

MAINLAND ENHANCEMENT OF SALMONOID SPECIES SOCIETY

2025 SALMON ENUMERATION PROGRAM

FISHERIES AND OCEANS AREA 12: BROUGHTON ARCHIPELAGO
MUSGAMAGW DZAWADA'ENUXW TERRITORY



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Mainland Enhancement of Salmonoid Species Society

M.E.S.S.S.

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Our surveys are conducted on the unceded territories of the Musgamagw Dzawada'enuxw Nations, we would like to thank the Kwikwasut'inuxw Haxwa'mis, Gwawaenuk and Dzawada'enuxw Nations for continuing to allow us to work in their territory.

Data collected through the annual M.E.S.S.S. salmon enumeration program contributes to historical records that inform fisheries decision making and stream restoration initiatives around Area 12. There are a large number of people working behind the scenes ultimately leading to a successful season. Thank you to Andrew Pereboom (Fisheries and Oceans Canada) for continual support of the stock assessment work in Area 12 allowing us to continue the work we do. We greatly appreciate the responsibility and opportunity to maintain consistency and quality data collection in Area 12.

A great big thank you is in order for all the amazing supporters of MESSS this season. Again we are greatly thankful for all your contributions be it time, funds, care and support. In no order, a big thank you to Ian Clevenger and Irvin Speck for helping to train us and familiarize ourselves with the streams, Chris and Hannah Bennett for their dedication and countless hours working in the background keeping things running as well as for the use of their truck to access inland streams, and Salmon Coast Society for providing hospitable accommodations. Thanks!

2025 Stream Technicians and Volunteers: Robert Humenny, Leila Krichel, Ian Clevenger, Irvin Speck, Maria Kuruvilla, Olivia Cornies, Jay Speier, Priya Payment, Raghava Payment, Birken Metza, Chris Bennett.

EXECUTIVE SUMMARY

The M.E.S.S.S. Salmon Enumeration Program's mandate is to provide long term salmon escapement data for Fisheries and Oceans Canada Management Area 12 as well as inform enhancement and conservation initiatives and policy. Fisheries and Oceans has contracted M.E.S.S.S. for salmon stock assessment since 2009. DFO systems include Ahta River (Hada River), Viner River, Embley River, Scott Cove Creek, Shoal Harbour Creek, Wahkana Creek, Maple Cove Creek, and Carriden Creek. In addition to these primary eight systems, M.E.S.S.S. has funded the enumeration of nine other local systems of interest.

A total of 107 formal surveys were conducted on 17 systems from August 21, 2025 to November 16, 2025. Escapement data was obtained via ground surveys either instream or from stream banks depending on habitat, accessibility, and water levels. Systems were enumerated every 7-14 days. Surveys focused on enumerating returning pink, chum, coho, sockeye, and kokanee (minihumps). DFO systems included 8 formal surveys of each system. The M.E.S.S.S. contracted systems had between 3 and 6 formal surveys. These surveys were timed in conjunction with historical return timing. Due to lower survey frequency, data from M.E.S.S.S. specific systems are utilized for presence and absence data or year to year comparative analysis, as opposed to a total population estimate.

Survey dates were often planned around factors that affect boat access and surveyability, such as wind forecasts, tide heights, and precipitation. The fall of 2025 began with little rain and low water levels in the streams. Later in the season there was some heavy rainfall leading to some rivers flooding their banks. While this provided salmon with the opportunity to run in the stream, it may have also scoured and buried their redds with upstream sediment.

METHODS

Enumeration Surveys

Estuary Survey

Before every stream survey, a twenty minute estuary observation was conducted. The main objective is to observe and note salmon activity in the estuary. This is typically expressed as a count of fish jumping, finning, or schooling. Observations of salmon adjacent species such as bear tracks, wolf scat, eagles perched etc., are also recorded.

Stream Surveys

A visual survey conducted on foot was used to enumerate streams. Stream surveys are either considered bank walks, where observing and counting occurs from a stream bank, or stream walks, where surveyors walk in the stream. Use of one or the other is based on multiple factors such as water levels, fish presence, impacts on fish habitat, accessibility, and trail presence. Coho jumper surveys are conducted in some systems and consist of a twenty minute survey at a designated waterfall or in other locations where it is possible to observe individuals moving through the system.

Time Frame

Surveys are conducted every 7-14 days per the DFO methodology. M.E.S.S.S. surveys are conducted during strategically selected dates based on local knowledge of peak run times and are kept within a 7-14 day timeframe. Exceptions may be made due to environmental conditions for successful viewing and/or weather windows.

Observer Efficiency %

Observer efficiency is expressed as a percentage meant to encompass the accuracy with which the technicians were able to view salmon during their survey. Factors can include light, water visibility, water levels, undercut banks/logjams, and cover for fish. Observer efficiency can also be adjusted for each species and stream reach.

Observed Count and Estimated Count

Observed count is the number of live fish counted in a survey. Morts and Jacks are recorded separately. The overall estimated count encompasses the number of observed live fish, morts, and Jacks, and is adjusted by the observer efficiency percentage and the percentage of population surveyed.

Peak Count

Can be applied to peak observed counts or peak estimated counts. References the highest number(observed/estimated) of pink/chum/coho/minihump for one survey out of the season.

Stream Sampling

Temperature, pH

Stream temperature and pH were measured during each survey. These measurements supplement the existing DFO criteria required on Stream Inspection Log datasheets and provide valuable insight into abiotic conditions in stream. These factors can have large effects on pacific salmon life cycles from egg development to thermal stress and survival in returning spawners.

Locations and Survey Reaches

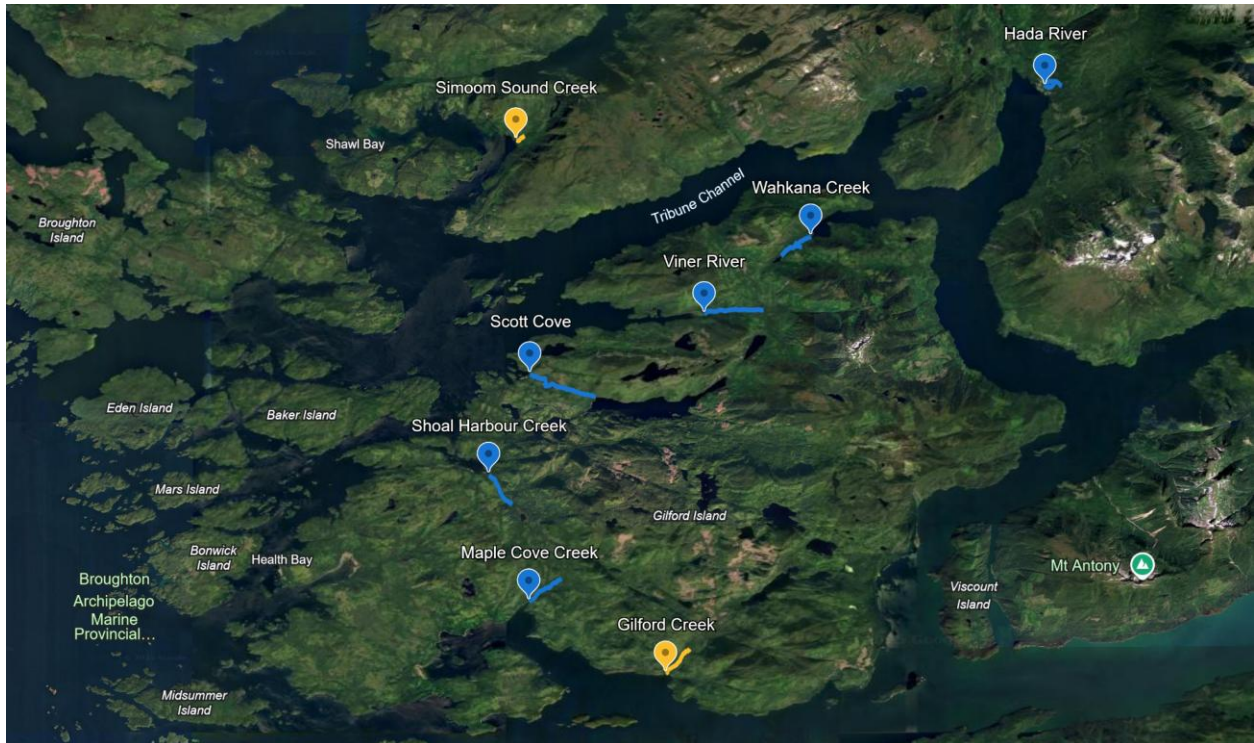


Figure 1. Map depicting the primary streams on Gilford Island and nearby mainland streams. Blue denotes the DFO streams and yellow the M.E.S.S.S. streams.

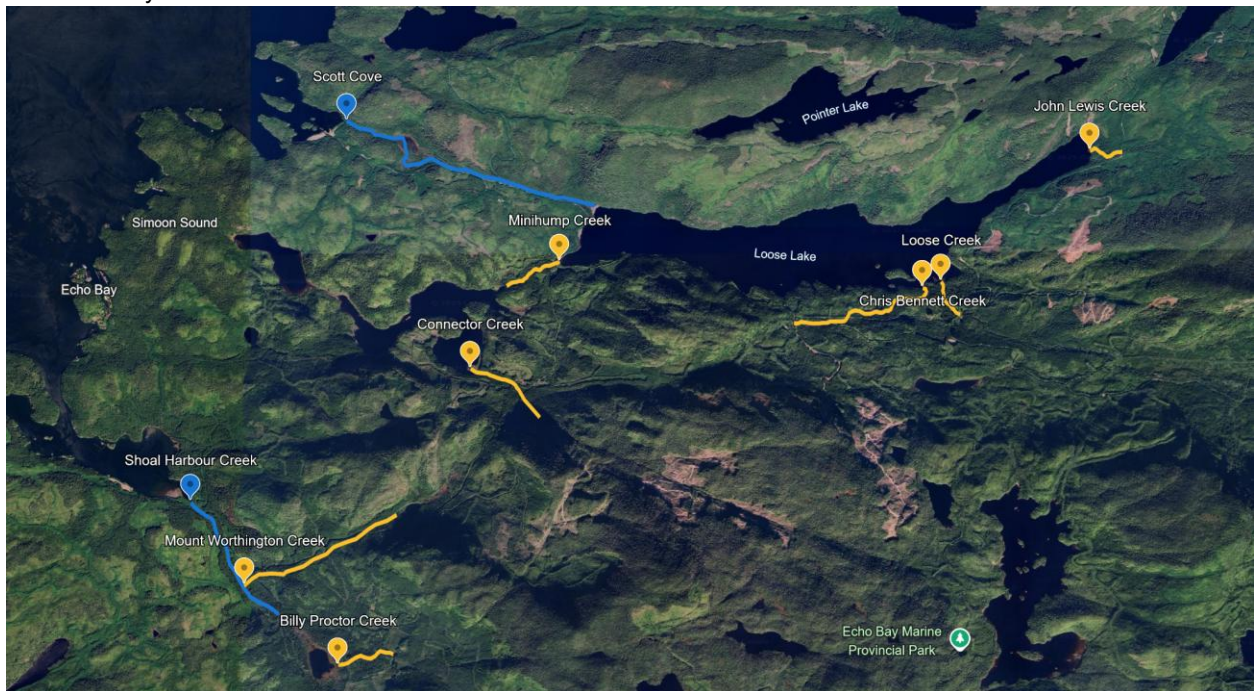


Figure 2. Map depicting a closer view of tributaries of Scott Cove system and the Shoal Harbour system.

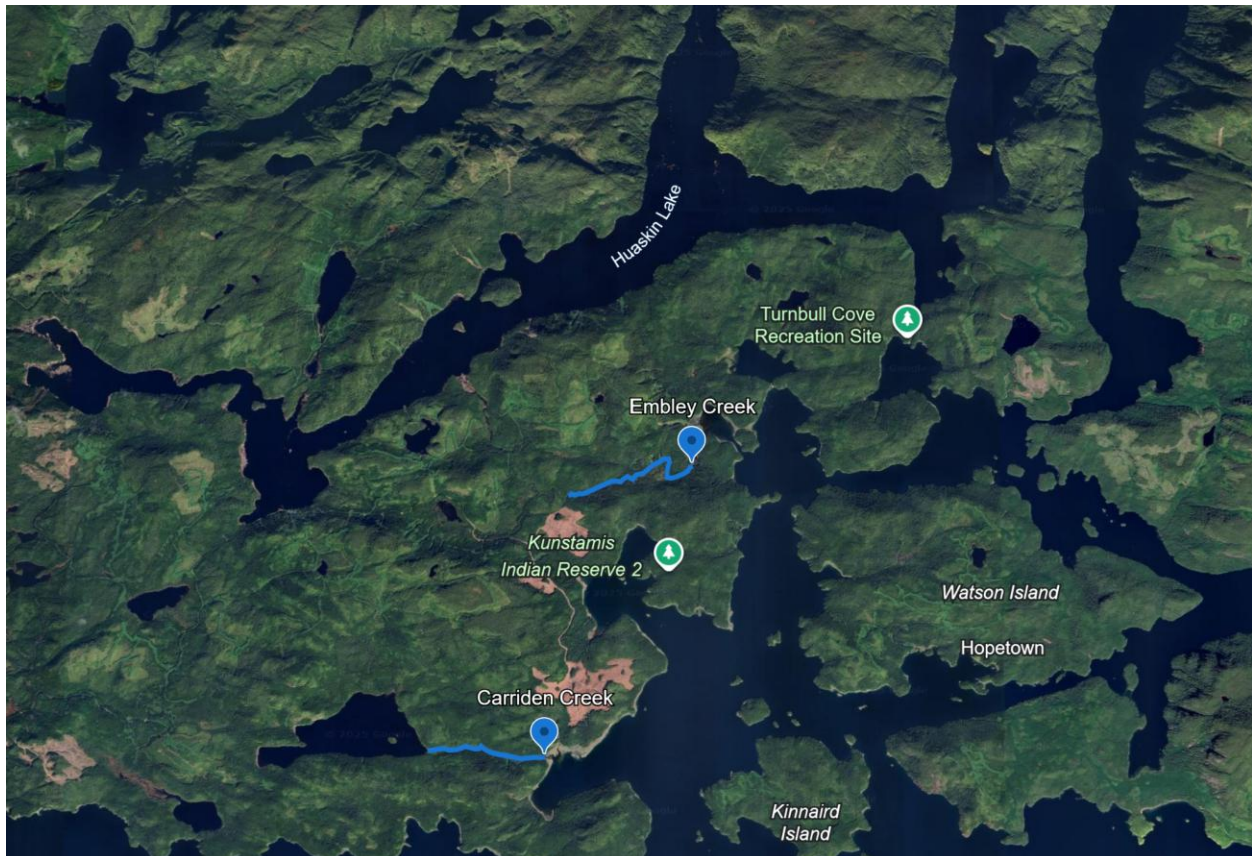


Figure 3. Map depicting the two streams near Grappler Sound.

DFO Systems

HADA RIVER (AHTA RIVER)

50°52'13.60"; 126°10'12.49"W Watershed Code(WC): 90060400
Kwíkwásut'inúxw Haxwa'mis Territory, Bond Sound

The Ahta River drains into Bond Sound to the south, through the Hada Valley. This system is a non-glacial watershed which is approximately 12.2km in length draining from a lake to the east. A steep set of falls at 1.2km upstream is believed to be a barrier to fish passage beyond and concludes the end of our survey area.

Survey Reaches:

- AHR01: 300m -Estuary to pool beyond large logjam
- AHR 02: 300m -Pool beyond large logjam to bottom of cascades
- AHR 03: 500m -Bottom of cascades to falls
- AHR 04: 400m -Where the sidechannel meets the estuary to connection with mainstem halfway up AHR02

VINER RIVER

50°47.259'N 126°22.033'W
Kwíkwásut'inúxw Haxwa'mis Territory

Watershed Code(WC): 9055750039800

The Viner River drains directly from Viner Lake, a watershed system approximately 25km². There is roughly 9km of fish habitat within the main system and its tributaries. Historically, the river was known to have supported pink, chum, coho, sockeye, steelhead and cutthroat.

Survey Segments:

VIN 01: 1000m -Estuary or river mouth to bottom of cascades/1000m
VIN 02: 1000m -Bottom of cascades/1000m to top of cascades/2000m

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VIN 03: 1500m -Top of cascades/2000m to 500m up from old bridge and 400m up tributaries

EMBLEY RIVER

50°56.984'N 126°52.819'W
Gwawaenuk Territory

Watershed Code(WC): 900730600

Embley River is a lake fed system that runs a distance of roughly 4.8km from Huaskin Lake to the estuary. Huaskin Lake is a large lake with an area of 441.7ha. Embley has been the site of recent gravel additions by M.E.S.S.S, with focus on improving spawning habitat.

