PILGRIM RIVER SALMON COUNTING TOWER PROJECT SUMMARY REPORT, 2000

By

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and

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INTRODUCTION

The Pilgrim River counting tower is a cooperative project funded and operated by the Kawerak Corporation. The Alaska Department of Fish & Game (ADF&G) provided equipment and data analysis for this project.

This was the fourth year a salmon counting tower operation was attempted on the Pilgrim River (Rob 1999). The project is intended to obtain timely and accurate escapement information required for the active management of the salmon stocks throughout the season. The Pilgrim River originates at Salmon Lake and drains into Imuruk Basin approximately 45 miles north of Nome (Figure 1). Historically this drainage has been the major producer of sockeye salmon in the Port Clarence District.

OBJECTIVES

To obtain daily and seasonal information concerning the timing and magnitude of the chum, pink, sockeye, king and coho salmon escapement to the Pilgrim River.

METHODS

In 2000 the Pilgrim River counting tower camp was moved from approximately ½ mile upstream from the end of the Pilgrim Hot Springs road to a more suitable site at Cottonwood at about mile 50 on the Kougarok Road north of Nome (Figure 1).

An existing fish camp was utilized to house the personnel. A 15-foot high scaffolding tower was erected on the bank of the river to serve as an observation platform. A 50 x 8 foot vinyl canvas flash panel was placed on the river bottom directly in front of the tower. A weir to direct the fish over the flash panel was built from the mid-stream end of the flash panel to the opposite bank. An array of 120-volt lights was mounted on a post below the tower to illuminate the flash panel during periods of low light and darkness.

The counting schedule was designed to be 18 half-hour counts each day from 12 noon to 0600 hours the following day. A 24-hour count and one day off were scheduled weekly. Beginning 19 July counts were conducted for the entire hour

Counting began on 5 July and ended on 18 August. The counting schedule was 18 half-hour counts each day from 12 noon to 0600 hours the following day. A 24-hour count and one day off were scheduled weekly. The daily counts considered in this report run from 0000 hours to 2400 hours. The counts for each half hour shift were doubled to produce the reported hourly counts for each species. Each day the reported hourly counts were added to produce a daily unexpanded total. From 19 July until the end of the project the reported counts were for the entire hour and were not doubled. Every day, the daily

and cumulative unexpanded totals for each species were relayed to the Nome office by radio.

The expanded counts for this report were calculated using the following methods. The 18-hour counts for the days off were estimated by adding the counts of each hour of the day before to the counts of each hour of the day following and dividing the result by two, giving expanded hourly counts for the 18 hours of the day off. Next an expansion factor was calculated to compensate for the 6 hours not normally counted. This factor was derived from the weekly 24-hour count by dividing the total count from 0600 hours to 1200 hours during the 24-hour count by the total normal 18-hour count during the 24-hour count. Then each 18-hour count for the remaining days was expanded to 24 hour counts by applying the expansion factor to the three days before and after each 24 hour count by multiplying each days 18-hour total by the 24-hour expansion factor, and adding that number to the 18-hour count for each day. This expansion was done for all species except king salmon which were not noted as to their hour of passage.

The expanded counts for the days missed were linearly interpolated as follows. For a day with the normal 18-hour count missed, the count for the missing day was calculated by adding the counts of each hour of the day before the missed period to the counts of each hour of the day following the missed period and dividing the result by two. If two or more days were missed the count for the missing days was calculated by adding the counts of each hour of the day before the missed period to the counts of each hour of the day following the missed period and dividing the result by two. Then each 18-hour count was expanded to a 24-hour count by multiplying each day's 18-hour total by the nearest 24-hour expansion factor, and adding that number to the 18-hour count for each day (Rob 1999).

RESULTS

Table 1 shows the expanded daily and cumulative totals for each species. The reported total hourly counts were: 9,226 sockeye salmon, 684 chum salmon, 316 pink salmon, 15 coho salmon, and 8 king salmon (Tables 6-10). The expanded counts were: 12,141 sopckeye salmon, 861 chum salmon, 374 pink salmon, and 21 coho salmon (Tables 2-5). The king salmon counts were not expanded.

Counting began on 5 July. Chum salmon were observed during the period from 10 July through 8 August (Table 2 and Figures 5 and 6). Pink salmon were observed from 10 July through 1 August with a peak date of 25 July (Table 3 and Figures 7 and 8). Few king salmon were counted (Figures 9 and 10). All coho salmon counted returned during the last 16 days of counting (Table 4 and Figures 11 and 12). Sockeye salmon were observed from 5 July through 11 August with a peak date of 11 July. (Table 5 and Figures 13-16).

All species counted exhibited a diurnal pattern of migration past the counting tower (Figures 13-16)

An aerial survey of Salmon Lake counted 6,341 sockeye salmon on 23 August 2000. The total season expanded tower count of sockeye salmon was 12,141. The aerial survey counted 52% of the expanded tower count of sockeye salmon.

DISCUSSION

This was the fourth consecutive year of operation for the Pilgrim River counting tower. Previous years operations have not provided any useful data. It is hoped that the experience gained in 2000 will yield future fishery managers a valuable tool for assessing the salmon returns to the Port Clarence watersheds.

It is recommended that if funding is available the project should start at least two weeks earlier to more fully count sockeye, chum, pink and king salmon, and if additional funding is available should remain in operation three weeks later to more fully count coho salmon.

ACKNOWLEDGEMENTS

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LITERATURE CITED

Rob, P. 1999. Pilgrim River Salmon Counting Tower Project Summary Report, 1998. Alaska Department of Fish & Game, Commercial Fisheries Division, AYK Region, Regional Information Report No. 3A99-07.

Table 1. Expanded daily and cumulative salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

Date	Daily Pink	Cumulative Pink	Daily Chum	Cumulative Chum	Daily Sockeye	Cumulative Sockeye	Daily Chinook [1]	Cumulative Chinook	Daily Coho	Cumulative Coho
5-Jul	0	0	0	0	18	18	0	0	0	0
6-Jul	0	0	0	0	262	280	0	0	0	0
7-Jul	0	0	0	0	1,104	1,384	1	1	0	0
8-Jul	0	0	0	0	851	2,235	0	1	0	0
9-Jul	0	0	0	0	880	3,115	0	1	0	0
10-Jul	13	13	12	12	1,489	4,604	0	1	0	0
11-Jul	34	47	84	96	2,129	6,733	1	2	0	0
12-Jul	24	71	134	230	1,253	7,986	0	2	0	0
13-Jul	13	84	78	308	1,047	9,033	0	2	0	0
14-Jul	4	88	20	328	252	9,285	0	2	0	0
15-Jul	0	88	2	330	117	9,402	0	2	0	0
16-Jul	0	88	0	330	378	9,780	1	3	0	0
17-Jul	1	89	0	330	227	10,007	0	3	0	0
18-Jul	2	91	6	336	122	10,129	1	4	0	0
19-Jul	19	110	26	362	175	10,304	4	8	0	0
20-Jul	27	137	54	416	213	10,517	0	8	0	0
21-Jul	34	171	100	516	237	10,754	0	8	0	0
22-Jul	12	183	32	548	147	10,901	0	8	0	0
23-Jul	23	206	34	582	97	10,998	0	8	0	0
24-Jul	34	240	38	620	50	11,048	0	8	0	0
25-Jul	44	284	46	666	145	11,193	0	8	0	0
26-Jul	21	305	44	710	178	11,371	0	8	0	0
27-Jul	22	327	19	729	19	11,390	0	8	0	0
28-Jul	13	340	13	742	248	11,638	0	8	0	0
29-Jul	16	356	35	777	91	11,729	0	8	0	0
30-Jul	10	366	25	802	87	11,816	0	8	0	0
31-Jul	5	371	9	811	84	11,900	0	8	0	0
1-Aug	3	374	7	818	45	11,945	0	8	0	0
2-Aug	0	374	15	833	61	12,006	0	8	0	0
3-Aug	0	374	4	837	23	12,029	0	8	2	2
4-Aug	0	374	5	842	19	12,048	0	8	1	3
5-Aug	0	374	5	847	19	12,067	0	8	1	4
6-Aug	0	374	5	852	19	12,086	0	8	1	5
7-Aug	0	374	5	857	19	12,105	0	8	1	6
8-Aug	0	374	5	862	19	12,124	0	8	1	7
9-Aug	0	374	-1	861	8	12,132	0	8	1	8
10-Aug	0	374	0	861	3	12,135	0	8	3	11
11-Aug	0	374	0	861	6	12,141	0	8	2	13
12-Aug	0	374	0	861	0	12,141	0	8	6	19
13-Aug	0	374	0	861	0	12,141	0	8	2	21
14-Aug	0	374	0	861	0	12,141	0	8	0	21
15-Aug	0	374	0	861	0	12,141	0	8	0	21
16-Aug	0	374	0	861	0	12,141	0	8	0	21
17-Aug	0	374	0	861	0	12,141	0	8	0	21
18-Aug	0	374	0	861	0	12,141	0	8	0	21
Total	374		861		12,141		8		21	

[1] Chinook salmon counts were not expanded.

Table 2. Expanded daily hourly chum salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

Outlined areas indicate hours not counted. Numbers in outlined areas indicate estimated passage.

