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ASSESSMENT OF AN APPARENT WEAKNESS IN THE EARLY PORTION OF THE NASS RIVER SOCKEYE SALMON RUN

Northern Boundary Technical Committee
Special Report

Assessment of an Apparent Weakness in the Early Portion of the Nass River Sockeye Salmon Run

Submitted to

Pacific Salmon Commission - Northern Panel
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Nass River Sockeye

Introduction

This report was prepared by the Northern Boundary Technical Committee in response to a request by the Northern Panel following their meeting in Vancouver February 17-18, 1986.

The panel requested:

> "Nass River Sockeye
>
> Canada has expressed concern over an apparent weakness in the early portion of the Nass River sockeye run. The Northern Boundary Technical Committee is requested in 1986 to examine available data including test fisheries, fishway counts and catch information to determine the seriousness of this situation. A report of this activity should be available by the fall of 1986."

The response of the Northern Boundary technical committee is comprised of three parts:

1) An oral presentation to be given at the Pacific Salmon Commission meetings November 16-21, 1986.

2) A written summary to accompany the oral presentation.

3) Detailed data summaries containing the background information provided as an appendix to this report.

In an attempt to answer the question, "Is there a weakness in the early Nass sockeye run?", three objectives were established:

1) To determine if there are separate sockeye salmon stocks in the Nass River system.

2) If separate stocks exist, to determine if any of the stocks show a decline in abundance.

3) If separate stocks exist, and if any show a decline in abundance, to determine if the stocks have distinct run timing that correspond to the apparent weakness in the early portion of the run.

ARE THERE SEPARATE SOCKEYE STOCKS IN THE NASS RIVER SYSTEM?

Introduction

Twelve systems within the Nass River drainage have recorded escapements of sockeye salmon (Figure 1 and Appendix I). The major sockeye salmon stocks in the Nass are found in the Meziadin, Bowser, Damdochax and Fred-Wright Lakes systems and in Gingit Creek (Tseax System), and in total these five systems account for 98% of the total estimated optimum escapement of

242,700 (Figures 2 and 3). The remaining seven systems are small tributaries to the Nass mainstem or Tseax River. The total escapement is less than 1,000 during the 1980's; the highest recorded decade average was 3,000 during the 1950's. These seven systems are considered to be unimportant in the context of this report, and discussion is centered on the five main stocks.

Identification of Major Stocks

Geographic and Electrophoretic Evidence

Because spawning areas for the five largest stocks are separated geographically, they have been considered discrete production units. Recently, sampling of these populations for genetic characteristics has supported this view. Tissue samples for electrophoresis were obtained from four major sockeye spawning areas in the Nass watershed (Meziadin, Bowser, Fred-Wright and Damdochax) over three consecutive years, 1982 - 1984 and in 1986. Meziadin and Fred-Wright are clearly different from each other and from Damdochax and Bowser. Damdochax and Bowser are not as clearly differentiated from each other, but are distinctly different from Meziadin and Fred Wright. The geographic difference between Damdochax and Bowser is however, sufficient to state that the spawning populations do not interbreed. The 1986 electrophoretic samples from the Nass systems are being analyzed in more detail than the 1982-84 samples, and the results (which are expected by mid-November) may reveal additional genetic differences between the Damdochax and Bowser stocks.

Freshwater Age

Gingit Creek, the fifth major Nass stock has not been sampled for genetic traits but does have a freshwater age distribution that is distinctly different from the other four major stocks. The majority of Gingit Creek sockeye spend less than one year in freshwater, while other Nass sockeye stocks are freshwater residents for two or three years.

Timing of Migration or Spawning

The timing of spawning could also serve as a mechanism to reproductively isolate sockeye stocks. However, as outlined in the third section of this report, the migration timing varies little among the Nass stocks. Timing of spawning is very poorly known (see Data Summary) for the minor systems or among locations within the major systems.

Identification of Races within the Major Stocks

There is the additional question of whether there are distinct stocks within the five major Nass sockeye stocks. The Meziadin system has three separate spawning areas, Hanna and Tintina Creeks and Meziadin Lake spawners (Figure 1). The Fred-Wright system has two distinct spawning areas, the Kwinageese River, and

Bonnie Creek (Figure 1). Also, within any one of the spawning areas in the Nass system there could be stocks that spawn at different times within the same spawning area.

In 1986 electrophoretic samples were obtained for the three Meziadin systems and the two Fred-Wright streams. The results of this study are not yet available.

Even if there were separate stocks identified within the major systems, or within individual spawning areas, there are is historical escapement data. Therefore, we could not evaluate if there has been a decline in abundance that could be related to fishing patterns.

DO ANY OF THE NASS SOCKEYE STOCKS SHOW A DECLINE IN ABUNDANCE?

Patterns in Escapement by Stock

The total Nass sockeye escapement is shown in Figure 2. The apparent dramatic increase since 1950 is largely an artifact resulting from no Meziadin escapement enumerations prior to 1957. The escapement to Meziadin was estimated by tagging in 1957, 1958, 1959, 1964 and 1965. The Meziadin fish ladder and counting facility were installed in 1966. Total escapement estimates for Meziadin are not available for other years. The five main sockeye stocks (along with the 7 small stocks grouped in a category called "others") are plotted in Figures 4 through 9. The same scale was used for all graphs, to reinforce the relative size of the different stocks.

The stock status of the Nass sockeye stocks as indicated by the patterns in escapement are summarized as follows:

Table 1. Nass sockeye stock patterns in escapement.

Stock	Target	Long Term Trends	Current Status (Last 4 Years)
Meziadin	160,000	Fluctuating around target since 1970.	1983-84 near target 1985 well in excess 1986 25% below
Bowser	30,000	Fluctuating widely at or below target.	1983 30% of target 1984-86 at target
Damdochax	20,000	Consistantly well below target.	1983-84 10% of target 1985 75% of target 1986 25% of target
Fred-Wright	20,000	Consistantly well below with occasional high	1983 10% of target 1984 25% of target 1985 75% of target 1986 at target
Gingit	7,500	Long term average steady at about 50% of target	1983 10% of target 1984-85 80% of target 1986 No data
"Others"	5,200	Enumeration poor, highs of 50% of target, some years low as 10%	All stocks removed relatively weak
TOTAL AREA 3	242,700	Fluctuating but increasing since 1970.	1983 20% below target 1984 20% below target 1985 50% above target 1986 25% below target

Abundance of spawners within the individiual spawning areas of the Meziadin and Fred-Wright systems are not recorded and therfore no assessment can be made of abundance trends over time.

From this data we conclude that there has been no significant decline in abundance of any Nass River sockeye salmon stock. However, large fluctuations are evident in each system as well as the Nass River system as a whole.

DO INDIVIDUAL NASS RIVER SOCKEYE SALMON STOCKS HAVE DISTINCT RUN TIMING?

The analysis of whether any Nass River sockeye salmon stock has distinct run timing was to be contingent on demonstrating that a stock has showed a decline in recent years. This was not the conclusion, however timing information is presented, as it does contribute to our understanding of the Nass sockeye stocks.

Nass Test Fishery of the Nass Sockeye Stocks

In Figure 10 we show a plot of the average timing and 95% confidence intervals of Nass River sockeye salmon through the lower river test fishery for the years 1966 to 1986; also shown are the 1984-1986 timing curves. The patterns of the escapement curves fall within those historically observed. The migration pattern of the 1984 sockeye run was very similar to the historical average run timing. In 1985, the escapement lagged early in the season, but then accumulated more rapidly than typical. In 1986, few fish passed the test fishery site until late in June, however the whole run ended up late.

Meziadin Fishway

The Meziadin fishway is the only Nass River location where sockeye salmon are counted into a tributary system on a daily basis. The pattern of these counts for the years 1966-1986 are similar to those observed at the test fishery site (Figure 11). The most striking pattern in the 1984-1986 data is the delayed but rapid accumulation of counts through the fishway during mid-July in 1984, and late July in 1985-1986. Following this rapid entry, daily counts were spread out more evenly acroos the duration of the run. It is interesting to note that while delayed significantly early, counts rebounded so rapidly that the mean dates of the halfway point of the escapement were actually earlier than average.

Tagging

Some information is available on the timing of individual sockeye salmon stocks through the Lower Nass River from tagging programs conducted in 1957 and 1959 and from analysis of age composition data.

In 1957 and 1959, tagging programs were conducted in the lower Nass River at Aiyansh (Figure 1). Sockeye salmon captured in fish wheels were tagged during June, July and August; tags were recovered in Meziadin, Damdochax and Fred-Wright systems (Figures 12 to 21).

In both 1957 and 1959, recoveries from the Meziadin system indicate that this stock was present in the lower river during the entire tagging period. Tag recoveries at Hanna Creek in 1957 and 1959 and Tintina Creek in 1959, (tributaries of Meziadin Lake), although very few in number, show a similar pattern. It is worth noting the difference between years in the migration period for Meziadin sockeye (Figures 12 and 13). This indicates that the between year variability is very large and would likely mask any variability that exists between stocks.

Recoveries in the Kwinageese (Fred-Wright) system in 1957 were sparse and provide little timing information. In 1959 a fence was installed which increased the number of recoveries. The migration of the Kwinageese sockeye in 1959 appears to be concentrated in the later portion of the Nass sockeye run (Figure 21).

In 1957 and 1959 there was also tagging at Meziadin falls. These data have yet to be analyzed but may contribute to our understanding of timing of stocks within the Meziadin system.

Because very few recoveries were made at Damdochax Lake and no recoveries were made at Bowser Lake we were unable to evaluate lower river timing of these stocks.

Scale Analysis

The unique age composition of the Gingit Creek sockeye identify them in the test fishery scale samples. Gingit Creek is the only known Nass sockeye stock which spends less than one year in freshwater. Age composition tables (Data Summary I) show that these sub-one (zero check) sockeye are present only in the early portion of the test fishery operation, usually prior to the first week in July.

Electrophoretic Sampling

Genetic samples collected in 1986 from the Nass test fishery have been analyzed and preliminary information provided in Appendix II. Estimates of the relative stock strength, and the timing patterns among the various stocks is presented.

Summary and Conclusions

A review of the information on timing of sockeye salmon stocks through the Nass River test fishery, and through the Meziadin fishway does not indicate a weakness in the early portion of the Nass sockeye run. The 1957 and 1959 tagging programs in the lower Nass indicated variable timing of individual stocks between

years, and provided some evidence that the Fred-Wright stock may be a relatively late run. Escapement records do not indicate a pattern of declining abundance of spawners in any component stock

Recommendations

- Analyse 1957-59 Meziadin Tagging.
- Evaluate further the 1986 electrophoretic sampling from test fishery, and a more detailed baseline sampling on the Nass River system.
- Maintain separate escapement and spawn timing records for all sockeye spawning areas within the Nass.
- Analyse age-length sex information for potential to provide stock identification and timing information.

Outline of Data Summaries

Appendices I to V contain summaries of information pertinent to the early Nass sockeye problem. The data summaries are intended to provide reference material and background information on the Nass sockeye problem and are not necessarily directly referred to in the report.

The data summary is broken into five sections as follows.

1. Escapements (Appendix I)

   This section includes a brief description of how the escapement for each system is derived along with the individual estimates for each year. Timing, age, sex, length, electrophoretic and parasite information from escapements is also provided.

2. Test Fishery (Appendix II)

   A brief description of the history and methodology of the test fishery operation is provided along with the daily catch indices and escapement estimates. All age, sex, length, electrophoretic and parasite data is also included.

3. Indian Food Fishery (Appendix III)

   Yearly catch information back to 1951 is presented along with a weekly breakdown for 1985 and 1986, the only years in which weekly estimates are available.

4. Commercial Catch (Appendix IV)

   Weekly catch data by gear type for Canadian Areas 3X (3-1), 3Y (3-2 to 4), 3Z (3-7 to 17) and Areas 1 and 4 and Alaskan Districts 101 and 104 are presented in this section.

5. Tagging Data (Appendix V)

Interception rates for the various fisheries which harvest Nass sockeye are provided from the International tagging program, 1982 and 1983, along with timing information through the fishing areas. In addition, information from early fishwheel tagging studies (1957 and 1959) is included.

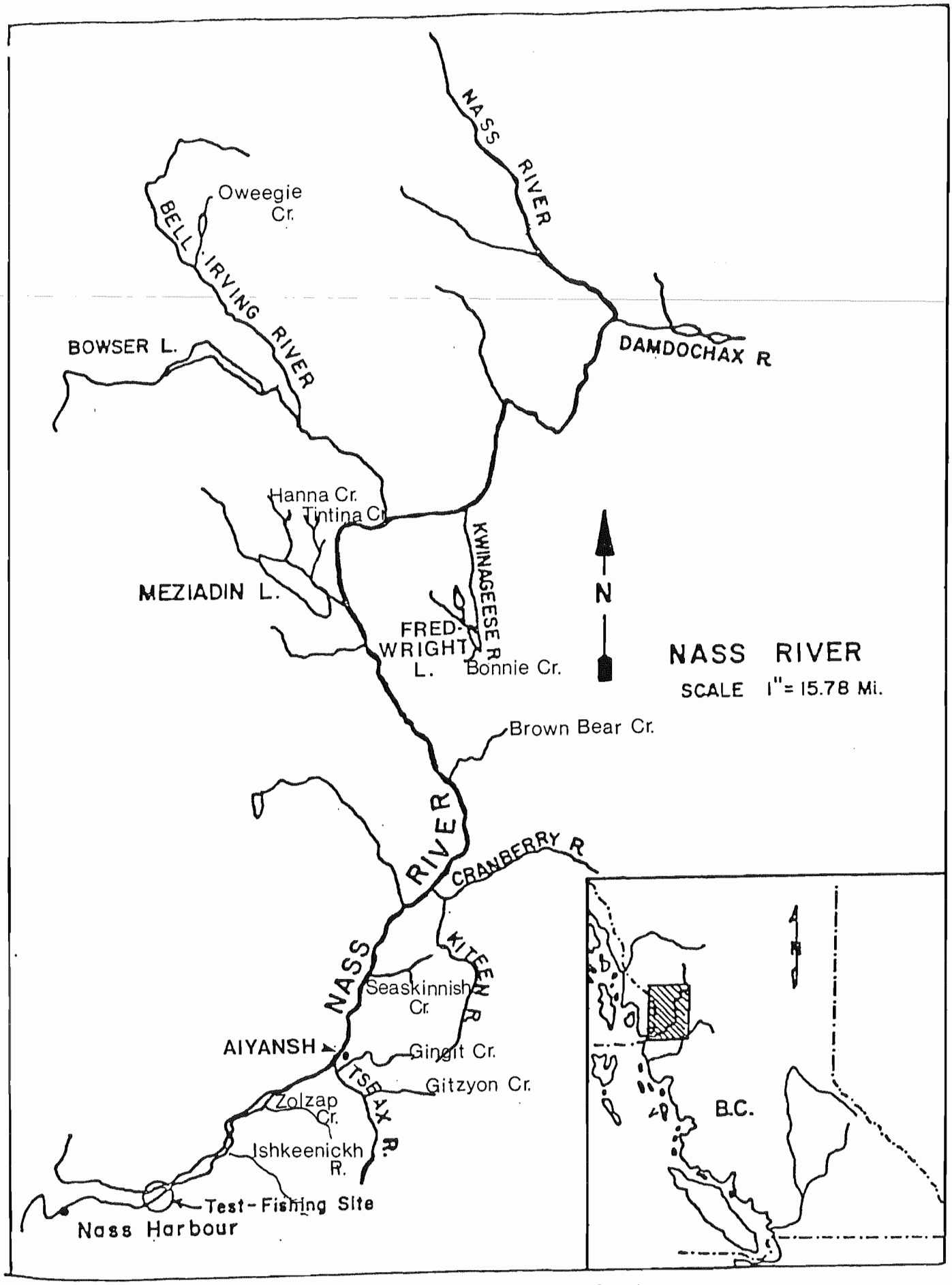


Figure 1. Location Map of the Nass River System.

Figure 2. Annual sockeye escapement of all Nass stocks.

