

M.E.S.S.S. Report - Rotation 7

Mainland Enhancement of Salmonoid Species Society
DFO Area 12 Stock Assessment 2025

Enumeration Period: October 20 - October 26, 2025

Stream Technicians: Robert Humenny, Leila Krichel

1a. 2025 Stream Escapement and Biosample Data

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

Stream	Date mm.dd	PK	CM	CO	JK	SK/ MH	20 Min	Morts PK/C M/CO	Air Temp	H2O Temp	pH	DO mg/ L
Hada	10/24	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA
Wahkana	10/24	0/0	0/0	0/0	0/0	0/0	0	0/0/0	10.7	8.8	5.75	-
Viner	10/20	0/0	22/29	1/1	0/0	0/0	0	0/0/0	12.6	8.8	7.54	-
Shoal	10/22	0/0	1/2	0/0	0/0	0/0	0	2/0/0	13.6	9.8	6.74	-
Scott Cove	10/23	0/0	0/0	5/5	1/1	0/0	0	0/0/0	13.3	12.7	6.45	-
Maple	10/21	0/0	0/0	2/4	0/0	0/0	0	0/0/0	10.9	9.4	5.65	-
Carriden	10/26	0/0	0/0	0/0	0/0	0/0	0	0/0/0	10.1	10.0	6.98	-
Embley	10/26	0/0	0/0	5/10	0/0	0/0	0	3/4/0	10.4	11.4	6.34	-
Gilford	10/21	0/0	0/0	0/0	0/0	0/0	0	0/0/0	12.4	10.0	6.56	-
Simoom	10/25	0/0	0/0	0/0	0/0	0/0	0	0/0/0	10.0	8.9	6.7	-
Mt Worth	-	-	-	-	-	-	-	-	-	-	-	-
B Proctor	10/22	0/0	0/0	0/0	0/0	0/0	NA	0/0/0	10.7	9.7	6.10	-
John Lewis	10/23	0/0	0/0	0/0	0/0	0/0	NA	0/0/0	12.0	5.5	5.61	-
Connector	10/25	0/0	0/0	3/6	0/0	1/1	NA	0/0/2	10.2	9.1	5.05	-
C Bennett	10/23	0/0	0/0	1/2	1/1	0/0	NA	0/0/0	11.0	9.8	6.5	-
Minihump	10/25	0/0	0/0	1/2	0/0	116/ 1500	NA	0/0/0	11.0	10.6	6.09	-
Loose	10/23	0/0	0/0	0/0	0/0	0/0	NA	0/0/0	12.0	9.3	6.0	-

Table 1. Area 12 systems escapement and biosample data. Non-bold numbers represent observed salmon and bold numbers represent estimates factoring in observer efficiency. Water levels were too high to walk Hada. Mount Worthington was not walked this week.

Abbreviations: Pink Salmon (PK), Chum (CM), Coho (CO), Jacks (JK), Sockeye (SK), 20 minute estuary survey (20 min)

1b. Escapement Records for Rotation #3

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

Year	2024				2023				2022			
Stream	Date	Pink	Chum	Coho	Date	Pink	Chum	Coho	Date	Pink	Chum	Coho
Wahkana	10/23	0/0	0/0	0/0	10/30	0/0	0/0	0/0	10/31	0/0	0/0	0/0
Hada	10/23	28/48	16/20	33/54	10/30	2/2	18/21	55/68	10/31	45/80	9/18	1/2
Viner	10/23	0/0	50/133	3/4	10/29	0/0	0/0	21/34	10/26	0/0	0/8	1/3
Shoal	10/24	0/0	7/24	1/2	10/28	0/0	0/0	2/5	10/29	0/0	0/1	0/0
Scott Cove	10/17	0/0	0/0	15	10/25	0/0	0/0	0/0	10/26	0/0	0/0	24/205
Embley	10/22	0/4	0/0	0/0	10/29	0/0	0/0	0/0	10/23	80/111	0/0	15/34
Carriden	10/22	0/0	0/0	0/0	10/18	0/0	0/0	0/0	10/18	0/0	0/0	0/0
Maple	10/21	0/0	0/0	0/0	10/26	0/0	0/0	0/0	10/28	0/0	0/0	0/0
Gilford	10/29	x	x	x	10/25	0/0	0/0	0/0	10/20	0/0	0/0	0/0
Simoom	10/22	0/0	0/0	1/2	10/29	0/0	0/0	0/0	10/19	0/0	0/0	1/1
Mt Worth	10/24	0/0	0/0	0/0	10/28	0/0	0/0	0/0	10/29	0/0	0/0	0/0
B Proctor	10/29	0/0	0/0	2/4	10/26	0/0	0/0	0/0	10/28	0/0	0/0	1/1