Survey Segments:

- *EMB 01*: 100m -Estuary or river mouth to top of fish ladder
- *EMB 02*: 880m -Top of fish ladder to log that serves as a bridge to cross river
- *EMB 03*: 1200m -Log bridge to end of 200m of spawning gravel
- *EMB 04*: 200m -Tributary on the left bank at the bottom of the cascades
- *EMB 05*: 600m -Cascade section
- *EMB 06*: 1200m -Upstream of cascade section

SHOAL HARBOUR CREEK

50°43.953'N 126°29.472'W
Kw̓ik̓wasut̓'inux̓w Haxwa'mis Territory

Watershed Code(WC): 90555700276

Shoal Harbour Creek is located in Shoal Harbour on the Northwest end of Gilford Island. The system drains from Bridie Lake and a logging operation had previously been operational in the harbour.

Survey Segments:

- *SHO 01*: 600m -Estuary or creek mouth to pool after 600m logjam/landslide
- *SHO 02*: 1100m -Pool after logjam at 600m/landslide to Shoal M/L crossing

SCOTT COVE CREEK

50°45'59.17"N 126°27'29.96"W
Kw̓ik̓wasut̓'inux̓w Haxwa'mis Territory

Watershed Code(WC): 90555750022700

Scott Cove Creek is located within Scott Cove around the Northwest side of Gilford Island. A small hatchery for coho was run by M.E.S.S.S. at this location, terminating in 2007. A previously active Interfor logging camp is situated in Scott Cove. Scott Cove Creek drains from Loose Lake which has many tributaries that run further connecting other lakes.

Survey Segments:

- *SCO 01*: 350m -Estuary or river mouth to hatchery intake and old hatchery dam. Can be assessed instream at very low water levels or by forest trail on downstream left hand side. 20 minute jumper survey conducted at falls section(150m)
- *SCO 02*: 100m -Small lookout at 1.5km on Scott M/L views top of swampy area/large pool to secondary falls. 20 minute jumper count conducted here. If fish seen here, can check at 2.5km spur for presence as well(Carrington Bridge).

WAHKANA CREEK

50°48'58.69"N 126°18'0.54"W
Kw̓ik̓wasut̓'inux̓w Haxwa'mis Territory

Watershed Code(WC): 90555750054200

Wahkana Creek is located on the NE end of Gilford Island in Wahkana Bay on Tribune Channel. The system drains Wahkana Lake and the surrounding watershed. The main system runs for 1600-1800m from the creek mouth to the lake although many tributaries and a bog split the system up in different directions.

Survey Segments:

- *WAH 01*: 550m -Estuary or creek mouth to level pool before 3 way fork in system path
- *WAH 02*:1000m -Right fork following swampy section then up cascades to lake
- *WAH 03*: 335m -First tributary split to potentially unpassable falls

MAPLE COVE CREEK

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51°44'144"N 126°27'589"W
Kwīkwāsut'inuᖃw Haxwa'mis Territory

Watershed Code(WC): 905557500828

Maple Creek drains into Maple Cove, located on the SW end of Gilford Island within Port Elizabeth. The watershed is an area that had heavy logging activity in the recent past.

Survey Segments:

- *MC 01*: 550m -Estuary or creek mouth to logjam at 550m(used to be referred to as 400m) and orange triangle marker
- *MC 02*: 370m -Pool after logjam and triangle marker to long pool before notable logjam at 920m(used to be referred to as 800m)
- *MC 03*: 600m -920m pool to small falls near end of spur road
- *MC 04*: 100m -Small falls surveyed via 20 minute jumper count accessed from end of spur road at 5.5km on Maple M/L

CARRIDEN CREEK

50°54'40.66"N 126°54'33.45"W
Gwawaenuk Territory

Watershed Code(WC): 900735

Carriden creek is located in Carriden Bay and Grappler Sound and drains from Rosemary Lake. The creek runs for approximately 1700-1800m. Railway logging took place from 1930-1936 on the south side of the creek.

Survey Segments:

- *CAR 01*: 1800m -Estuary or creek mouth to Rosemary Lake

M.E.S.S.S Systems

SIMOOM SOUND CREEK

50°45'10"N 126°29'35"W
Kwīkwāsut'inuᖃw Haxwa'mis Territory

Watershed Code(WC): 9006544

Simoom Sound Creek is located in the Northeast corner of Simoom Sound on the mainland. This is a small system that drains an unnamed lake and various tributaries.

Survey Segments:

- *SIM 01*: 450m -Estuary or creek mouth to Falls
- *SIM 02*: 350m -Falls down side channel back to estuary

GILFORD CREEK

51°64'245"N 126°57'282"W
Kwīkwāsut'inuᖃw Haxwa'mis Territory

Watershed Code(WC): 90555750078200

Gilford Creek is located in Gilford Bay on the South end of Gilford Island that looks out across Knight Inlet. The creek drains several lakes and is a relatively large system spanning approximately 10km in length with 62km² of watershed area.

Survey Segments:

- *GIL 01*: 350m -Estuary or creek mouth to first small falls surrounded by large boulders(path up to the road can be accessed here)
- *GIL 02*: 200m -100m below and 100m above bridge 1.5km up from estuary/road end

SCOTT COVE TRIBUTARIES

MINIHUMP CREEK

50°45.207'N 126°25.669'W
Kw̱ḵw̱asuṯiṉux̱w Haxwa'mis Territory

Watershed Code(WC): 9055575003370020

Minihump Creek is located on the Northwest end of Gilford Island within the Scott Cove Area. The system flows from Townie Lake to Losse Lake which drains into Scott Cove Creek. It is accessed at 4.0km on Scott Cove M/L logging road.

Survey Segments:

- *MH 01*: 800m -Loose Lake to the pool at the bottom of the cascades. A fairly established trail on the downstream left hand side is utilized for viewing to avoid walking instream.
- *MH 02*: 200m -Cascades to Townie Lake typically not surveyed as minihumps and coho rarely seen in this segment

CONNECTOR CREEK

50°44.473'N 126°25.823'W
Kw̱ḵw̱asuṯiṉux̱w Haxwa'mis Territory

Watershed Code(WC): N/A

Connector Creek is located on the Northwest end of Gilford Island accessed via the logging roads from Scott Cove at 5.5km on the Scott Connector M/L.

Survey Segments:

- *CC 01*: 450m -Townie Lake to deactivated logging bridge or vice versa
- *CC 02*: 800m -Deactivated logging bridge to 400m upstream of Scott Connector M/L

LOOSE LAKE CREEK

50°44.937'N 126°22.099'W
Kw̱ḵw̱asuṯiṉux̱w Haxwa'mis Territory

Watershed Code(WC): 9055575003370070

Loose Lake Creek is located on the Northwest end of Gilford Island, accessed via the logging roads from Scott Cove at 9.0km on Scott Cove M/L. The system is fed by runoff from the surrounding watershed and drains into Loose Lake that subsequently drains into Scott Cove.

Survey Segments:

- *LLC 01*: 600m -Waterfall upstream of the bridge to Loose Lake(upstream of the bridge section inaccessible at flooding levels)
- *LLC 02*: 300m -Loose Lake up side tributary to forest trail back to road

JOHN LEWIS CREEK

50°45.849'N 126°20.871'W
Kw̱ḵw̱asuṯiṉux̱w Haxwa'mis Territory

Watershed Code(WC): 9055575003370070

John Lewis Creek is located on the Northwest end of Gilford Island, accessed by logging roads from Scott Cove, 11.5km up Scott Cove/Wahkana M/L. The system drains surface runoff and snowmelt from the surrounding watershed and drains into the East end of Loose Lake which subsequently drains into Scott Cove.

Survey Segments:

- *JL 01*: 450m -11.5km bridge on Scott Cove/Wahkana M/L to Loose Lake

CHRIS BENNETT CREEK

50°44.901'N 126°22.746'W
Kw̱ḵw̱asuṯiṉux̱w Haxwa'mis Territory

Watershed Code(WC): 9055575003370040

Chris Bennett Creek is located on the Northwest end of Gilford Island, accessed by logging roads from Scott Cove 7.5km up Scott Cove M/L. The system drains surface runoff from the surrounding watershed into Loose Lake which subsequently drains into Scott Cove.

Survey Segments:

- *CB 01*: 700m -300m upstream of spur road bridge and 400m downstream to culvert on Scott Cove M/L
- *CB 02*: 800m -Downstream from Scott Cove M/L at 7.5km to Loose Lake

SHOAL HARBOUR AND BRIDIE LAKE TRIBUTARIES

BILLY PROCTOR CREEK

50°42.963'N 126°27.110'W
Kwíkw̓sut'inuᖃw Haxwa'mis Territory

Watershed Code(WC): N/A

Billy Proctor Creek is located somewhat near the center of Gilford Island, accessed via logging roads from Scott Cove down an overgrown left spur off South M/L(continuation of Shoal M/L) after the Maple M/L turn off. The system drains into Bridie Lake which then drains into Shoal Harbour.

Survey Segments:

- *BP 01*: 800m -Old bridge crossing on spur road to braiding channels near swamp
- *BP 02*: 200m -Swamp to Bridie Lake

MOUNT WORTHINGTON CREEK

50°43.704'N 126°27.358'W
Kwíkw̓sut'inuᖃw Haxwa'mis Territory

Watershed Code(WC): N/A

Mount Worthington Creek is located on the Northwest side of Gilford Island and is accessed via logging roads from Scott Cove(or Shoal Harbour) on Shoal M/L at 1.5km. It is a spur tributary that drains into Shoal Harbour Creek from an unnamed lake.

Survey Segments:

- *MW 01*: 1150m -1.5km on Shoal M/L upstream to Connector M/L culvert
- *MW 02*: 450m -Upstream of Connector M/L culvert to unnamed lake

ESCAPEMENT RESULTS

Total Surveys: 107

2025 Fisheries and Oceans Systems: Formal Surveys: 64

- 8 systems enumerated every 7-14 days
 - Hada River (8 surveys)
 - Viner River (8 surveys)
 - Embley River (8 surveys)
 - Scott Cove Creek (8 surveys)
 - Shoal Harbour Creek (8 surveys)
 - Wahkana Creek (8 surveys)
 - Maple Cove Creek (8 surveys)
 - Carriden Creek (8 surveys)

2025 M.E.S.S.S. Systems: Formal Surveys: 43

- 9 systems enumerated during stream specific run timing.
 - Simoom Sound Creek (7 Surveys)
 - Gilford Creek (3 Surveys)
 - Minihump Creek (5 Surveys)
 - Connector Creek (4 Surveys)
 - Loose Lake Creek (6 Surveys)
 - John Lewis Creek (6 Surveys)
 - Chris Bennett Creek (4 Surveys)
 - Billy Proctor Creek (5 Surveys)
 - Mount Worthington Creek (3 Surveys)

FISHERIES AND OCEANS STREAMS

Hada River

2025 Surveys:

Surveyed eight times between August 22nd and November 3rd 2025 on a rotational basis every 7-14 days. Dates for surveys were generally chosen based on forecasted wind values for travel considerations. One survey on October 25 has no data collected, as the river was in extreme flood and was unsafe to survey.

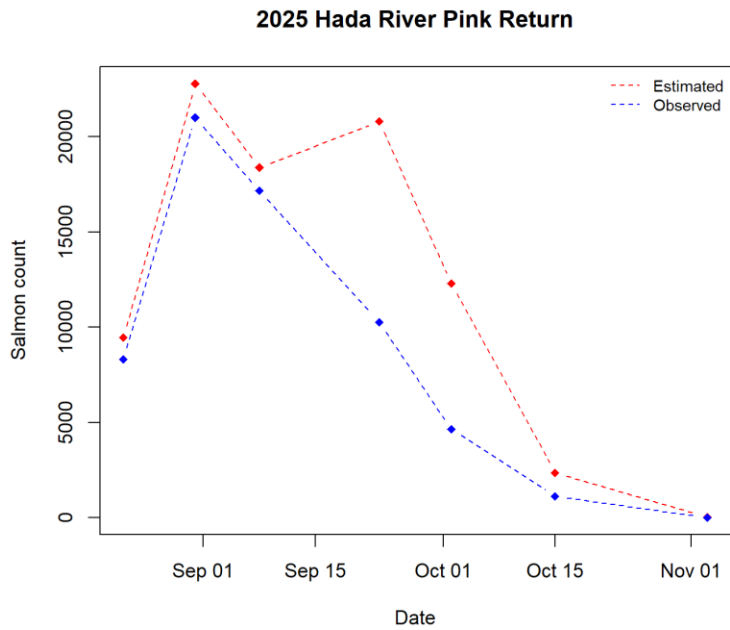


Figure 4. Observed and estimated counts for pink salmon returning to the Hada River in 2025.

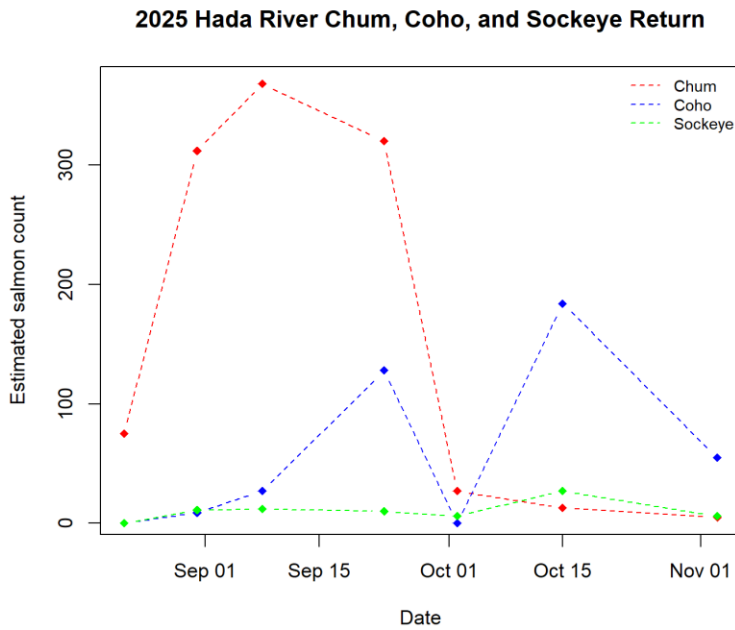


Figure 5. Estimated counts for chum, coho and sockeye returning to the Hada river in 2025.

2025 Hada River Pink Salmon:

- The peak observed count was 20990, with an estimated estimate of 22769 on August 31st.
- First observed by M.E.S.S.S. August 22nd with 8328 counted and 9464 estimated
- Last observed November 3rd with 2 counted and 28 estimated (includes morts).
- The dominant Pink run in the Ahta river occurs during even years.
- Continued large return in comparison to near term historical average (Figure 6).

2025 Hada River Chum Salmon:

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- The peak observed count was 177, with an estimate of 368 on September 8th.
- First observed in the river on August 22nd, with 65 counted and 75 estimated.
- Last observed November 3rd, with 2 counted and 5 estimated
- Above average return in comparison to five year historical estimates, but lower than 2024 (Figure 7).

2025 Hada River Coho Salmon:

- Peak observed count of 161, estimated to 184 on October 15th.
- First observed August 31st, with 8 counted and 9 estimated.
- Last observed November 3rd, with 18 counted and 55 estimated.
- Above average run, with the peak estimate surpassing that of the previous 4 years (Figure 8).

2025 Hada River Sockeye Salmon:

- Peak observed count of 25, with an estimate of 27 on October 15th.
- First observed August 31st, with 8 counted and 11 estimated.
- Last observed November 3rd, with 3 counted and 6 estimated.
- Average sockeye run compared to the previous 4 years (Figure 9).

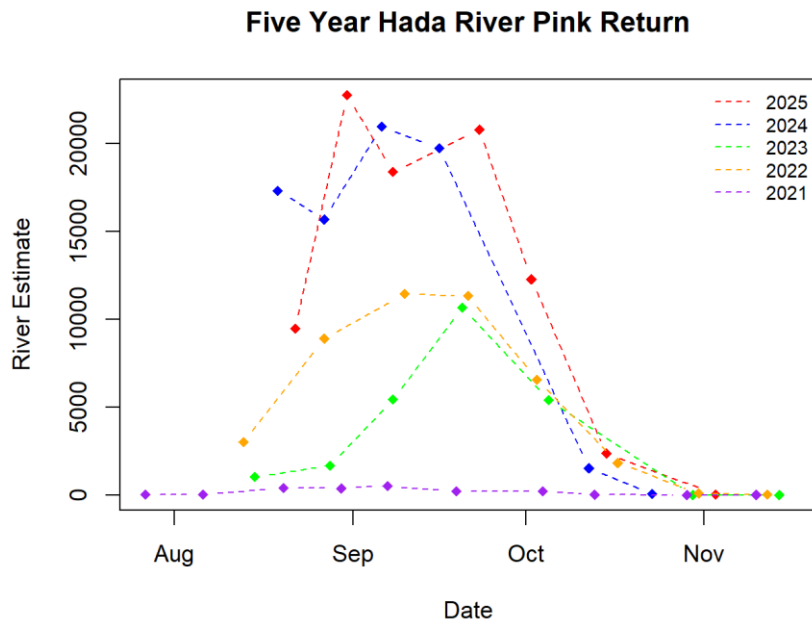


Figure 6. Historical estimated counts of pinks returning to the Hada river.