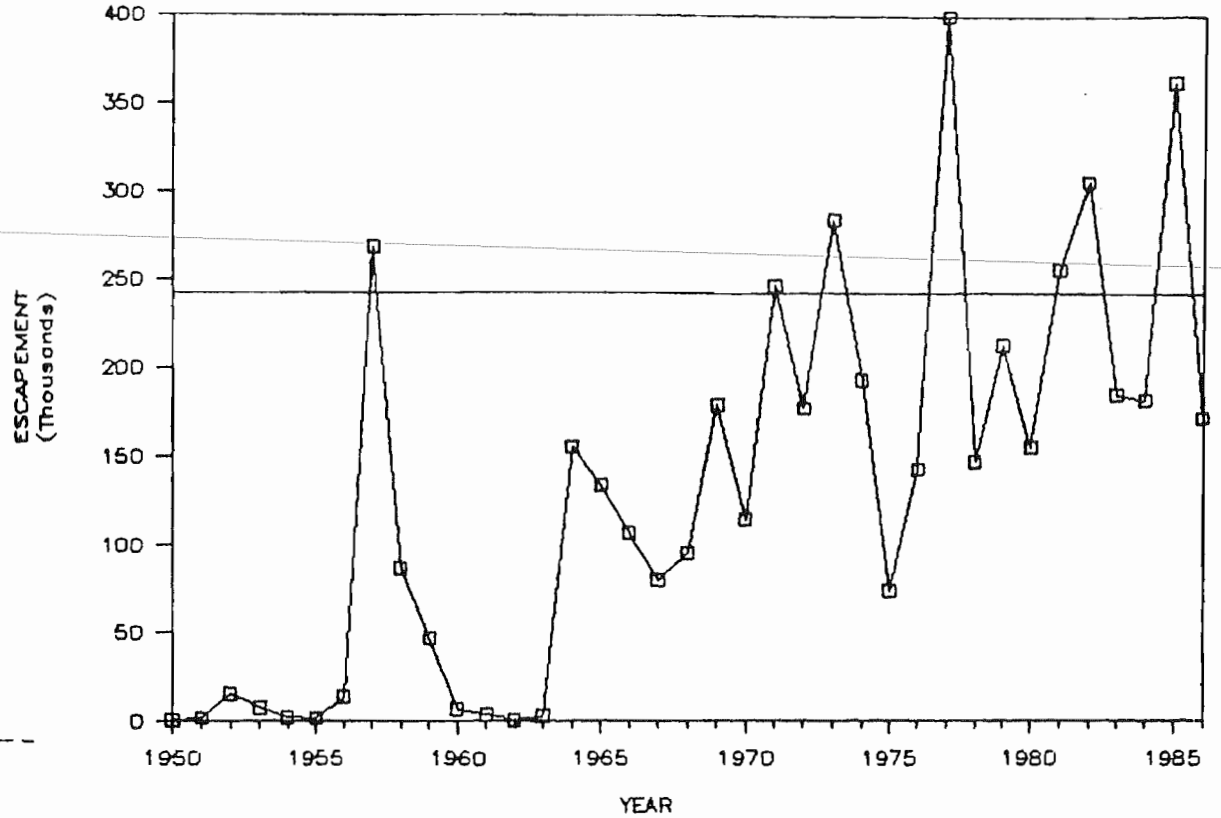


Figure 3. Nass Sockeye Stocks - Optimum Escapement Distribution.

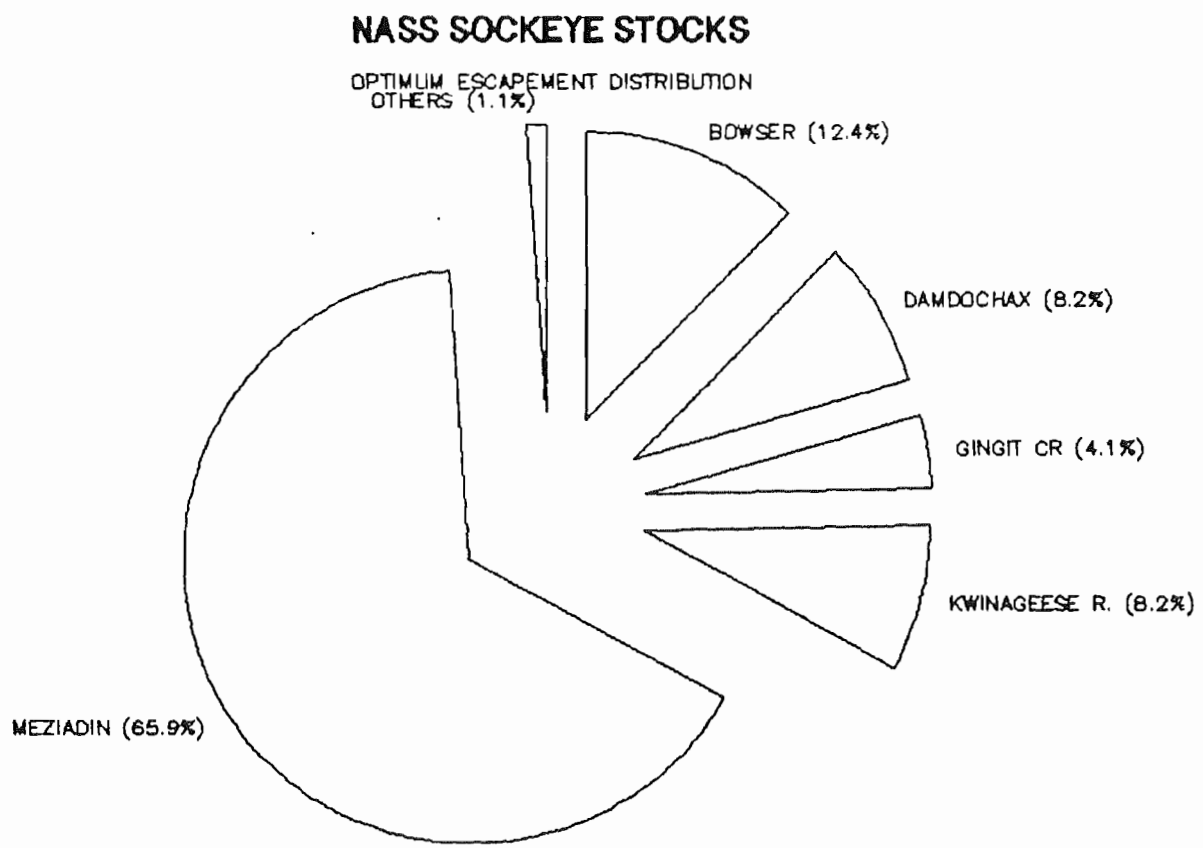


Figure 4. Annual Escapement Figures for Meziadin Sockeye.

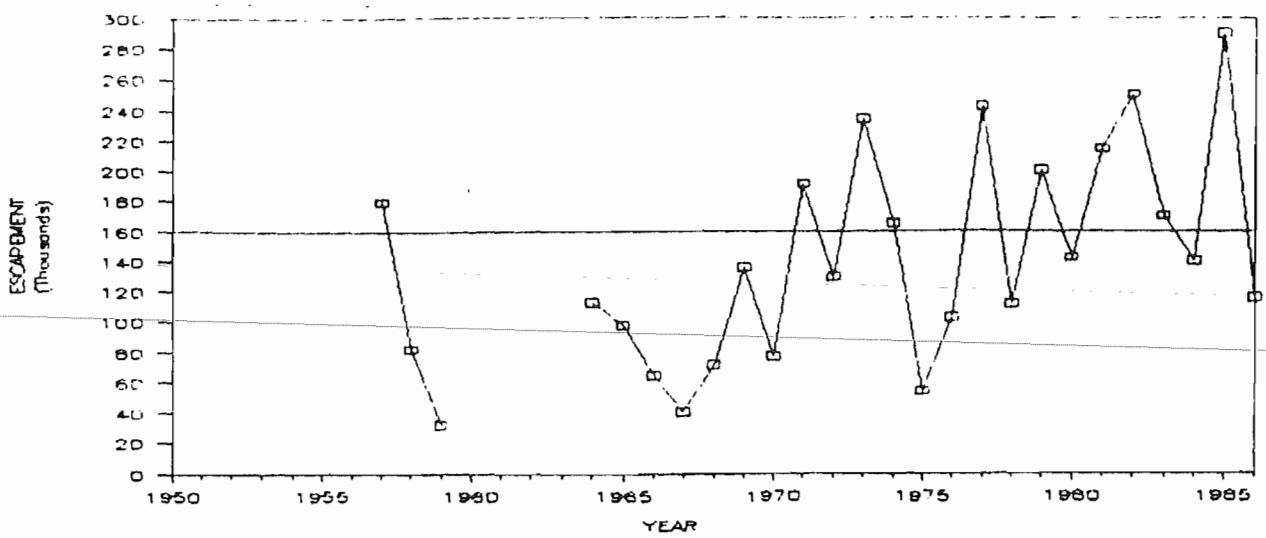


Figure 5. Annual Escapement Figures for Bowser Sockeye.

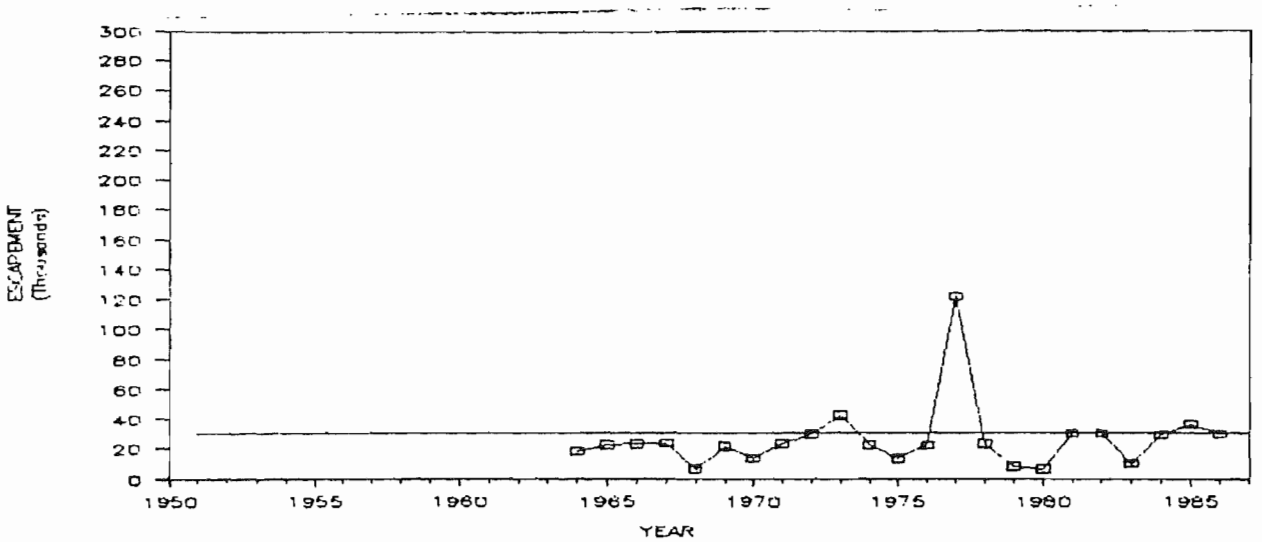


Figure 6. Annual Escapement Figures for Damdochax Sockeye.

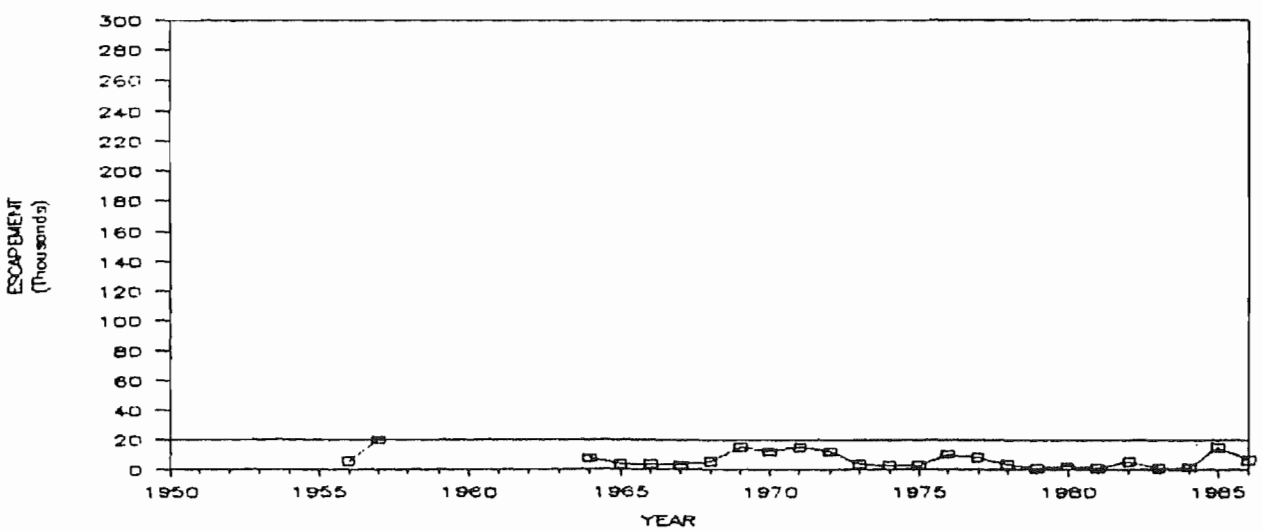


Figure 7. Annual Escapement Figures for Fred-Wright Sockeye.

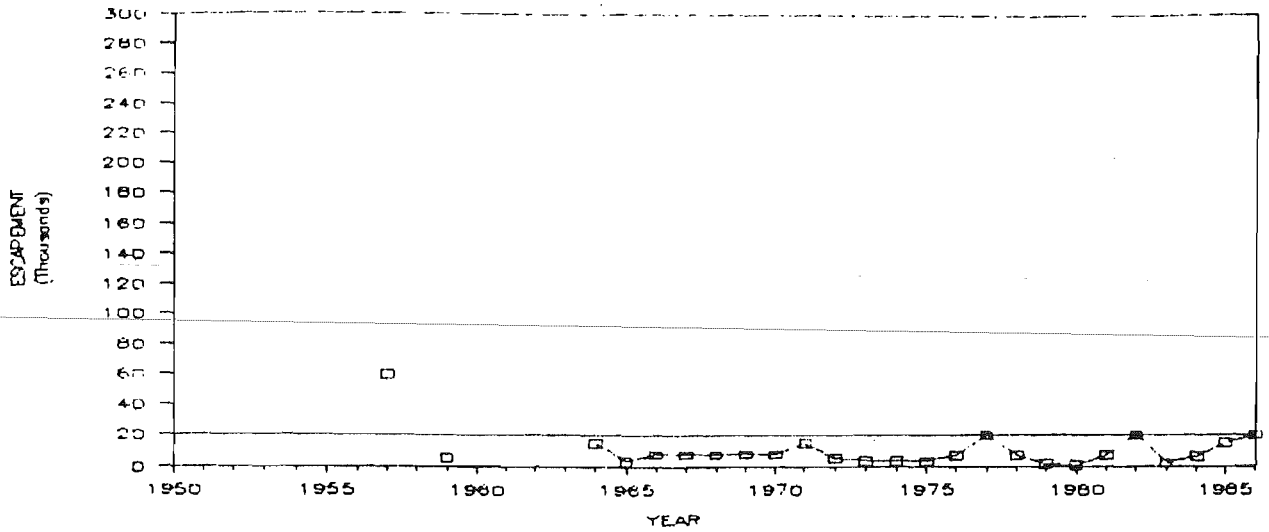


Figure 8. Annual Escapement Figures for Gingit Sockeye.