Date	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total	Total
5-Jul	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%
6-Jul	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%
7-Jul	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%
8-Jul	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%
9-Jul	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%
10-Jul	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	3	3	1	0	0	0	12	1.4%
11-Jul	0	2	2	0	9	9	9	2	0	0	0	0	0	0	0	0	1	1	2	2	14	0	4	27	84	9.8%
12-Jul	19	14	18	5	15	15	15	0	1	1	0	1	0	2	1	0	0	5	3	2	9	2	6	0	134	15.6%
13-Jul	4	2	3	9	22	1	3	0	1	0	0	0	2	1	3	0	6	5	3	2	3	2	2	4	78	9.1%
14-Jul	8	0	4	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	2.3%
15-Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0.2%
16-Jul	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%
17-Jul	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%
18-Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	6	0.7%
19-Jul	0	0	8	0	0	0	0	0	0	0	2	4	1	0	0	3	0	2	0	2	0	3	1	0	26	3.0%
20-Jul	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	2	8	5	9	3	1	13	8	0	54	6.3%
21-Jul	1	0	8	0	0	0	0	2	4	3	0	0	3	7	2	7	2	9	16	3	3	13	14	3	100	11.6%
22-Jul	2	2	1	0	0	0	0	2	1	1	4	1	4	4	3	5	2	0	0	0	0	0	0	0	32	3.7%
23-Jul	2	2	1	0	0	0	0	3	1	1	3	2	6	3	3	3	2	0	1	0	1	0	0	0	34	3.9%
24-Jul	3	2	1	1	0	0	0	4	1	0	2	3	8	2	3	1	2	0	2	1	1	0	1	0	38	4.4%
25-Jul	6	4	4	7	5	4	3	2	0	4	3	3	1	0	2	-1	-2	-1	0	-3	3	-1	2	1	46	5.3%
26-Jul	1	1	2	3	3	1	2	2	1	4	1	0	1	2	3	-2	5	1	0	2	4	6	1	0	44	5.1%
27-Jul	2	3	4	8	1	0	0	1	0	0	0	-1	1	1	2	1	2	0	0	-1	-1	-2	-1	-1	19	2.2%
28-Jul	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	4	1	1	2	13	1.5%
29-Jul	5	2	3	0	0	8	8	1	1	3	1	2	0	2	1	-1	-1	0	0	0	0	0	0	0	35	4.1%
30-Jul	3	1	3	0	-1	5	4	2	0	2	0	1	0	1	1	0	0	2	0	0	0	0	0	1	25	2.9%
31-Jul	1	-1	3	-1	-2	2	0	2	0	0	0	0	0	0	1	0	1	4	-1	0	0	-1	0	1	9	1.0%
1-Aug	-1	0	-2	3	0	0	1	0	0	0	0	0	0	0	0	2	2	-1	0	0	-1	1	0	3	7	0.8%
2-Aug	0	1	0	1	1	0	2	-1	-1	0	0	0	0	0	0	1	1	3	-1	0	2	4	1	1	15	1.7%
3-Aug	0	-1	1	-1	0	0	0	0	-1	0	0	0	0	0	0	1	0	2	-1	0	1	2	1	0	4	0.5%
4-Aug	0	0	1	-1	0	0	0	0	-1	0	0	0	0	0	0	1	0	2	-1	0	1	2	1	0	5	0.6%
5-Aug	0	0	1	-1	0	0	0	0	-1	0	0	0	0	0	0	1	0	2	-1	0	1	2	1	0	5	0.6%
6-Aug	0	0	1	-1	0	0	0	0	-1	0	0	0	0	0	0	1	0	2	-1	0	1	2	1	0	5	0.6%
7-Aug	0	0	1	-1	0	0	0	0	-1	0	0	0	0	0	0	1	0	2	-1	0	1	2	1	0	5	0.6%
8-Aug	0	0	1	-1	0	0	0	0	-1	0	0	0	0	0	0	1	0	2	-1	0	1	2	1	0	5	0.6%
9-Aug	0	0	1	-1	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-0.1%
10-Aug	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%
11-Aug	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%
12-Aug	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%
13-Aug	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%
14-Aug	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%
15-Aug	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%
16-Aug	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%
17-Aug	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%
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
Total	58	34	70	31	56	48	51	23	4	19	16	17	29	26	26	27	32	48	31	18	55	54	46	42	861	100.0%
	6.7%	3.9%	8.1%	3.6%	6.5%	5.6%	5.9%	2.7%	0.5%	2.2%	1.9%	2.0%	3.4%	3.0%	3.0%	3.1%	3.7%	5.6%	3.6%	2.1%	6.4%	6.3%	5.3%	4.9%	100.0%	

Table 3. Expanded daily hourly pink salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

Outlined areas indicate hours not counted. Numbers in outlined areas indicate estimated passage.

Date	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total	Total
5-Jul	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%
6-Jul	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%
7-Jul	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%
8-Jul	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%
9-Jul	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%
10-Jul	0	0	3	0	1	1	1	0	0	0	0	0	0	0	0	0	0	2	3	1	1	0	0	0	13	3.5%
11-Jul	0	0	0	0	2	3	2	1	1	0	0	0	0	0	0	0	0	6	0	1	9	0	0	9	34	9.1%
12-Jul	3	2	0	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	2	1	3	1	0	0	24	6.4%
13-Jul	0	0	0	4	0	1	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	13	3.5%
14-Jul	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4	1.1%
15-Jul	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%
16-Jul	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%
17-Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.3%
18-Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0.5%
19-Jul	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	19	5.1%
20-Jul	10	0	0	0	0	0	0	5	1	2	4	1	0	0	0	0	0	0	0	0	0	4	0	0	27	7.2%
21-Jul	0	0	0	0	0	0	0	4	0	0	1	6	4	0	4	6	3	2	1	0	0	3	0	0	34	9.1%
22-Jul	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	3.2%
23-Jul	10	1	0	0	0	0	0	0	1	1	3	3	3	1	0	0	0	0	0	0	0	0	0	0	23	6.1%
24-Jul	8	2	1	0	0	0	0	0	1	2	7	5	6	2	0	0	0	0	0	0	0	0	0	0	34	9.1%
25-Jul	8	2	8	3	0	2	0	4	4	2	5	4	2	0	0	0	0	0	0	0	0	0	0	0	44	11.8%
26-Jul	2	0	4	3	1	1	1	2	0	0	2	0	4	1	0	0	0	0	0	0	0	0	0	0	21	5.6%
27-Jul	0	0	0	2	1	2	3	1	-3	2	0	0	0	1	5	0	8	0	0	0	0	0	0	0	22	5.9%
28-Jul	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0	8	0	0	0	13	3.5%
29-Jul	0	0	0	3	0	6	4	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	16	4.3%
30-Jul	0	0	0	1	1	3	2	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	10	2.7%
31-Jul	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	5	1.3%
1-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3	0.8%
2-Aug	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%
3-Aug	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%
4-Aug	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%
5-Aug	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%
6-Aug	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%
7-Aug	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%
8-Aug	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%
9-Aug	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%
10-Aug	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%
11-Aug	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%
12-Aug	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%
13-Aug	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%
14-Aug	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%
15-Aug	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%
16-Aug	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%
17-Aug	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%
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
Total	53	7	16	20	11	23	18	22	7	13	25	19	19	5	9	10	13	14	7	3	21	9	1	10	374	100.0%
	14.2%	1.9%	4.3%	5.3%	2.9%	6.1%	4.8%	5.9%	1.9%	3.5%	6.7%	5.1%	5.1%	1.3%	2.4%	2.7%	3.5%	3.7%	1.9%	0.8%	5.6%	2.4%	0.3%	2.7%	100.0%	

Table 4. Expanded daily hourly coho salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

Outlined areas indicate hours not counted. Numbers in outlined areas indicate estimated passage.

Date	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total	% of Total
5-Jul	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%
6-Jul	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%
7-Jul	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%
8-Jul	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%
9-Jul	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%
10-Jul	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%
11-Jul	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%
12-Jul	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%
13-Jul	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%
14-Jul	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%
15-Jul	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%
16-Jul	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%
17-Jul	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%
18-Jul	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%
19-Jul	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%
20-Jul	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%
21-Jul	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%
22-Jul	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%
23-Jul	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%
24-Jul	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%
25-Jul	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%
26-Jul	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%
27-Jul	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%
28-Jul	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%
29-Jul	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%
30-Jul	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%
31-Jul	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%
1-Aug	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%
2-Aug	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%
3-Aug	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9.5%
4-Aug	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.8%
5-Aug	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.8%
6-Aug	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.8%
7-Aug	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.8%
8-Aug	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.8%
9-Aug	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4.8%
10-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	3	14.3%
11-Aug	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	9.5%
12-Aug	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	6	28.6%
13-Aug	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9.5%
14-Aug	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%
15-Aug	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%
16-Aug	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%
17-Aug	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%
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
Total	1	0	9	2	0	0	0	1	0	0	1	2	0	0	0	2	0	0	0	0	2	0	0	1	21	100.0%
	4.8%	0.0%	42.9%	9.5%	0.0%	0.0%	0.0%	4.8%	0.0%	0.0%	4.8%	9.5%	0.0%	0.0%	0.0%	9.5%	0.0%	0.0%	0.0%	0.0%	9.5%	0.0%	0.0%	4.8%	100.0%	

Table 5. Expanded daily hourly sockeye salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

Outlined areas indicate hours not counted. Numbers in outlined areas indicate estimated passage.