Five Year Hada River Chum Return

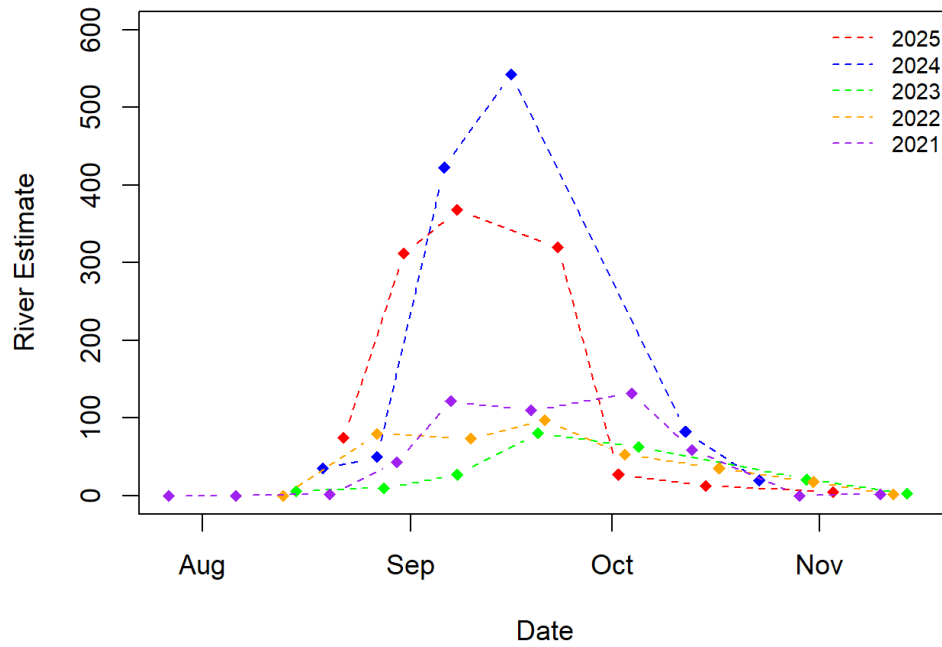


Figure 7. Historical estimated counts of chum returning to the Hada river.

Five Year Hada River Coho Return

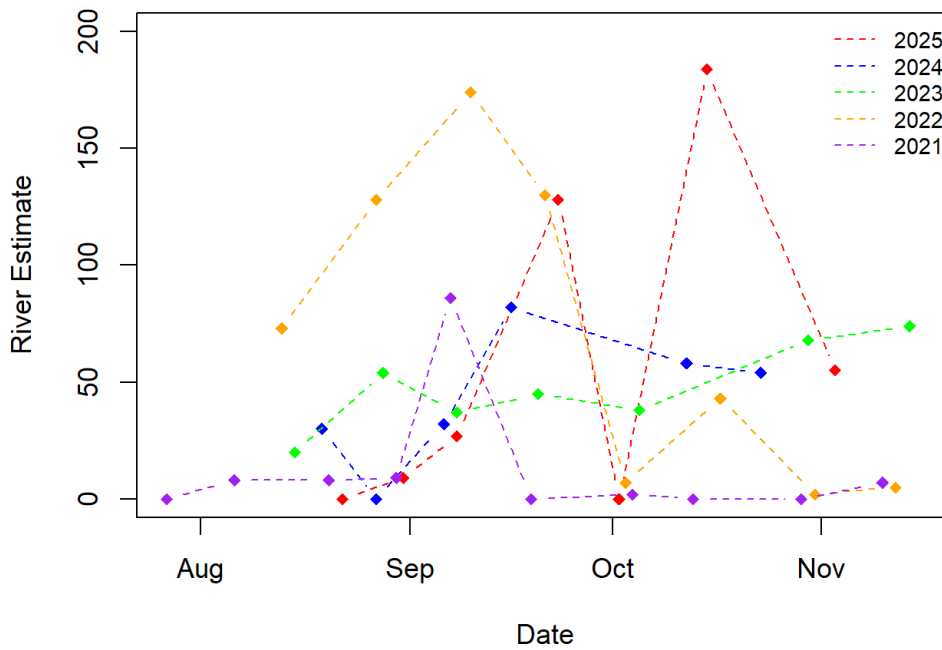


Figure 8. Historical estimated counts of coho returning to the Hada river.

Five Year Hada River Sockeye Return

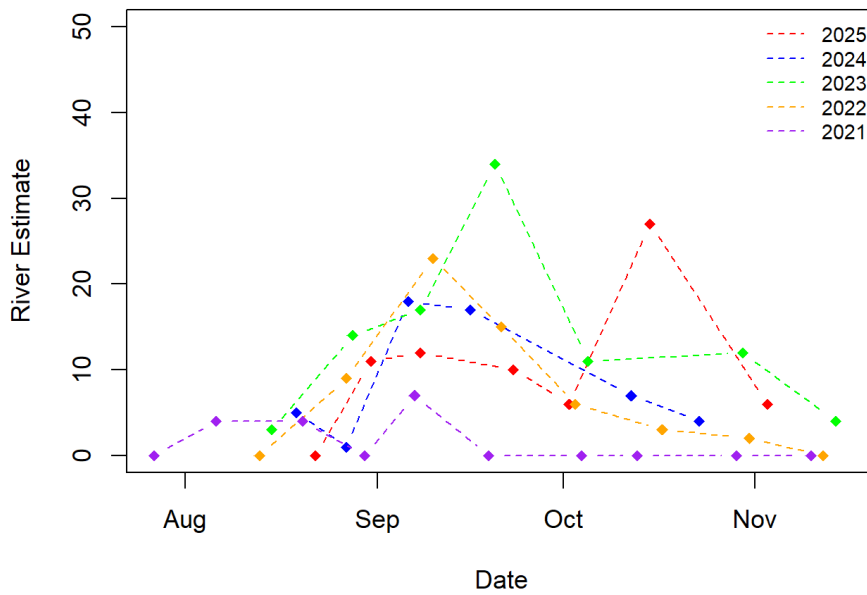


Figure 9. Historical estimated counts of sockeye returning to the Hada river.

Viner River

2025 Surveys:

Surveys began August 23rd and finished on November 2nd, 2025. Eight formal surveys were done for the 2025 season running 7-14 days apart. Surveys for 2025 were completed by anchoring in the estuary as a means of access.

2025 Viner River Pink, Chum, Coho, and Sockeye Return

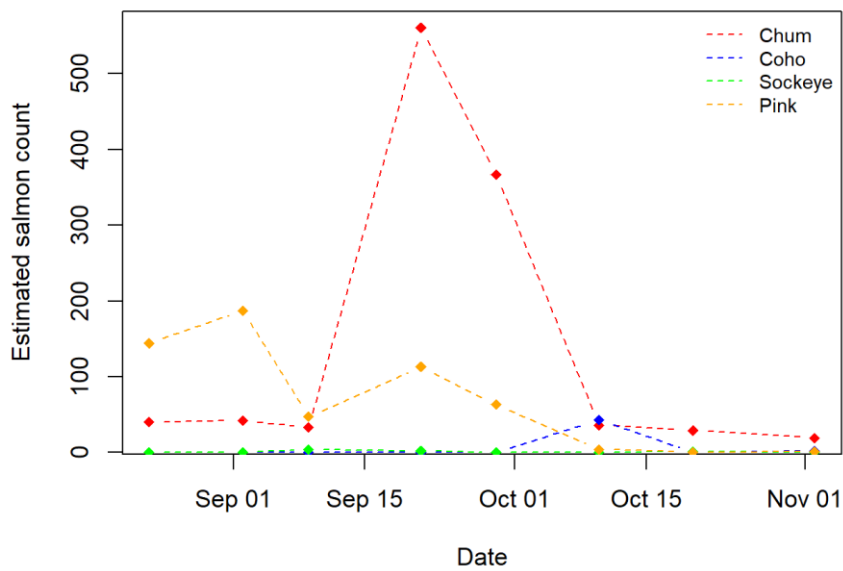


Figure 10. Estimated counts for pink, chum, coho and sockeye returning to Viner river in 2025.

2025 Viner River Pink Salmon:

- Peak observed count was 129, with an estimate of 187 on September 2nd.
- First observed on August 23rd, with 100 fish counted and 144 estimated.
- Last observed on September 29th, with 8 counted and 63 estimated.
- Large increase in total number of pinks observed in the Viner watershed in 2024 and 2025 in comparison to previous years (Figure 11). Still low compared to historical returns from 2011-2014

2025 Viner River Chum Salmon:

- Peak observed count was 406, with an estimate of 561 on September 21st.
- First observed August 23rd, with 28 counted and 40 estimated.
- Last observed November 2nd, with 12 counted and 19 estimated.
- Lower returns compared to 2024, but higher than 2021-2023 (Figure 12). Far lower returns in 2025 compared to 2015-2016.

2025 Viner River Coho Salmon:

- First observed and peak observed count was 40, with an estimate of 43 on October 10th.
- Last observed November 2nd, with 1 counted and 2 estimated.
- More coho were observed in the 2025 season than previous four years except for 2023 (Figure 13).

2025 Viner River Sockeye Salmon:

- First observed and peak observed count was 4 with an estimate of 4 on September 9th.
- Sockeye returns for the Viner River have remained negligible throughout M.E.S.S.S.' survey observations with the peak return count being in 2021.

Five Year Viner River Pink Return

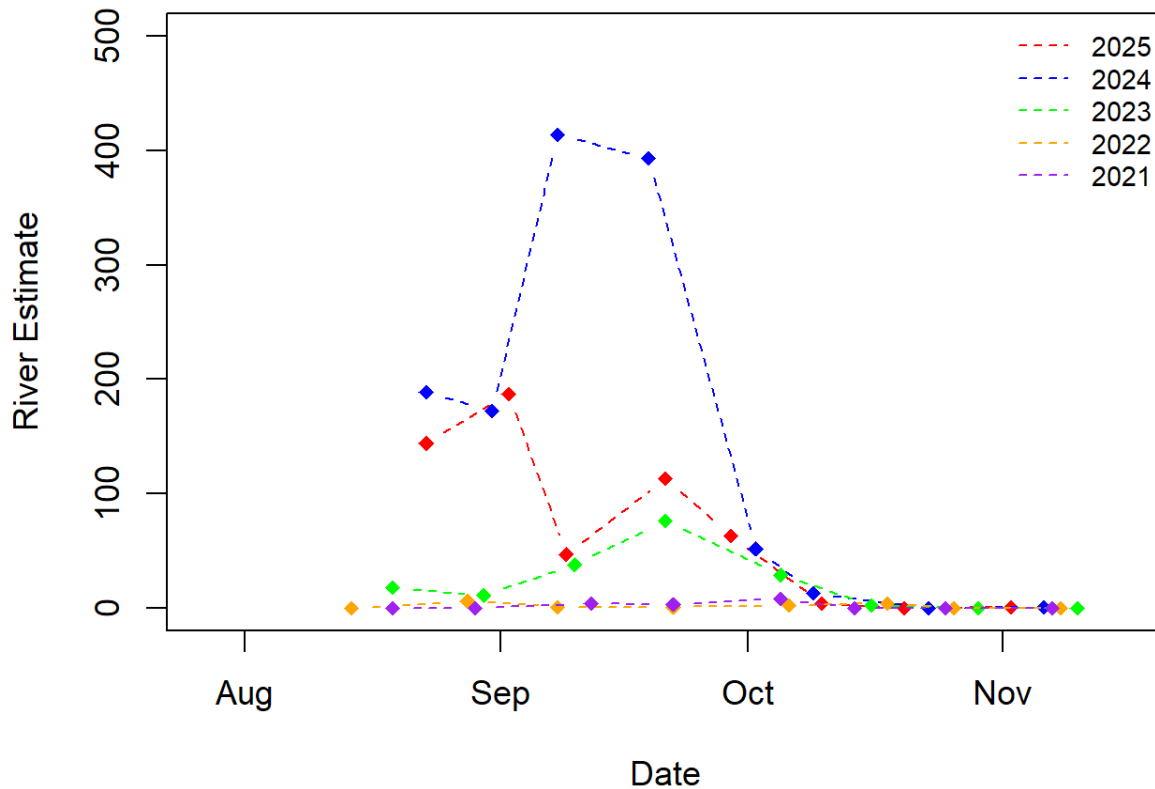


Figure 11. Historical estimated counts of pinks returning to Viner river.

Five Year Viner River Chum Return

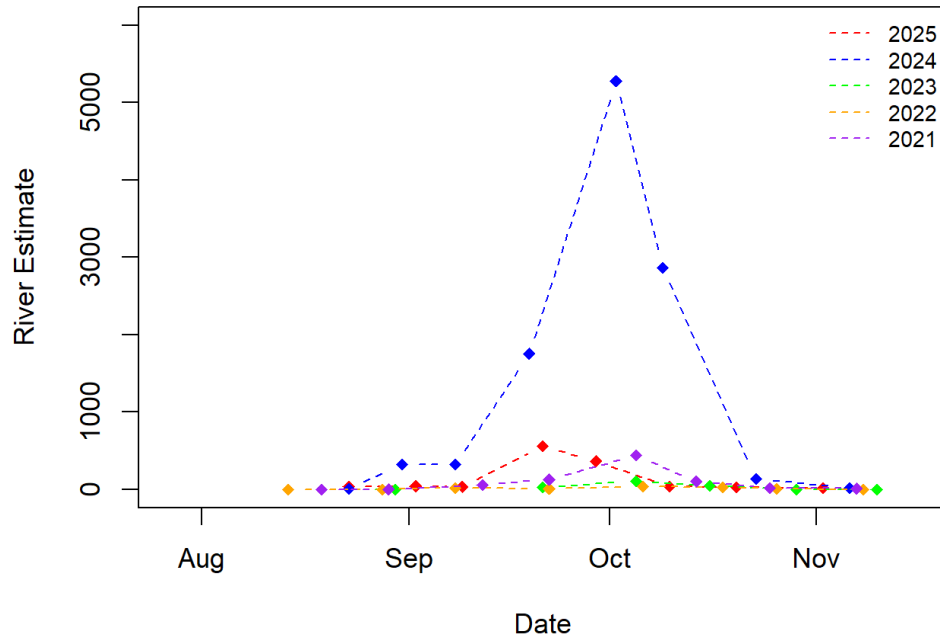


Figure 12. Historical estimated counts of chum returning to Viner River.

Five Year Viner River Coho Return

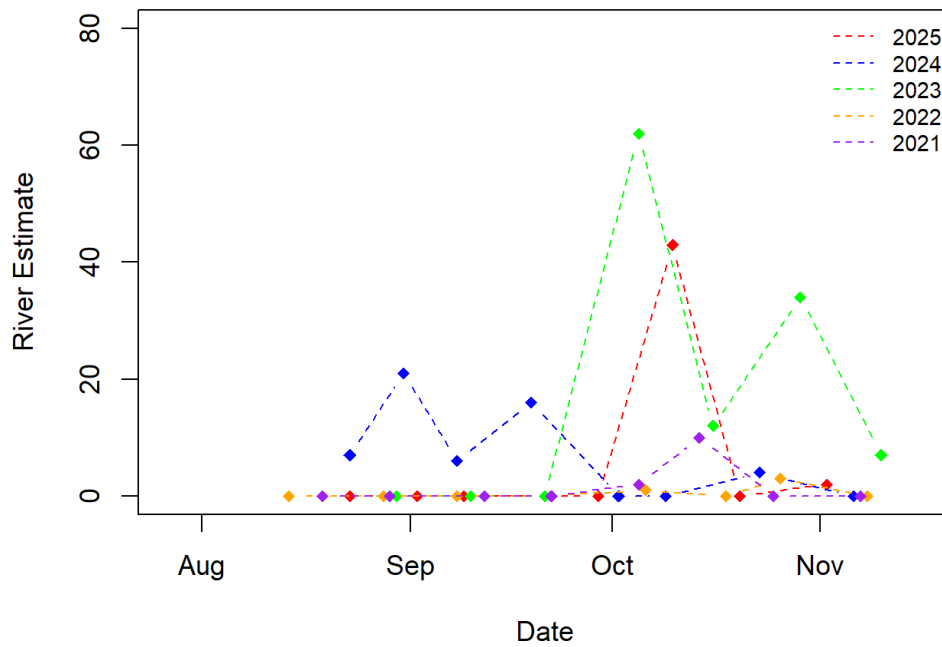


Figure 13. Historical estimated counts of coho salmon returning to Viner River.