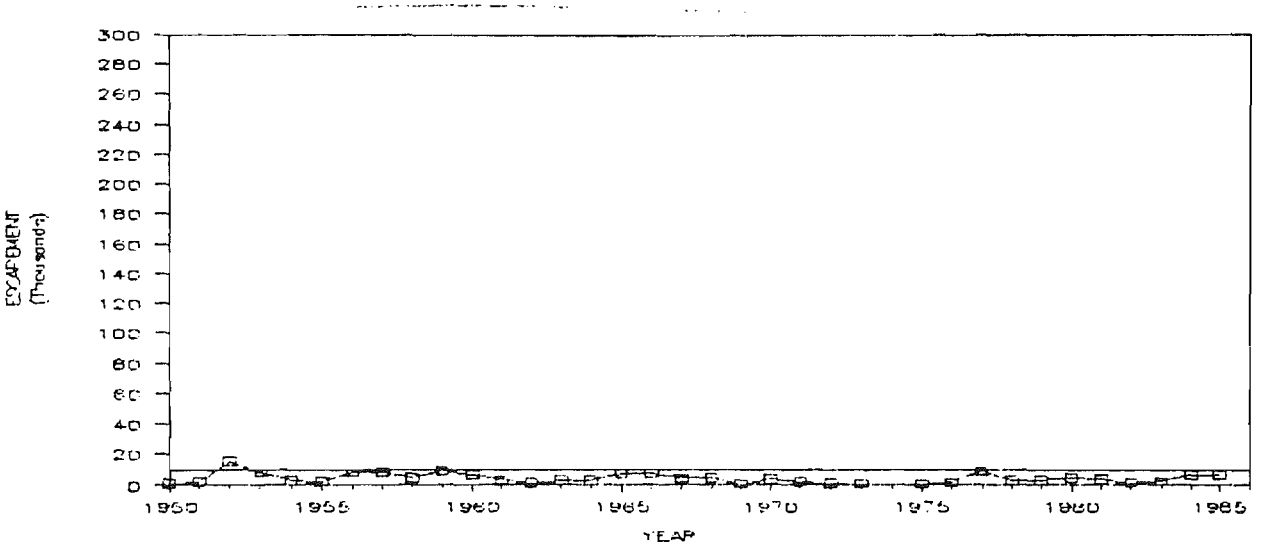


Figure 9. Annual Escapement Figures for minor Nass sockeye producers.

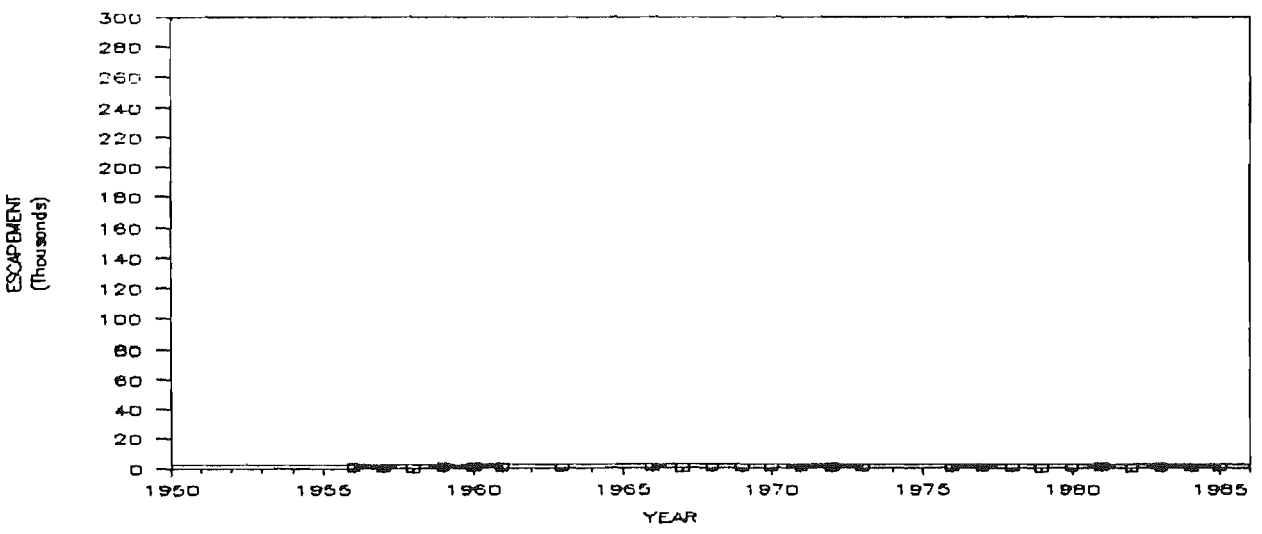


Figure 10. Timing of the 1984, 1985 and 1986 Nass sockeye runs through the test fishery, compared with the average and 95% confidence intervals of the sockeye runs from 1966 to 1986.

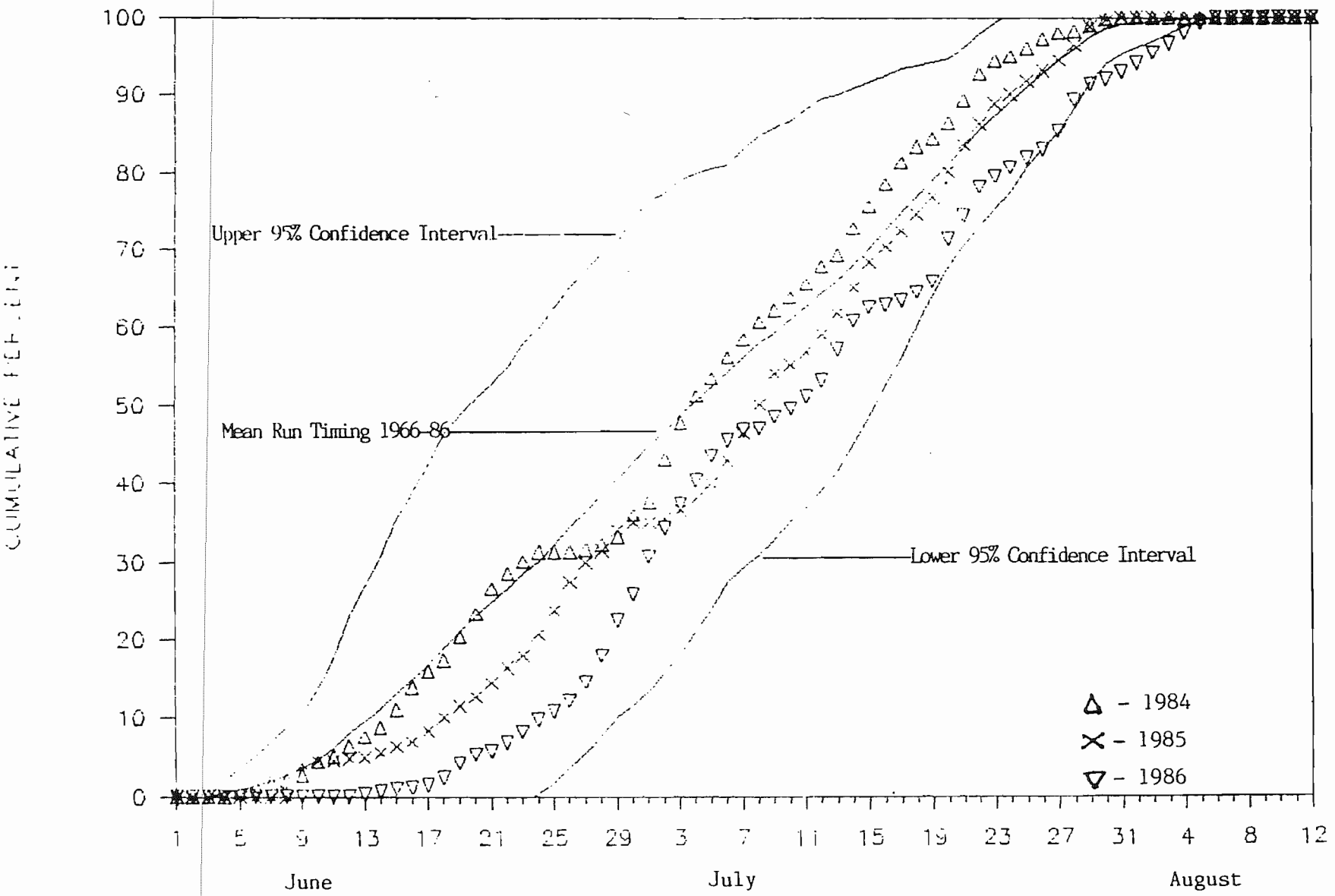


Figure 11. Timing of the 1984, 1985 and 1986 Nass sockeye runs through the Meziadin fishway, compared with the average and 95% confidence intervals of the sockeye runs from 1966 to 1986.

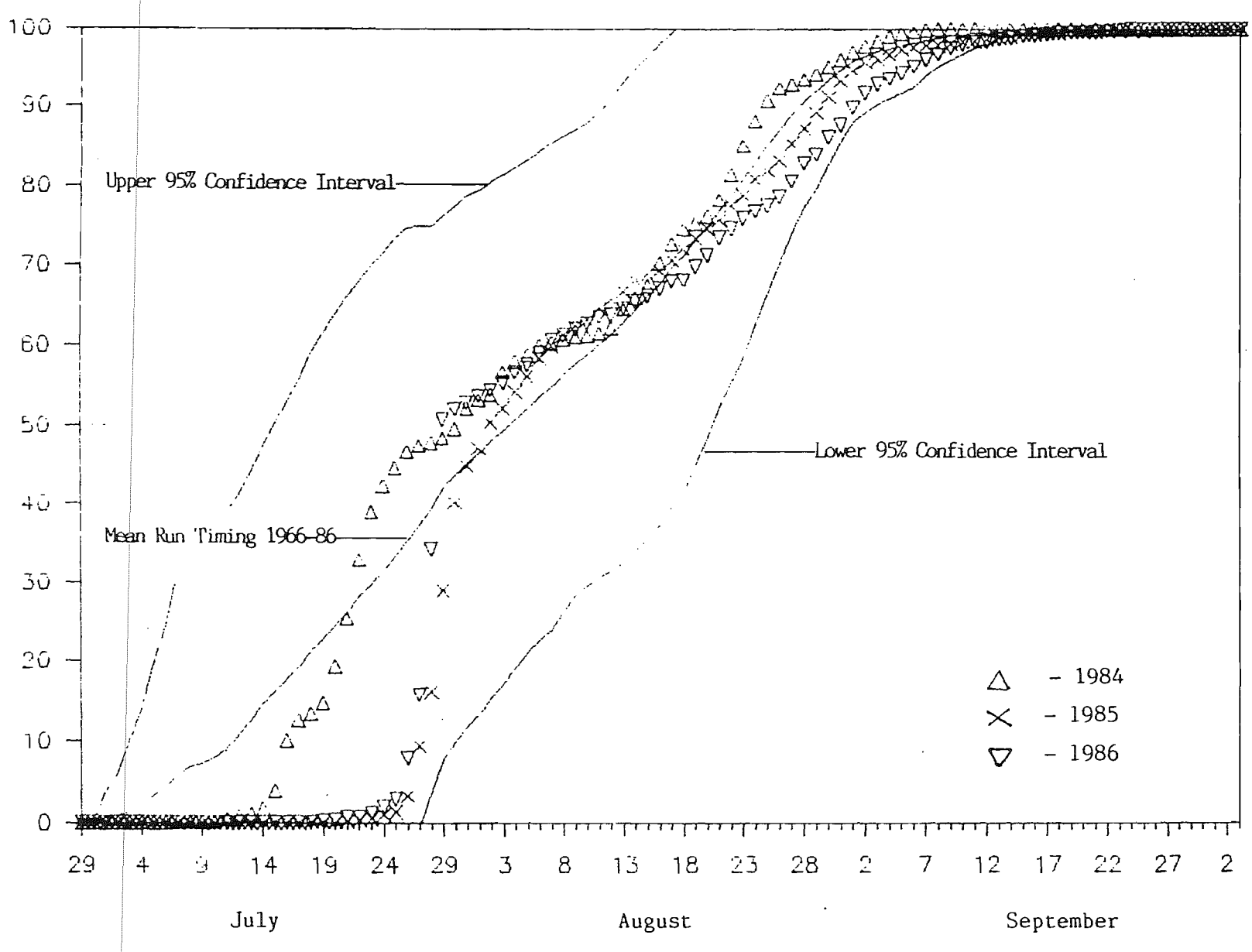


Figure 12. Number of tags applied by day during 1957 Nass River fishwheel tagging study.

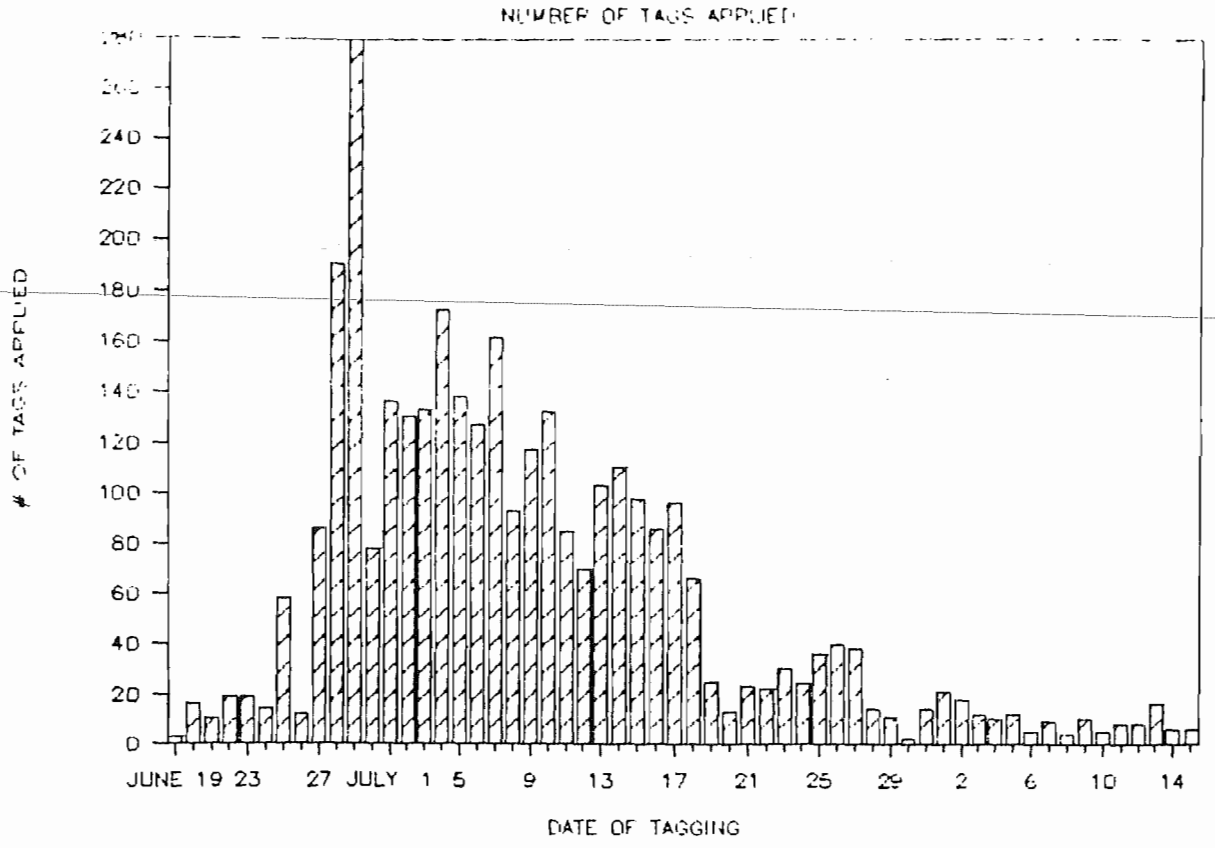


Figure 13. Number of tags applied by day during 1959 Nass River fishwheel tagging study.