Date	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total	% of Total
5-Jul	0	0	8	1	1	1	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0.1%
6-Jul	0	0	0	15	15	15	15	0	6	0	0	0	1	0	63	0	0	40	21	36	6	7	3	19	262	2.2%
7-Jul	3	0	1	63	63	63	63	20	10	0	27	170	70	62	61	2	5	0	31	76	92	59	114	49	1,104	9.1%
8-Jul	19	34	32	49	49	49	49	33	32	5	8	11	1	22	4	51	44	50	85	24	4	71	53	72	851	7.0%
9-Jul	23	50	33	63	63	63	63	47	33	51	29	4	61	49	56	3	16	10	60	29	28	14	12	20	880	7.2%
10-Jul	64	107	76	81	129	129	129	129	57	49	67	26	25	29	35	3	108	96	72	37	11	8	22	0	1,489	12.3%
11-Jul	13	76	46	55	185	185	185	212	112	0	121	43	34	69	32	83	106	47	55	76	124	9	24	237	2,129	17.5%
12-Jul	88	52	24	41	109	109	109	13	24	34	62	48	19	67	60	48	33	59	39	19	28	108	33	27	1,253	10.3%
13-Jul	43	44	54	26	94	64	115	117	67	16	13	11	5	47	2	14	66	17	10	6	11	28	124	53	1,047	8.6%
14-Jul	17	16	28	18	18	18	18	0	15	0	0	0	0	0	22	0	0	0	3	2	7	0	46	24	252	2.1%
15-Jul	3	0	0	8	8	8	8	2	2	4	0	0	0	0	4	0	0	0	0	34	10	0	0	26	117	1.0%
16-Jul	45	4	13	22	22	22	22	15	0	0	0	6	0	19	5	70	3	38	26	32	11	3	0	0	378	3.1%
17-Jul	24	2	9	9	9	9	9	8	0	2	0	4	2	13	4	35	4	19	22	18	20	4	1	0	227	1.9%
18-Jul	3	0	6	5	5	5	5	0	0	4	0	3	2	7	3	0	4	1	18	3	11	1	19	17	122	1.0%
19-Jul	8	22	20	20	6	1	2	3	2	2	3	31	5	19	1	2	6	10	5	1	3	2	1	0	175	1.4%
20-Jul	2	5	0	0	0	0	0	7	5	2	12	0	0	0	0	0	49	9	10	9	26	15	54	8	213	1.8%
21-Jul	9	0	8	0	0	0	0	2	6	2	5	2	3	2	1	6	66	38	22	0	16	21	22	6	237	2.0%
22-Jul	51	13	6	0	0	0	0	2	0	0	2	1	3	0	0	6	20	6	4	12	2	3	2	14	147	1.2%
23-Jul	32	7	3	0	0	0	0	1	0	0	2	1	2	1	0	4	10	4	2	7	6	6	2	7	97	0.8%
24-Jul	14	0	0	0	0	0	0	0	0	0	2	2	1	1	1	1	1	1	0	3	11	10	2	0	50	0.4%
25-Jul	20	4	22	14	10	3	1	2	0	0	4	2	1	10	1	5	2	2	0	3	6	13	4	16	145	1.2%
26-Jul	4	2	12	3	1	1	2	1	0	1	0	1	0	1	4	13	34	2	0	34	19	21	24	-2	178	1.5%
27-Jul	1	3	1	8	1	0	0	0	0	0	0	0	0	2	0	2	1	0	0	0	0	0	0	0	19	0.2%
28-Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	0	8	62	10	60	94	248	2.0%
29-Jul	18	12	3	0	0	14	0	4	0	4	2	0	2	1	0	1	1	2	6	1	0	3	7	10	91	0.7%
30-Jul	14	12	6	4	7	12	2	3	0	2	1	0	1	0	2	0	4	1	3	1	1	1	4	6	87	0.7%
31-Jul	10	12	9	8	14	10	4	1	1	0	0	0	0	0	3	0	6	1	0	2	1	0	0	2	84	0.7%
1-Aug	1	3	5	8	0	0	1	2	0	0	0	0	0	0	2	1	1	0	0	0	0	0	5	16	45	0.4%
2-Aug	9	0	7	5	5	9	3	0	0	0	0	0	0	0	0	1	0	4	5	0	4	6	2	1	61	0.5%
3-Aug	2	2	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	2	3	1	1	23	0.2%
4-Aug	1	1	1	3	1	0	0	0	0	0	0	0	0	0	0	1	0	2	2	1	2	3	1	0	19	0.2%
5-Aug	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	2	3	1	1	19	0.2%
6-Aug	1	1	1	3	1	0	0	0	0	0	0	0	0	0	0	1	0	2	2	1	2	3	1	0	19	0.2%
7-Aug	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	2	3	1	1	19	0.2%
8-Aug	1	1	1	3	1	0	0	0	0	0	0	0	0	0	0	1	0	2	2	1	2	3	1	0	19	0.2%
9-Aug	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8	0.1%
10-Aug	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.0%
11-Aug	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.0%
12-Aug	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%
13-Aug	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%
14-Aug	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%
15-Aug	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%
16-Aug	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%
17-Aug	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%
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
Total	546	489	446	549	822	790	806	630	372	178	360	366	238	421	366	354	594	479	514	477	532	441	646	725	12,141	100.0%
	4.5%	4.0%	3.7%	4.5%	6.8%	6.5%	6.6%	5.2%	3.1%	1.5%	3.0%	3.0%	2.0%	3.5%	3.0%	2.9%	4.9%	3.9%	4.2%	3.9%	4.4%	3.6%	5.3%	6.0%	100.0%	

Table 6. Reported hourly chum salmon observations at the Pilgrim River counting tower, Port Clarence, 2000.

Outlined areas indicate hours not counted.

Date	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total	% of Total
5-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10-Jul	0	0	0	0				2	0	0	0	0	0	0	0	0	1	0	3	3	1	0	0	0	8	1.2%
11-Jul	0	2	2	0				0	0	0	0	0	0	0	0	0	1	1	2	2	14	0	4	27	57	8.3%
12-Jul	19	14	18					0	1	1	0	1	0	2	1	0	0	5	3	2	9	2	6	0	84	12.3%
13-Jul	4	2	3	9	22	1	3	0	1	0	0	0	2	1	3	0	6	5	3	2	3	2	2	4	78	11.4%
14-Jul	8	0	4					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1.8%
15-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0.3%
16-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
17-Jul																					0	0	0	0	0	0.0%
18-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	6	0.9%
19-Jul	0	0	8	0	0	0	0	0	0	0	2	4	1	0	0	3	0	2	0	2	0	3	1	0	26	3.8%
20-Jul	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	2	8	5	9	3	1	13	8	0	54	7.9%
21-Jul	1	0	8					2	4	3	0	0	3	7	2	7	2	9	16	3	3	13	14	3	100	14.6%
22-Jul	2	2	1					2	1	1	4	1	4	4	3	5	2	0	0	0	0	0	0	0	32	4.7%
23-Jul																									0	0.0%
24-Jul	3	2	1	1	0	0	0	4	1	0	2	3	8	2	3	1	2	0	2	1	1	0	1	0	38	5.6%
25-Jul	6	4	4	7	5	4	3	2	0	4	3	3	1	0	2	-1	-2	-1	0	-3	3	-1	2	1	46	6.7%
26-Jul	1	1	2	3	3	1	2	2	1	4	1	0	1	2	3	-2	5	1	0	2	4	6	1	0	44	6.4%
27-Jul	2	3	4	8	1	0	0	1	0	0	0	-1	1	1	2	1	2	0	0	-1	-1	-2	-1	-1	19	2.8%
28-Jul	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	4	1	1	2	13	1.9%
29-Jul	5	2	3	0	0	8	8	1	1	3	1	2	0	2	1	-1	-1	0	0	0	0	0	0	0	35	5.1%
30-Jul																									0	0.0%
31-Jul	1	-1	3	-1	-2	2	0	2	0	0	0	0	0	0	1	0	1	4	-1	0	0	-1	0	1	9	1.3%
1-Aug	-1	0	-2	3	0	0	1	0	0	0	0	0	0	0	0	2	2	-1	0	0	-1	1	0	3	7	1.0%
2-Aug	0	1	0	1	1	0	2	-1	-1	0	0	0	0	0	0	1	1	3	-1	0	2	4	1	1	15	2.2%
3-Aug	0	-1	1	-1	0	0	0																		-1	-0.1%
4-Aug																									0	0.0%
5-Aug																									0	0.0%
6-Aug																									0	0.0%
7-Aug																									0	0.0%
8-Aug																									0	0.0%
9-Aug													0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10-Aug	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%
11-Aug	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%
12-Aug	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%
13-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.0%
14-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
15-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
16-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
17-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
Total	53	31	60	30	30	16	20	17	10	16	13	14	23	22	22	18	30	34	36	18	48	42	40	41	684	100.0%
	7.7%	4.5%	8.8%	4.4%	4.4%	2.3%	2.9%	2.5%	1.5%	2.3%	1.9%	2.0%	3.4%	3.2%	3.2%	2.6%	4.4%	5.0%	5.3%	2.6%	7.0%	6.1%	5.8%	6.0%	100.0%	

Table 7. Reported hourly pink salmon observations at the Pilgrim River counting tower, Port Clarence, 2000.

Outlined areas indicate hours not counted.

Date	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total	% of Total
5-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10-Jul	0	0	3	0					0	0	0	0	0	0	0	0	0	2	3	1	1	0	0	0	10	3.2%
11-Jul	0	0	0	0				1	1	0	0	0	0	0	0	0	0	6	0	1	9	0	0	9	27	8.5%
12-Jul	3	2	0					0	0	0	0	0	0	0	0	0	0	0	2	1	3	1	0	0	12	3.8%
13-Jul	0	0	0	4	0	1	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	13	4.1%
14-Jul	0	0	0					0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	0.6%
15-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
16-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
17-Jul																									0	0.0%
18-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0.6%
19-Jul																									19	6.0%
20-Jul	10	0	0	0	0	0	0	5	1	2	4	1	0	0	0	0	0	0	0	0	0	4	0	0	27	8.5%
21-Jul	0	0	0					4	0	0	1	6	4	0	4	6	3	2	1	0	0	3	0	0	34	10.8%
22-Jul	12	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	3.8%
23-Jul																									0	0.0%
24-Jul	8	2	1	0	0	0	0	0	1	2	7	5	6	2	0	0	0	0	0	0	0	0	0	0	34	10.8%
25-Jul	8	2	8	3	0	2	0	4	4	2	5	4	2	0	0	0	0	0	0	0	0	0	0	0	44	13.9%
26-Jul	2	0	4	3	1	1	1	2	0	0	2	0	4	1	0	0	0	0	0	0	0	0	0	0	21	6.6%
27-Jul	0	0	0	2	1	2	3	1	-3	2	0	0	0	1	5	0	8	0	0	0	0	0	0	0	22	7.0%
28-Jul	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0	8	0	0	0	13	4.1%
29-Jul	0	0	0	3	0	6	4	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	16	5.1%
30-Jul																									0	0.0%
31-Jul	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	5	1.6%
1-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3	0.9%
2-Aug	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%
3-Aug	0	0	0	0	0	0	0																		0	0.0%
4-Aug																									0	0.0%
5-Aug																									0	0.0%
6-Aug																									0	0.0%
7-Aug																									0	0.0%
8-Aug																									0	0.0%
9-Aug													0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10-Aug	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%
11-Aug	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%
12-Aug	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%
13-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.0%
14-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
15-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
16-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
17-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
Total	43	6	16	15	4	12	10	22	6	11	21	16	16	4	9	9	13	13	7	3	21	9	1	10	316	100.0%
	13.6%	1.9%	5.1%	4.7%	1.3%	3.8%	3.2%	7.0%	1.9%	3.5%	6.6%	5.1%	5.1%	1.3%	2.8%	2.8%	4.1%	4.1%	2.2%	0.9%	6.6%	2.8%	0.3%	3.2%	100.0%	

Table 8. Reported hourly chinook salmon observations at the Pilgrim River counting tower, Port Clarence, 2000

Outlined areas indicate hours not counted.