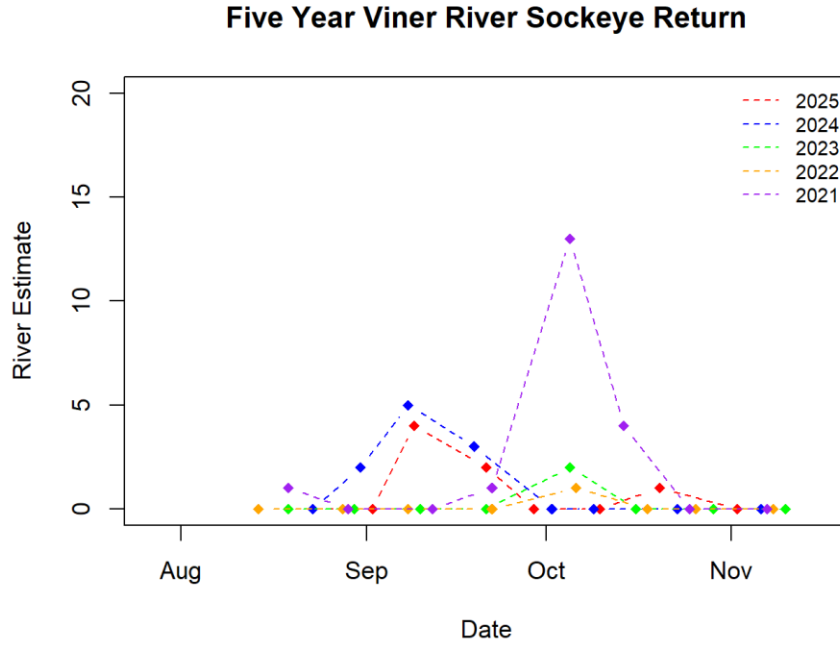


Figure 14. Historical estimated counts of sockeye salmon returning to Viner river.

Embley

2025 Surveys:

Surveyed a total of eight times starting August 25th and finishing on November 7th, 2025. The final survey on November 7th coincided with an extreme flood which made salmon enumeration of the steam impractical.

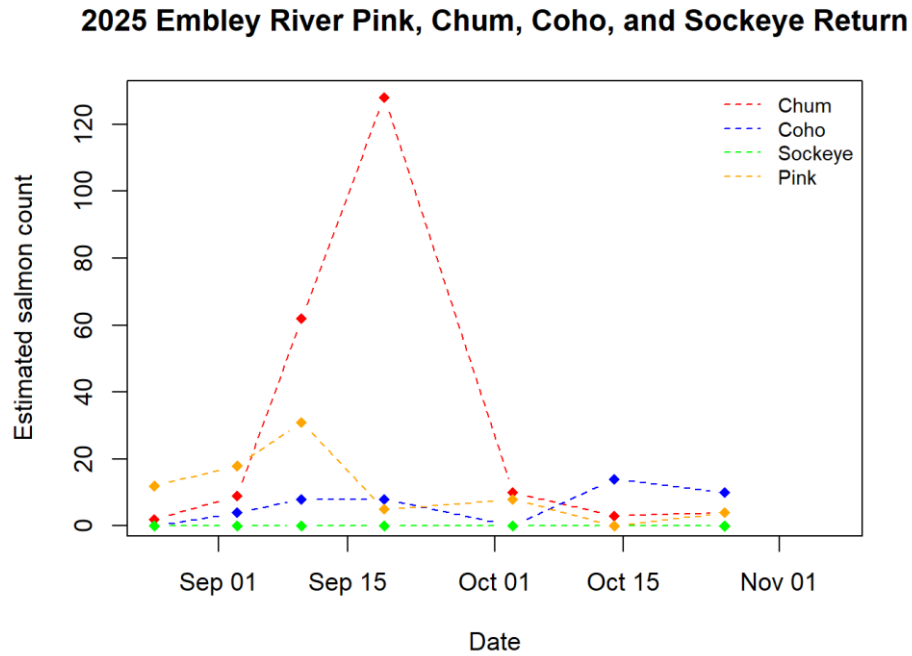


Figure 15. Estimated counts of pink, chum and coho in Embley River for 2025.

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2025 Embley River Pink Salmon:

- Peak observed count was 26, with an estimate of 31 on September 10th.
- First observed August 25th, with 6 counted and 12 estimated.
- Last live fish observed on October 3rd, with 4 counted and 8 estimated. On October 26th 4 morts were found.
- Low pink numbers in 2025 compared to the previous 4 years (Figure 16), however the M.E.S.S.S data shows that Embley has stronger pink returns on even years compared to odd.

2025 Embley River Chum Salmon

- Peak observed count was 109 and 128 estimated on September 19th.
- First observed on August 25th, with 1 counted and 2 estimated.
- Last observed on October 14th with 1 counted and 3 estimated. On October 26th 4 morts were found.
- 2025 has the highest chum returns seen in comparison to the previous 4 years (Figure 17).

2025 Embley River Coho Salmon:

- Peak observed count was 11 and 14 estimated on October 14th.
- First observed on September 3rd, with 2 counted and 4 estimated.
- Last observed October 26th with 11 counted and 14 estimated.
- Average to low returns in comparison to the previous 4 years (Figure 18).

2025 Embley River Sockeye Salmon:

- No sockeye were observed for the 2025 season and none have been reported through our M.E.S.S.S. database since 2014.

Five Year Embley River Pink Return

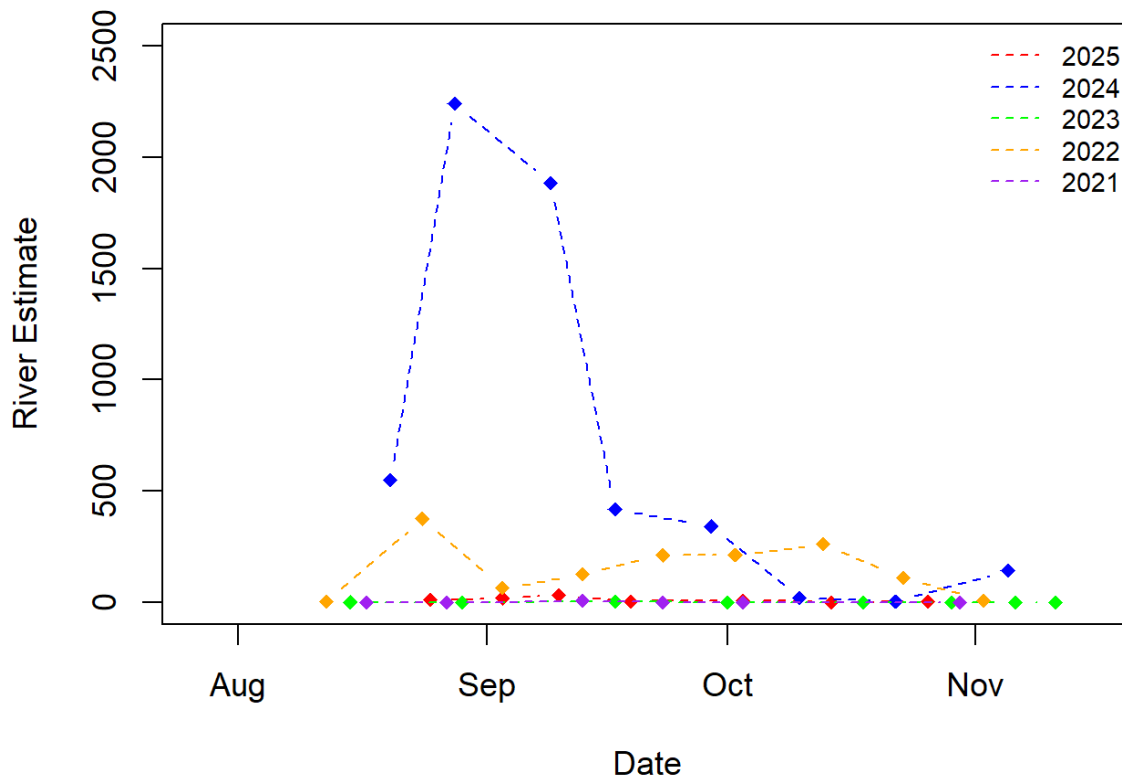


Figure 16. Historical estimated counts of pinks returning to Embley River.

Five Year Embley River Chum Return

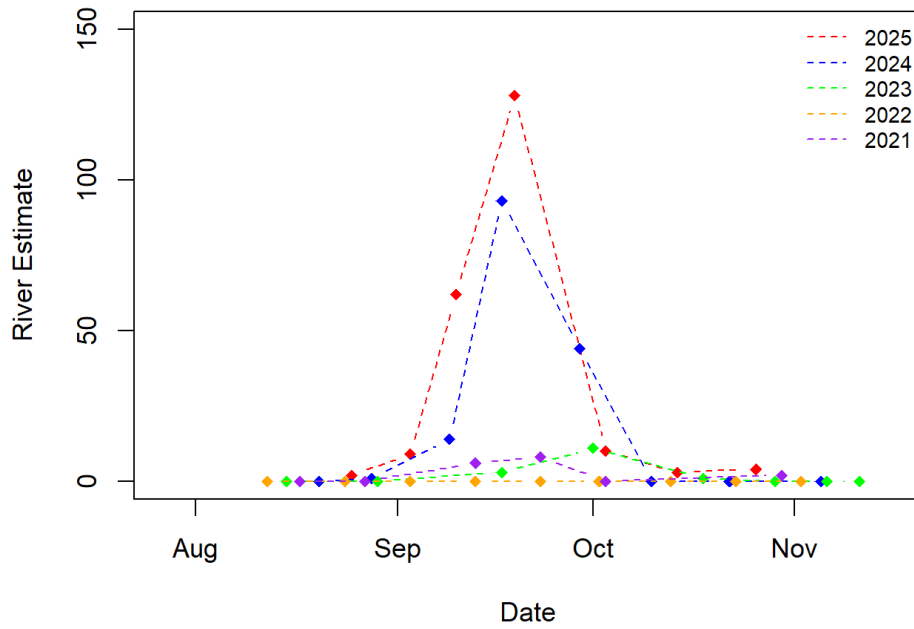


Figure 17. Historical estimated counts of Chum returning to Embley River.

Five Year Embley River Coho Return

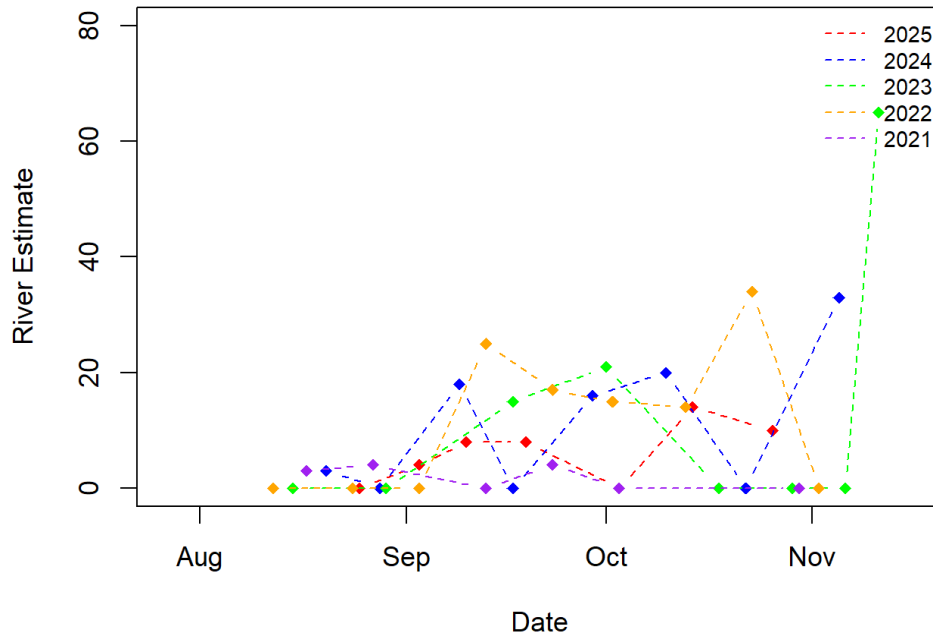


Figure 18. Five year historical estimated counts for Coho returning to Embley River.

Shoal Harbour
2025 Surveys:

The Shoal Harbour Creek was surveyed 8 times in the 2025 season from August 21st until November 4th. The stream was accessed consistently via logging roads or boat access throughout the season.

2025 Shoal Harbour Creek Pink, Chum, and Coho Return

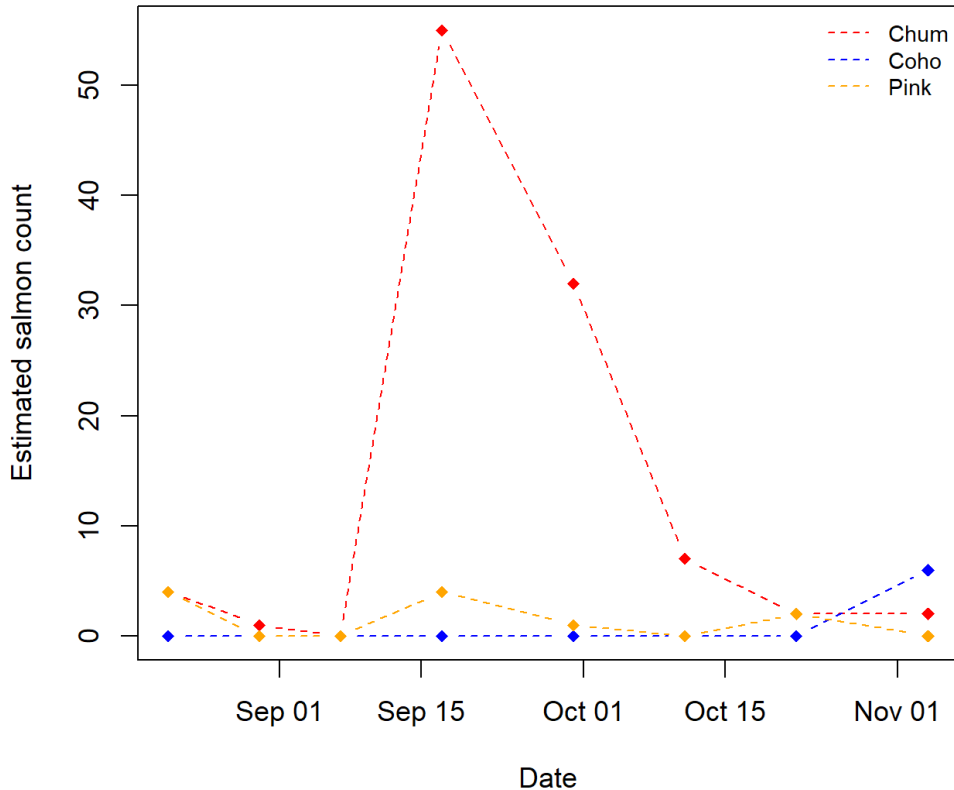


Figure 19. Estimated counts of pink, chum and coho salmon in Shoal Harbour creek for 2025.

2025 Shoal Harbour Creek Pink Salmon:

- Peak counts were on August 21st and September 17th each with 3 observed and with estimates of 4.
- The first observation was on August 21st.
- The last observation of a live fish was on September 17th and the last mort was counted on October 22nd.
- This year's estimates were lower than the last couple years (Figure 20). Pink salmon counts have remained low compared to counts from 2015

2025 Shoal Harbour Creek Chum Salmon:

- Peak observed count was 39 and estimated to 55 on October 17th.
- First observed on August 21, with 2 counted and 4 estimated.
- Last observed on November 4th, with 2 counted and 2 estimated.
- Much lower returns in 2025 compared to the 2021 and 2024 but higher than what was counted in 2022 and 2023 (Figure 21).

2025 Shoal Harbour Creek Coho Salmon:

- Coho were only observed on November 4th with 3 counted and 6 estimated.
- Coho in Shoal Harbour Creek typically spawn in Billy Proctor Creek, a tributary to Bridie Lake, and Mt Worthington Creek, a tributary to the Shoal mainstem, enumerations for these systems are noted in the M.E.S.S.S stream subsection.