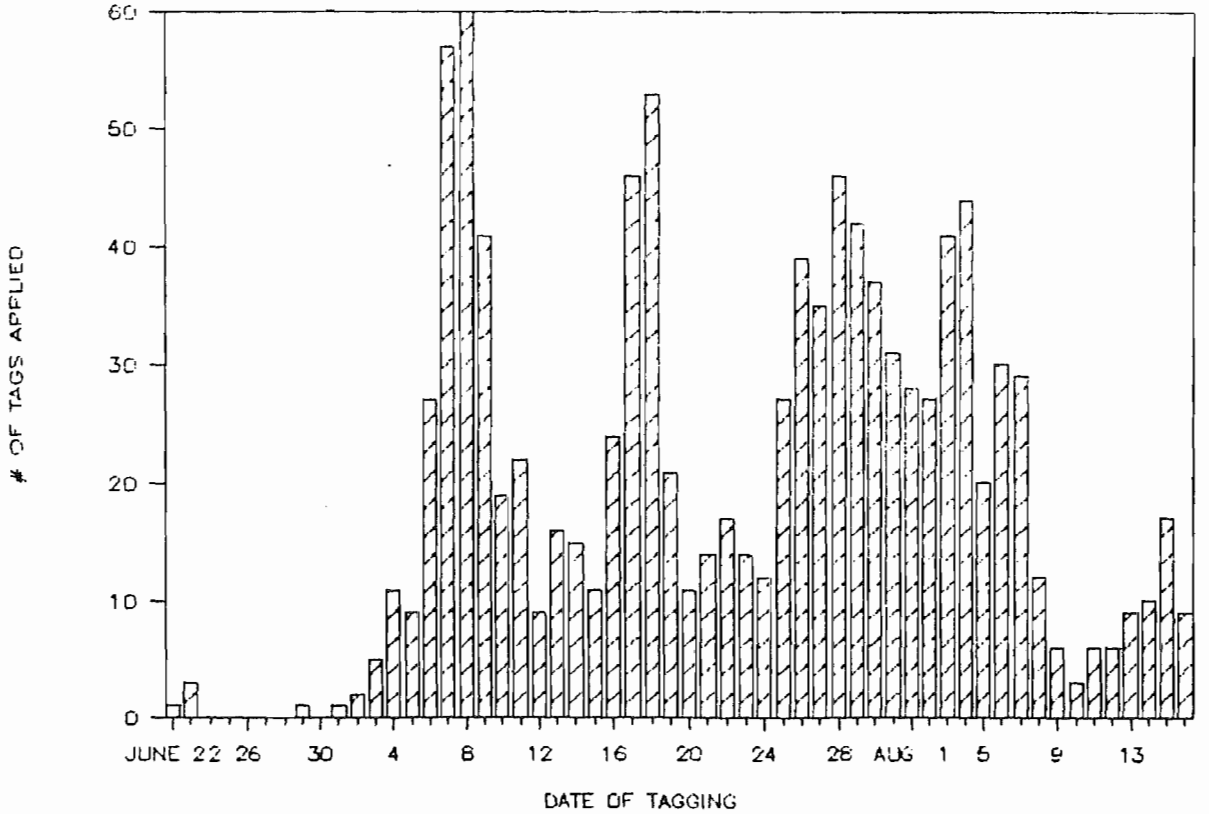


Figure 14. Number of tags recovered by tagging date for Meziadin sockeye in 1957.

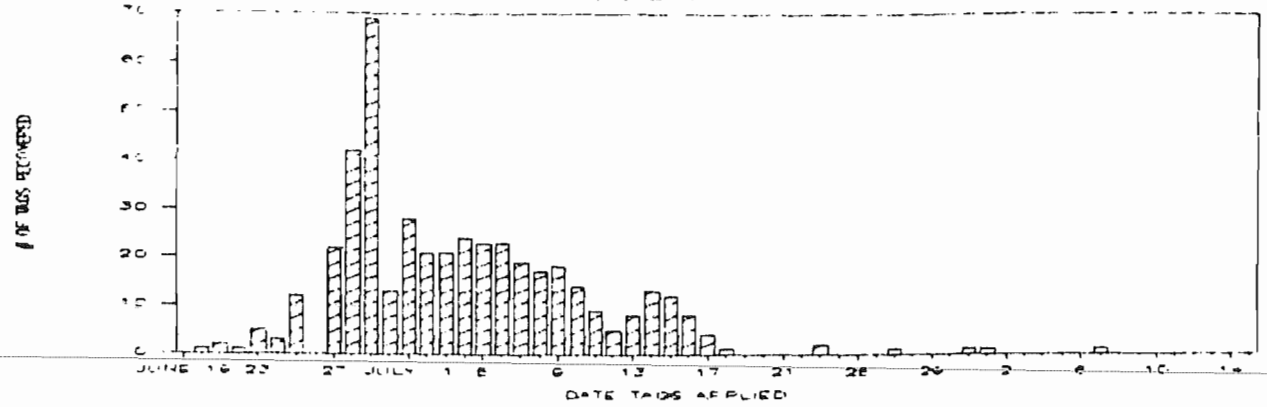


Figure 15. Number of tags recovered by tagging date for Hanna Creek sockeye in 1957.

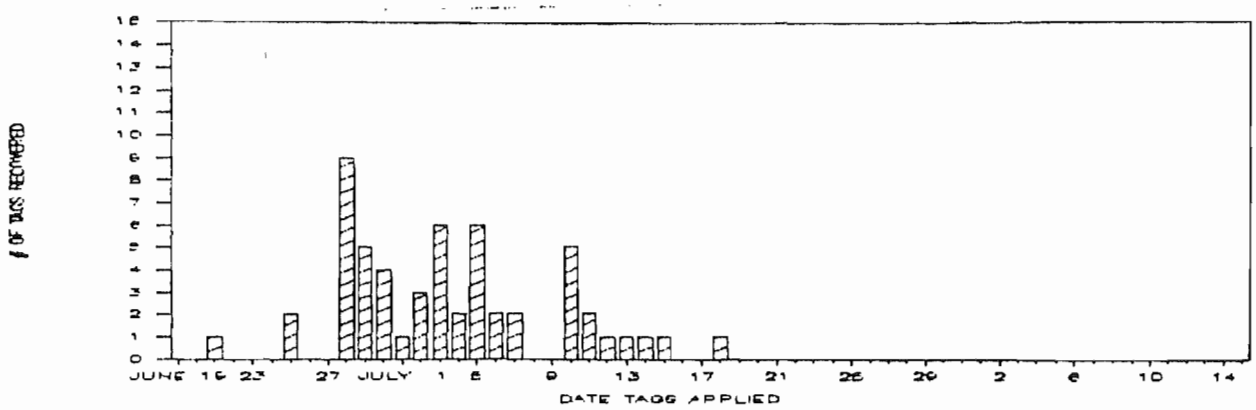


Figure 16. Number of tags recovered by tagging date for Fred-Wright sockeye in 1957.

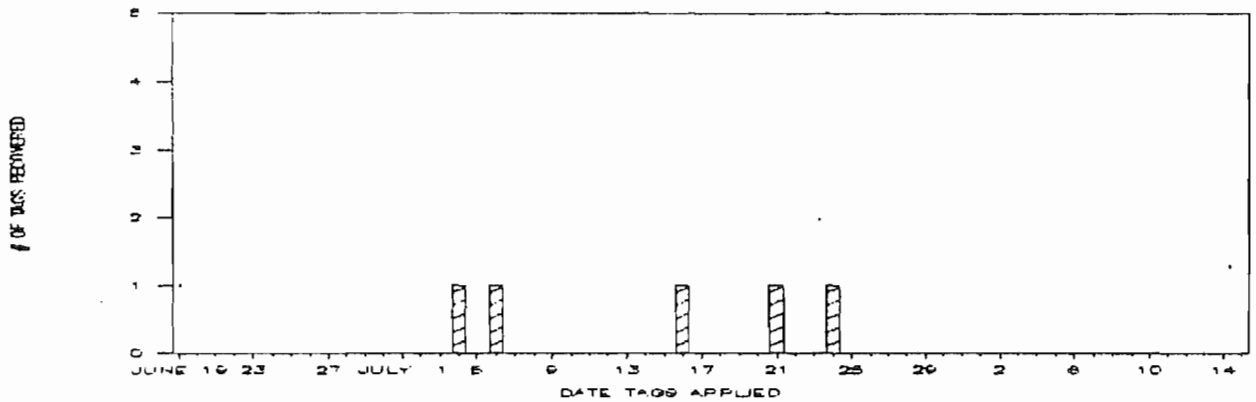


Figure 17. Number of tags recovered by tagging date for Damdochax sockeye in 1959.

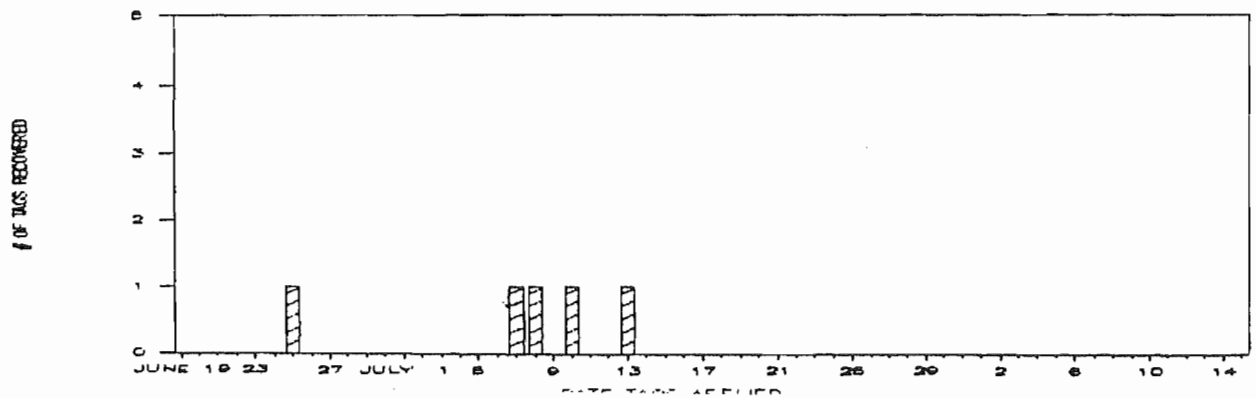


Figure 18. Number of tags recovered by tagging date for Meziadin sockeye in 1959.

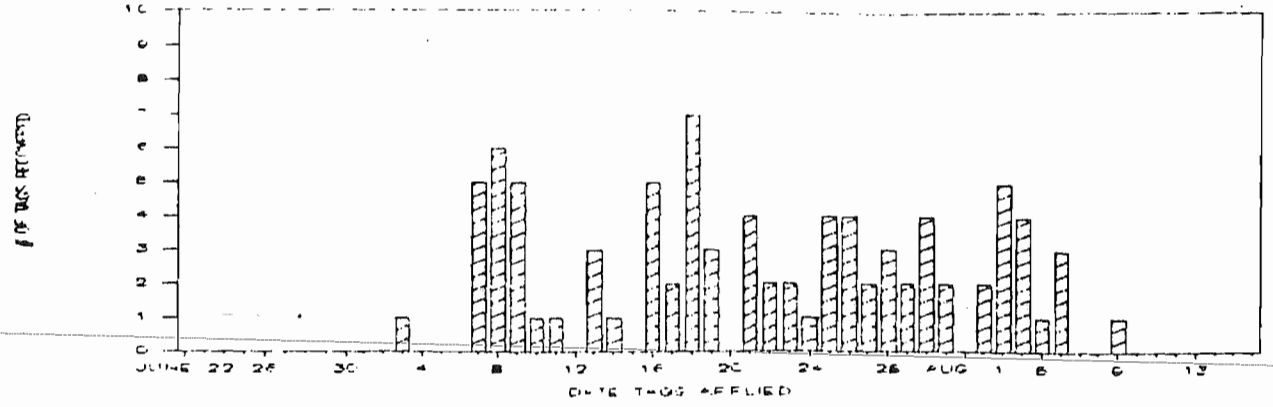


Figure 19. Number of tags recovered by tagging date for Hanna Creek sockeye in 1959.

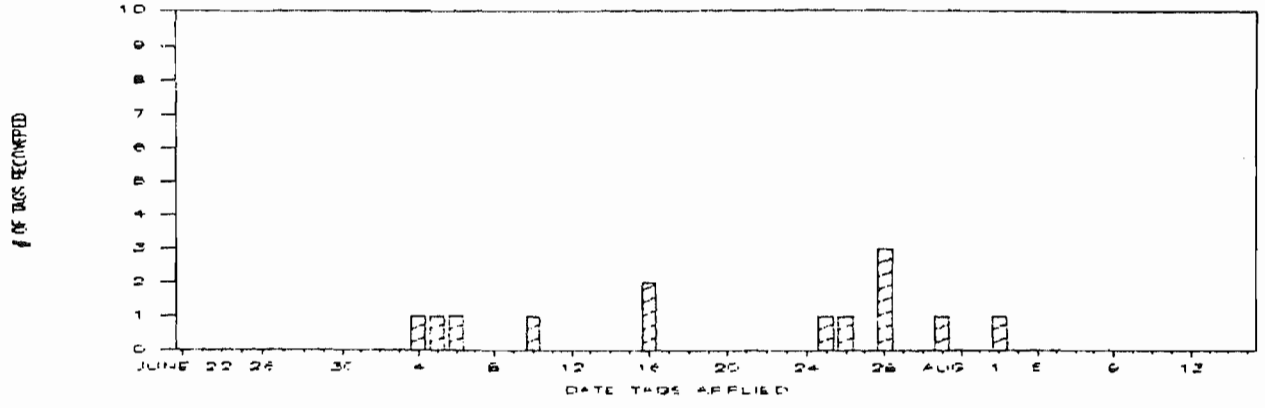


Figure 20. Number of tags recovered by tagging date for Tintina Creek sockeye in 1959.

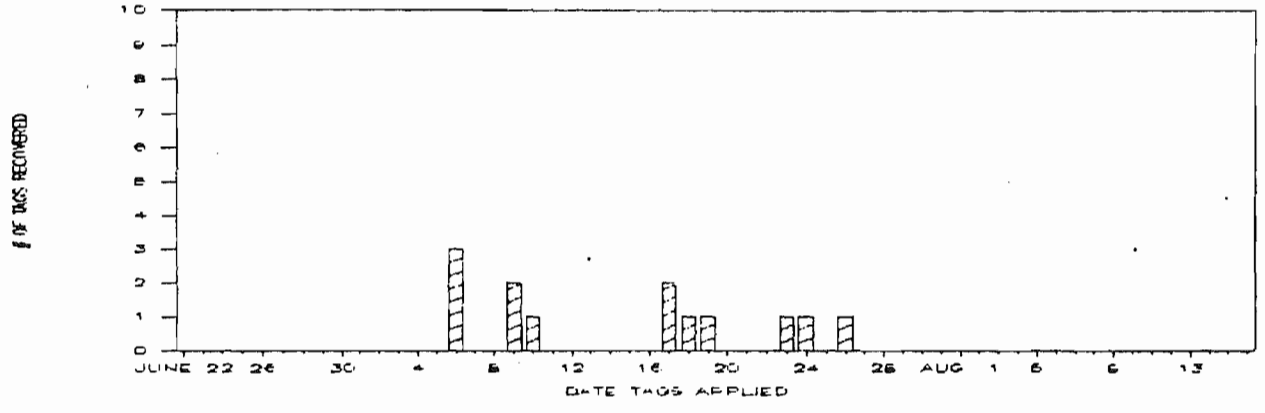
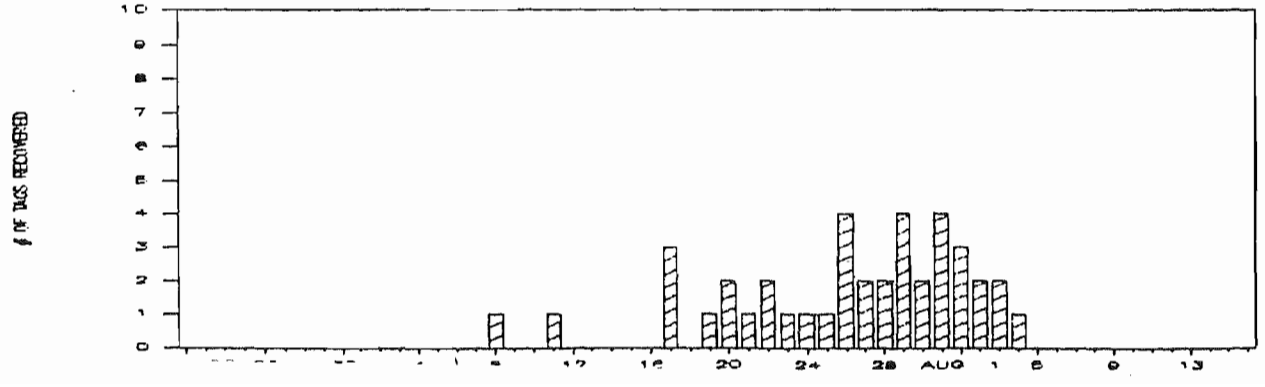


Figure 21. Number of tags recovered by tagging date for Fred-Wright sockeye in 1959.