Table 2. Escapement records by MESSS from past rotation surveys spanning 2022-2024. Area 12 pink salmon spawn on a fixed two year cycle with a stronger even year, chum salmon run on a 3, 4 and 5 year cycle and coho salmon on a 3 year cycle, generally. *Surveys taken from different rotation reports to provide a better representation based on more similar dates.

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

Year	2021				2020				2019			
Stream	Date	Pink	Chum	Coho	Date	Pink	Chum	Coho	Date	Pink	Chum	Coho
Wahkana	10/29	0/0	0/3	0/0	10/28	0/0	0/0	0/0	10/23	0/0	0/0	0/0
Hada	10/29	0/0	0/0	0/0	10/28	0/0	0/0	0/0	10/23	0/0	10/26	0/0
Viner	10/25	0/0	3/18	0/0	10/21	0/0	2/5	0/0	10/20	0/0	2/31	0/0
Shoal	10/18	0/0	0/42	0/0	10/25	0/0	0/0	0/1	10/22	0/0	0/7	0/0
Scott Cove	10/25	0/0	0/0	0/0	10/25	0/0	0/0	6/48	10/20	0/0	0/0	0/0
Embley	10/30	0/0	0/2	0/0	10/22	0/0	0/0	0/0	10/25	0/0	0/0	0/0
Carriden	10/30	0/0	0/0	0/0	10/22	0/0	0/0	0/0	10/25	0/0	0/0	0/0
Maple	10/26	0/0	0/0	0/0	10/26	0/0	0/0	1/1	09/30	0/0	0/0	0/0
Gilford	10/26	0/0	0/0	0/0	10/26	0/0	0/0	0/0	10/24	0/0	0/0	0/0
Simoom	10/04	0/0	0/0	2/4	10/05	0/0	0/0	0/0	09/25	0/0	0/0	0/0
Mt Worth	11/02	0/0	0/0	0/0	10/25	0/0	0/0	0/0	11/07	0/0	0/0	0/0
B Proctor	10/26	0/0	0/0	0/1	10/26	0/0	0/0	0/3	11/07	0/0	0/0	0/0

Table 3. Escapement records by MESSS from past rotation surveys spanning 2019-2021. Area 12 pink salmon spawn on a fixed two year cycle with a stronger even year, chum salmon run on a 3, 4 and 5 year cycle and coho salmon on a 3 year cycle, generally.

*Surveys taken from different rotation reports to provide a better representation based on more similar dates.

Year	2024			2023			2022		
Stream	Date	Minihump	Coho	Date	Minihump	Coho	Date	Minihump	Coho
John Lewis	10/20	0/0	0/0	10/26	0/0	0/0	10/30	0/0	0/0
Loose	10/24	0/0	4/8	10/14	0/0	0/0	10/16	0/0	0/0
Minihump	10/24	500/1250	1/3	10/31	1419/2027	0/0	10/15	291/582	0/0
Connector	10/24	0/0	1/2	10/31	0/0	0/0	10/28	3/30	0/0
Chris Bennett	11/01	0/0	10/17	11/01	0/0	0/0	10/30	1/3	0/0

Year	2021			2020			2019		
Stream	Date	Minihump	Coho	Date	Minihump	Coho	Date	Minihump	Coho
John Lewis	10/19	0/0	0/0	10/19	0/0	0/0	10/24	0/0	0/0
Loose	10/19	0/0	0/0	10/19	0/0	0/0	10/24	0/0	0/0
Minihump	10/19	572/1271	0/1	10/21	0/1	0/0	10/22	98/490	0/0
Connector	10/18	7/28	0/0	10/21	0/0	0/0	10/22	12/40	1/3
Chris Bennett	10/19	0/0	0/1	10/19	0/0	0/0	10/24	0/0	1/2

Table 4. Escapement records by MESSS from past rotation surveys spanning 2019-2021 for inland Gilford Island creeks. Streams hold Coho salmon which spawn on a 3 year cycle and Minihump (Kokanee), but not pink or chum.