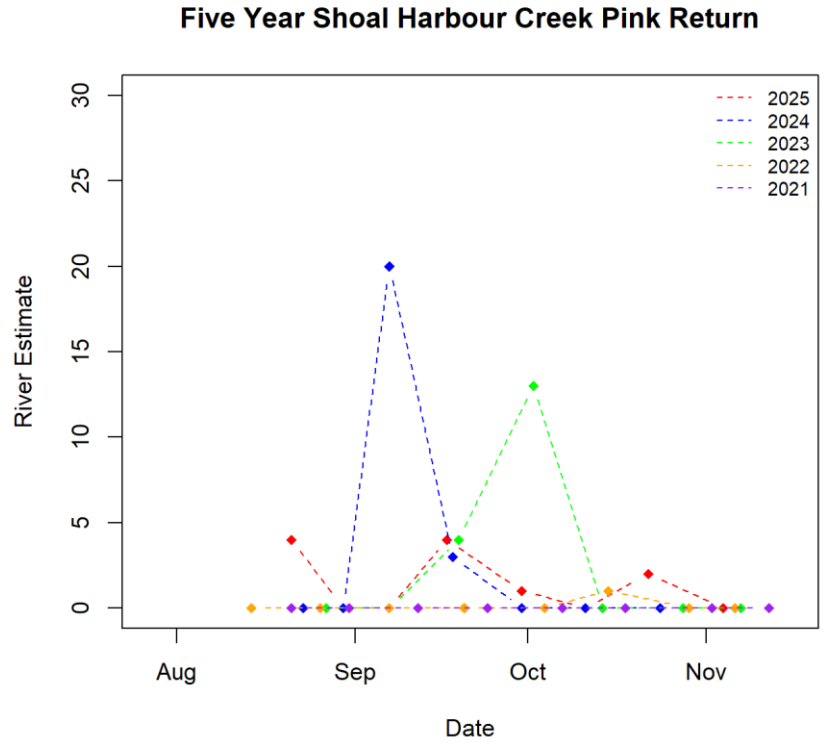


Figure 20. Historical estimated counts of pink salmon in Shoal Harbour creek.

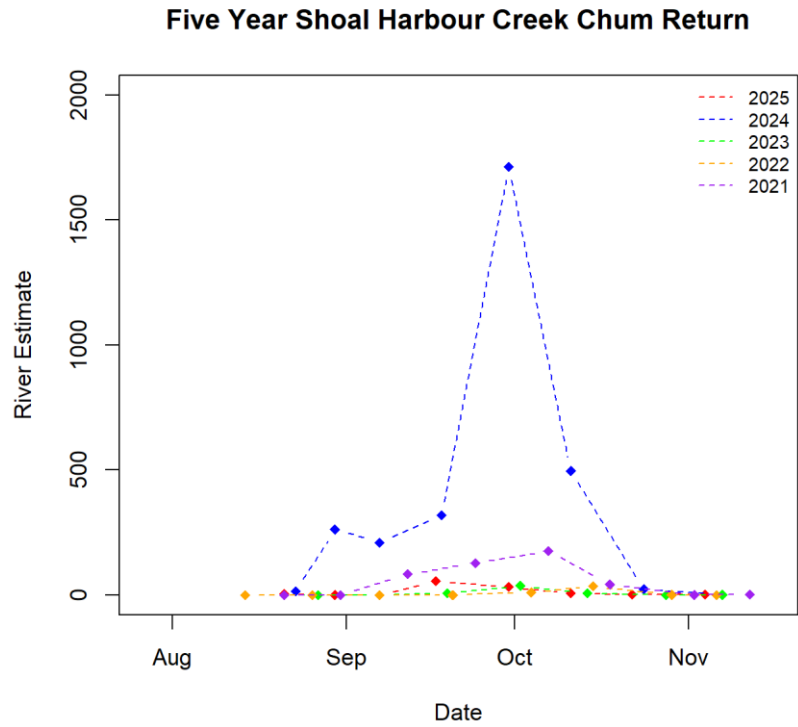


Figure 21. Historical estimated counts of chum in Shoal Harbour creek.

Five Year Shoal Harbour Creek Coho Return

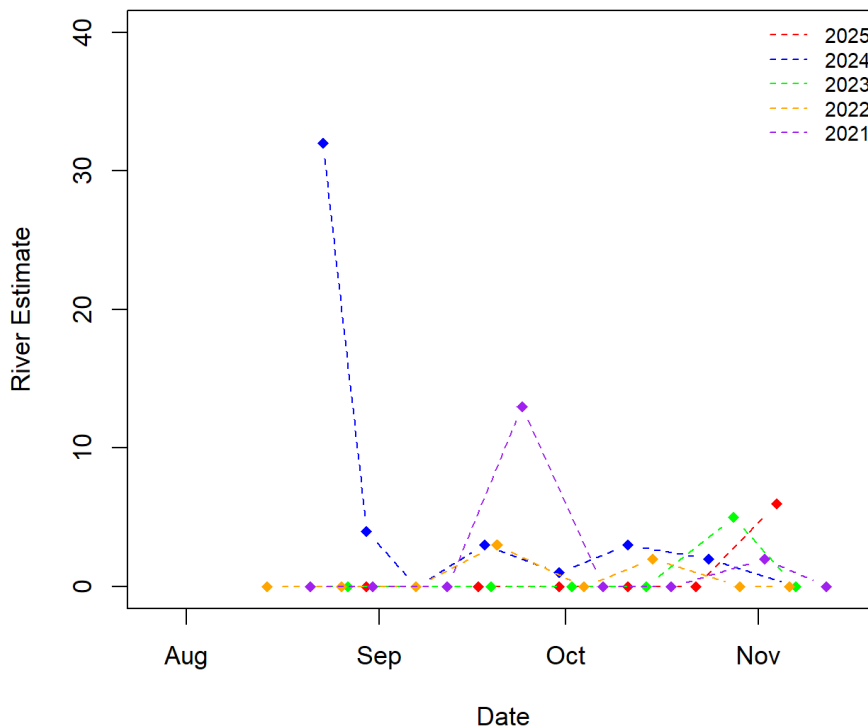


Figure 22. Historical estimated counts of coho in Shoal Harbour Creek.

Scott Cove

2025 Surveys:

Scott Cove Creek was surveyed 8 times between August 21st and November 6th, 2025 every 7-14 days. Scott Cove Creek remains accessible to survey during most weather conditions and tidal fluctuations due to its proximity to Echo Bay and docking infrastructure. This system is dominated by a few sets of falls where permeability is heavily affected by flow. Counts of Scott Cove only consisted of two 20 minute jumper surveys, and are representative of fish movement through the system rather than a typical stream enumeration.

2025 Scott Cove Pink Salmon:

- No pink salmon were observed during the 2025 season
- Pink salmon have only occasionally been sighted at Scott Cove Creek since 2009 and none have been observed on M.E.S.S.S. surveys since 2014.

2025 Scott Cove Chum Salmon:

- No live chum salmon were observed during the 2025 season.
- The Scott Cove chum run remains negligible with no live sightings since 2017 and a peak count 28 in 2009.

2025 Scott Cove Coho Salmon:

- Peak observed count was 14 on September 17th.
- First observed on August 21st with 4 counted.
- Last observed on November 6th with 13 counted.
- 2025's numbers were low in comparison to 2024 and 2023 but higher than 2022 and 2021 (figure 23).
- Coho enumeration is variable, with Scott Cove Creek's reliance on jumper counts, the data is best used for presence/absence or yearly trend comparisons as opposed to population estimates.

Five Year Scott Cove Creek Coho Return

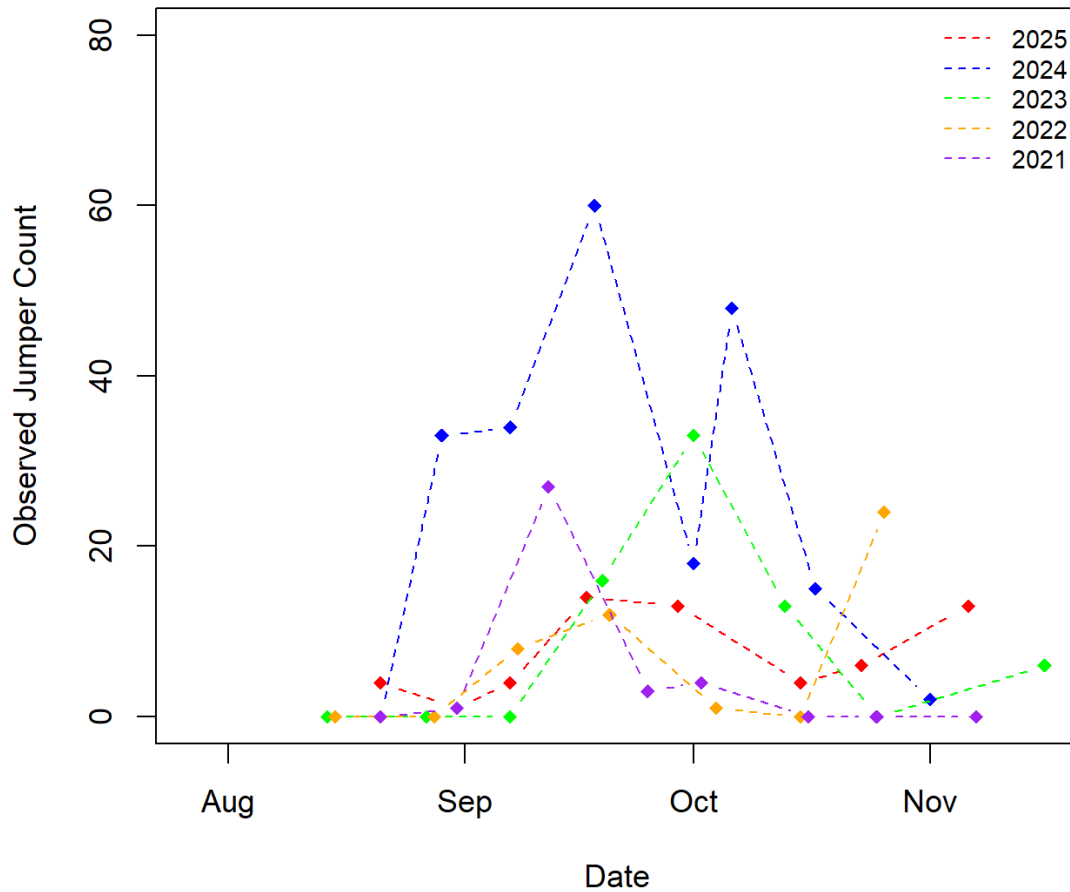


Figure 24. Historical estimated counts of Scott Cove coho spanning five years.

Wahkana Bay Creek

2025 Surveys:

Wahkana Bay Creek was surveyed 8 times between August 28th until November 3rd, 2025 with 7-14 days between surveys. Dates were often chosen based on forecasted wind values for travel by boat and a rising tide was beneficial for anchoring the boat.

2025 Wahkana Creek Pink Salmon:

- No pink salmon were observed for the 2025 season
- With the exception of the 2014 season, M.E.S.S.S pink salmon counts for this creek have been low.

2025 Wahkana Creek Chum Salmon:

- Peak observed count was only 1 fish with an estimate of 3 on October 2nd.
- First observed on October 2nd.
- Last observed on November 3rd, with 1 counted and 1 estimated.
- M.E.S.S.S chum counts for Wahkana Creek have been consistently low since 2009.

2025 Wahkana Creek Coho Salmon:

- No coho were observed during the 2025 season.
- M.E.S.S.S coho counts for Wahkana Creek have been consistently low since 2009.

M.E.S.S.S. 2025 Salmon Enumeration Program

Maple Cove Creek

2025 Surveys:

Maple Cove Creek was surveyed 8 times between August 24th until November 1st, 2025 with 7-14 days between surveys. The system is accessed by boat and by driving a vehicle from Scott Cove along Scott Cove M/L, Scott Connector M/L, Shoal M/L and down Maple M/L.

2025 Maple Cove Creek Pink Salmon:

- The only observation of pink salmon occurred on September 20th with 2 counted and an estimation of 3.
- Pink counts have remained low since 2014.

2025 Maple Cove Creek Coho Salmon:

- The only observation of coho salmon occurred on October 21st with 2 counted and an estimation of 4.
- With only 2 fish counted, 2025 has the highest coho count in the M.E.S.S.S. database since 2009.

Carriden Creek

2025 Surveys:

Carriden Creek was surveyed a total of 8 times from August 25th until November 1st, 2025. Surveys were conducted every 7-14 days and dates selected based on wind forecast values due to travel distance by boat.

2025 Carriden Creek Pink Salmon:

- No pink salmon observed for the 2025 season.
- Last observed in 2024, with 54 counted, and 87 estimated. The last large pink run was 2014.

2025 Carriden Creek Chum Salmon:

- No chum salmon observed during the 2025 season.
- No chum salmon have been counted by M.E.S.S.S stream walkers since 2009.

2025 Carriden Creek Coho Salmon:

- No coho salmon observed for the 2025 season
- Last live coho observed in stream during 2024 season.

M.E.S.S.S. STREAMS

Simoom Sound Creek

2025 Surveys:

Surveyed a total of 7 times for the 2025 season between August 30th and November 13th. Accessed by boat.

2025 Simoom Sound Creek Pink Salmon:

- No pink salmon were observed during the 2025 surveys.
- Pink salmon were observed in small numbers in 2024. Larger runs have not been observed since 2015.

2025 Simoom Sound Creek Chum Salmon:

- No chum salmon were observed during the 2025 season.
- Last observed in the system during the 2018 season.

2025 Simoom Sound Creek Coho Salmon:

- No coho observed in the system during the 2025 season.
- Coho were observed in the creek in 2024.

Gilford Creek

2025 Surveys:

Gilford Creek was surveyed 3 times between September 20th and October 21st 2025.

2025 Gilford Creek Pink Salmon:

- A single pink was counted on September 20th 2025.
- There was an estimated run of 10 pink in the creek in 2024.

2025 Gilford Creek Chum Salmon:

- No chum salmon were observed during the 2025 surveys.
- There was an estimated run of 50 chum in 2024 which was the largest chum run for this creek in the M.E.S.S.S record..

2025 Gilford Creek Coho Salmon:

- There were 9 fish counted on September 20th 2025, with an estimate of 14.
- The Gilford creek coho observations have been low since 2012. The Gilford creek system is large and drains multiple lakes.

Minihump Creek

2025 Surveys:

Minihump Creek was surveyed 5 times between October 1st and November 15th 2025. The surveys were run every 7-14 days and selected to cover the date ranges in line with historical surveys and knowledge of previous minihump run timing.

2025 Minihump Creek Kokanee (Minihump):

- Peak observed count of 1850 on October 16th with an estimated estimate of 3085.
- First observed on October 16th.
- Last observed on November 15th, with a count of 43 estimated to 215.
- Minihump returns remained strong in 2025 (Figure 25).

2025 Minihump Creek Coho Salmon:

- Peak observed count was 20 and 43 estimated on November 15th.
- First observed on October 21st, with 1 counted and 2 estimated.
- Last observed November 15th.
- Record high observed counts for coho in 2025 compared to the rest of the M.E.S.S.S database (Figure 26).