APPENDIX I

"Escapement"

Table of Contents

The information contained in this section relates to sockeye escapement data for all Nass systems. Included is a brief description of the methods used to generate annual escapements for all systems. Table I.0 presents the escapement estimates for the Nass systems from 1950 to 1986. The source of these figures is from British Columbia stream file reports (B.C. 16's).

Also included are the daily and cumulative sockeye counts (Tables I.1 to I.4) as well as tables of the daily and cumulative percentage of the sockeye run (Tables I.5 to I.8) through Meziadin fishway (Source: Management Biology files - Prince Rupert). Graphs of the daily percentages of the run for each year from 1966 to 1986 (Figures I.1 to I.21) are presented which show the wide variation in timing between years.

Weir counts for Hanna Creek (1958), Tintina Creek (1958), Kwinageese River (1959 and 1967) and Damdochax River (1967) are presented in Tables I.9 to I.13 (Source: Management Biology files - Prince Rupert).

Annual age composition data for Meziadin, Bowser, Damdochax and Fred-Wright (Kwinageese River) sockeye stocks are summarized in Tables I.14 to I.17 for the years 1964 to 1986. In addition Meziadin hypural length information is presented by sex and week for each age group from 1975 to 1985 in Table I.18 (Source: Management Biology files - Prince Rupert).

A) Escapements

i) Methods of Estimating Escapement

The known major sockeye producers in the Nass River system include Meziadin, Bowser, Damdochax and Fred-Wright Lakes (Figure 1). Annual escapements to each of these systems along with the minor producers are presented in Table I.0. Due to the glacial character of Meziadin and Bowser Lakes, normal escapement estimation techniques (aerial observations, stream walks, etc.) are impractical.

Meziadin

The Meziadin escapement represents as much as 70 percent (70%) of the entire Nass sockeye escapement in most years. In the Meziadin system an obstruction in the form of a series of waterfalls made passage to the spawning grounds difficult often resulting in considerable prespawning mortality. In 1913 a small fish ladder was constructed to aid passage however, it only by-passed a small portion of the falls. Tagging studies during the 1956 to 1959 period determined that approximately 50 percent (50%) of the sockeye

escapement utilized the fishway at Victoria Falls. These studies also indicated that in some years the falls caused substantial delays in migration and often resulted in high mortality rates (Todd and Dickson, 1970). Construction of a new fishway was inititated in 1965 with completion to be prior to adult migration in 1966. Since 1966 complete escapement counts for sockeye have been enumerated through the fishway. Prior to 1966 numerical estimates were generated through tagging studies for the years 1957 to 1959 and 1964 to 1965. Spawning occurs both in the lake and in the streams entering the lake (Hanna, Tintina and Strohn) with the majority of the spawning taking place in the lake.

Bowser Lake

The Bowser Lake system is the most glacial system in the Nass River drainage. Historical reports by Fishery Officers suggest that substantial numbers of sockeye have utilized the system. Although direct evidence is not available (i.e. visual counts) for the Bowser population, an analysis of the racial characteristics of the Bowser and Meziadin populations in conjunction with the test fishing index of escapement, and known escapements to Damdochax and Fred-Wright Lakes, has been used to derive Bowser escapements beginning in 1964 (Todd and Dickson, 1970). Since 1964, Bowser stocks have been sampled for size, sex and age characteristics which are then compared to similar samples from the other major Nass producers. Samples are collected using gillnets which are comprised of three equal panels or three different mesh sizes (3 1/2", 4" and 5"). Almost all spawning is believed to occur in the lake, however, sockeye have been reported in the upper Bowser River at the head of the lake.

Damdochax

The Damdochax system is the upper most sockeye stock known in the Nass River. The decade average escapements (Table I.0) for Damdochax Lake indicate it is the smallest of the four major Nass producers. Escapement estimates in this system, which is not glacial, are generated through aerial observations from both fixed wing and helicopter surveys. Sockeye are captured for sampling purposes using the multipanelled nets described earlier. Spawning occurs in Damdochax Lake, Wiminash River and Lake and the creek which flows into Wiminash Lake. The majority of spawning occurs in Wiminash River.

Fred-Wright Lake

The Fred-Wright system is the third largest sockeye producer in the Nass River. Escapement estimates have been generated from both aerial and foot surveys. Spawning occurs in the upper Kwinageese River and Bonnie Creek which both flow into Fred-Wright Lake.

Other Nass Systems

Escapements in the remaining Nass sockeye producers are derived from foot or aerial surveys by the local Fishery Officers.

Table I.0 (Pg. 3) outlines the timing of spawning of sockeye salmon for each stream. The arrival, start, peak and end of spawning are indicated using the following abbreviations:

ARR = date salmon arrive in stream
ST and S = begin to spawn
PK and P = reach peak in spawning
END = finish spawning
MA,JU,JL,A,S,O,N,D,J = standard abbreviations for the months
E = early
M = mid (11th to 20th of month)
L = late (21st to end of month)
UNK = unknown

The abbreviations to the right of the stream name indicate the month (JU, A, S) or part of the month (ES, MO, LO) when each of the four spawning periods (either ARR, ST, PK or END) occur. To the right of this the spawning periods are illustrated graphically. The x's represent the arriving (ARR) period until the start of active spawning which is indicated by an "S". Once spawning has started the x's represent spawning in progress. The peak of spawning is indicated with a "P" and x's continue until the end of spawning. In cases where a spawning period was listed as a range, the mid-point was used.

Note: Area 3 timing information is preliminary. The data source was the "Catalogue of Salmon Streams and Spawning Escapements of Statistical Area 3", published January 1984 by D.F.O. (Canadian Data Report of Fisheries and Aquatic Sciences, No. 429). The timing is very generalized and will be refined as new information is extracted from historical records.

TABLE I.0 AREA 3 SOCKEYE ESCAPEMENTS

STREAM	TARGET ESC.	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	AVG. 1950-59
NASS RIVER												
BOWSER R. & LAKE	30000											
BROWN BEAR CREEK	500											
DAMDOCHAX R & LAKE	20000							5000	20000			12500
GINGIT CREEK	7500	750	1500	15000	7500	750	1500	7500	7500	3500	4000	4950
GITZYON CREEK	100								75		100	88
ISHKHEENICKH R.	100								N/I	N/D	UNK	
KWINAGEESE RIVER	20000								60000		5000	32500
MEZIADIN R. & LK.	160000								180000	82000	32000	98000
OWEEGIE CR. & LK.	500											
SEASKINNISH CREEK	500				N/I			750	200	25		325
TSEAX RIVER	2500					1500			400	750	5000	1913
ZOLZAP CREEK	1000										400	400
ZOLZAP SLOUGH												
TOTAL	242700	750	1500	15000	7500	2250	1500	13250	268175	86275	46500	44270

TABLE I.0 CONT. AREA 3 SOCKEYE ESCAPEMENTS

STREAM	TARGET ESC.	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	AVG. 1960-69
NASS RIVER												
BOWSER R. & LAKE	30000					18000	22000	23000	23500	6100	21000	18933
BROWN BEAR CREEK	500											
DAMDOCHAX R & LAKE	20000					7500	3500	3500	3000	5000	15000	6250
GINGIT CREEK	7500	6000	3000	750	1500	1500	3500	3500	3500	3500	200	2695
GITZYON CREEK	100	N/D						75	25	N/R	N/R	50
ISHKHEENICKH R.	100		N/I		N/I	N/I						
KWINAGEESE RIVER	20000					15000	3500	7500	7500	7500	7500	8083
MEZIADIN R. & LK.	160000					113000	98000	64684	41278	71730	135328	87337
OWEEGIE CR. & LK.	500											
SEASKINNISH CREEK	500							200	25	25		83
TSEAX RIVER	2500				750	750	3500	3500	400	750	N/R	1608
ZOLZAP CREEK	1000	500	900		400		N/D		N/D	200	200	440
ZOLZAP SLOUGH												
TOTAL	242700	6500	3900	750	2650	155750	134000	105959	79228	94805	179228	76277

TABLE I.0 CONT. AREA 3 SOCKEYE ESCAPEMENTS

STREAM	TARGET ESC.	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	AVG. 1970-79
NASS RIVER												
BOWSER R. & LAKE	30000	13675	23000	29341	42045	22244	13187	21875	120645	23090	8100	31720
BROWN BEAR CREEK	500									50	20	35
DAMDOCHAX R & LAKE	20000	12000	15000	12000	3500	2500	2800	10000	8000	3500	700	7000
GINGIT CREEK	7500	3500	1500	N/R	UNK	N/R	200	1100	8000	2500	2500	2757
GITZYON CREEK	100		N/D	N/R	N/D	N/R					10	10
ISHKHEENICKH R.	100							50	100	N/D		75
KWINAGEESE RIVER	20000	7500	15000	5000	3500	3200	3000	7000	20000	7000	1500	7270
MEZIADIN R. & LK.	160000	77078	191674	129525	234627	165259	54095	102430	242351	111018	200000	150806
OWEEGIE CR. & LK.	500				250	N/R	UNK				N/D	250
SEASKINNISH CREEK	500	200	200	500	UNK		UNK	250	50	20		203
TSEAX RIVER	2500	N/D	200	800	100	N/R		50	500	10	40	243
ZOLZAP CREEK	1000	N/D	200	50	60	N/R		50	100	30	20	73
ZOLZAP SLOUGH									75	N/D		75
TOTAL	242700	113953	246774	177216	284082	193203	73282	142805	399821	147218	212890	199124

TABLE I.0 CONT. AREA 3 SOCKEYE ESCAPEMENTS

STREAM	TARGET ESC.	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	AVG. 1980-86
NASS RIVER												
BOWSER R. & LAKE	30000	6235	30000	30000	10000	29000	36040	30000				24468
BROWN BEAR CREEK	500	50	400	N/D	300	175	300					245
DAMDOCHAX R & LAKE	20000	2000	500	5000	500	1000	15000	6000				4286
GINGIT CREEK	7500	3000	2500	1000	2000	5800	6000					3383
GITZYON CREEK	100	60	50	20	50	75	N/D					51
ISHKHEENICKH R.	100											
KWINAGEESE RIVER	20000	800	7000	20000	2000	6000	15000	20000				10114
MEZIADIN R. & LK.	160000	142000	214193	250000	170000	140000	290000	116000				188885
OWEEGIE CR. & LK.	500	N/D	100	N/D								100
SEASKINNISH CREEK	500	120	100	25	200	100	N/D					109
TSEAX RIVER	2500	1000	800	25	50	200	200					379
ZOLZAP CREEK	1000	N/D										
ZOLZAP SLOUGH												
TOTAL	242700	155265	255643	306070	185100	182350	362540	172000				231281

Table I.0. Area 3 sockeye spawning timing by stream.

TABLE AREA 3 SOCKEYE SPAWNING TIMING BY STREAM

Stream	ARR	ST	PK	END	May	June	July	Aug	Sept	Oct	Nov	Dec
PORTLAND CANAL												
BEAR RIVER	MJL	EA	MA	A			xxxxxxSxxxPxxxx					
NASS RIVER												
BOWSER & LAKE	MJL	LJL	MA	ES			xxxxSxxxxxPxxxxxxx					
BROWN BEAR CK	MA	LA	MS	O				xxxxSxxxxxPx				
DAMDOCHAX R & LAKE	LJL	LA	ES	MS			xxxxxxxxxxSxxPxxxx					
GINGIT CREEK	MJL	EA	EA	LA			xxxxxxSPxxxxxxx					
GITZYDN CREEK	MJL	LJL	EA	ES			xxxxSxPxxxxxxxxxxx					
ISHKHEENICKH R.	MJU	EJL	MJL	LJL		xxxxxxSxxxPxxxx						
KWINAGEESE R.& BONNIE CK.	EA	MA	ES	LS				xxxxSxxxxPxxxxxxxx				
MEZIADIN RIVER & LAKE	LJU	EA	ES	LS			xxxxxxxxxxxxxSxxxxxxxxPxxxxxxx					
OWEEGIE CR. & LK.	EJL	MJL	EA	LA			xxxxSxxxxPxxxxxxxx					
SEASKINNISH CK.	LJL	LJL	EA	MA			xSxPxxxxx					
TSEAX R.	EJL	MJL	LJL	MA			xxxxSxxxPxxxxxx					
ZOLZAP CK.	MJL	LJL	EA	MA			xxxxSxPxxxxx					
ZOLZAP SLOUGH	MJL	EA	MS	LS			xxxxxxSxxxxxxxxxxxPxxxx					
PORTLAND INLET												
KWINAMASS RIVER												
WORK CHANNEL												
LACHMACH RIVER												
LEVERSON LAKE	EA	LA	ES	MS				xxxxxxxSxPxxxxx				
TOON RIVER												

TABLE 1.1 MEZIADIN FISHWAY SOCKEYE COUNTS 1966 TO 1971

	1966		1967		1968		1969		1970		1971	
DATE	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29												
30					4	4						
JULY 1					3	7						
2					1	8						
3					17	25	85	85	2	2		
4	9	9			13	38	521	606	3	5		
5	32	41			3	41	1430	2036	5	10		
6	72	113			5	46	5335	7371	5	15	10	10
7	72	185	2	2	1	47	19219	26590	4	19	44	54
8	82	267	7	9	8	55	10339	36929	9	28	39	93
9	22	289	14	23	3	58	4820	41749	15	43	52	145
10	45	334	44	67	1	59	978	42727	10	53	77	222
11	75	409	31	98	8	67	99	42826	9	62	136	358
12	162	571	61	159	22	89	214	43040	367	429	242	600
13	98	669	138	297	22	111	860	43900	2877	3306	443	1043
14	241	910	166	463	14	125	1662	45562	11044	14350	1685	2728
15	200	1110	139	602	6	131	2392	47954	10998	25348	1893	4621
16	174	1284	432	1034	229	360	2267	50221	3385	28733	4418	9039
17	261	1545	225	1259	330	690	2093	52314	3045	31778	12226	21265
18	205	1750	647	1906	1033	1723	2568	54882	2637	34415	14566	35831
19	174	1924	463	2369	4571	6294	2483	57365	1603	36018	3286	39117
20	548	2472	295	2664	5026	11320	1508	58873	266	36284	3307	42424
21	1027	3499	139	2803	4593	15913	1141	60014	374	36658	3072	45496
22	1388	4887	100	2903	1156	17069	1948	61962	1047	37705	2390	47886
23	1208	6095	83	2986	1669	18738	1687	63649	1515	39220	2248	50134
24	943	7038	136	3122	2367	21105	1096	64745	1407	40627	2061	52195
25	852	7890	137	3259	2579	23684	656	65401	1235	41862	2237	54432
26	1040	8930	660	3919	3188	26872	693	66094	1081	42943	2763	57195
27	946	9876	1201	5120	1658	28530	229	66323	482	43425	2335	59530
28	1844	11720	308	5428	912	29442	381	66704	237	43662	1753	61283
29	1849	13569	142	5570	780	30222	576	67280	333	43995	1141	62424
30	1640	15209	19	5589	735	30957	1180	68460	414	44409	1028	63452
31	2259	17468	187	5776	1250	32207	1215	69675	560	44969	546	63998
AUG 1	2395	19863	427	6203	1188	33395	1088	70763	502	45471	1841	65839
2	1945	21808	652	6855	914	34309	1157	71920	477	45948	1470	67309
3	1087	22895	1686	8541	828	35137	1396	73316	179	46127	376	67685
4	2546	25441	2102	10643	441	35578	773	74089	190	46317	850	68535
5	3392	28833	1824	12467	1916	37494	1664	75753	119	46436	1578	70113
6	2529	31362	959	13426	1215	38709	2401	78154	343	46779	1802	71915
7	2356	33718	1079	14505	2482	41191	1131	79285	186	46965	2473	74388
8	2494	36212	2041	16546	2497	43688	313	79598	206	47171	2129	76517
9	1897	38109	2919	19465	2403	46091	634	80232	180	47351	2934	79451
10	804	38913	579	20044	2300	48391	193	80425	200	47551	3086	82537
11	999	39912	467	20511	3222	51613	143	80568	312	47863	3216	85753
12	2547	42459	158	20669	3191	54804	360	80928	364	48227	2581	88334
13	2399	44858	288	20957	2015	56819	1111	82039	128	48355	2493	90827
14	2441	47299	473	21430	1783	58602	1258	83297	155	48510	3630	94457
15	1406	48705	865	22295	2728	61330	477	83774	461	48971	3068	97525
16	1612	50317	1287	23582	1822	63152	87	83861	147	49118	4487	102012
17	1072	51389	1620	25202	1545	64697	324	84185	144	49262	5620	107632
18	996	52385	1088	26290	1464	66161	697	84882	400	49662	5701	113333
19	1834	54219	1508	27798	1086	67247	732	85614	818	50480	5519	118852
20	1796	56015	734	28532	855	68102	762	86376	872	51352	1082	119934
21	1748	57763	445	28977	1124	69226	2141	88517	1983	53335	230	120164