2. Rotation Highlights

Weather:

- Heavy rain and strong winds

Water Levels/Quality:

- Water levels were much higher this round with some rivers flooding over the banks.

Visibility:

- Visibility was poor for most creeks due to high water levels and dark water.

Notes:

- High / flooding water levels made counting some creeks very difficult (eg., Wahkana and Connector) or not possible (Hada)

3. Stream Enumeration Notes

Hada River

October 24, 2025

Enumerated by Robert Humenny, Leila Krichel



Photos 1 and 2. Flooding water levels in Hada.

Estuary Survey

- 1 eagle, 4 seals, 11 mergansers, 4 grebes, 3 golden eyes, 70 gulls
- No salmon spotted

River

- Water levels were extremely high due to heavy rain in the preceding days--river flooding.
- Water levels were likely even higher the day before (water / foam line on the banks were higher).
- River unsurveyable--too dangerous to walk and no visibility due to white water.

Viner River

October 20, 2025

Enumerated by Robert Humenny, Leila Krichel



Photos 3 and 4. High water levels in Viner.

Estuary Survey

- Mid-tide, rising
- 1 eagle, 1 seal, 24 mergansers, 2 kingfishers, 38 gulls
- No salmon spotted

River

- Water levels rose significantly compared to the previous week.
- More chum observed this week. May have gone back to the estuary during the low rain period and then came back up river with the rain.
- Lots of bear activity--bear beds.

Shoal Harbour Creek

October 22, 2025

Enumerated by Robert Humenny, Leila Krichel

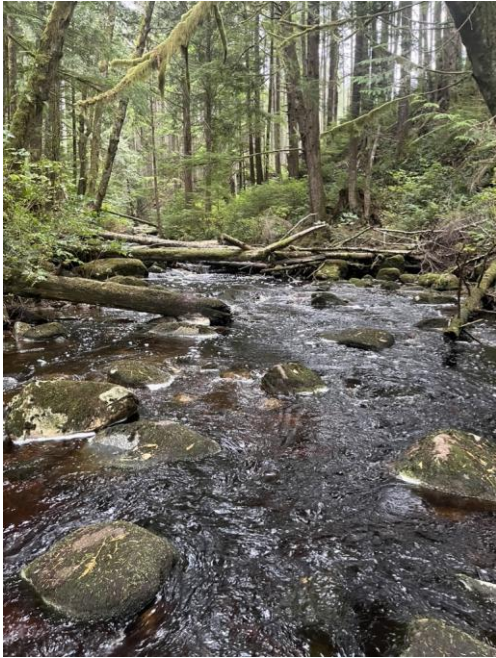


Photo 5. Moderate water levels in Shoal

Estuary Survey

- 9 seals, 9 gulls
- Lowtide, windy
- No salmon spotted

River

- Moderate water levels
- 1 chum spotted upriver in segment 3
- 2 pink morts in segment 1

Scott Cove Creek

October 23, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 6. Biosample location at Scott Cove Creek

Estuary Survey

- High-tide, rainy
- 1 seal, 1 kingfisher, 1 heron, 5 goldeneye, 1 merganser
- No salmon spotted

River

- 1 coho and 1 coho jack spotted at waterfall #1
- 4 coho spotted at waterfall #2

Wahkana Bay Creek

October 24, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 7. Very High water flooding over the banks at Wahkana

Estuary Survey

- Mid-tide and rising, very rainy
- 1 seal, 2 gulls, 1 kingfisher, 3 mergansers, 1 duck
- No salmon spotted

River

- Very high dark water overflowing the river banks
- Poor visibility
- No fish spotted