Five Year Minihump Creek Kokanee Returns

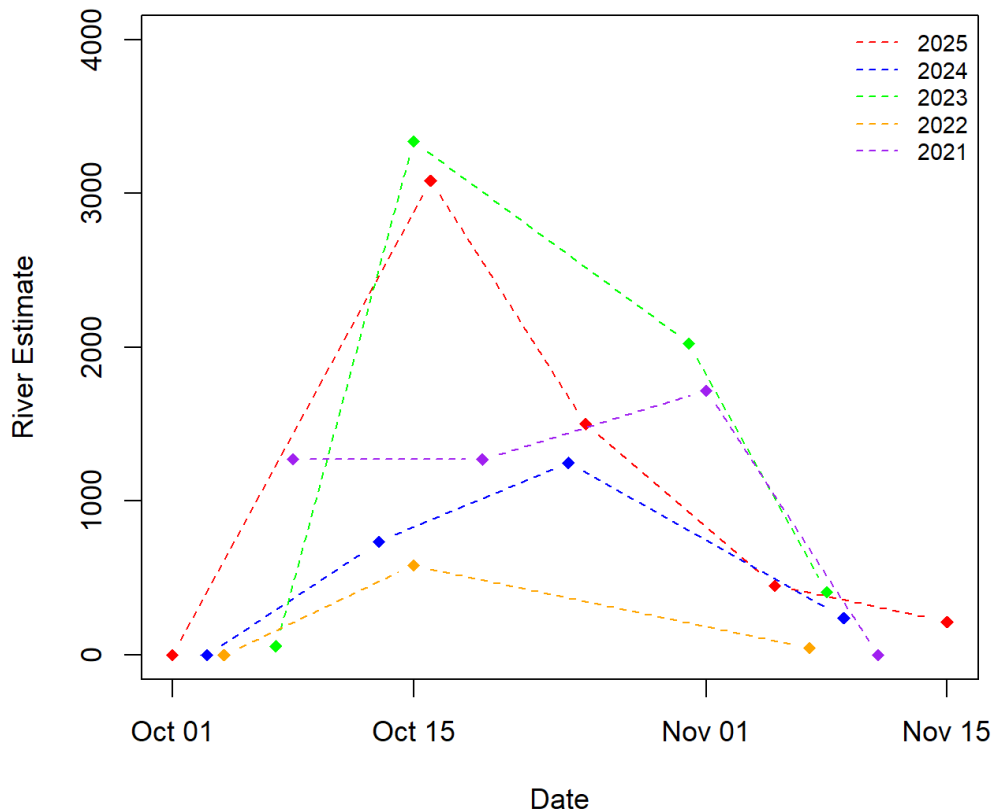


Figure 25. Historical estimated counts of Minihump Creek kokanee spanning five years.

Five Year Minihump Creek Coho Returns

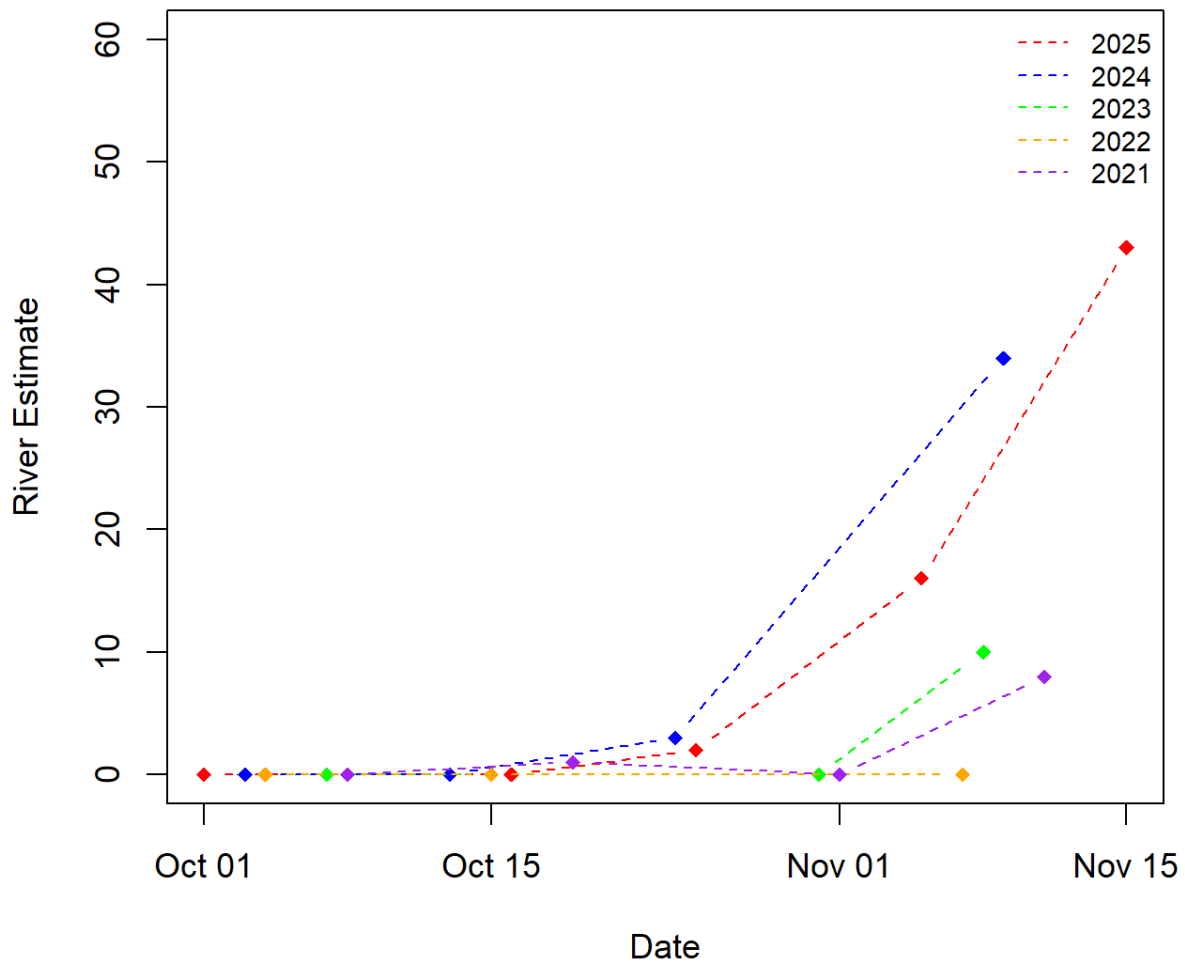


Figure 26. Historical estimated counts of Minihump Creek coho spanning five years.

Connector Creek

2025 Surveys:

The 2025 season held 4 surveys of Connector Creek from October 11th until November 15th. Surveys were held every 7-14 days based around historical surveys and previous knowledge of known returns for the system.

2025 Connector Creek Kokanee (Minihump):

- The first and only observed count occurred on October 11th with 70 counted, and 100 estimated.
- 2025 had a higher peak observed count compared to the previous 4 years, but they were only spotted on one survey (Figure 27).

2025 Connector Creek Coho Salmon:

- Peak observed count was 5 and 14 estimated on November 15th.
- First observed on October 25th, with 3 counted and 8 estimated.
- Last observed November 15th.
- 2025 had the second highest coho count in the database, only surpassed by the 2024 count (Figure 28).

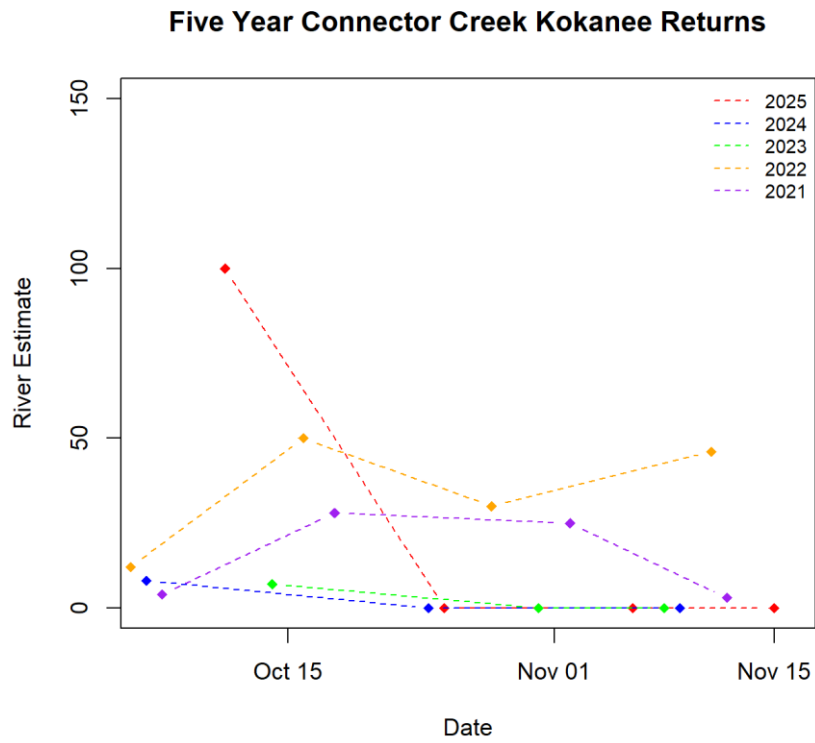


Figure 27. Historical estimated counts of Connector Creek kokanee spanning five years.

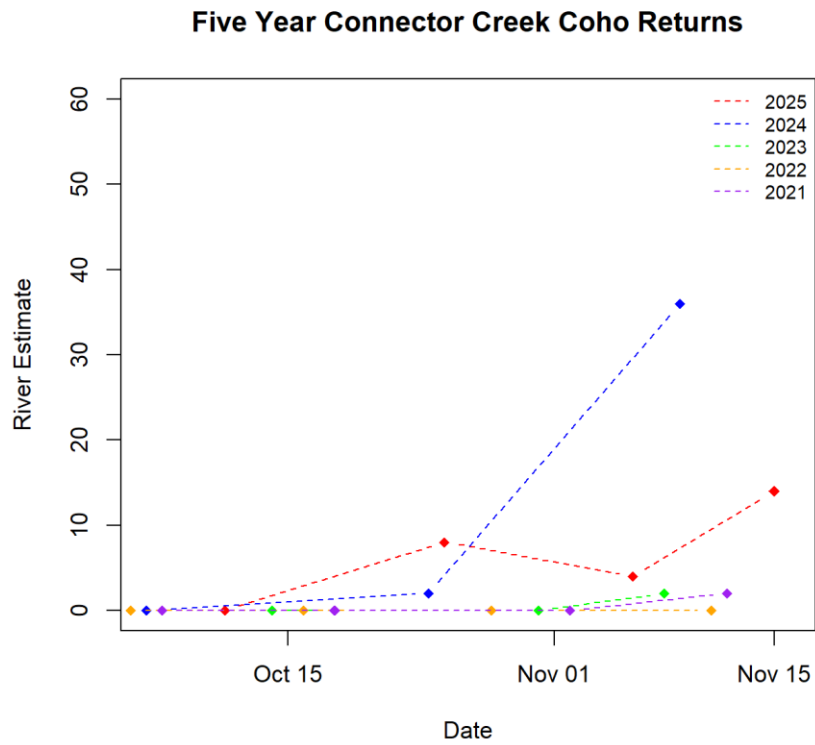


Figure 28. Historical estimated counts of Connector Creek coho spanning five years.

Loose Lake Creek

2025 Surveys:

Loose Lake Creek was surveyed 6 times between September 22nd and November 16th. Survey dates were strategically chosen based on historical surveys and local records of known return times.

2025 Loose Lake Creek Coho Salmon:

- Peak observed count was 5 and 8 estimated on November 5th.
- First observed on November 5th.
- Last observed November 16th, with 1 counted and 6 estimated.
- 2025 had the high coho returns similar to the numbers seen in 2024 (Figure 29).

Five Year Loose Lake Creek Coho Returns

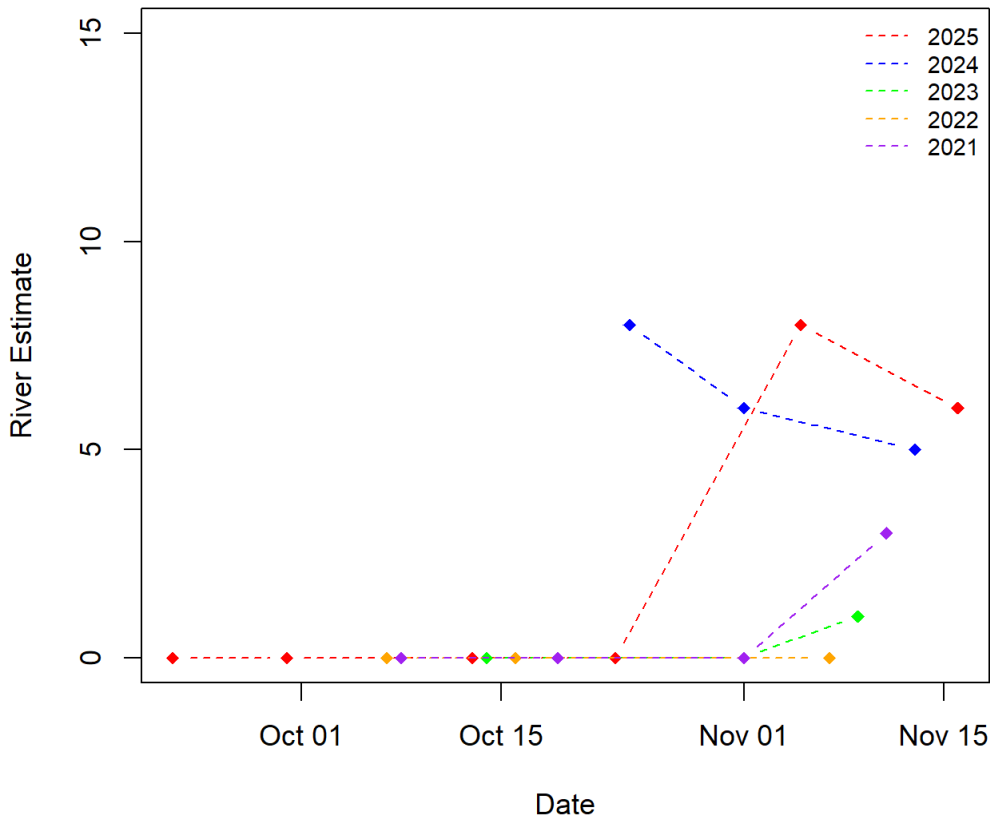


Figure 29. Historical estimated counts of Loose Lake Creek coho spanning five years.

John Lewis Creek

2025 Surveys:

John Lewis Creek was surveyed 6 times between September 22nd and November 16th, 2025. Dates were selected based on historical surveys and data indicating best times for local returns.

2025 John Lewis Creek Kokanee (Minihump):

- No minihumps observed during the 2025 season.
- Minihumps last observed in 2021 with an estimated estimate of 3.

2025 John Lewis Creek Coho Salmon:

- No coho salmon observed during the 2025 season.
- There was an estimated run of 29 coho in 2024.

Chris Bennett Creek

2025 Surveys:

Chris Bennett Creek was surveyed 4 times between October 13th and November 16th. Surveys were held 7-14 days apart, in accordance with historical returns.

2025 Chris Bennett Creek Kokanee:

- Only observed on October 13th where 5 were counted with an estimate of 10.
- 2025 has the highest kokanee count for this creek on record.

2025 Chris Bennett Creek Coho Salmon:

- Peak observed count was 6 and 8 estimated on November 5th.
- First observed on October 13th with 1 counted and 2 estimated.
- Last observed November 16th, with 2 counted and 10 estimated.
- 2025 had average numbers compared to the previous 4 years (Figure 30).

Five Year Chris Bennett Creek Coho Returns

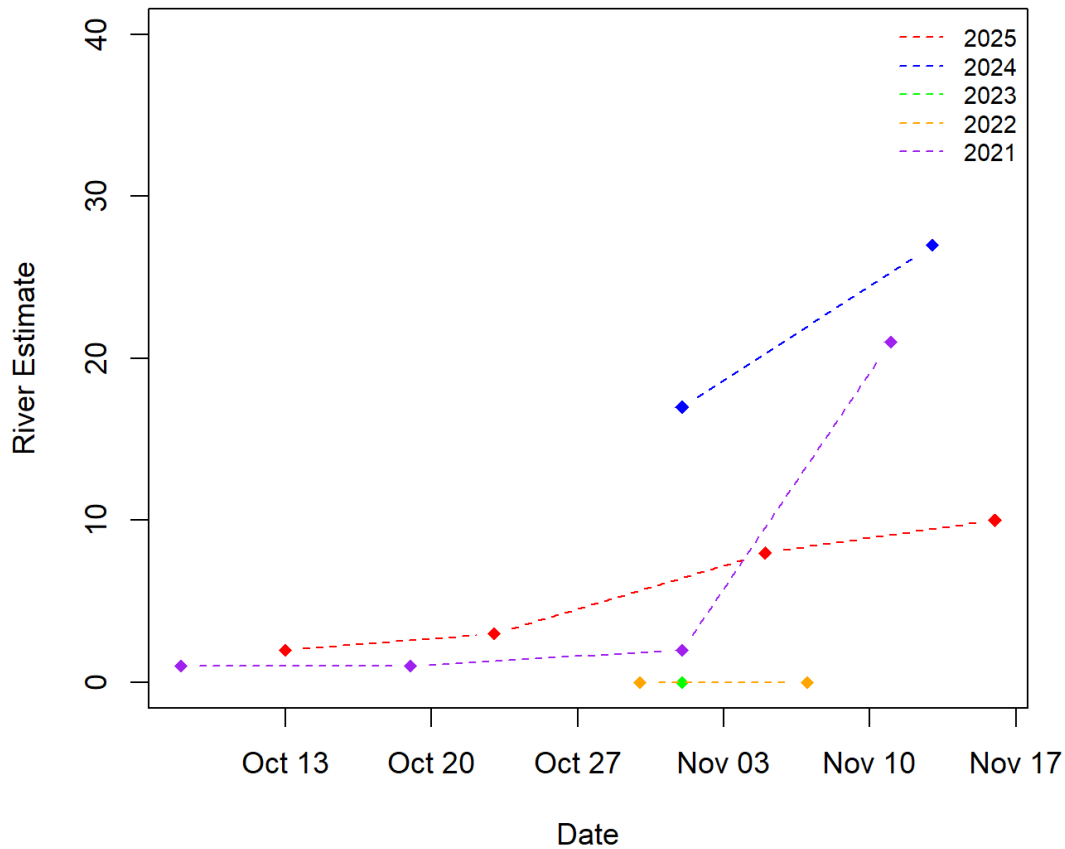


Figure 30. Historical estimated counts of Chris Bennett Creek coho spanning five years.