TABLE I.1 CONT. MEZIADIN FISHWAY SOCKEYE COUNTS 1966 TO 1971

	1966		1967		1968		1969		1970		1971	
DATE	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JULY 22	1598	59361	473	29450	982	70208	1577	90094	2457	55792	216	120380
23	1366	60727	934	30384	593	70801	1316	91410	2915	58707	924	121304
24	1539	62266	1556	31940	329	71130	1841	93251	4097	62804	808	122112
25	958	63224	849	32789	138	71268	5006	98257	3593	66397	700	122812
26	523	63747	917	33706	173	71441	7149	105406	3408	69805	2491	125303
27	631	64378	324	34030	262	71703	6410	111816	2783	72588	5737	131040
28	205	64583	126	34156			6016	117832	1340	73928	5404	136444
29	210	64793	338	34494			6029	123861	1332	75260	5913	142357
30	91	64884	601	35095			3365	127226	422	75682	7354	149711
31			608	35703			2142	129368	225	75907	10414	160125
SEPT 1			587	36290			1590	130958	335	76242	7078	167203
2			276	36566			663	131621	305	76547	2045	169248
3			277	36843			358	131979	235	76782	1851	171099
4			170	37013			336	132315	173	76955	1662	172761
5			166	37179			776	133091	42	76997	1174	173935
6			393	37572			629	133720	45	77042	1660	175595
7			782	38354			438	134158	33	77075	3487	179082
8			479	38833			366	134524			3481	182563
9			280	39113			372	134896			2889	185452
10			335	39448			297	135193			1180	186632
11			657	40105			79	135272			1311	187943
12			193	40298			0	135272			1346	189289
13			552	40850			31	135303			1082	190371
14			193	41043			30	135333			667	191038
15			168	41211							636	191674
16			87	41298								
17			51	41349								
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
OCT 1												
2												

TABLE I.2 MEZIADIN FISHWAY SOCKEYE COUNTS 1972 TO 1977

DATE	1972 DAILY	1972 CUM	1973 DAILY	1973 CUM	1974 DAILY	1974 CUM	1975 DAILY	1975 CUM	1976 DAILY	1976 CUM	1977 DAILY	1977 CUM
JUNE 29											17	17
30					663	663					25	42
JULY 1					4461	5124					164	206
2			4	4	6227	11351					316	522
3			1	5	5388	16739					720	1242
4			3	8	5733	22472					7987	9229
5	2	2	10	18	4500	26972					29492	38721
6	15	17	3	21	1372	28344					33717	72438
7	9	26	27	48	858	29202					29743	102181
8	2	28	82	130	931	30133	1	1			13520	115701
9	2	30	264	394	784	30917	0	1			3636	119337
10	26	56	722	1116	570	31487	0	1			2368	121705
11	26	82	3714	4830	535	32022	0	1			1128	122833
12	58	140	20902	25732	1925	33947	0	1			1964	124797
13	117	257	29338	55070	3433	37380	0	1			2037	126834
14	66	323	15869	70939	2799	40179	0	1			1662	128496
15	201	524	3910	74849	1455	41634	1	2			1523	130019
16	346	870	6205	81054	1232	42866	13	15			2087	132106
17	815	1685	7249	88303	3049	45915	30	45			1210	133316
18	917	2602	3838	92141	2952	48867	34	79			1249	134565
19	1131	3733	2243	94384	5259	54126	32	111			3084	137649
20	1007	4740	1126	95510	4000	58126	43	154			3297	140946
21	1666	6406	931	96441	2688	60814	928	1082	1	1	5594	146540
22	4541	10947	437	96878	2600	63414	3425	4507	1	2	5531	152071
23	5462	16409	2329	99207	1570	64984	2613	7120	5	7	4894	156965
24	4204	20613	2696	101903	865	65849	3190	10310	2	9	4468	161433
25	3025	23638	4735	106638	507	66356	6852	17162	15	24	3507	164940
26	5271	28909	7992	114630	812	67168	3082	20244	28	52	2533	167473
27	4809	33718	9015	123645	962	68130	721	20965	75	127	1177	168650
28	6512	40230	6575	130220	1210	69340	639	21604	186	313	928	169578
29	8556	48786	6857	137077	1471	70811	930	22534	1006	1319	1194	170772
30	5691	54477	4437	141514	1007	71818	1390	23924	1025	2344	1248	172020
31	1916	56393	3196	144710	1328	73146	1415	25339	1159	3503	1077	173097
AUG 1	3099	59492	4245	148955	1709	74855	416	25755	1275	4778	1274	174371
2	5167	64659	5183	154138	1382	76237	818	26573	1015	5793	1467	175838
3	3628	68287	7505	161643	707	76944	831	27404	934	6727	1496	177334
4	2275	70562	7653	169296	303	77247	313	27717	831	7558	1259	178593
5	1405	71967	4025	173321	827	78074	502	28219	744	8302	1164	179757
6	682	72649	2367	175688	709	78783	345	28564	982	9284	831	180588
7	975	73624	4078	179766	766	79549	230	28794	963	10247	843	181431
8	603	74227	2919	182685	759	80308	496	29290	1177	11424	663	182094
9	1397	75624	2863	185548	1243	81551	438	29728	999	12423	820	182914
10	1543	77167	4294	189842	957	82508	421	30149	1024	13447	1251	184165
11	1188	78355	2417	192259	1736	84244	356	30505	396	13843	1644	185809
12	771	79126	1599	193858	1166	85410	335	30840	69	13912	1807	187616
13	1379	80505	1556	195414	1444	86854	865	31705	90	14002	1914	189530
14	2662	83167	1720	197134	2814	89668	1109	32814	565	14567	1274	190804
15	1864	85031	1572	198706	3150	92818	1158	33972	1701	16268	1934	192738
16	2410	87441	2293	200999	2985	95803	2160	36132	1465	17733	1850	194588
17	3090	90531	1859	202858	3460	99263	1780	37912	2210	19943	1850	196438
18	3037	93568	1670	204528	3235	102498	1104	39016	2310	22253	1966	198404
19	2517	96085	1361	205889	2622	105120	1864	40880	5706	27959	2217	200621
20	1495	97580	2371	208260	4975	110095	1182	42062	7694	35653	1890	202511
21	2803	100383	2004	210264	6915	117010	1502	43564	7758	43411	1971	204482

TABLE 1.2 CONT MEZIADIN FISHWAY SOCKEYE COUNTS 1972 TO 1977

	1972		1973		1974		1975		1976		1977	
DATE	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
22	3534	103917	1653	211917	5403	122413	746	44310	6325	49736	1963	206445
23	3552	107469	8244	220161	4203	126616	520	44830	4910	54646	1148	207593
24	3576	111045	2470	222631	7500	134116	806	45636	9028	63674	1286	208879
25	1783	112828	2527	225158	5050	139166	1493	47129	7900	71574	3095	211974
26	1155	113983	1652	226810	5300	144466	848	47977	6870	78444	4697	216671
27	1154	115137	1001	227811	3006	147472	1191	49168	6465	84909	5017	221688
28	1550	116687	1024	228835	2800	150272	1662	50830	3629	88538	3570	225258
29	1906	118593	1240	230075	3227	153499	563	51393	2508	91046	2915	228173
30	1219	119812	967	231042	2531	156030	455	51848	3014	94060	3201	231374
31	1830	121642	653	231695	2344	158374	715	52563	2133	96193	2946	234320
SEPT 1	1324	122966	509	232204	3322	161696	757	53320	1508	97701	2199	236519
2	1083	124049	635	232839	1353	163049	496	53816	1010	98711	1388	237907
3	1388	125437	379	233218	474	163523	269	54085	1082	99793	1152	239059
4	1374	126811	439	233657	709	164232	10	54095	525	100318	1402	240461
5	1187	127998	453	234110	529	164761			561	100879	768	241229
6	691	128689	310	234420	302	165063			260	101139	455	241684
7	379	129068	135	234555	196	165259			260	101399	316	242000
8	267	129335	60	234615					277	101676	267	242267
9	190	129525	12	234627					182	101858	24	242291
10									132	101990	32	242323
11									61	102051	28	242351
12									31	102082		
13									35	102117		
14									161	102278		
15									56	102334		
16									48	102382		
17									3	102385		
18									16	102401		
19									29	102430		
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
OCT 1												
2												
(3)												

TABLE I.3 MEZIADIN FISHWAY SOCKEYE COUNTS 1978 TO 1983

	1978		1979		1980		1981		1982		1983	
DATE	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
JUNE 29					2	2			1	1		
30					15	17			0	1		
JULY 1	8000	8000	1	1	56	73			0	1		
2	4355	12355	11	12	97	170			4	5		
3	7867	20222	42	54	184	354			0	5		
4	8324	28546	29	83	296	650			0	5		
5	8866	37412	13	96	322	972			4	9	1	1
6	3834	41246	71	167	152	1124	240	240	7	16	19	20
7	4209	45455	166	333	52	1176	793	1033	13	29	230	250
8	3776	49231	121	454	284	1460	1585	2618	81	110	221	471
9	1311	50542	273	727	816	2276	8001	10619	363	473	889	1360
10	1773	52315	376	1103	2937	5213	13117	23736	938	1411	2335	3695
11	1095	53410	306	1409	7746	12959	8356	32092	4290	5701	8433	12128
12	1118	54528	191	1600	9066	22025	3513	35605	13406	19107	10596	22724
13	413	54941	522	2122	6998	29023	841	36446	20283	39390	12146	34870
14	921	55862	976	3098	3063	32086	407	36853	10677	50067	6465	41335
15	1690	57552	5702	8800	2660	34746	452	37305	1705	51772	6108	47443
16	1387	58939	6175	14975	758	35504	512	37817	9157	60929	7043	54486
17	1985	60924	1485	16460	928	36432	1008	38825	11367	72296	6568	61054
18	2171	63095	4736	21196	2262	38694	969	39794	16704	89000	5409	66463
19	1876	64971	3419	24615	4463	43157	897	40691	12381	101381	3587	70050
20	2415	67386	2840	27455	2285	45442	622	41313	11191	112572	3580	73630
21	2182	69568	2053	29508	1880	47322	1211	42524	7485	120057	4471	78101
22	911	70479	1868	31376	2853	50175	2631	45155	3834	123891	3552	81653
23	1658	72137	3102	34478	1088	51263	2882	48037	3294	127185	2836	84489
24	707	72844	4134	38612	524	51787	3771	51808	2453	129638	3826	88315
25	1380	74224	3827	42439	1511	53298	4656	56464	549	130187	2586	90901
26	1299	75523	3214	45653	659	53957	1299	57763	3815	134002	3292	94193
27	1487	77010	3880	49533	568	54525	1788	59551	990	134992	1972	96165
28	791	77801	3190	52723	1266	55791	1477	61028	2943	137935	1192	97357
29	1088	78889	1931	54654	1029	56820	2345	63373	1313	139248	1956	99313
30	985	79874	2668	57322	760	57580	2197	65570	867	140115	3863	103176
31	834	80708	3245	60567	559	58139	2215	67785	989	141104	3552	106728
AUG 1	845	81553	2992	63559	205	58344	2812	70597	509	141613	1500	108228
2	884	82437	2437	65996	85	58429	7192	77789	302	141915	2273	110501
3	579	83016	2292	68288	115	58544	6763	84552	527	142442	2149	112650
4	579	83595	3282	71570	161	58705	3584	88136	713	143155	3280	115930
5	497	84092	2502	74072	416	59121	2816	90952	806	143961	6197	122127
6	1232	85324	4292	78364	2442	61563	842	91794	1715	145676	3266	125393
7	879	86203	1471	79835	2316	63879	1169	92963	1435	147111	3348	128741
8	440	86643	3623	83458	3419	67298	2380	95343	4270	151381	2743	131484
9	439	87082	2599	86057	1847	69145	3835	99178	2545	153926	2640	134124
10	492	87574	5176	91233	1022	70167	5213	104391	3127	157053	1733	135857
11	528	88102	5483	96716	970	71137	5809	110200	2561	159614	2103	137960
12	968	89070	5121	101837	634	71771	6426	116626	7435	167049	1836	139796
13	1530	90600	4755	106592	596	72367	7095	123721	8489	175538	1782	141578
14	1316	91916	4325	110917	564	72931	8893	132614	6285	181823	1654	143232
15	1527	93443	8375	119292	1020	73951	6657	139271	8225	190048	1414	144646
16	1485	94928	4955	124247	949	74900	7907	147178	3013	193061	1829	146475
17	1230	96158	3077	127324	659	75559	7985	155163	6984	200045	1240	147715
18	1094	97252	6000	133324	522	76081	7790	162953	5058	205103	1523	149238
19	1672	98924	4725	138049	1501	77582	6876	169829	3020	208123	833	150071
20	1119	100043	3225	141274	2207	79789	6229	176058	2958	211081	801	150872
21	982	101025	1700	142974	3188	82977	6616	182674	3683	214764	1620	152492

TABLE 1.3 CONT. NEZIADIN FISHWAY SOCKEYE COUNTS 1978 TO 1983

	1978		1979		1980		1981		1982		1983	
DATE	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
22	904	101929	1930	144904	4663	87640	3844	186518	4709	219473	1929	154421
23	847	102776	3055	147959	4001	91641	2233	188751	4765	224238	1279	155700
24	1045	103821	2779	150738	4305	95946	2928	191679	3179	227417	1489	157189
25	925	104746	2576	153314	5464	101410	5232	196911	2058	229475	1187	158376
26	1018	105764	2489	155803	4957	106367	1549	198460	1378	230853	1070	159446
27	681	106445	2010	157813	6940	113307	282	198742	627	231480	818	160264
28	714	107159	1467	159280	6579	119886	429	199171	1189	232669	621	160885
29	652	107811	2350	161630	5176	125062	502	199673	1784	234453	784	161669
30	480	108291	2525	164155	3180	128242	2596	202269	2239	236692	633	162302
31	477	108768	3050	167205	2768	131010	2258	204527	1280	237972	1395	163697
SEPT 1	745	109513	3000	170205	2162	133172	2275	206802	1160	239132	1048	164745
2	467	109980	2812	173017	1614	134786	1874	208676	1233	240365	697	165442
3	299	110279	1470	174487	1569	136355	753	209429	281	240646	858	166300
4	347	110626	575	175062	886	137241	1138	210567	201	240847	430	166730
5	134	110760	1400	176462	503	137744	1293	211860	546	241393	323	167053
6	258	111018	2040	178502	290	138034	1436	213296	676	242069	410	167463
7			1700	180202	185	138219	434	213730	561	242630	134	167597
8			2498	182700	412	138631	116	213846	94	242724		
9			1818	184518	413	139044	247	214093	463	243187		
10			1519	186037	253	139297	28	214121	332	243519		
11			1420	187457			22	214143	566	244085		
12			1653	189110			5	214148	401	244486		
13			1700	190810			23	214171				
14			1250	192060			22	214193				
15			770	192830			64	214257				
16			226	193056								
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
OCT 1												
2												