Maple Cove Creek

October 21, 2025

Enumerated by Robert Humenny, Leila Krichel

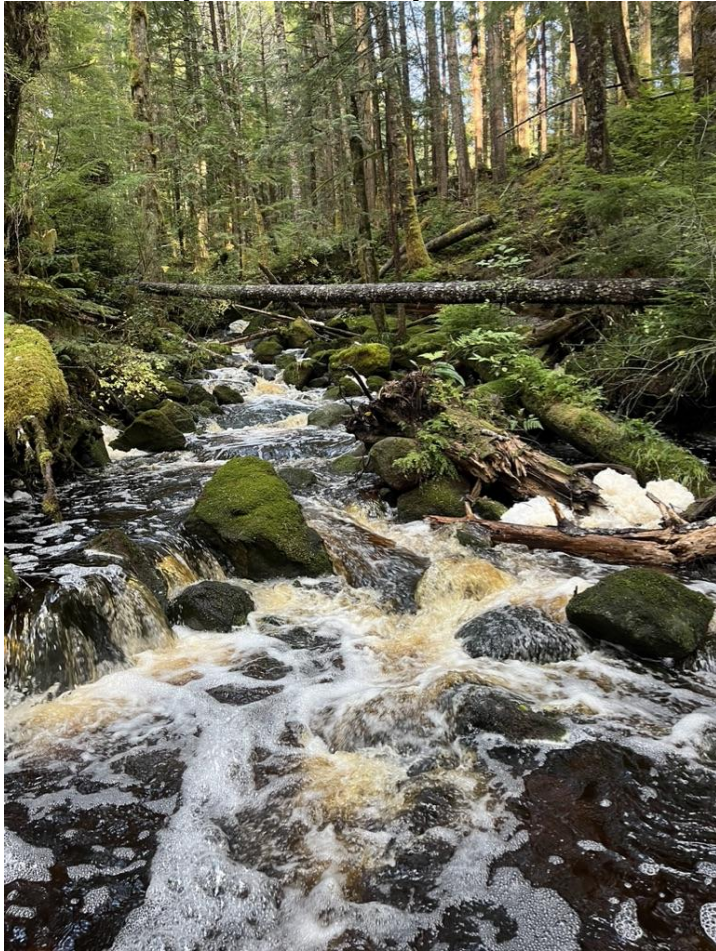


Photo 8. Rapids in Maple cove

Estuary Survey

- Hightide
- 3 seagulls
- No salmon spotted

River

- 2 fish spotted in seg 2, thought to be coho but were unable to confirm ID
- Higher water compared to previous week
- Enumerated from estuary up to road crossing at the end of seg 3

Carriden Creek

October 26, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 9. High water in Carriden Creek

Estuary Survey

- Low tide and rising
- 40 seagulls, 3 ducks
- No salmon spotted

River

- No salmon spotted
- High water level

Embley River

October 26, 2025

Enumerated by Rob Humenny, Leila Krichel

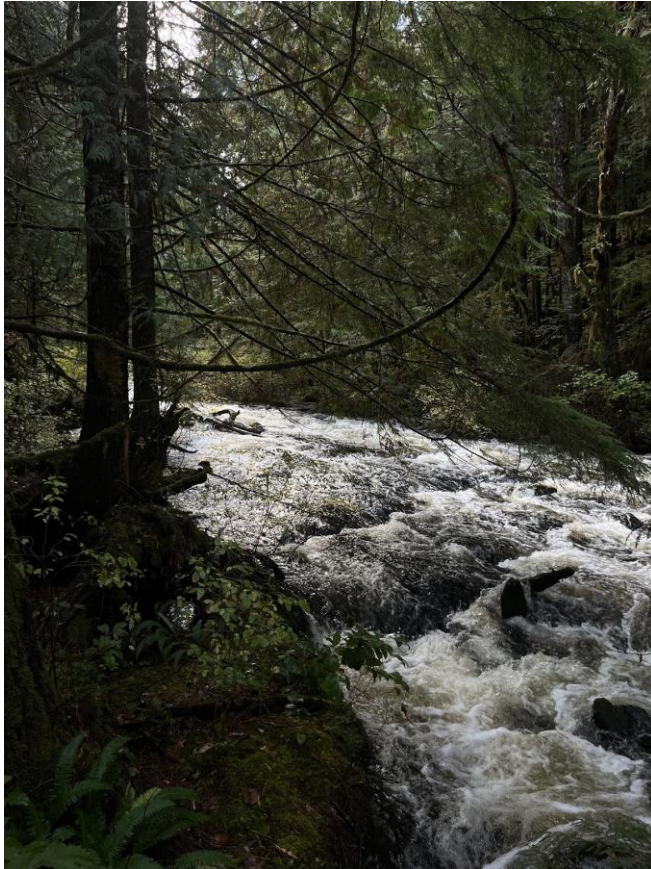


Photo 10. Rapids in Embley River

Estuary Survey

- Low-tide, rising
- 25 geese, 9 ducks
- No salmon spotted

River

- Very high water levels flooding banks of the river
- Low fish visibility
- 5 coho spotted spawning near gravel placement closer to the estuary
- 3 pink and 4 chum morts found further up river near second gravel placement