Billy Proctor Creek

2025 Surveys:

Billy Proctor Creek was surveyed 5 times during the 2025 season between October 1st and November 11th. Surveys were held 7-14 days apart in line with historical surveys and past records of known local returns.

2025 Billy Proctor Creek Coho Salmon:

- Peak observed count was 45 and 72 estimated (25 jacks) on November 4th.
- First observed on November 4th.
- Last observed November 11th, with 27 counted and 71 estimated.
- 2025 had the highest coho count on record with 2021 having the second highest count (Figure 31).
- Billy Proctor Creek is an ephemeral system driven by fall rains, it was almost completely dry during the first survey.

Five Year Billy Proctor Creek Coho Returns

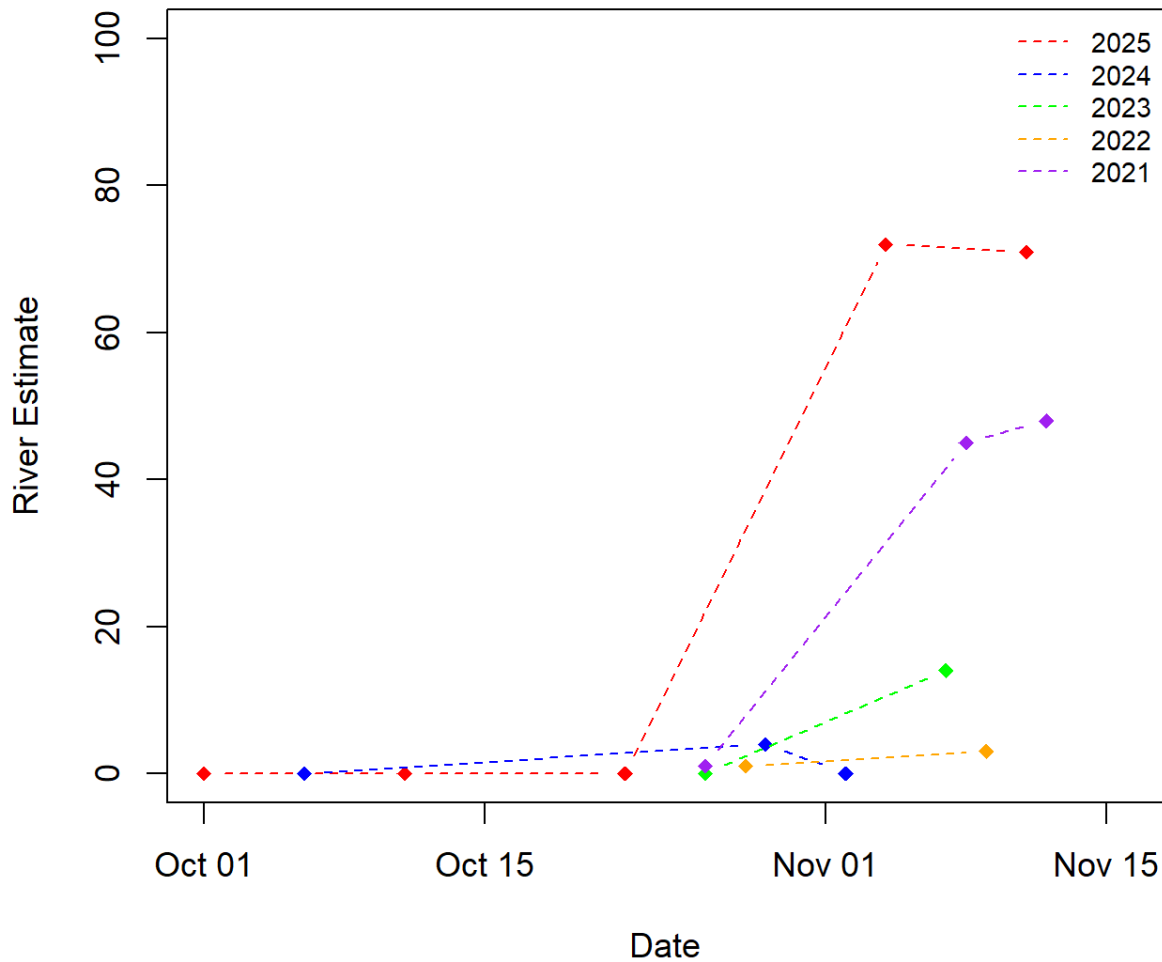


Figure 31. Historical estimated counts of Billy Proctor Creek coho spanning five years.

Mount Worthington Creek

2025 Surveys:

Mount Worthington was surveyed 3 times between October 1st and November 11th. Surveys were held 7-14 days apart in line with historical surveys and data regarding previous local returns and local knowledge.

2025 Mount Worthington Creek Coho Salmon:

- No salmon spotted in 2025.
- Only 2 coho have ever been spotted in Mt Worthington Creek since 2009.

Stream Temperature Monitoring

Viner River

Viner River is a lake and groundwater fed system on Gilford Island. It reached a peak temperature of 14.5 °C on September 2nd and a low of 7.8 °C on November 11th 2025.

Embley River

Embley River is a lake fed system on the mainland. Draining Huaskin lake, this system is driven by flows coming from the lake itself. Embley River reached a recorded high in 2025 of 19.4 °C on August 25th and a low of 9.8 °C on November 7th.

Hada River

Hada River is an alpine lake fed system located on the mainland. It reached a high of 18.5 °C on August 31st and a low of 7.6 °C on October 15 2025.

ADDITIONAL WORKS COMPLETED

Trail Maintenance

Streamside trail maintenance was completed on all systems during the first two rotations and throughout the season by Robert Humenny, Leila Krichel, and Ian Clevenger. Embley Creek requires much trail maintenance due to newly fallen trees from the end of this season. Carriden Creek, Maple Cove Creek, and Embley Creek would benefit from extra trail maintenance attention at the start of the next year.

Appendix and Summary Tables

Table 1. 2025 Stream count estimates by species and date.

STREAM	DATE	PINK/ MINIHU MP	CHUM	COHO	SOCKEYE	# OF VISITS
DFO STREAMS 2025		<i>observed/total river estimate (incl. morts & jacks)</i>				<i>total visits</i>
<i>Wahkana Creek</i>	<i>2025 Total</i>	<i>0/0</i>	<i>2/4</i>	<i>0/0</i>	<i>0/0</i>	<i>8</i>
Wahkana 1	2025/08/23	0/0	0/0	0/0	0/0	
Wahkana 2	2025/09/02	0/0	0/0	0/0	0/0	
Wahkana 3	2025/09/08	0/0	0/0	0/0	0/0	
Wahkana 4	2025/09/23	0/0	0/0	0/0	0/0	
Wahkana 5	2025/10/02	0/0	1/3	0/0	0/0	
Wahkana 6	2025/10/15	0/0	0/0	0/0	0/0	
Wahkana 7	2025/10/25	0/0	0/0	0/0	0/0	
Wahkana 8	2025/11/03	0/0	1/1	0/0	0/0	
<i>Ahta River</i>	<i>2025 Total</i>	<i>62545/86098</i>	<i>485/1120</i>	<i>276/403</i>	<i>55/72</i>	<i>8</i>
Ahta 1	2025/08/22	8328/9464	65/75	0/0	0/0	
Ahta 2	2025/08/31	20990/22769	169/312	8/9	8/11	
Ahta 3	2025/09/08	17176/18384	177/368	13/27	9/12	
Ahta 4	2025/09/23	10260/20807	59/320	76/128	7/10	
Ahta 5	2025/10/02	4661/12290	11/27	0/0	3/6	
Ahta 6	2025/10/15	1127/2356	2/13	161/184	25/27	
Ahta 7	2025/10/25	NA	NA	NA	NA	
Ahta 8	2025/11/03	3/28	2/5	18/55	3/6	
<i>Viner River</i>	<i>2025 Total</i>	<i>337/559</i>	<i>579/1127</i>	<i>41/45</i>	<i>7/7</i>	<i>8</i>
Viner 1	2025/08/23	100/144	28/40	0/0	0/0	
Viner 2	2025/09/02	129/187	27/42	0/0	0/0	
Viner 3	2025/09/09	23/47	21/33	0/0	4/4	
Viner 4	2025/09/21	77/113	406/561	0/0	2/2	
Viner 5	2025/09/29	8/63	52/367	0/0	0/0	
Viner 6	2025/10/10	0/4	11/36	40/43	0/0	
Viner 7	2025/10/20	0/0	22/29	0/0	1/1	
Viner 8	2025/11/02	0/1	12/19	1/2	0/0	
<i>Shoal Harbour Creek</i>	<i>2025 Total</i>	<i>6/11</i>	<i>60/103</i>	<i>3/6</i>	<i>0/0</i>	<i>8</i>
Shoal 1	2025/08/21	3/4	2/4	0/0	0/0	
Shoal 2	2025/08/30	0/0	0/1	0/0	0/0	
Shoal 3	2025/09/07	0/0	0/0	0/0	0/0	
Shoal 4	2025/09/17	3/4	39/55	0/0	0/0	
Shoal 5	2025/09/30	0/1	14/32	0/0	0/0	

M.E.S.S.S. 2025 Salmon Enumeration Program

Shoal 6	2025/10/11	0/0	2/7	0/0	0/0	
Shoal 7	2025/10/22	0/2	1/2	0/0	0/0	
Shoal 8	2025/11/04	0/0	2/2	3/6	0/0	
Scott Cove Creek	2025 Total	0/0	0/0	59	0/0	8
Scott Cove 1	2025/08/21	0/0	0/0	4	0/0	
Scott Cove 2	2025/08/31	0/0	0/0	1	0/0	
Scott Cove 3	2025/09/07	0/0	0/0	4	0/0	
Scott Cove 4	2025/09/17	0/0	0/0	14	0/0	
Scott Cove 5	2025/09/29	0/0	0/0	13	0/0	
Scott Cove 6	2025/10/15	0/0	0/0	4	0/0	
Scott Cove 7	2025/10/23	0/0	0/0	6	0/0	
Scott Cove 8	2025/11/06	0/0	0/0	13	0/0	
Embley River	2025 Total	52/78	171/218	29/44	0/0	8
Embley 1	2025/08/25	6/12	1/2	0/0	0/0	
Embley 2	2025/09/03	12/18	6/9	2/4	0/0	
Embley 3	2025/09/10	26/31	53/62	6/8	0/0	
Embley 4	2025/09/19	4/5	109/128	5/8	0/0	
Embley 5	2025/10/03	4/8	1/10	0/0	0/0	
Embley 6	2025/10/14	0/0	1/3	11/14	0/0	
Embley 7	2025/10/26	0/4	0/4	5/10	0/0	
Embley 8	2025/11/07	NA	NA	NA	NA	
Carriden	2025 Total	0/0	0/0	0/0	0/0	8
Carriden 1	2025/08/25	0/0	0/0	0/0	0/0	
Carriden 2	2025/09/03	0/0	0/0	0/0	0/0	
Carriden 3	2025/09/10	0/0	0/0	0/0	0/0	
Carriden 4	2025/09/19	0/0	0/0	0/0	0/0	
Carriden 5	2025/10/03	0/0	0/0	0/0	0/0	
Carriden 6	2025/10/14	0/0	0/0	0/0	0/0	
Carriden 7	2025/10/26	0/0	0/0	0/0	0/0	
Carriden 8	2025/11/07	0/0	0/0	0/0	0/0	
Maple Cove Creek	2025 Total	2/3	0/0	2/4	0/0	8
Maple 1	2025/08/24	0/0	0/0	0/0	0/0	
Maple 2	2025/09/02	0/0	0/0	0/0	0/0	
Maple 3	2025/09/11	0/0	0/0	0/0	0/0	
Maple 4	2025/09/20	2/3	0/0	0/0	0/0	
Maple 5	2025/09/28	0/0	0/0	0/0	0/0	
Maple 6	2025/10/09	0/0	0/0	0/0	0/0	
Maple 7	2025/10/21	0/0	0/0	2/4	0/0	
Maple 8	2025/11/01	0/0	0/0	0/0	0/0	

M.E.S.S.S. 2025 Salmon Enumeration Program

MESSS STREAMS 2025		<i>observed/total river estimate (incl. morts & jacks)</i>				<i>total visits</i>
<i>Gilford Creek</i>	2025 Total	1/1	0/0	9/14	0/0	3
Gilford 1	2025/09/20	1/1	0/0	9/14	0/0	
Gilford 2	2025/10/09	0/0	0/0	0/0	0/0	
Gilford 3	2025/10/21	0/0	0/0	0/0	0/0	
<i>Simoom Creek</i>	2025 Total	0/0	0/0	0/0	0/0	7
Simoom 1	2025/08/30	0/0	0/0	0/0	0/0	
Simoom 2	2025/09/17	0/0	0/0	0/0	0/0	
Simoom 3	2025/09/29	0/0	0/0	0/0	0/0	
Simoom 4	2025/10/10	0/0	0/0	0/0	0/0	
Simoom 5	2025/10/25	0/0	0/0	0/0	0/0	
Simoom 6	2025/11/02	0/0	0/0	0/0	0/0	
Simoom 7	2025/11/13	0/0	0/0	0/0	0/0	
<i>Minihump</i>	2025 Total	2234/5251	0/0	28/61	0/0	5
Minihump 1	2025/10/01	0/0	0/0	0/0	0/0	
Minihump 2	2025/10/16	1850/3085	0/0	0/0	0/0	
Minihump 3	2025/10/25	116/1501	0/0	1/2	0/0	
Minihump 4	2025/11/05	225/450	0/0	7/16	0/0	
Minihump 5	2025/11/15	43/215	0/0	20/43	0/0	
<i>Billy Proctor Creek</i>	2025 Total	0/0	0/0	72/143	0/0	5
B Proctor 1	2025/10/01	0/0	0/0	0/0	0/0	
B Proctor 2	2025/10/11	0/0	0/0	0/0	0/0	
B Proctor 3	2025/10/22	0/0	0/0	0/0	0/0	
B Proctor 4	2025/11/04	0/0	0/0	45/72	0/0	
B Proctor 5	2025/11/11	0/0	0/0	27/71	0/0	
<i>Mount Worthington Creek</i>	2025 Total	0/0	0/0	0/0	0/0	3
Mt Worth 1	2025/10/01	0/0	0/0	0/0	0/0	
Mt Worth 2	2025/10/11	0/0	0/0	0/0	0/0	
Mt Worth 3	2025/11/05	0/0	0/0	0/0	0/0	
<i>Connector Creek</i>	2025 Total	70/100	0/0	10/26	0/0	4
Connector 1	2025/10/11	70/100	0/0	0/0	0/0	
Connector 2	2025/10/25	0/0	0/0	3/8	0/0	
Connector 3	2025/11/06	0/0	0/0	2/4	0/0	
Connector 4	2025/11/15	0/0	0/0	5/14	0/0	
<i>Loose Creek</i>	2025 Total	0/0	0/0	6/14	0/0	6
Loose 1	2025/09/22	0/0	0/0	0/0	0/0	
Loose 2	2025/09/30	0/0	0/0	0/0	0/0	
Loose 3	2025/10/13	0/0	0/0	0/0	0/0	

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Loose 4	2025/10/23	0/0	0/0	0/0	0/0	
Loose 5	2025/11/05	0/0	0/0	5/8	0/0	
Loose 6	2025/11/16	0/0	0/0	1/6	0/0	
John Lewis Creek	2025 Total	0/0	0/0	0/0	0/0	6
John Lewis 1	2025/09/22	0/0	0/0	0/0	0/0	
John Lewis 2	2025/09/30	0/0	0/0	0/0	0/0	
John Lewis 3	2025/10/16	0/0	0/0	0/0	0/0	
John Lewis 4	2025/10/23	0/0	0/0	0/0	0/0	
John Lewis 5	2025/11/05	0/0	0/0	0/0	0/0	
John Lewis 6	2025/11/16	0/0	0/0	0/0	0/0	
Chris Bennett Creek	2025 Total	5/10	0/0	10/23	0/0	4
C Bennett 1	2025/10/13	5/10	0/0	1/2	0/0	
C Bennett 2	2025/10/23	0/0	0/0	1/3	0/0	
C Bennett 3	2025/11/05	0/0	0/0	6/8	0/0	
C Bennett 4	2025/11/16	0/0	0/0	2/10	0/0	

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Table 2. 2009 -2025 Stream year total count estimates for pink salmon.

