

Fisheries and Oceans Canada Pêches et Océans Canada



# **Interior Fraser Steelhead**

## **BC/Canada Action Plan**

The following tables of actions were developed in collaboration between the Province of BC and the Federal Department of Fisheries and Oceans.

#### Improving Management & Governance.

Year 1 (2019/20)	Lead
Establish DFO-BC Executive Level Dispute Resolution Process.	
• Minister. Further develop collaborative management approaches through regular Minister-level meetings as agreed upon February 2019 and an updated MOU.	• DFO/BC
• Executive. Schedule regular meetings for the Director/ADM committee to	
develop options/solutions and improved relationships.	
Indigenous Collaborations on the Management of Interior Fraser Steelhead (IFS)	
• Establish an effective partnership between the Province and Indigenous partners along the full watercourse in order to determine "system scale" solutions.	• BC
Public & Stakeholder Engagement Process.	
• Undertake a public engagement process using Engage BC as well as discussion forums to collect the range of ideas and opinions.	• BC

#### Improve Production (Habitat)

Year 1 (2019/20)	Lead
Watershed Management	
New watershed fish-habitat assessment tool completed 2018. Apply to the	• BC
Thompson and Chilcotin watersheds to identify priority issues, areas and multi-	
year actions.	
Ensure the results of the watershed monitoring are incorporated into resource	• BC/DFO
management decisions, guidance and operational policy.	
For restoration issues, complete a watershed restoration plan with clear	• BC
projects priorities and a multi-year implementation plan.	
Significant investments in the Habitat Program to better support habitat	• DFO
protection, including more staff to evaluate project and development proposals	
and to support a more integrated management approach.	
Habitat Recovery – Fish Passage (old road crossings).	
Fish Passage Detailed Assessment. Complete a detailed assessment and	• BC
inventory of passage problems across the IFS staging and spawning areas.	
Direct new-funding to these priorities.	
At least 2 remediation projects completed (approx. \$300,000 each).	• BC
Habitat Recovery - Bonaparte River	
Fishway stabilization and repairs.	• DFO
• Elephant Hill Fire Recovery – Complete a Fish Passage Plan and Restoration Plan	• BC
for sediment blockages and other on-the-ground Actions by Dec 2019.	





Year 1 (2019/20)	Lead
Bonaparte River 2019 fish-passage to spawning grounds.	BC - Trap and truck
• DFO has hired a senior biologist for Kamloops as part of the DFO Re	esource completed
Restoration Unit.	• DFO
Habitat Recovery – Channelized/Lost streams	
<ul> <li>Inventory and riparian assessment of developed streams in drough</li> </ul>	t-prone areas • BC
of IFS holding and spawning habitat in order to identify remediation	-
opportunities and prioritize work (including third party).	
• Pilot 1-2 riparian remediation projects (municipal or agricultural).	• BC
Habitat Protection - Regulatory	
• <b>Riparian Areas Regulation</b> (RAR) updates completion (2019) – ir	ocreased • BC
accountability.	
RAR Effectiveness Review – Review implementation, requirements	and • BC
guidance; identify options to strengthen RAR for streams with spec	
concern.	
• Forest and Range Practices Act – improvements to fish and wat	er guidance • BC
for legislative process in 2020.	
<ul> <li>Identification and implementation of management actions for agric</li> </ul>	cultural • BC
areas.	
• Fisheries Act – completion of the Act updates in 2019 which stren	gthen the • DFO
protective measures for habitat.	
• Water Sustainability Act - Sensitive Streams. Complete the asse	ssments and • BC
implement decisions on designations (target 2019) on all holding a	
areas with a first priority on tributaries to the Thompson system. T	
will monitor conditions and be prepared to declare significant wate	
as required and regulate to protect critical environmental flow nee	-
Habitat Management/Protection – Drought and Water Flow Managem	
<ul> <li>Water allocation review – update the policy and procedures to ens</li> </ul>	
flow and condition needs for IFS are met as a priority.	
• Develop a water flow/temperature mitigation strategy. Identify dr	ought prone • BC
areas and areas that may incur water shortages and develop a miti	
to address current and future climate change impacts.	
<ul> <li>Assessment of potential alternative Irrigation opportunities/practic</li> </ul>	es in the • BC
Thompson (AGRI, FLNRORD).	
• Earlier activation of the BC Drought Response Plan. A Provincial Te	chnical • BC/DFO
Drought Working Group, with representation from the Province, Er	
Canada and Department of Fisheries and Oceans Canada, was initia	
(May 25-28) and the Drought Information Portal was activated. Con	-
the water needs in IFS holding and spawning areas is a priority. To	
implementation, each region establishes a stream-watch list early i	
for streams that are fish-bearing and have a history of mortality-ge	-
flows. Under the current low flow conditions, staff have initiated a	-
streamflow and temperature monitoring on these streams, including	
streams.	• BC