TABLE I.4 MEZIADIN FISHWAY SOCKEYE COUNTS 1984 TO 1986

DATE	1984 DAILY	1984 CUM	1985 DAILY	1985 CUM	1986 DAILY	1986 CUM
JUNE 29						
30						
JULY 1						
2						
3						
4	2	2	2	2		
5	22	24	0	2		
6	6	30	4	6		
7	20	50	0	6	1	1
8	11	61	0	6	1	2
9	29	90	1	7	5	7
10	62	152	2	9	3	10
11	554	706	0	9	1	11
12	413	1119	4	13	11	22
13	421	1540	2	15	12	34
14	926	2466	5	20	10	44
15	3059	5525	4	24	17	61
16	8601	14126	2	26	9	70
17	3347	17473	43	69	45	115
18	1219	18692	49	118	23	138
19	1742	20434	99	217	81	219
20	6543	26977	50	267	91	310
21	8338	35315	267	534	381	691
22	10481	45796	226	760	167	858
23	8525	54321	467	1227	502	1360
24	4725	59046	1473	2700	894	2254
25	3092	62138	980	3680	1075	3329
26	2872	65010	5734	9414	5817	9146
27	1053	66063	17735	27149	9037	18183
28	440	66503	19338	46487	21299	39482
29	922	67425	36976	83463	18975	58457
30	1576	69001	32708	116171	1605	60062
31	3603	72604	13282	129453	929	60991
AUG 1	1460	74064	6404	135857	866	61857
2	1027	75091	9429	145286	943	62800
3	3913	79004	5194	150480	1012	63812
4	1845	80849	5826	156306	1615	65427
5	1104	81953	5709	162015	985	66412
6	1543	83496	6439	168454	1635	68047
7	496	83992	4308	172762	2015	70062
8	548	84540	4145	176907	580	70642
9	448	84988	3129	180036	971	71613
10	187	85175	2055	182091	750	72363
11	477	85652	4372	186463	977	73340
12	960	86612	3342	189805	282	73622
13	3211	89823	2909	192714	1023	74645
14	2141	91964	4022	196736	1014	75659
15	2045	94009	2114	198850	745	76404
16	3918	97927	1316	200166	1052	77456
17	3349	101276	3902	204068	1083	78539
18	2600	103876	3623	207691	151	78690
19	1004	104880	3903	211594	1904	80594
20	1341	106221	4007	215601	1710	82304
21	2738	108959	2849	218450	2508	84812

TABLE I.4 CONT. MEZIADIN FISHWAY SOCKEYE COUNTS 1984 TO 1986

	1984		1985		1986	
DATE	DAILY	CUM	DAILY	CUM	DAILY	CUM
22	4547	113506	5142	223592	1378	86190
23	5110	118616	4001	227593	1440	87630
24	4203	122819	5761	233354	1038	88668
25	3566	126385	3050	236404	737	89405
26	2228	128613	3815	240219	1389	90794
27	711	129324	6153	246372	2294	93088
28	808	130132	5545	251917	2592	95680
29	986	131118	5788	257705	1247	96927
30	1302	132420	5434	263139	2502	99429
31	1352	133772	6057	269196	1894	101323
SEPT 1	1424	135196	3682	272878	2462	103785
2	1069	136265	3213	276091	2120	105905
3	928	137193	1062	277153	1287	107192
4	847	138040	1900	279053	802	107994
5	439	138479	1883	280936	899	108893
6	374	138853	965	281901	980	109873
7	350	139203	578	282479	979	110852
8	125	139328	382	282861	924	111776
9			518	283379	794	112570
10			565	283944	660	113230
11			359	284303	333	113563
12			399	284702	150	113713
13			557	285259	215	113928
14			686	285945	284	114212
15			818	286763	234	114446
16			341	287104	180	114626
17			174	287278	163	114789
18			135	287413	163	114952
19			168	287581	50	115002
20			156	287737	70	115072
21			171	287908	55	115127
22			78	287986	89	115216
23			123	288109	144	115360
24			70	288179	63	115423
25			100	288279	20	115443
26			130	288409		
27			75	288484		
28			79	288563		
29			27	288590		
30			35	288625		
OCT 1			23	288648		
2			15	288663		

TABLE 1.5 PERCENTAGE OF ESCAPEMENT THROUGH MEZIADIN FISHWAY BY DAY

DATE	1966 DAILY PERCENT	1966 CUM PERCENT	1967 DAILY PERCENT	1967 CUM PERCENT	1968 DAILY PERCENT	1968 CUM PERCENT	1969 DAILY PERCENT	1969 CUM PERCENT	1970 DAILY PERCENT	1970 CUM PERCENT	1971 DAILY PERCENT	1971 CUM PERCENT
JUNE 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
JULY 1	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.02	0.03	0.06	0.06	0.00	0.00	0.00	0.00
4	0.01	0.01	0.00	0.00	0.02	0.05	0.38	0.45	0.00	0.01	0.00	0.00
5	0.05	0.06	0.00	0.00	0.00	0.06	1.06	1.50	0.01	0.01	0.00	0.00
6	0.11	0.17	0.00	0.00	0.01	0.06	3.94	5.45	0.01	0.02	0.01	0.01
7	0.11	0.29	0.00	0.00	0.00	0.07	14.20	19.65	0.01	0.02	0.02	0.03
8	0.13	0.41	0.02	0.02	0.01	0.08	7.64	27.29	0.01	0.04	0.02	0.05
9	0.03	0.45	0.03	0.06	0.00	0.08	3.56	30.85	0.02	0.06	0.03	0.08
10	0.07	0.51	0.11	0.16	0.00	0.08	0.72	31.57	0.01	0.07	0.04	0.12
11	0.12	0.63	0.07	0.24	0.01	0.09	0.07	31.64	0.01	0.08	0.07	0.19
12	0.25	0.88	0.15	0.38	0.03	0.12	0.16	31.80	0.48	0.56	0.13	0.31
13	0.15	1.03	0.33	0.72	0.03	0.15	0.64	32.44	3.73	4.29	0.23	0.54
14	0.37	1.40	0.40	1.12	0.02	0.17	1.23	33.67	14.33	18.62	0.88	1.42
15	0.31	1.71	0.34	1.46	0.01	0.18	1.77	35.43	14.27	32.89	0.99	2.41
16	0.27	1.98	1.04	2.50	0.32	0.50	1.68	37.11	4.39	37.28	2.30	4.72
17	0.40	2.38	0.54	3.04	0.46	0.96	1.55	38.66	3.95	41.23	6.38	11.09
18	0.32	2.70	1.56	4.61	1.44	2.40	1.90	40.55	3.42	44.65	7.60	18.69
19	0.27	2.97	1.12	5.73	6.37	8.78	1.83	42.39	2.08	46.73	1.71	20.41
20	0.84	3.81	0.71	6.44	7.01	15.79	1.11	43.50	0.35	47.08	1.73	22.13
21	1.58	5.39	0.34	6.78	6.41	22.19	0.84	44.35	0.49	47.56	1.60	23.74
22	2.14	7.53	0.24	7.02	1.61	23.81	1.44	45.78	1.36	48.92	1.25	24.98
23	1.86	9.39	0.20	7.22	2.33	26.13	1.25	47.03	1.97	50.89	1.17	26.16
24	1.45	10.85	0.33	7.55	3.30	29.43	0.81	47.84	1.83	52.71	1.08	27.23
25	1.31	12.16	0.33	7.88	3.60	33.03	0.48	48.33	1.60	54.31	1.17	28.40
26	1.60	13.76	1.60	9.48	4.45	37.48	0.51	48.84	1.40	55.72	1.44	29.84
27	1.46	15.22	2.90	12.38	2.31	39.79	0.17	49.01	0.43	56.34	1.22	31.06
28	2.84	18.06	0.74	13.13	1.27	41.06	0.28	49.29	0.31	56.65	0.91	31.97
29	2.85	20.91	0.34	13.47	1.09	42.15	0.43	49.71	0.43	57.08	0.60	32.57
30	2.53	23.44	0.05	13.52	1.03	43.17	0.87	50.59	0.54	57.62	0.54	33.10
31	3.48	26.92	0.45	13.97	1.74	44.92	0.90	51.48	0.73	58.34	0.28	33.39
AUG 1	3.69	30.61	1.03	15.00	1.66	46.57	0.80	52.29	0.65	59.00	0.96	34.35
2	3.00	33.61	1.58	16.58	1.27	47.85	0.85	53.14	0.62	59.61	0.77	35.12
3	1.68	35.29	4.08	20.66	1.15	49.00	1.03	54.17	0.23	59.85	0.20	35.31
4	3.92	39.21	5.08	25.74	0.62	49.62	0.57	54.75	0.25	60.09	0.44	35.76
5	5.23	44.44	4.41	30.15	2.67	52.29	1.23	55.98	0.15	60.25	0.82	36.58
6	3.90	48.34	2.32	32.47	1.69	53.99	1.77	57.75	0.45	60.69	0.94	37.52
7	3.63	51.97	2.61	35.08	3.46	57.45	0.84	58.59	0.24	60.93	1.29	38.81
8	3.84	55.81	4.94	40.02	3.48	60.93	0.23	58.82	0.27	61.20	1.11	39.92
9	2.92	58.73	7.06	47.07	3.35	64.28	0.47	59.28	0.23	61.43	1.53	41.45
10	1.24	59.97	1.40	48.48	3.21	67.49	0.14	59.43	0.26	61.69	1.61	43.06
11	1.54	61.51	1.13	49.60	4.49	71.98	0.11	59.53	0.40	62.10	1.68	44.74
12	3.93	65.44	0.38	49.99	4.45	76.43	0.27	59.80	0.47	62.57	1.35	46.09
13	3.70	69.14	0.70	50.68	2.81	79.24	0.82	60.62	0.17	62.74	1.30	47.39
14	3.76	72.90	1.14	51.83	2.49	81.73	0.93	61.55	0.20	62.94	1.89	49.28
15	2.17	75.06	2.09	53.92	3.80	85.53	0.35	61.90	0.60	63.54	1.60	50.88
16	2.48	77.55	3.11	57.03	2.54	88.07	0.06	61.97	0.19	63.73	2.34	53.22
17	1.65	79.20	3.92	60.95	2.15	90.23	0.24	62.21	0.19	63.91	2.93	56.15
18	1.54	80.74	2.63	63.58	2.04	92.27	0.52	62.72	0.52	64.43	2.97	59.13
19	2.83	83.56	3.65	67.23	1.51	93.79	0.54	63.26	1.06	65.49	2.88	62.01
20	2.77	86.33	1.78	69.00	1.19	94.98	0.56	63.82	1.13	66.63	0.56	62.57
21	2.69	89.03	1.08	70.08	1.57	96.55	1.58	65.41	2.57	69.20	0.12	62.69

TABLE 1.5 CONT. PERCENTAGE OF ESCAPEMENT THROUGH MEZIADIN FISHWAY BY DAY

DATE	1966 DAILY PERCENT	1966 CUM PERCENT	1967 DAILY PERCENT	1967 CUM PERCENT	1968 DAILY PERCENT	1968 CUM PERCENT	1969 DAILY PERCENT	1969 CUM PERCENT	1970 DAILY PERCENT	1970 CUM PERCENT	1971 DAILY PERCENT	1971 CUM PERCENT
22	2.46	91.49	1.14	71.22	1.37	97.92	1.17	66.57	3.19	72.39	0.11	62.80
23	2.11	93.59	2.26	73.48	0.83	98.74	0.97	67.54	3.78	76.17	0.48	63.29
24	2.37	95.97	3.76	77.24	0.46	99.20	1.36	68.90	5.32	81.48	0.42	63.71
25	1.48	97.44	2.05	79.30	0.19	99.39	3.70	72.60	4.66	86.15	0.37	64.07
26	0.81	98.25	2.22	81.52	0.24	99.63	5.28	77.89	4.42	90.57	1.30	65.37
27	0.97	99.22	0.78	82.30	0.37	100.00	4.74	82.62	3.61	94.18	2.99	68.37
28	0.32	99.54	0.30	82.60	0.00	100.00	4.45	87.07	1.74	95.92	2.82	71.19
29	0.32	99.86	0.82	83.42	0.00	100.00	4.45	91.52	1.73	97.65	3.08	74.27
30	0.14	100.00	1.45	84.88	0.00	100.00	2.49	94.01	0.55	98.19	3.84	78.11
31	0.00	100.00	1.47	86.35	0.00	100.00	1.58	95.59	0.29	98.48	5.43	83.54
SEPT 1	0.00	100.00	1.42	87.77	0.00	100.00	1.17	96.77	0.43	98.92	3.69	87.23
2	0.00	100.00	0.67	88.43	0.00	100.00	0.49	97.26	0.40	99.31	1.07	88.30
3	0.00	100.00	0.67	89.10	0.00	100.00	0.26	97.52	0.30	99.62	0.97	89.27
4	0.00	100.00	0.41	89.51	0.00	100.00	0.25	97.77	0.22	99.84	0.87	90.13
5	0.00	100.00	0.40	89.92	0.00	100.00	0.57	98.34	0.05	99.90	0.61	90.75
6	0.00	100.00	0.95	90.87	0.00	100.00	0.46	98.81	0.06	99.96	0.87	91.61
7	0.00	100.00	1.89	92.76	0.00	100.00	0.32	99.13	0.04	100.00	1.82	93.43
8	0.00	100.00	1.16	93.92	0.00	100.00	0.27	99.40	0.00	100.00	1.82	95.25
9	0.00	100.00	0.68	94.59	0.00	100.00	0.27	99.68	0.00	100.00	1.51	96.75
10	0.00	100.00	0.81	95.40	0.00	100.00	0.22	99.90	0.00	100.00	0.62	97.37
11	0.00	100.00	1.59	96.99	0.00	100.00	0.06	99.95	0.00	100.00	0.68	98.05
12	0.00	100.00	0.47	97.46	0.00	100.00	0.00	99.95	0.00	100.00	0.70	98.76
13	0.00	100.00	1.33	98.79	0.00	100.00	0.02	99.98	0.00	100.00	0.56	99.32
14	0.00	100.00	0.47	99.26	0.00	100.00	0.02	100.00	0.00	100.00	0.35	99.67
15	0.00	100.00	0.41	99.67	0.00	100.00	0.00	100.00	0.00	100.00	0.33	100.00
16	0.00	100.00	0.21	99.88	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
17	0.00	100.00	0.12	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
18	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
19	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
20	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
21	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
22	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
23	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
24	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
25	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
26	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
27	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
28	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
29	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
30	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
OCT 1	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
2	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00