STREAM	# of Visits last 17 Years 09.10.11.12.13.14.15.16.17.1 8.19.20.21.22.23.24.25	PINK																
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Wahkana	4.5.6.3.1.7.3.3.5.5.8.8.8.8.8.8.8.8.8	8/15	26/34	9/31	10/20	8/15	944/1410	7/21	13/21	0	0/1	0/0	0/0	0/0	0/0	0/0	3/22	0/0
Ahta	0.0.6.6.8.8.7.8.8.8.8.10.10.8.8.8.8	-	-	5208/60 33	25822/33 309	33620/39 960	154440/178 993	18273/22 938	1360/2 001	1088/ 1329	8752/97 54	800/1 170	1118/1 726	1117/17 54	22952/43 160	15034/2420 0	57,231/75,2 89	62545/8609 8
Viner	5.6.7.5.7.8.8.8.8.8.8.8.8.8.8.8.8.8	1621/21 47	236/570	659/215 7	3939/686 5	1414/227 8	3991/5754	250/387	66/94	100/1 44	0/0	16/21	10/13	10/15	10/14	98/174	749/1234	337/559
Shoal	5.6.9.6.7.9.6.7.7.7.8.8.8.8.8.8.8.8.8	164/233	12/50	29/75	214/354	75/130	687/1399	13/19	5/8	1/1	1/3	0/0	5/6	0/0	0/1	6/17	13/23	6/11
Scott Cove	6.7.0.7.6.7.8.8.8.8.8.8.8.8.8.8.8.8.8	27/53	2/2	0/0	2/7	0/0	437/662	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Embley	0.1.0.7.6.8.7.7.8.7.8.7.6.9.8.8.8.8.8	-	409/102 4	-	13067/23 656	74/363	274565/414 693	0/0	4842/6 602	3/5	144/249	0/0	266/41 2	1144/137 3	2/3	3486/5601	52/78	
Carriden	4.4.4.1.1.5.1.1.1.3.6.7.6.6.6.8.8.8.8	2/2	78/120	0/0	0/0	0/0	5309/10972	0/0	12/20	0/0	0/0	0/0	0/0	0/0	0/0	0/0	54/87	0/0
Gilford	6.5.6.5.7.7.1.0.2.4.6.6.8.2.2.2.2.2.2	6/6	19/36	0/1	142/228	5/89	63/105	0/0	-	0/0	0/0	0/0	0/0	0/0	1/1	0/0	4/10	1/1
Maple	5.4.5.0.3.4.3.0.3.3.3.8.8.8.8.8.8.8.8.8	0/0	20/35	4/11	0/47	0/0	56/100	0/0	-	0/0	2/6	0/0	3/6	0/1	0/0	5/7	10/17	2/3
Simoom	5.5.6.0.0.5.3.2.3.3.4.5.5.3.3.3.3.3.3	167/200	4/4	0/0	-	-	372/609	76/104	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	3/4	0/0
Minihump	4.4.3.3.2.4.4.4.6.5.4.3.4.4.4.4.4.4.4	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Billy Proctor	0.0.1.1.1.0.3.1.4.3.2.2.3.2.2.3.2.2.3	-	-	0/0	0/0	-	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Mt Worthington	0.0.1.0.1.0.3.1.3.3.2.2.2.2.2.2.2.2.2	-	-	0/0	-	-	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Connector	0.0.0.0.2.0.4.3.4.5.3.4.4.4.3.3.3.3.3	-	-	-	-	0/0	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Loose	3.4.1.0.2.2.4.3.4.5.3.4.4.3.3.3.3.3.3	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
John Lewis	1.4.1.0.2.2.4.3.3.5.3.4.4.2.2.3.3.3.3	0/0	0/0	0/0	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chris Bennett	3.4.3.3.2.2.4.3.4.5.3.4.4.2.2.2.2.2.2	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Sir Edmund	4.4.3.0.0.3.1.2.0.2.3.2.5.0.0.0.0.0.0	6/6	0/0	0	-	-	13/48	0/0	0/0	-	0/0	0/0	0/0	0/0	-	-	-	-

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Table 3. 2009 -2025 Stream year total observed count and stream estimates for chum salmon (observed/expanded estimate).

STREAM	# of Visits last 17 Years 09.10.11.12.13.14.15.16.17 .18.19.20.21.22.23.24.25	CHUM																
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Wahkana	4.5.6.3.1.7.3.3.5.5.8.8.8.8.8.8.8	5/8	1/1	0/0	0/0	0/1	13/27	16/24	5/7	4/6	40/59	10/14	0/1	6/15	0/0	0/0	5/8	2/4
Ahta	0.0.6.6.8.8.7.8.8.8.8.10.10.8.8.8.8	-	-	210/249	890/1461	406/629	223/390	1511/3064	1475/3017	1160/1747	663/1088	385/507	34/52	205/470	243/359	134/264	846/1,154	485/1120
Viner	5.6.7.5.7.8.8.8.8.8.8.8.8.8.8.8.8.8	2951/5082	79/182	1756/4402	5667/12257	3073/5283	573/978	15689/56456	10248/22075	1309/2690	4045/7534	186/303	64/107	525/764	41/96	87/183	5442/10702	579/1127
Shoal	5.6.9.6.7.9.6.7.7.7.8.8.8.8.8.8.8.8	116/152	1/2	198/493	54/111	307/588	37/133	159/513	247/684	1/48	74/147	6/43	5/9	219/434	1/47	22/52	1814/3043	60/103
Scott Cove	6.7.0.7.6.7.8.8.8.8.8.8.8.8.8.8.8.8	14/25	0/0	0/0	1/3	0/0	156/918	1/2	34/52	15/27	1/2	0/0	0/0	0/0	0/1	0/0	0/0	0/0
Embley	0.1.0.7.6.8.7.7.8.7.8.7.6.9.8.8.8.8	-	0/0	-	17/46	22/155	16/56	68/252	33/44	44/82	9/29	9/15	1/1	7/16	0/0	9/14	71/152	171/218
Carriden	4.4.4.1.1.5.1.1.1.3.6.7.6.6.6.6.8.8	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Gilford	6.5.6.5.7.7.1.0.2.4.6.6.8.2.2.2.3	1/1	1/2	0/0	0/0	2/5	0/0	0/0	n/a	0/0	0/0	0/0	0/0	0/0	0/0	0/0	20/50	0/0
Maple	5.4.5.0.3.4.3.0.3.3.3.8.8.8.8.8.8.8	0/0	1/9	0/0	0/0	0/0	0/0	0/0	n/a	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Simoom	5.5.6.0.0.5.3.2.3.3.4.5.5.3.3.3.7	0/0	0/0	0/0	-	-	0/0	24/35	0/0	0/0	0/6	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Minihump	4.4.3.3.2.4.4.4.6.5.4.3.4.4.4.4.4.5	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Billy Proctor	0.0.1.1.1.0.3.1.4.3.2.2.3.2.2.2.3.5	-	-	0/0	0/0	-	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Mt Worthington	0.0.1.0.1.0.3.1.3.3.2.2.2.2.2.2.2.3	-	-	0/0	-	-	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Connector	0.0.0.0.2.0.4.3.4.5.3.4.4.4.3.3.4	-	-	-	-	0/0	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Loose	3.4.1.0.2.2.4.3.4.5.3.4.4.3.3.3.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
John Lewis	1.4.1.0.2.2.4.3.3.5.3.4.4.2.2.2.3.6	0/0	0/0	0/0	-	0/0	0/0	0/0	0/0	0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Chris Ben.	3.4.3.3.2.2.4.3.4.5.3.4.4.2.2.2.4	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Sir Edmund	4.4.3.0.0.3.1.2.0.2.3.2.5.0.0.0.0	0/0	0/0	0/0	-	-	0/0	0/0	0/0	-	0/0	0/0	0/0	-	-	-	-	-

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Table 4. 2009 -2025 Stream year total observed count and stream estimates for coho salmon (observed/expanded estimate).

STREAM	# of Visits last 17 Years 09.10.11.12.13.14.15.16.1 7.18.19.20.21.22.23.24.25	COHO																
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Wahkana	4.5.6.3.1.7.3.3.5.5.8.8.8.8.8.8.8	4/15	2/8	0/2	0/0	4/12	16/108	0/0	0/0	0/0	0/1	1/2	0/0	0/0	1/2	0/0	0/0	0/0
Ahta	0.0.6.6.8.8.7.8.8.8.8.8.10.10.8.8.8.8	—	—	1551/2675	1272/1917	2363/8260	682/1444	1947/3569	66/118	317/510	80/127	18/32	30/44	98/120	297/562	218/421	170/256	276/403
Viner	5.6.7.5.7.8.8.8.8.8.8.8.8.8.8.8.8.8.8	71/163	22/133	4/26	1/1	8/32	15/302	8/273	4/56	6/33	2/8	1/2	1/1	3/12	2/4	50/115	32/54	41/45
Shoal	5.6.9.6.7.9.6.7.7.7.8.8.8.8.8.8.8.8.8	16/39	11/91	2/91	8/65	10/44	3/150	0/0	5/20	0/0	0/0	0/0	2/5	1/2	2/5	2/5	16/45	3/6
Scott Cove	6.7.0.7.6.7.8.8.8.8.8.8.8.8.8.8.8.8.8	364/566	165/823	79/314	196/1627	408/2507	72//711	98/1849	58/442	154/1124	116/705	19/228	26/232	35/289	47/369	68/852	210	59
Embley	0.1.0.7.6.8.7.7.8.7.8.7.6.9.8.8.8.8	-	75/256	-	92/584	38/497	60/1428	0/0	6/53	7/20	0/0	3/8	5/10	4/11	54/105	32/101	40/90	29/44
Carriden	4.4.4.1.1.5.1.1.1.3.6.7.6.6.6.8.8	0/0	2/17	0/0	0/0	0/0	6/73	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	2/3	0/0
Gilford	6.5.6.5.7.7.1.0.2.4.6.6.8.2.2.2.3	41/175	0/14	14/149	56/1286	2/101	5/77	0/0	n/a	0/1	12/98	0/0	0/0	0/0	8/26	1/9	1/3	9/14
Maple	5.4.5.0.3.4.3.0.3.3.3.8.8.8.8.8.8.8.8	0/1	0/0	0/0	0/0	0/0	0/0	0/0	n/a	0/0	0/0	0/0	1/1	0/0	0/0	0/0	1/1	2/4
Simoom	5.5.6.0.0.5.3.2.3.3.4.5.5.3.3.3.7	0/0	0/0	0/0	-	-	0/0	1/2	0/0	0/0	0/0	0/0	0/0	4/8	1/1	0/0	2/3	0/0
Minihump	4.4.3.3.2.4.4.4.6.5.4.3.4.4.4.4.5	2/2	2/30	0/0	3/16	0/0	12/54	0/1	0/0	0/0	0/4	0/0	0/1	2/9	0/0	7/10	11/37	28/61
Billy Proctor	0.0.1.1.1.0.3.1.4.3.2.2.3.2.2.3.5	-	-	8/27	13/39	-	-	1/1	0/0	0/0	0/0	0/0	0/3	61/94	1/4	12/14	2/4	72/143
Mt Worthington	0.0.1.0.1.0.3.1.3.3.2.2.2.2.2.2.3	-	-	0/0	-	-	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	2/3	0/0	0/0
Connector	0.0.0.0.2.0.4.3.4.5.3.4.4.4.4.3.3.4	-	-	-	-	0/0	-	1/4	0/0	6/10	4/9	1/3	0/0	0/2	0/0	1/2	21/38	10/26
Loose	3.4.1.0.2.2.4.3.4.5.3.4.4.3.3.3.6	14/21	0/0	0/0	1/33	0/0	0/1	4/15	3/16	1/3	2/4	0/0	0/0	0/3	0/0	0/1	10/19	6/14
John Lewis	1.4.1.0.2.2.4.3.3.5.3.4.4.2.2.3.6	10/17	0/0	0/0	-	0/0	0/0	0/0	0/0	1/3	0/0	1/1	0/0	7/13	0/0	0/0	9/29	0/0
Chris Bennett	3.4.3.3.2.2.4.3.4.5.3.4.4.2.2.2.4	0/0	9/26	2/4	4/23	0/0	0/0	6/16	1/7	3/6	0/0	3/5	2/2	10/25	0/0	0/0	25/44	10/23
Sir Edmund	4.4.3.0.0.3.1.2.0.2.3.2.5.0.0.0.0	0/0	0/0	0/0	-	-	0/0	0/0	0/0	-	0/0	0/0	0/0	0/0	-	-	-	-

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Table 5. 2009 -2025 Stream year total observed count and stream estimates for Sockeye salmon (observed/expanded estimate). Minihump (koka nee) numbers are in red.

STREAM	# of Visits last 17 Years 09.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25	SOCKEYE and MINIHUMP(KOKANEE)																
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Wahkana	4.5.6.3.1.7.3.3.5.5.8.8.8.8.8.8.8	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Ahta	0.0.6.6.8.8.7.8.8.8.8.10.10.10.8.8.8.8	0/0	0/0	13/14	8/10	44/50	11/14	9/10	14/17	7/9	6/6	6/6	1/2	11/15	47/58	58/95	32/52	55/72
Viner	5.6.7.5.7.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8	0/0	0/0	0/0	2/2	3/5	3/4	0/0	0/0	0/0	0/0	0/0	0/0	7/19	1/1	1/2	6/10	7/7
Shoal	5.6.9.6.7.9.6.7.7.8.8.8.8.8.8.8.8.8.8.8	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Scott Cove	6.7.0.7.6.7.8.8.8.8.8.8.8.8.8.8.8.8.8.8	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Embley	0.1.0.7.6.8.7.7.8.7.8.7.6.9.8.8.8.8.8.8	0/0	0/0	0/0	0/0	1/1	3/5	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Carriden	4.4.4.1.1.5.1.1.1.3.6.7.6.6.6.8.8.8.8.8.8	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Gilford	6.5.6.5.7.7.1.0.2.4.6.6.8.2.2.2.3.2.2.3	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Maple	5.4.5.0.3.4.3.0.3.3.3.8.8.8.8.8.8.8.8.8.8	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Simoom	5.5.6.0.0.5.3.2.3.3.4.5.5.3.3.3.7.3.3.7	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Minihump	4.4.3.3.2.4.4.4.6.5.4.3.4.4.4.4.5	2292/3526	832/977	1023/1542	122/967	1418/2533	519/1132	1154/1769	1397/1816	2802/4292	2714/3596	395/1076	835/1045	2,625/4,263	293/626	3972/5833	1076/2227	2234/5251
Billy Proctor	0.0.1.1.1.0.3.1.4.3.2.2.3.2.2.3.5	-	-	0/0	0/0	-	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Mt Worthington	0.0.1.0.1.0.3.1.3.3.2.2.2.2.2.2.2.3	-	-	0/0	-	-	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Connector	0.0.0.0.2.0.4.3.4.5.3.4.4.4.3.3.4	-	-	-	-	26/35	-	56/89	29/33	25/33	24/32	57/114	0/0	29/60	56/138	5/7	2/8	70/100
Loose	3.4.1.0.2.2.4.3.4.5.3.4.4.3.3.3.6	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
John Lewis	1.4.1.0.2.2.4.3.3.5.3.4.4.2.2.3.6	0/0	0/0	0/0	-	0/0	0/0	0/0	0/0	8/11	6/9	0/0	1/1	2/3	0/0	0/0	0/0	0/0
Chris Bennett	3.4.3.3.2.2.4.3.4.5.3.4.4.2.2.2.4	0/0	2/10	0/0	0/0	0/0	0/0	0/0	0/0	0/0	1/2	0/0	0/0	1/2	1/3	0/0	0/0	5/10
Sir Edmund	4.4.3.0.0.3.1.2.0.2.3.2.5.0.0.0.0	6/6	1/2	0	-	-	13/48	0/0	0/0	-	0/0	0/0	0/0	0/0	-	-	-	-