No hourly records after 19 July. Day totals only; no expansion.

Date	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total	% of Total
5-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	12.5%
8-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10-Jul	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
11-Jul	0	0	0	0				0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12.5%
12-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13-Jul	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%
14-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
15-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
16-Jul	0	0	0					0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	12.5%
17-Jul																					0	0	0	0	0	0.0%
18-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	12.5%
19-Jul	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	4	50.0%
20-Jul	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%
21-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
22-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
23-Jul																									0	0.0%
24-Jul	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%
25-Jul	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%
26-Jul	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%
27-Jul	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%
28-Jul	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%
29-Jul	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%
30-Jul																									0	0.0%
31-Jul	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%
1-Aug	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%
2-Aug	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%
3-Aug	0	0	0	0	0	0	0																		0	0.0%
4-Aug																									0	0.0%
5-Aug																									0	0.0%
6-Aug																									0	0.0%
7-Aug																									0	0.0%
8-Aug																									0	0.0%
9-Aug													0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10-Aug	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%
11-Aug	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%
12-Aug	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%
13-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.0%
14-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
15-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
16-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
17-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
Total	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	1	1	0	1	1	0	8	100.0%
	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	0.0%	12.5%	12.5%	0.0%	12.5%	12.5%	0.0%	100.0%	

Table 9. Reported hourly coho salmon observations at the Pilgrim River counting tower, Port Clarence, 2000.

Outlined areas indicate hours not counted.

Date	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total	% of Total
5-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10-Jul	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
11-Jul	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
12-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13-Jul	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%
14-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
15-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
16-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
17-Jul																					0	0	0	0	0	0.0%
18-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
19-Jul	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%
20-Jul	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%
21-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
22-Jul	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
23-Jul																									0	0.0%
24-Jul	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%
25-Jul	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%
26-Jul	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%
27-Jul	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%
28-Jul	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%
29-Jul	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%
30-Jul																									0	0.0%
31-Jul	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%
1-Aug	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%
2-Aug	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%
3-Aug	0	0	2	0	0	0	0																		2	13.3%
4-Aug																									0	0.0%
5-Aug																									0	0.0%
6-Aug																									0	0.0%
7-Aug																									0	0.0%
8-Aug																									0	0.0%
9-Aug													0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	3	20.0%
11-Aug	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	13.3%
12-Aug	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	6	40.0%
13-Aug	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0							2	13.3%
14-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
15-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
16-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
17-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
Total	1	0	3	2	0	0	0	1	0	0	1	2	0	0	0	2	0	0	0	0	2	0	0	1	15	100.0%
	6.7%	0.0%	20.0%	13.3%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	6.7%	13.3%	0.0%	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	13.3%	0.0%	0.0%	6.7%	100.0%	

Table 10. Reported hourly sockeye salmon observations at the Pilgrim River counting tower, Port Clarence, 2000.

Outlined areas indicate hours not counted.

Date	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total	% of Total
5-Jul	0	0	8					6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0.2%
6-Jul	0	0	0					0	6	0	0	0	1	0	63	0	0	40	21	36	6	7	3	19	202	2.2%
7-Jul	3	0	1					20	10	0	27	170	70	62	61	2	5	0	31	76	92	59	114	49	852	9.2%
8-Jul	19	34	32					33	32	5	8	11	1	22	4	51	44	50	85	24	4	71	53	72	655	7.1%
9-Jul	23	50	33					47	33	51	29	4	61	49	56	3	16	10	60	29	28	14	12	20	628	6.8%
10-Jul	64	107	76	81					57	49	67	26	25	29	35	3	108	96	72	37	11	8	22	0	973	10.5%
11-Jul	13	76	46	55				212	112	0	121	43	34	69	32	83	106	47	55	76	124	9	24	237	1,574	17.1%
12-Jul	88	52	24					13	24	34	62	48	19	67	60	48	33	59	39	19	28	108	33	27	885	9.6%
13-Jul	43	44	54	26	94	64	115	117	67	16	13	11	5	47	2	14	66	17	10	6	11	28	124	53	1,047	11.3%
14-Jul	17	16	28					0	15	0	0	0	0	0	22	0	0	0	3	2	7	0	46	24	180	2.0%
15-Jul	3	0	0					2	2	4	0	0	0	0	4	0	0	0	0	34	10	0	0	26	85	0.9%
16-Jul	45	4	13					15	0	0	0	6	0	19	5	70	3	38	26	32	11	3	0	0	290	3.1%
17-Jul																					20	4	1	0	25	0.3%
18-Jul	3	0	6					0	0	4	0	3	2	7	3	0	4	1	18	3	11	1	19	17	102	1.1%
19-Jul	8	22	20	20	6	1	2	3	2	2	3	31	5	19	1	2	6	10	5	1	3	2	1	0	175	1.9%
20-Jul	2	5	0	0	0	0	0	7	5	2	12	0	0	0	0	0	49	9	10	9	26	15	54	8	213	2.3%
21-Jul	9	0	8					2	6	2	5	2	3	2	1	6	66	38	22	0	16	21	22	6	237	2.6%
22-Jul	51	13	6					2	0	0	2	1	3	0	0	6	20	6	4	12	2	3	2	14	147	1.6%
23-Jul																									0	0.0%
24-Jul	14	0	0	0	0	0	0	0	0	0	2	2	1	1	1	1	1	1	0	3	11	10	2	0	50	0.5%
25-Jul	20	4	22	14	10	3	1	2	0	0	4	2	1	10	1	5	2	2	0	3	6	13	4	16	145	1.6%
26-Jul	4	2	12	3	1	1	2	1	0	1	0	1	0	1	4	13	34	2	0	34	19	21	24	-2	178	1.9%
27-Jul	1	3	1	8	1	0	0	0	0	0	0	0	0	2	0	2	1	0	0	0	0	0	0	0	19	0.2%
28-Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	0	8	62	10	60	94	248	2.7%
29-Jul	18	12	3	0	0	14	0	4	0	4	2	0	2	1	0	1	1	2	6	1	0	3	7	10	91	1.0%
30-Jul																									0	0.0%
31-Jul	10	12	9	8	14	10	4	1	1	0	0	0	0	0	3	0	6	1	0	2	1	0	0	2	84	0.9%
1-Aug	1	3	5	8	0	0	1	2	0	0	0	0	0	0	2	1	1	0	0	0	0	0	5	16	45	0.5%
2-Aug	9	0	7	5	5	9	3	0	0	0	0	0	0	0	0	1	0	4	5	0	4	6	2	1	61	0.7%
3-Aug	2	2	3	4	0	0	0																		11	0.1%
4-Aug																									0	0.0%
5-Aug																									0	0.0%
6-Aug																									0	0.0%
7-Aug																									0	0.0%
8-Aug																									0	0.0%
9-Aug													0	0	0	0	0	0	0	1	0	0	0	0	1	0.0%
10-Aug	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.0%
11-Aug	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.1%
12-Aug	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%
13-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.0%
14-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
15-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
16-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
17-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.0%
Total	470	462	419	236	133	102	128	489	372	174	357	361	233	407	360	312	576	443	472	448	513	416	634	709	9,226	100.0%
	5.1%	5.0%	4.5%	2.6%	1.4%	1.1%	1.4%	5.3%	4.0%	1.9%	3.9%	3.9%	2.5%	4.4%	3.9%	3.4%	6.2%	4.8%	5.1%	4.9%	5.6%	4.5%	6.9%	7.7%	100.0%	

Figure 1. Area location map of the Pilgrim River counting tower project site, Port Clarence, 2000.