Year	1 (2019/20)	Lead
•	New regulatory tools. Immediate voluntary water conservation is being encouraged while the Province develops regulations for water usage to give	
	priority of water rights to critical environmental flow thresholds.	
Hab	itat Management / Protection – Wildfire	
•	New 2017 Chief Forester and ADM Stewardship guidance for wildfire salvage,	• BC
	ensuring critical habitat needs were equitable priority with economic interests.	
•	Review implementation and results, identify and implement improvements. Use the Watershed assessment to drive the identification and prioritization of	• BC
-	habitat recovery/management projects. I.e. ensure hydrological stability before	
	investing in in-stream remediation.	
Data and Knowledge Management		
•	Partner with Pacific Salmon Foundation to put Steelhead on the Salmon	• PSF/BC
	Explorer.	• DFO
•	Review Chum hatchery production considering implications for Interior Fraser	
	Steelhead recovery	• BC
•	Review advancements in aquaculture/hatchery techniques and update the	
	provincial policy.	• BC
•	Develop an enhanced IFS Monitoring Strategy for implementation late 2019.	• BC / DFO
•	Continue to refine the scientific understanding of IFS through BC-Federal	
	science collaborations as well as incorporation of Traditional Knowledge.	

### **Reduce Mortality / Increase Survival**

Year 1 (2019/20)	Lead
Recreational IFS Fishery	
Provincial Regulations in place for no IFS fishery.	• BC - Closure In place
Update penalties including increasing files to make them a deterrent.	• BC
Recreational Fishery Bycatch: Holding and Spawning Areas	
Recreational fishing closures for all fishing across holding and spawning areas.	<ul> <li>Closures In place</li> </ul>
Recreational Fishery Bycatch: IFS Migration Route (Fraser Mainstem)	
Illegal to retain IFS in Fraser Mainstem.	• BC - In place
Recreational Fishery for other species –	
• Fraser River – BC. While regulatory limits are in place, additional regulatory closures are being considered for 2019 to further reduce accidental	• BC
capture. These may be additional timing restrictions or species	
restrictions.	
• Fraser River – DFO. Consideration of recreational salmon fishing closures in	• DFO
times and areas where IFS may be intercepted (Fraser River Mainstem,	
Thompson and Chilcotin Rivers).	• BC / DFO
The SARA reviewed sturgeon Catch and Release fishery does not materially	
overlap with IFS. BC is seeking additional regulatory tools and consistency in	
management between the tidal and non-tidal portions of the sturgeon range.	
Non-Selective Fisheries – Bycatch.	
• Due to the extremely low numbers of fish remaining, and to retain a population	<ul> <li>BC Recommendation</li> </ul>
that is still viable to recover, BC would like to see more than 95% of the run	





Year 1 (2019/20)	Lead
protected from potential by-catch mortality. BC would also like to see a multi- year commitment in order to support development of multi-year recovery actions.	
Selective Fisheries	
<ul> <li>Invest in partnerships with First Nations in traditional selective methods.</li> <li>Work with industry to further advance selective fishing methods</li> </ul>	<ul> <li>BC &amp; DFO</li> <li>DFO &amp; BC</li> </ul>
Monitoring and Enforcement	
Increased enforcement.	• BC / DFO
<ul> <li>Guardians and Monitors – In collaboration with the First Nations Fisheries Council, improve coordination and effectiveness between provincial, federal and indigenous guardians/monitors in BC waters.</li> </ul>	• BC
Predators	
• Technical conferences and engagement hosted by DFO on the science and impacts of pinniped predation on all salmonids. This will inform future	• DFO
management discussions.	• DFO
Stock Data/Information	
• Develop a proposal for integrating data systems between BC and DFO to enable collective access to the best decision-support information.	• DFO/BC