the projects was stream restoration along Peters Brook a tributary to the West River that empties into Charlottetown Harbour. This work included brook reconstruction and bank stabilization as well as replacing a culvert that was a blockage to fish migration stabilization in an urban watercourse.
The second compensation project was the participation in the provincial ALUS voluntary program that encourages farmers to retire land from agricultural production in order to reduce soil erosion and siltation of watercourses and wetlands; improve water quality; improve and

<i>Newfoundland and Labrador</i> :	Newf	oundland	and La	brador:
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In 2012, Fisheries and Oceans Canada issued a total of 401 Letters of Advice and 2 *Fisheries Act* Authorizations in Newfoundland and Labrador. Of these, a small subset was identified as being directly related potential impacts to Atlantic salmon habitat. Specifically, 55 referrals potentially affecting Atlantic salmon were received in 2012: 49 in riverine habitat, 1 in riparian habitat, 4 in lacustrine habitat and 1 in estuarine habitat.

During the year, 27 referral reviews were completed, resulting in the issuance of 11 Letters of Advice, and 3 operational statements. No action was taken for the other 13 referrals, and there were no authorizations issued on projects directly linked to Atlantic salmon habitat.

Consequently, there were no salmon improvements completed in the last fiscal in Newfoundland and Labrador in response to compensation for *Fisheries Act* Authorizations. There were however a number of monitoring programs continuing under various Authorizations: 2 salmon habitat improvement projects associated with habitat compensation related to *Fisheries Act* 35(2) Authorizations and 1 related to a Metal Mining Effluent Regulations (MMER) project undergoing active monitoring in 2012:

- Vale Voisey Bay Mine Mill project Section 35 Authorization An area of Lomond River on the west coast of Newfoundland had drowned pulpwood removed to make area better spawning and rearing habitat for salmon (and Brook Trout). Further work was completed in 2011. Monitoring was again done in this area in summer 2012. Results showed an increase in catch per unit effort of juvenile Atlantic Salmon over pre-rehabilitation results. Monitoring to continue into the next two years.
- 2) Vale Long Harbour Nickel Processing plant Section 35 Authorization In 2010 work was completed on Northeast Placentia River. Spawning gravels were added to several sections, instream features including pools and low head barriers were also constructed at several locations to provide proper substrate and hydrology for increased spawning and rearing of Atlantic Salmon. While results of the 2012 monitoring are not available at time of writing, past monitoring results are positive.

3) Vale – Sandy Pond tailings impoundment area – MMER permit – In 2011 a major tributary of Salmon Cove River was opened up so that Salmon could re-establish themselves in the area. This tributary previously had anadromous salmon but had become blocked by vegetation due to development upstream many years ago. Vegetation was removed and salmon transfers from the other branch of the river were attempted but were not successful. Improvements were also made to several areas of the river including the addition of spawning gravels and hydrologic control instream features. While data is not yet available anecdotal evidence and conversation with proponent/consultant has confirmed the re-establishment of salmon in the tributary in question.
During a 2007 upgrade to the Rattling Brook Power generation facility DFO and Newfoundland Power Company agreed to collaborate on assessing options for reestablishment of salmon passage. On February 12, 2010, a restoration (DFO Ministerial) order was sent to Newfoundland Power. The order specified: "The fish pass is to be in place to allow downstream migration of almon kelts and smolts by May 1, 2013, and the upstream migration of grilse and adult salmon by June 10, 2014."
Construction is now completed on a fish pass which will allow for downstream migration of Balmon kelts and smolts at the Rattling Brook Power generation facility. The first downstream nigration through the fish pass is anticipated to be on schedule in the spring of 2013. Construction started on the upstream fish pass, but had to be halted due to a land ownership ssue. The relevant company is now in process of acquiring the property. Materials for upstream ish passage are on site and all of the civil engineering works have been completed. The pstream fish pass is expected to be completed in time for the upstream migration of grilse and dult salmon in 2014. There were some salmon tagged (DFO Science) with radio tags moved pstream of the dam from a nearby river to study migration patterns. More extensive fish ransfers were hampered by low water levels making capture impossible. The Norris Arm and Area Economic Development Committee has led this initiative assisted with a three-year funding rrangement with the Atlantic Salmon Conservation Foundation.