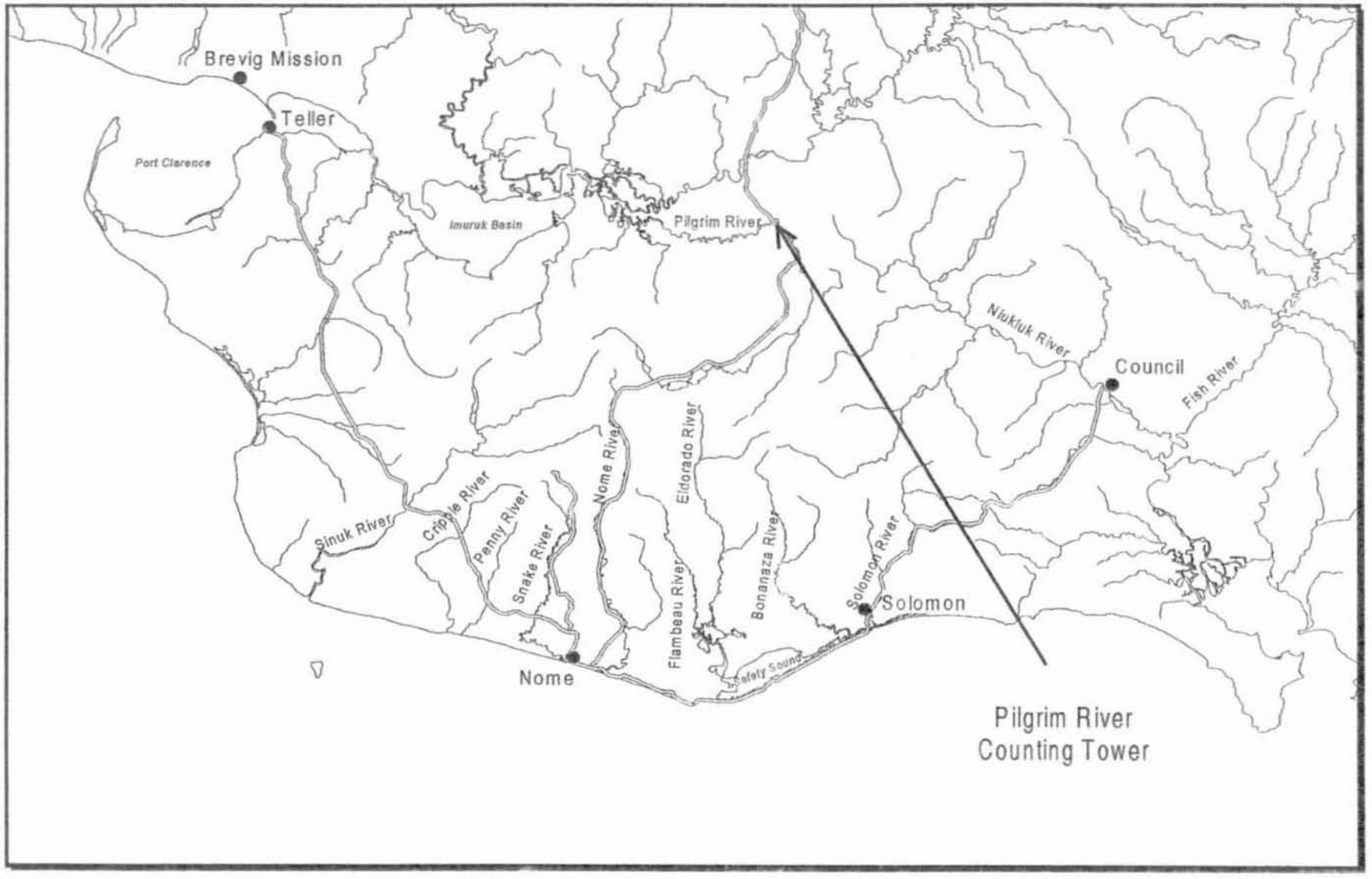

Figure 2. Cumulative migration of all salmon species past the Pilgrim River counting tower, Port Clarence, 2000.

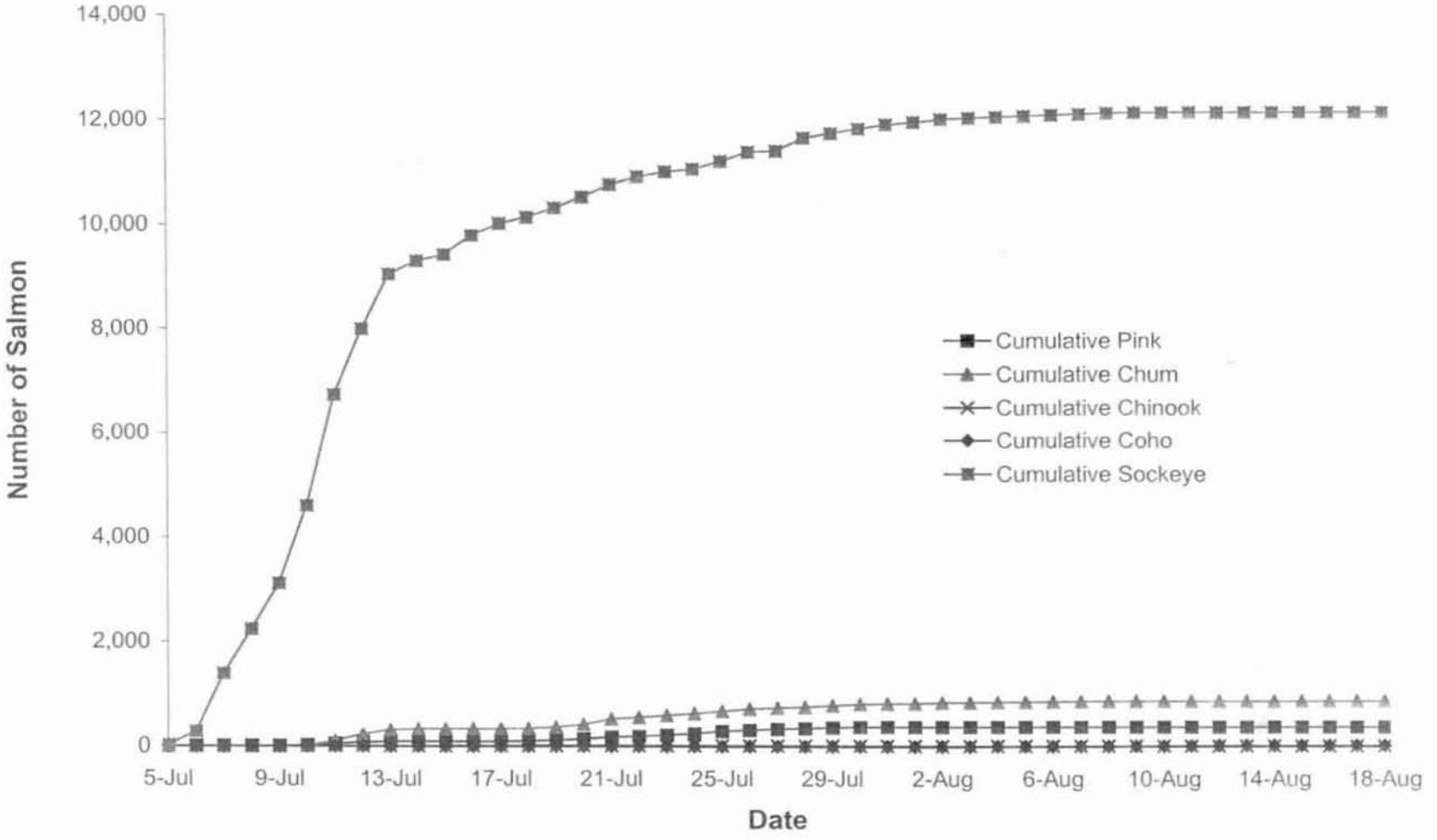

Figure 3. Daily sockeye salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

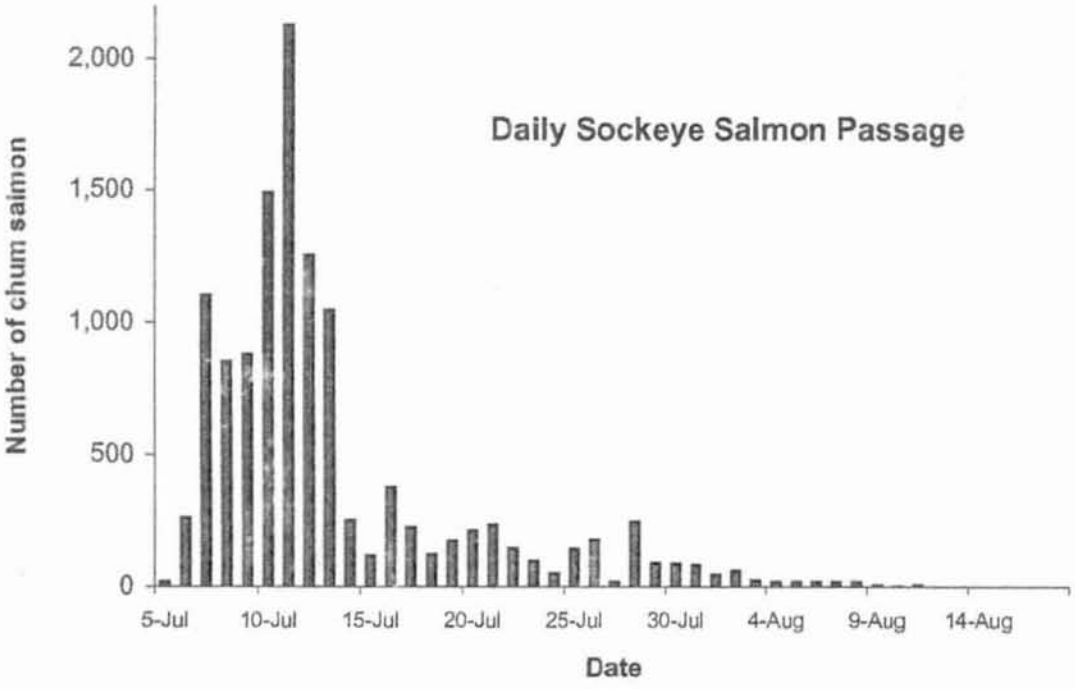

Figure 4. Cumulative sockeye salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