Simoom Creek

October 25, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 11. Rapids in Simoom Creek

Estuary Survey

- Low-tide, rising, calm
- 1 seal, 1 grebe, 1 gull
- No salmon spotted

River

- High water level
- Clear water
- Bank walked parts where water flow was too strong
- No salmon spotted

Gilford Creek

October 21, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 12. High water in Gilford Creek

Estuary Survey

- High tide
- 1 black bear, 70 gulls
- Finished survey early due to bear
- No salmon spotted

River

- High water, low visibility
- Started from bridge and surveyed up stream
- No salmon spotted

John Lewis Creek

October 23, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 13. flowing water in John Lewis Creek

River

- Higher water levels compared to previous survey
- Fry spotted
- No adult salmon spotted

Loose Creek

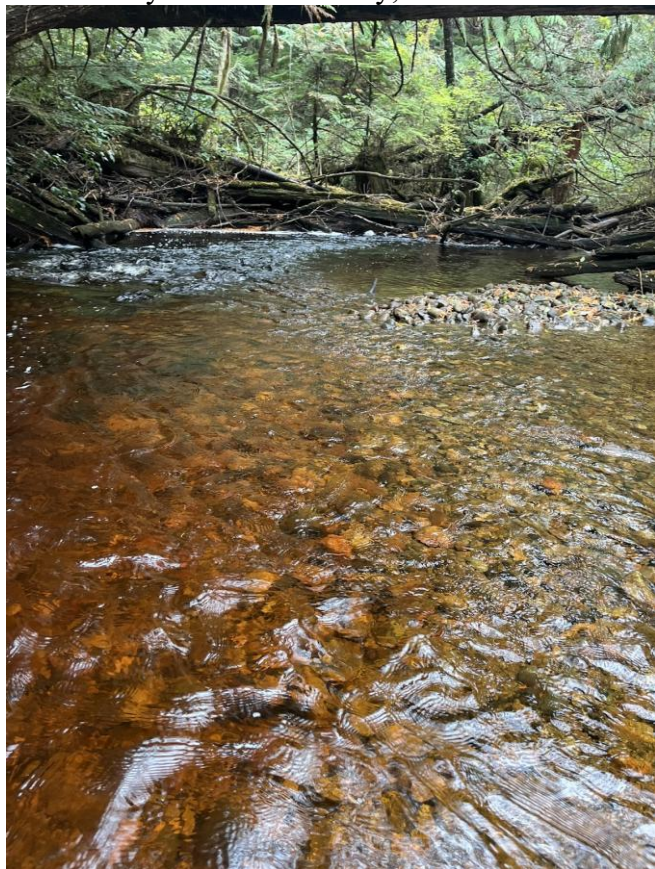


Photo 14. Gravel in Loose Creek

River

- High water level
- No salmon spotted

Minihump Creek

October 25, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 15. Minihump mort on the bank of Minihump Creek

River

- High water levels and flow
- Low visibility
- 116 minihump spotted with a low observer efficiency, and 1 mort
- 1 adult coho spotted near the bridge

Billy Proctor Creek

October 22, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 16. Narrow stream in Billy Proctor creek

River

- Heavy rain
- Moderate water height
- No salmon spotted

Chris Bennett Creek

October 23, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 17. Gravel bed near where coho were hiding

River

- Moderate rain
- Moderate water level
- 1 coho and 1 coho jack spotted hiding under bank at the gravel bed near the road crossing

Connector Creek

October 25, 2025

Enumerated by Robert Humenny, Leila Krichel



Photo 18 and 19. Two spawning coho and a coho mort

River

- Very high water this week, very low visibility in deep pools
- Light rain
- Lots of hiding places for fish
- 1 coho spotted down stream of road crossing
- 2 spawning coho spotted upstream of road crossing
- 2 coho morts spotted upstream of road crossing