<ul> <li>DFO is currently participating in the environmental assessments for the Labrador-Island Transmission Link and Maritime Link electrical transmission projects.</li> <li>Components of both projects have the potential to impact salmon which includes: <ul> <li>Impacts to habitat due to construction of watercourse crossings associated with the development of access roads for the overhead line(s)</li> <li>Electromagnetic Fields (EMF's) of operating shoreline electrodes and subsea cable interference with salmon migration</li> </ul> </li> </ul>							
Example of activities co	mpleted by Not	n-Governmen	tal Organ	izations:			
Working with their own resources and with financial assistance of funding provided by the Atlantic Salmon Conservation Foundation since 2007 community stewardship groups in Quebec and the four Atlantic provinces have been able to improve and/or protect a significant amount of stream habitat, as shown in the table (below). In addition, approximately 3.8 million square meters of in-stream habitat has been restored to access for wild Atlantic salmon.							
	,	· · ·		•		square	
	,	· · ·		•		square TOTAL	
meters of in-stream hab	itat has been re	stored to acce	ess for wild	d Atlantic sa	almon.		
meters of in-stream habitat	itat has been re NB	NL	ess for wild	d Atlantic sa	almon. QC 10,800	TOTAL	

Action:		Ongoing
Continue to	Assessment of Fisheries and Oceans Canada Habitat Management Program activities	
enforce		
provisions of	DFO's Habitat Management and Conservation and Protection Programs work in collaboration to	
the Fisheries	monitor compliance with legislation and regulations regarding the conservation of fisheries	
Act and seek	resources and the habitat that supports them. The Minister of Fisheries and Oceans appoints	
important	fishery officers to enforce fisheries regulations and management plans as well as the habitat	
monetary	provisions of the Fisheries Act.	
penalties for		
destruction of	DFO's measures to promote compliance include, where feasible and appropriate, communication	
fish or fish	and public education; consultation with parties affected by the habitat protection provisions of	
habitat,	the Fisheries Act; and in some cases, technical assistance.	
including		
provisions for	Enforcement of the habitat protection provisions is carried-out pursuant to the Compliance and	
habitat	Enforcement Policy for the habitat protection and pollution prevention provisions of the	
restoration by	<i>Fisheries Act.</i> Enforcement actions include inspections to monitor or verify compliance;	
a guilty party.	investigations of alleged violations; the issuance of warnings, Inspector's Directions and Ministerial Orders. Court actions such as prosecutions, court orders upon conviction and suits for	
	recovery of costs can also be pursued where appropriate.	
	Compliance monitoring activities carried out by the Habitat Management Program are aimed at	
	fish and fish habitat in general, and are not generally identified as monitoring actions that relate	
	to a specific species, such as Atlantic salmon. Below is a summary of the compliance monitoring	
	activities carried out by the Habitat Management Program in 2012.	
	Quebec:	
	During 2013, 33 compliance monitoring actions where completed in Quebec. A 48% conformity	
	rate was reported, meaning that 48% of the projects were carried out in the manner consistent	
	with the advice that was provided by DFO.	

<u>Nova Scotia</u> :	
During 2012, approximately 206 compliance monitoring actions were completed in Nova Scotia. There was a conformity rate of 95%, meaning 95% of the projects were carried out in the manner consistent with the advice that was provided by DFO.	
<u>New Brunswick:</u>	
During 2012, approximately 96 compliance monitoring actions were completed in New Brunswick. There was a conformity rate of 90%, meaning 90% of the projects were carried out in the manner consistent with the advice that was provided by DFO.	
Prince Edward Island:	
During 2012, approximately 17 compliance monitoring actions were completed in Prince Edward Island. There was a conformity rate of 76%, meaning 76% of the projects were carried out in the manner consistent with the advice that was provided by DFO.	
Newfoundland and Labrador:	
During 2012, approximately 152 (with approximately 33 linked to potential impacts to Atlantic salmon) compliance monitoring actions were completed in Newfoundland and Labrador. Overall, there was a conformity rate of 97%, meaning 97% of the projects were carried out in the manner consistent with the advice that was provided by DFO.	
	Oracina
Aquaculture Ministers (CCFAM) to work in collaboration with CCFAM jurisdictions (all	Ongoing
	Scotia. There was a conformity rate of 95%, meaning 95% of the projects were carried out in the manner consistent with the advice that was provided by DFO. <u>New Brunswick:</u> During 2012, approximately 96 compliance monitoring actions were completed in New Brunswick. There was a conformity rate of 90%, meaning 90% of the projects were carried out in the manner consistent with the advice that was provided by DFO. <u>Prince Edward Island:</u> During 2012, approximately 17 compliance monitoring actions were completed in Prince Edward Island. There was a conformity rate of 76%, meaning 76% of the projects were carried out in the manner consistent with the advice that was provided by DFO. <u>Newfoundland and Labrador</u> : During 2012, approximately 152 (with approximately 33 linked to potential impacts to Atlantic salmon) compliance monitoring actions were completed in Newfoundland and Labrador. Overall, there was a conformity rate of 97%, meaning 97% of the projects were carried out in the manner consistent with the advice that was provided by DFO.