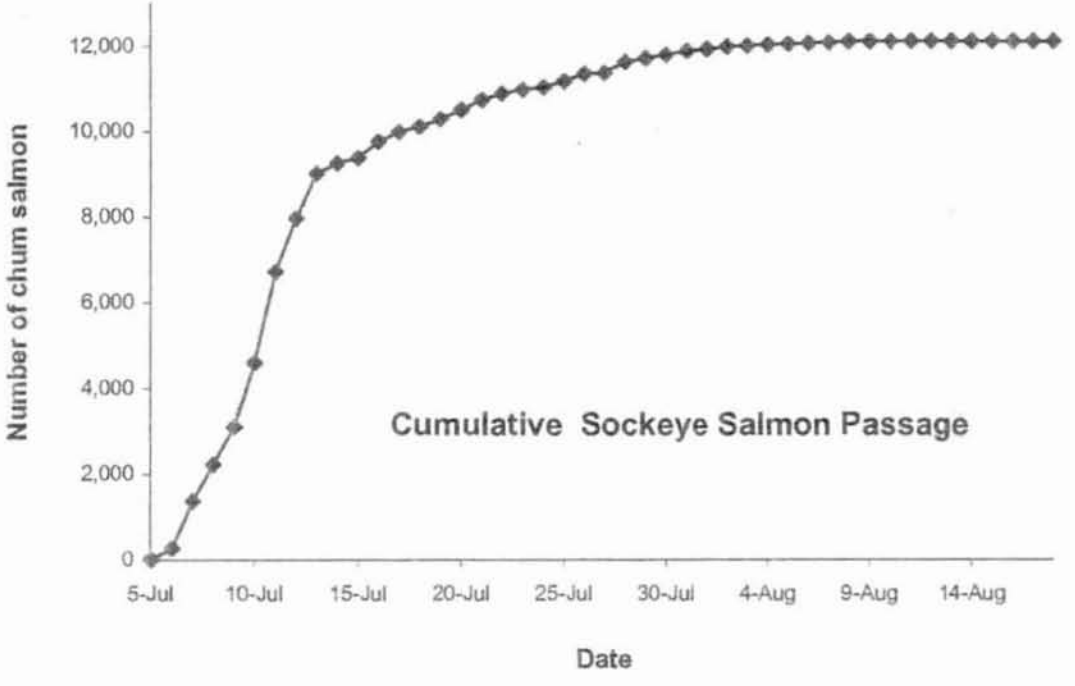

Figure 5. Daily chum salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

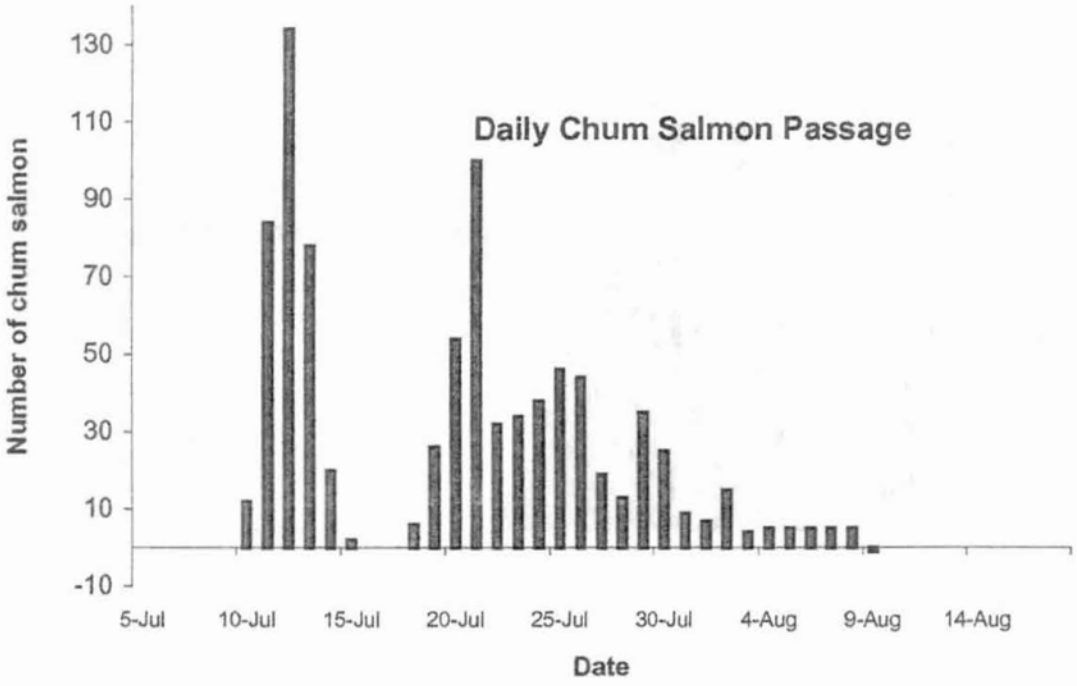

Figure 6. Cumulative chum salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

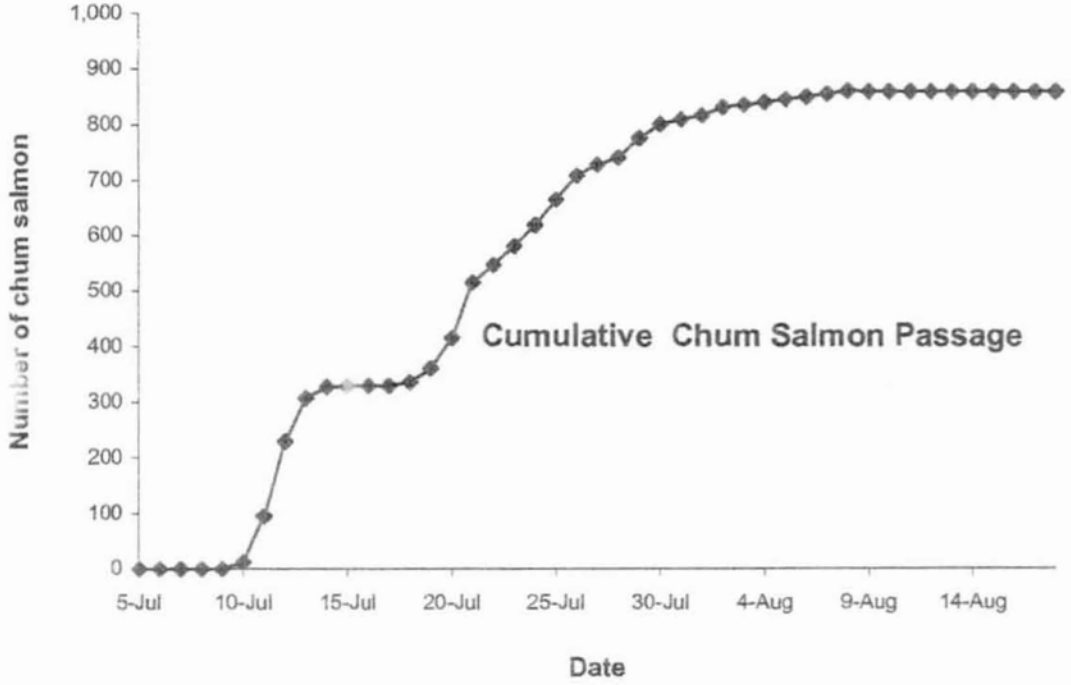

Figure 7. Daily pink salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

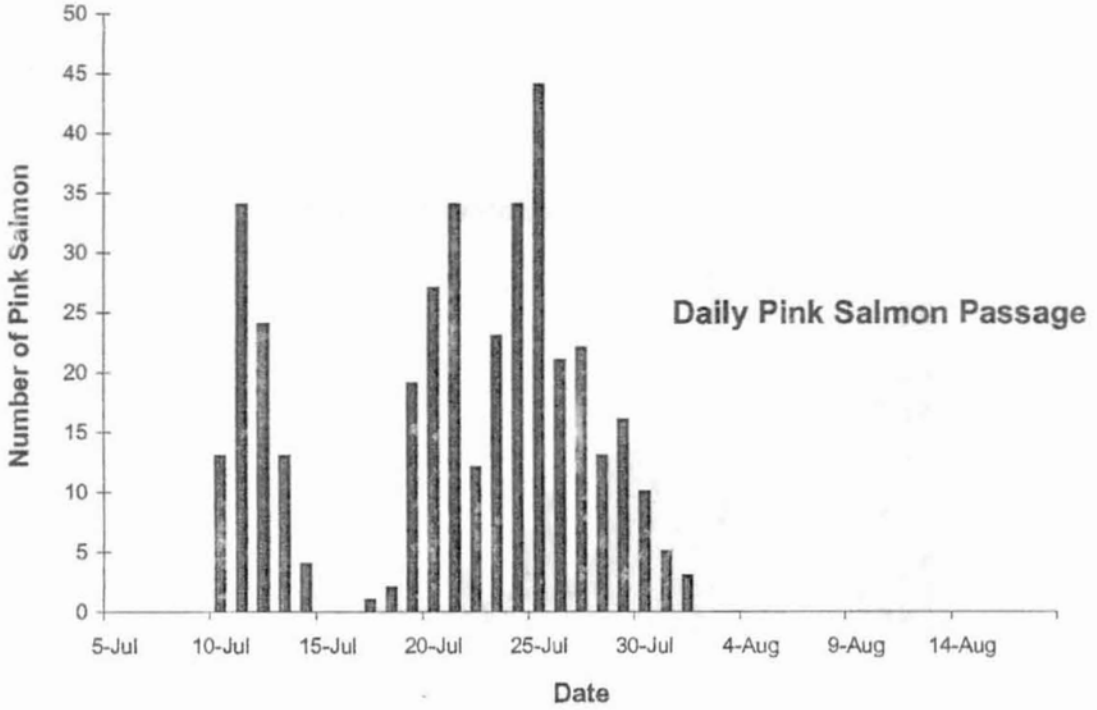

Figure 8. Cumulative pink salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

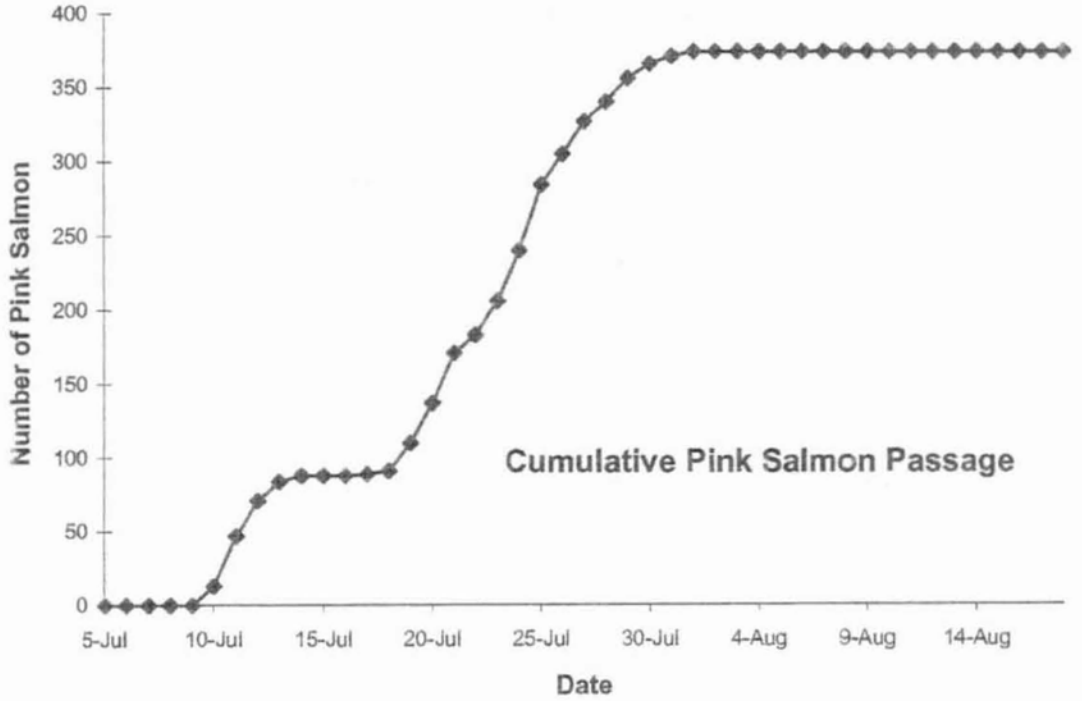

Figure 9. Daily chinook salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

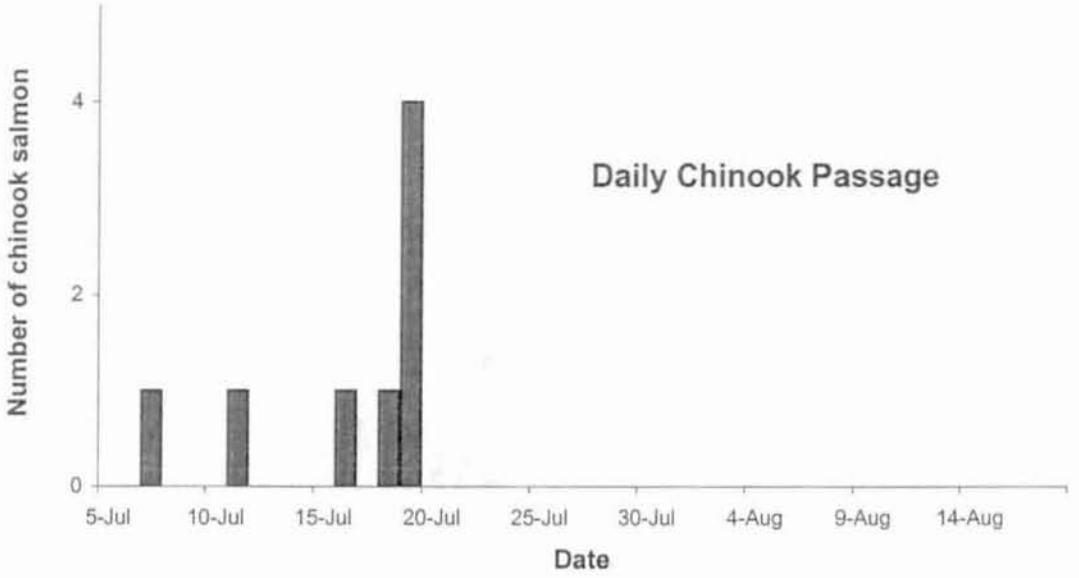

Figure 10. Cumulative chinook salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

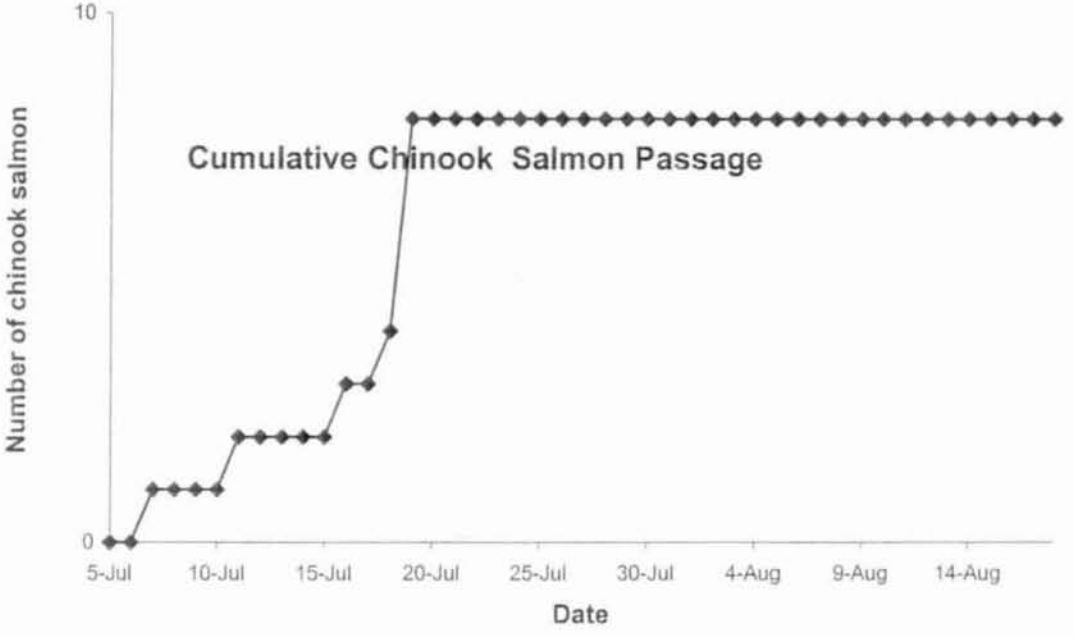

Figure 11. Daily coho salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

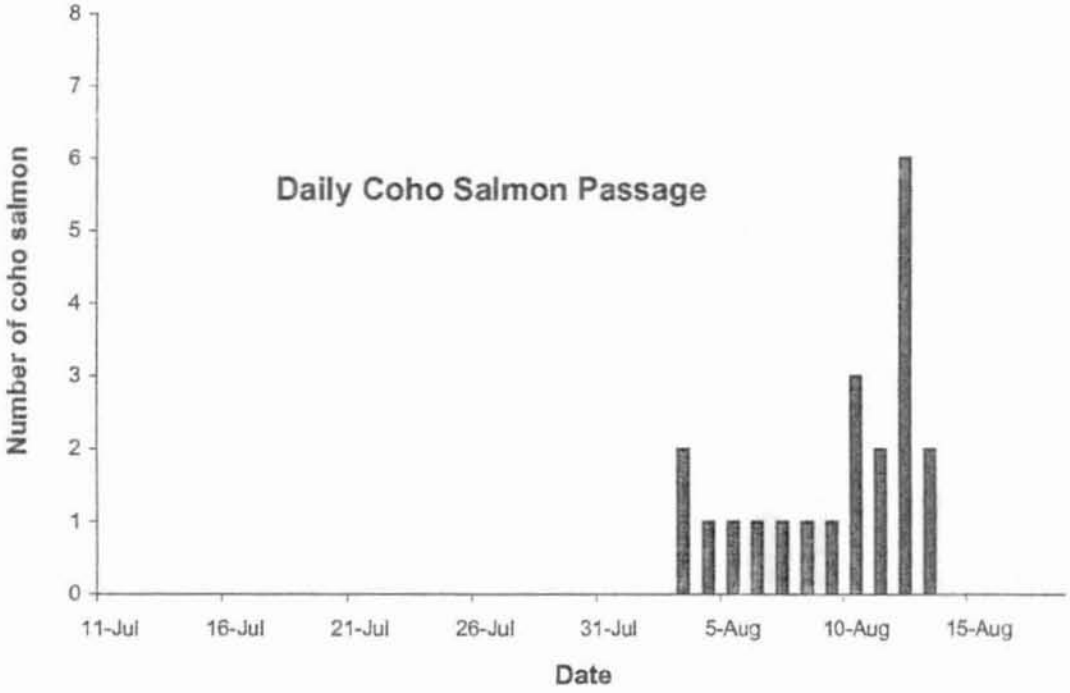

Figure 12. Cumulative coho salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

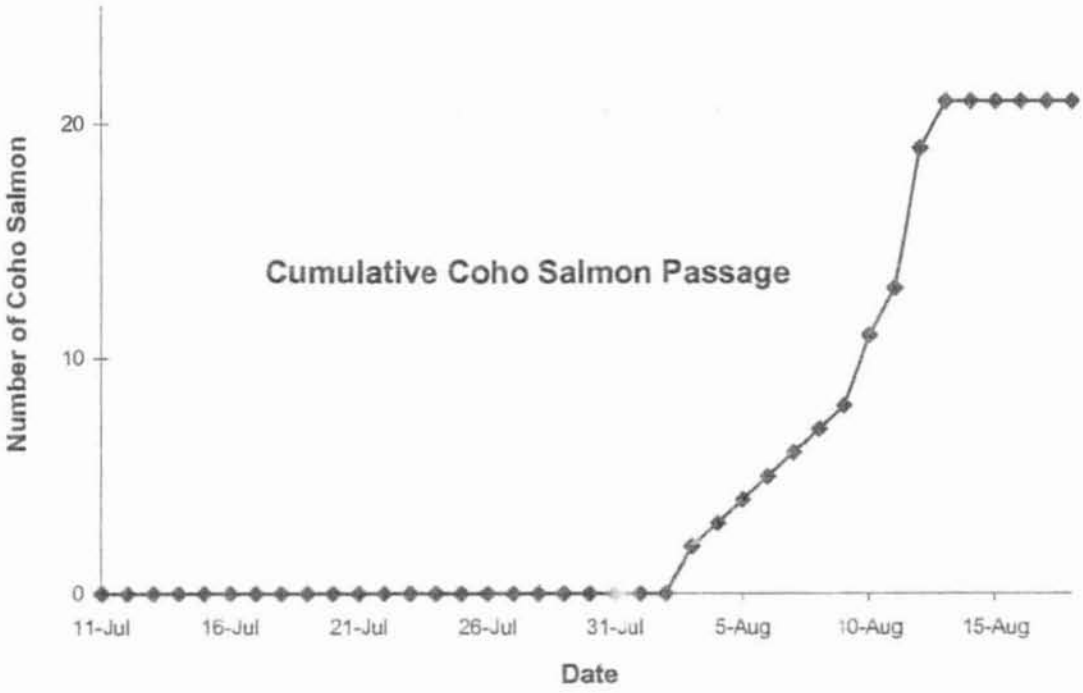

Figure 13. Diurnal pattern of chum salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