is expected by 2008 – 09.	<i>Aquatic Organisms</i> . Among other matters, the renewed Code will Revisions to the Code are needed to account for phased implementation of the National Aquatic Animal Health Program (NAAHP) by the Canadian Food Inspection Agency (CFIA). Additional opportunities may also be sought to further enhance the Code. It is expected that the renewed Code will be presented for CCFAM approval in the Fall 2013.	
Action: Amendments to the Health of Animals Regulations are expected by 2008-2009.	Regulations are current to 2012-04-23 and last amended on 2011-12-10 (http://laws- lois.justice.gc.ca/eng/regulations/C.R.C.,_c296/index.html)	This action is completed.
Action: Regional Fish Health Facility to be fully operational by 2008-09	The new Centre for Aquaculture Health and Development in St. Alban's, Newfoundland and Labrador was opened for operation on July 14, 2010. The Centre is an international model for aquatic diagnostics, marine biosecurity and energy conservation.	This action is completed.
Action: Industry to ratify New Brunswick's Code of Containment by 2008.	The Code of Containment for the Culture of Atlantic Salmon in Marine Net Pens in New Brunswick was prepared by the NB Salmon Growers' Association with the Province and Fisheries and Oceans Canada. It was finalized in June 2008 and is publicly available (http://atlanticfishfarmers.com/codes-of-containment.html).	This action is completed.
Action: Provincial regulatory amendments for the Code expected by March 2008.	The New Brunswick Regulation 91-158 under the Aquaculture Act is current to May 8, 2012 and is publicly available (http://laws.gnb.ca/en/showfulldoc/cr/91-158//20120511).	This action is completed.

Canada,	The NAC annual reporting template was ratified by NASCO Council in 2011. Canada and the	Ongoing
through the	US continue discussions on reporting for fish health.	
North		
American		
Commission,		
will work with		
the US to		
develop a		
protocol for		
the sharing of		
information		
with respect to		
disease		
incidences,		
introductions		
and transfers,		
breaches of		
containment		
and		
transgenics		
activities.		
	Other influences affecting salmon abundance or diversity (including marine environmen	nt)

Section 5: Details of any proposed revisions to the Implementation Plan.

Section 6: Information on the number of salmon that escaped from salmon farms (both freshwater and marine facilities) in 2012. The Council has asked that information be provided on the number of farmed salmon reported to have escaped from salmon farms together with an estimate, if available, of the number of escaped farmed salmon that was unreported.

See below.

## Canada, 2012

## Submitted by: Fisheries and Oceans Canada

### Summary of breaches of containment of salmonids from net cages

Species (Strain, if applicable)	Number <sup>1</sup>	Average size of fish <sup>2</sup>	Location <sup>3</sup>	Result <sup>4</sup>	Cause of the breach
Atlantic Salmon (Saint John River)	>100 fish (unable to confirm exact number until site is harvested out)	5.1 kg	ABMA 3a, Seeley's Cove, NB	No recapture attempt	Net failure-hole in net pen
Atlantic Salmon (Saint John River)	No change in bio mass observed (incident reported as potential breach; observations could not confirm losses of any fish)	4.0 kg	ABMA 3a, Seeley's Cove, NB	No recapture attempt	Net Failure-center line broke
Atlantic Salmon (Saint John River)	No change in bio mass observed (incident reported as potential breach; observations could not confirm losses of any fish)	3.4 kg	ABMA 3a, Maces Bay, NB	No recapture attempt	Net Failure- Predators (seals)
Atlantic Salmon (Saint John River)	No change in bio mass observed (incident reported as potential breach; observations could not confirm losses of any fish)	4.5 kg	ABMA 3a, Beaver Harbour/ Maces Bay, NB	No recapture attempt	Net failure- Predators (tuna breached the net)
Atlantic Salmon (Saint John River)	No reported escapes, but small numbers of escapes (<20) identified in fisheries monitoring.	Not applicable	NL	Net holes documented and repaired ranged in size from a few meshes to	Nine breaches were associated with net damage caused by sharks and tunas over a 4 week period in July-August.

	Nine predator encounter incidents and one equipment incident were reported as potential breaches. Given the locations of holes in nets, few or no escapes were expected and any losses would be below a detection threshold.		~1.5m in length. Hole locations near net bottoms unlikely to have resulted in large losses.	One breach was attributed to a mort ring tearing or abrading a hole near the bottom of the net. Escape estimates, if any, to be verified upon inventory reconciliation.
Atlantic Salmon	No reported incidents	NS		

Notes:

- 1. This should be the best estimate possible, though it is recognized that exact numbers may be difficult to obtain. Also note that methodologies for determining and numbers differ between provinces and are presently not directly comparable. Efforts are underway to resolve these differences.
- 2. Based on the codes of containment, it was agreed that average size is a more accurate measurement than life stage.
- 3. The more specific the information the better, however Bay level is considered sufficient.
- 4. This refers to using recapture methods as detailed in the relevant code of containment and summarizing the results of the recapture attempt.