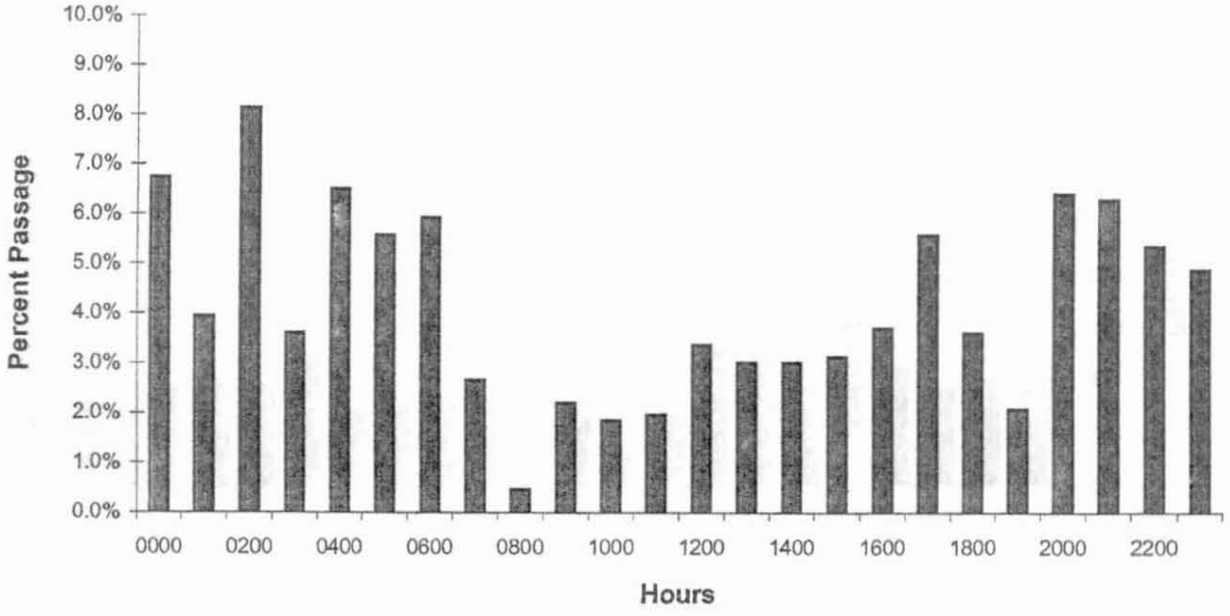

Figure 14. Diurnal pattern of pink salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

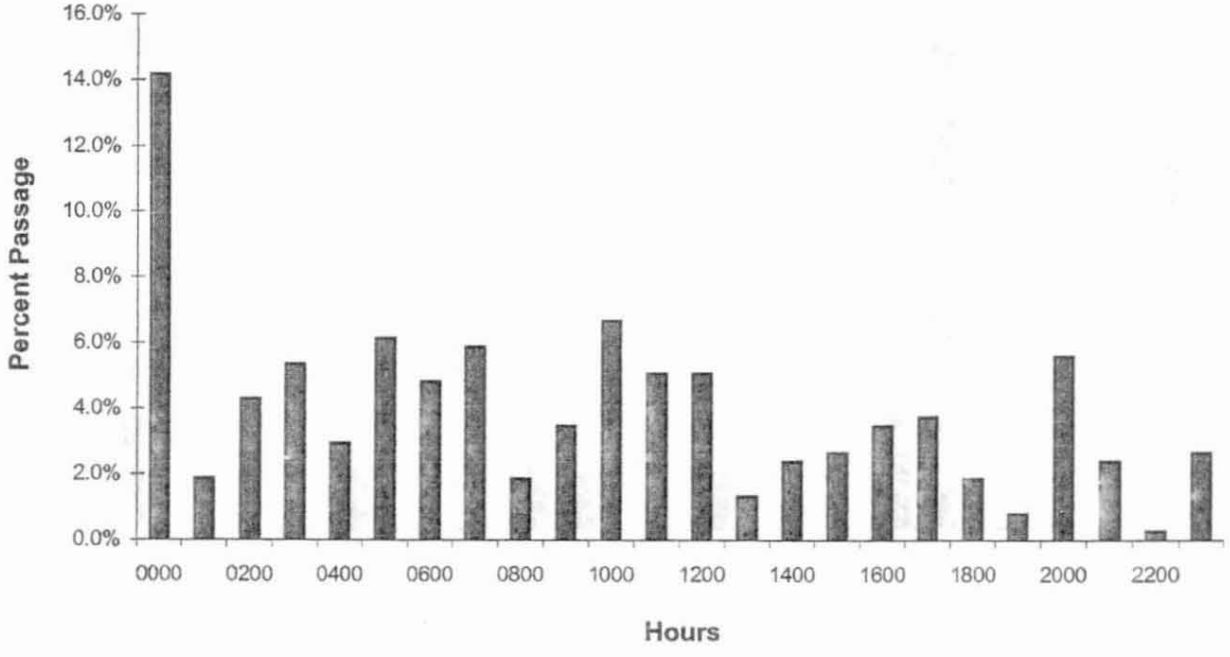

Figure 15. Diurnal pattern of sockeye salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.

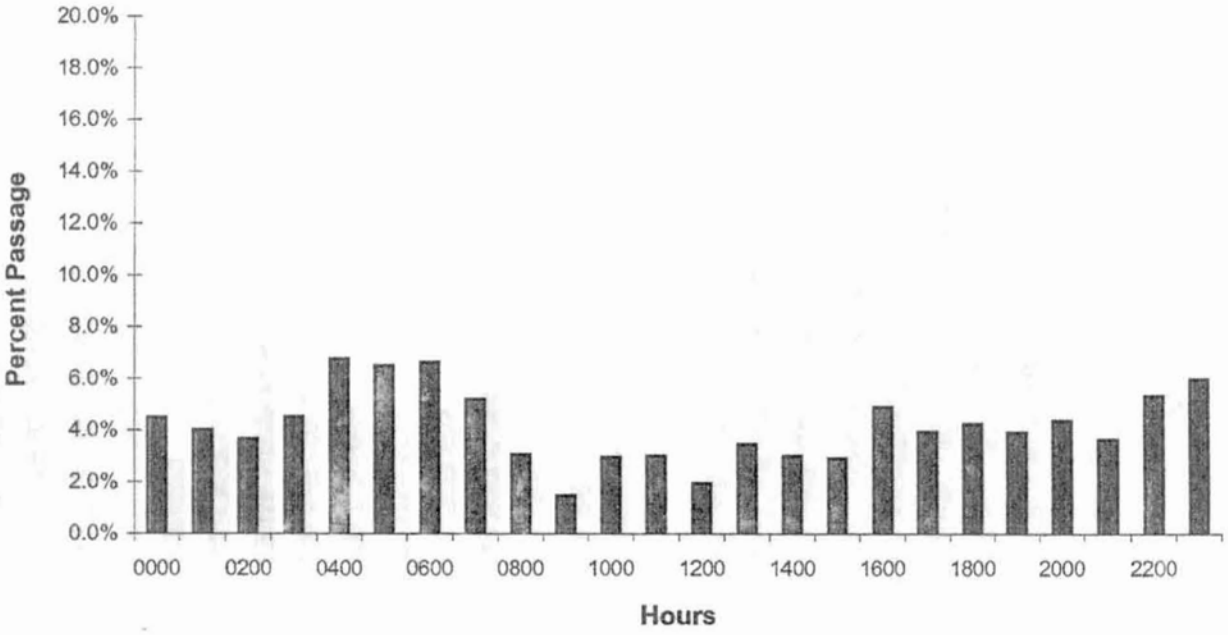
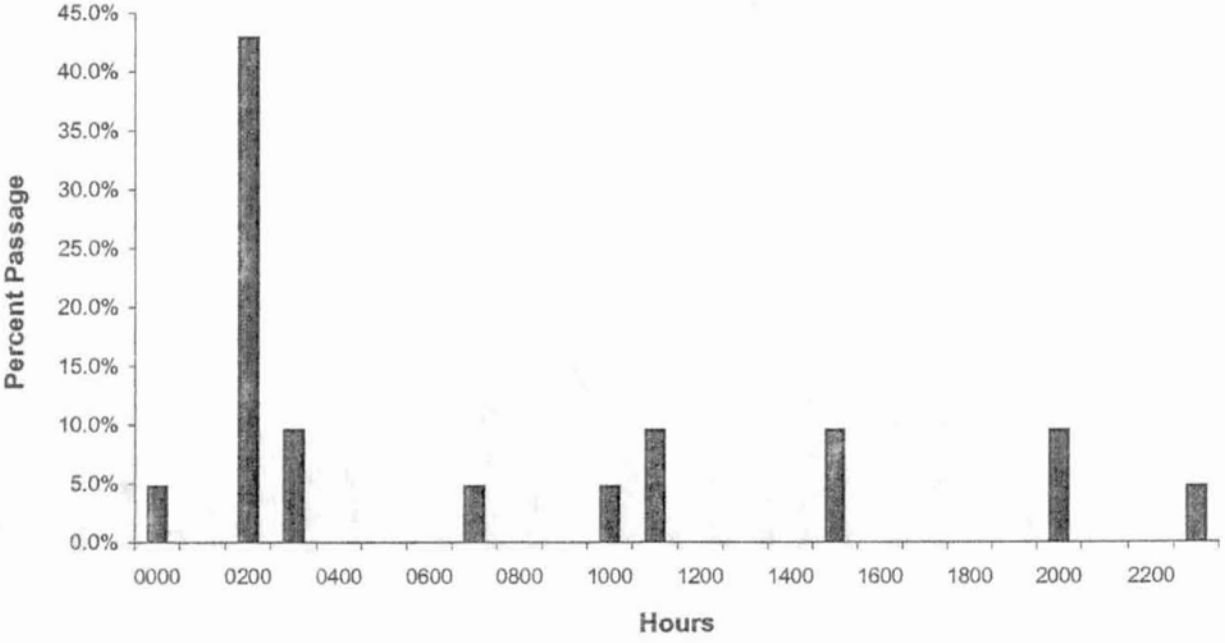
Figure 16. Diurnal pattern of coho salmon migration past the Pilgrim River counting tower, Port Clarence, 2000.