TABLE I.6 PERCENTAGE OF ESCAPENENT THROUGH MEZIADIN FISHWAY BY DAY

DATE	1972 DAILY PERCENT	1972 CUM PERCENT	1973 DAILY PERCENT	1973 CUM PERCENT	1974 DAILY PERCENT	1974 CUM PERCENT	1975 DAILY PERCENT	1975 CUM PERCENT	1976 DAILY PERCENT	1976 CUM PERCENT	1977 DAILY PERCENT	1977 CUM PERCENT
JUNE 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
30	0.00	0.00	0.00	0.00	0.40	0.40	0.00	0.00	0.00	0.00	0.01	0.02
JULY 1	0.00	0.00	0.00	0.00	2.70	3.10	0.00	0.00	0.00	0.00	0.07	0.09
2	0.00	0.00	0.00	0.00	3.77	6.87	0.00	0.00	0.00	0.00	0.13	0.22
3	0.00	0.00	0.00	0.00	3.26	10.13	0.00	0.00	0.00	0.00	0.30	0.51
4	0.00	0.00	0.00	0.00	3.47	13.60	0.00	0.00	0.00	0.00	3.30	3.81
5	0.00	0.00	0.00	0.01	2.72	16.32	0.00	0.00	0.00	0.00	12.17	15.98
6	0.01	0.01	0.00	0.01	0.83	17.15	0.00	0.00	0.00	0.00	13.91	29.89
7	0.01	0.02	0.01	0.02	0.52	17.67	0.00	0.00	0.00	0.00	12.27	42.16
8	0.00	0.02	0.03	0.06	0.56	18.23	0.00	0.00	0.00	0.00	5.58	47.74
9	0.00	0.02	0.11	0.17	0.47	18.71	0.00	0.00	0.00	0.00	1.50	49.24
10	0.02	0.04	0.31	0.48	0.34	19.05	0.00	0.00	0.00	0.00	0.98	50.22
11	0.02	0.06	1.58	2.06	0.32	19.38	0.00	0.00	0.00	0.00	0.47	50.68
12	0.04	0.11	8.91	10.97	1.16	20.54	0.00	0.00	0.00	0.00	0.81	51.49
13	0.09	0.20	12.50	23.47	2.08	22.62	0.00	0.00	0.00	0.00	0.84	52.33
14	0.05	0.25	6.76	30.23	1.69	24.31	0.00	0.00	0.00	0.00	0.69	53.02
15	0.16	0.40	1.67	31.90	0.88	25.19	0.00	0.00	0.00	0.00	0.63	53.65
16	0.27	0.67	2.64	34.55	0.75	25.94	0.02	0.03	0.00	0.00	0.86	54.51
17	0.63	1.30	3.09	37.64	1.84	27.78	0.06	0.08	0.00	0.00	0.50	55.01
18	0.71	2.01	1.64	39.27	1.79	29.57	0.06	0.15	0.00	0.00	0.52	55.52
19	0.87	2.88	0.96	40.23	3.18	32.75	0.06	0.21	0.00	0.00	1.27	56.80
20	0.78	3.66	0.48	40.71	2.42	35.17	0.08	0.28	0.00	0.00	1.36	58.16
21	1.29	4.95	0.40	41.10	1.63	36.80	1.72	2.00	0.00	0.00	2.31	60.47
22	3.51	8.45	0.19	41.29	1.57	38.37	6.33	8.33	0.00	0.00	2.28	62.75
23	4.22	12.67	0.99	42.28	0.95	39.32	4.83	13.16	0.00	0.01	2.02	64.77
24	3.25	15.91	1.15	43.43	0.52	39.85	5.90	19.06	0.00	0.01	1.84	66.61
25	2.34	18.25	2.02	45.45	0.31	40.15	12.67	31.73	0.01	0.02	1.45	68.06
26	4.07	22.32	3.41	48.86	0.49	40.64	5.70	37.42	0.03	0.05	1.05	69.10
27	3.71	26.03	3.84	52.70	0.58	41.23	1.33	38.76	0.07	0.12	0.49	69.59
28	5.03	31.06	2.80	55.50	0.73	41.96	1.18	39.94	0.18	0.31	0.38	69.97
29	6.61	37.67	2.92	58.42	0.89	42.85	1.72	41.66	0.98	1.29	0.49	70.46
30	4.39	42.06	1.89	60.31	0.61	43.46	2.57	44.23	1.00	2.29	0.51	70.98
31	1.48	43.54	1.36	61.68	0.80	44.26	2.62	46.84	1.13	3.42	0.44	71.42
AUG 1	2.39	45.93	1.81	63.49	1.03	45.30	0.77	47.61	1.24	4.66	0.53	71.95
2	3.99	49.92	2.21	65.69	0.84	46.13	1.51	49.12	0.99	5.66	0.61	72.56
3	2.80	52.72	3.20	68.89	0.43	46.56	1.54	50.66	0.91	6.57	0.62	73.17
4	1.76	54.48	3.26	72.16	0.18	46.74	0.58	51.24	0.81	7.38	0.52	73.69
5	1.08	55.56	1.72	73.87	0.50	47.24	0.93	52.17	0.73	8.11	0.48	74.17
6	0.53	56.09	1.01	74.88	0.43	47.67	0.64	52.80	0.96	9.06	0.34	74.52
7	0.75	56.84	1.74	76.62	0.46	48.14	0.43	53.23	0.94	10.00	0.35	74.86
8	0.47	57.31	1.24	77.86	0.46	48.60	0.92	54.15	1.15	11.15	0.27	75.14
9	1.08	58.39	1.22	79.08	0.75	49.35	0.81	54.96	0.98	12.13	0.34	75.47
10	1.19	59.58	1.83	80.91	0.58	49.93	0.78	55.73	1.00	13.13	0.52	75.99
11	0.92	60.49	1.03	81.94	1.05	50.98	0.66	56.39	0.39	13.51	0.68	76.67
12	0.60	61.09	0.68	82.62	0.71	51.68	0.62	57.01	0.07	13.58	0.75	77.41
13	1.06	62.15	0.66	83.29	0.87	52.56	1.60	58.61	0.09	13.67	0.79	78.20
14	2.06	64.21	0.73	84.02	1.70	54.26	2.05	60.66	0.55	14.22	0.53	78.73
15	1.44	65.65	0.67	84.69	1.91	56.17	2.14	62.80	1.66	15.88	0.80	79.53
16	1.86	67.51	0.98	85.67	1.81	57.97	3.99	66.79	1.43	17.31	0.76	80.29
17	2.39	69.89	0.79	86.46	2.09	60.07	3.29	70.08	2.16	19.47	0.76	81.06
18	2.34	72.24	0.71	87.17	1.96	62.02	2.04	72.12	2.26	21.73	0.81	81.87
19	1.94	74.18	0.58	87.75	1.59	63.61	3.45	75.57	5.57	27.30	0.91	82.78
20	1.15	75.34	1.01	88.76	3.01	66.62	2.19	77.76	7.51	34.81	0.78	83.56
21	2.16	77.50	0.85	89.62	4.18	70.80	2.78	80.53	7.57	42.38	0.81	84.37

TABLE I.6 CONT. PERCENTAGE OF ESCAPEMENT THROUGH MEZIADIN FISHWAY BY DAY

DATE	1972 DAILY PERCENT	1972 CUM PERCENT	1973 DAILY PERCENT	1973 CUM PERCENT	1974 DAILY PERCENT	1974 CUM PERCENT	1975 DAILY PERCENT	1975 CUM PERCENT	1976 DAILY PERCENT	1976 CUM PERCENT	1977 DAILY PERCENT	1977 CUM PERCENT
22	2.73	80.23	0.70	90.32	3.27	74.07	1.38	81.91	6.17	48.56	0.81	85.18
23	2.74	82.97	3.51	93.83	2.54	76.62	0.96	82.87	4.79	53.35	0.47	85.66
24	2.76	85.73	1.05	94.89	4.54	81.16	1.49	84.36	8.81	62.16	0.53	86.19
25	1.38	87.11	1.08	95.96	3.06	84.21	2.76	87.12	7.71	69.88	1.28	87.47
26	0.89	88.00	0.70	96.67	3.21	87.42	1.57	88.69	6.71	76.58	1.94	89.40
27	0.89	88.89	0.43	97.09	1.82	89.24	2.20	90.89	6.31	82.89	2.07	91.47
28	1.20	90.09	0.44	97.53	1.69	90.93	3.07	93.96	3.54	86.44	1.47	92.95
29	1.47	91.56	0.53	98.06	1.95	92.88	1.04	95.01	2.45	88.89	1.20	94.15
30	0.94	92.50	0.41	98.47	1.53	94.42	0.84	95.85	2.94	91.83	1.32	95.47
31	1.41	93.91	0.28	98.75	1.42	95.83	1.32	97.17	2.08	93.91	1.22	96.69
SEPT 1	1.02	94.94	0.22	98.97	2.01	97.84	1.40	98.57	1.47	95.38	0.91	97.59
2	0.84	95.77	0.27	99.24	0.82	98.66	0.92	99.48	0.99	96.37	0.57	98.17
3	1.07	96.84	0.16	99.40	0.29	98.95	0.50	99.98	1.06	97.43	0.48	98.64
4	1.06	97.90	0.19	99.59	0.43	99.38	0.02	100.00	0.51	97.94	0.58	99.22
5	0.92	98.82	0.19	99.78	0.32	99.70	0.00	100.00	0.55	98.49	0.32	99.54
6	0.53	99.35	0.13	99.91	0.18	99.88	0.00	100.00	0.25	98.74	0.19	99.72
7	0.29	99.65	0.06	99.97	0.12	100.00	0.00	100.00	0.25	98.99	0.13	99.86
8	0.21	99.85	0.03	99.99	0.00	100.00	0.00	100.00	0.27	99.26	0.11	99.97
9	0.15	100.00	0.01	100.00	0.00	100.00	0.00	100.00	0.18	99.44	0.01	99.98
10	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.13	99.57	0.01	99.99
11	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.06	99.63	0.01	100.00
12	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.03	99.66	0.00	100.00
13	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.03	99.69	0.00	100.00
14	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.16	99.85	0.00	100.00
15	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.05	99.91	0.00	100.00
16	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.05	99.95	0.00	100.00
17	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	99.96	0.00	100.00
18	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.02	99.97	0.00	100.00
19	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.03	100.00	0.00	100.00
20	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
21	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
22	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
23	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
24	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
25	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
26	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
27	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
28	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
29	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
30	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
OCT 1	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
2	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00

TABLE I.7 PERCENTAGE OF ESCAPEMENT THROUGH MEZIADIN FISHWAY BY DAY

DATE	1978 DAILY PERCENT	1978 CUM PERCENT	1979 DAILY PERCENT	1979 CUM PERCENT	1980 DAILY PERCENT	1980 CUM PERCENT	1981 DAILY PERCENT	1981 CUM PERCENT	1982 DAILY PERCENT	1982 CUM PERCENT	1983 DAILY PERCENT	1983 CUM PERCENT
JUNE 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
JULY 1	7.21	7.21	0.00	0.00	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00
2	3.92	11.13	0.01	0.01	0.07	0.12	0.00	0.00	0.00	0.00	0.00	0.00
3	7.09	18.22	0.02	0.03	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00
4	7.50	25.71	0.02	0.04	0.21	0.47	0.00	0.00	0.00	0.00	0.00	0.00
5	7.99	33.70	0.01	0.05	0.23	0.70	0.00	0.00	0.00	0.00	0.00	0.00
6	3.45	37.15	0.04	0.09	0.11	0.81	0.11	0.11	0.00	0.01	0.01	0.01
7	3.79	40.94	0.09	0.17	0.04	0.84	0.37	0.48	0.01	0.01	0.14	0.15
8	3.40	44.35	0.06	0.24	0.20	1.05	0.74	1.22	0.03	0.04	0.13	0.28
9	1.18	45.53	0.14	0.38	0.59	1.63	3.73	4.96	0.15	0.19	0.53	0.81
10	1.60	47.12	0.19	0.57	2.11	3.74	6.12	11.08	0.38	0.58	1.39	2.20
11	0.99	48.11	0.16	0.73	5.56	9.30	3.90	14.98	1.75	2.33	5.03	7.24
12	1.01	49.12	0.10	0.83	6.51	15.81	1.64	16.62	5.48	7.81	6.32	13.56
13	0.37	49.49	0.27	1.10	5.02	20.83	0.39	17.01	8.30	16.11	7.25	20.81
14	0.83	50.32	0.51	1.60	2.20	23.03	0.19	17.20	4.37	20.48	3.86	24.66
15	1.52	51.84	2.95	4.56	1.91	24.94	0.21	17.41	0.70	21.18	3.64	28.31
16	1.25	53.09	3.20	7.76	0.54	25.49	0.24	17.65	3.75	24.92	4.20	32.51
17	1.79	54.88	0.77	8.53	0.67	26.15	0.47	18.12	4.65	29.57	3.92	36.43
18	1.96	56.83	2.45	10.98	1.62	27.78	0.45	18.57	6.83	36.40	3.23	39.66
19	1.69	58.52	1.77	12.75	3.20	30.98	0.42	18.99	5.06	41.47	2.14	41.80
20	2.18	60.70	1.47	14.22	1.64	32.62	0.29	19.28	4.58	46.04	2.14	43.93
21	1.97	62.66	1.06	15.28	1.35	33.97	0.57	19.85	3.06	49.11	2.67	46.60
22	0.82	63.48	0.97	16.25	2.05	36.02	1.23	21.08	1.57	50.67	2.12	48.72
23	1.49	64.98	1.61	17.86	0.78	36.80	1.35	22.42	1.35	52.02	1.69	50.41
24	0.64	65.61	2.14	20.00	0.38	37.18	1.76	24.18	1.00	53.02	2.28	52.69
25	1.24	66.86	1.98	21.98	1.08	38.26	2.17	26.35	0.22	53.25	1.54	54.24
26	1.17	68.03	1.66	23.65	0.47	38.73	0.61	26.96	1.56	54.81	1.96	56.20
27	1.34	69.37	2.01	25.66	0.41	39.14	0.83	27.79	0.40	55.21	1.18	57.38
28	0.71	70.08	1.65	27.31	0.91	40.05	0.69	28.48	1.20	56.42	0.71	58.09
29	0.98	71.06	1.00	28.31	0.74	40.79	1.09	29.58	0.54	56.95	1.17	59.26
30	0.89	71.95	1.38	29.69	0.55	41.33	1.03	30.60	0.35	57.31	2.30	61.56
31	0.75	72.70	1.68	31.37	0.40	41.74	1.03	31.64	0.40	57.71	2.12	63.68
AUG 1	0.76	73.46	1.55	32.92	0.15	41.88	1.31	32.95	0.21	57.92	0.90	64.58
2	0.80	74.26	1.26	34.18	0.06	41.94	3.36	36.31	0.12	58.05	1.36	65.93
3	0.52	74.78	1.19	35.37	0.08	42.03	3.16	39.46	0.22	58.26	1.28	67.21
4	0.52	75.30	1.70	37.07	0.12	42.14	1.67	41.14	0.29	58.55	1.96	69.17
5	0.45	75.75	1.30	38.37	0.30	42.44	1.31	42.45	0.33	58.88	3.70	72.87
6	1.11	76.86	2.22	40.59	1.75	44.19	0.39	42.84	0.70	59.58	1.95	74.82
7	0.79	77.65	0.76	41.35	1.66	45.86	0.55	43.39	0.59	60.17	2.00	76.82
8	0.40	78.04	1.88	43.23	2.45	48.31	1.11	44.50	1.75	61.92	1.64	78.45
9	0.40	78.44	1.35	44.58	1.33	49.64	1.79	46.29	1.04	62.96	1.58	80.03
10	0.44	78.88	2.68	47.26	0.73	50.37	2.43	48.72	1.28	64.24	1.03	81.06
11	0.48	79.36	2.84	50.10	0.70	51.07	2.71	51.43	1.05	65.29	1.25	82.32
12	0.87	80.23	2.65	52.75	0.46	51.52	3.00	54.43	3.04	68.33	1.10	83.41
13	1.38	81.61	2.46	55.21	0.43	51.95	3.31	57.74	3.47	71.80	1.06	84.48
14	1.19	82.79	2.24	57.45	0.40	52.36	4.15	61.89	2.57	74.37	0.99	85.46
15	1.38	84.17	4.34	61.79	0.73	53.09	3.11	65.00	3.36	77.73	0.84	86.31
16	1.34	85.51	2.57	64.36	0.68	53.77	3.69	68.69	1.23	78.97	1.09	87.40
17	1.11	86.61	1.59	65.95	0.47	54.24	3.73	72.42	2.86	81.82	0.74	88.14
18	0.99	87.60	3.11	69.06	0.37	54.62	3.64	76.05	2.07	83.89	0.91	89.05
19	1.51	89.11	2.45	71.51	1.08	55.69	3.21	79.26	1.24	85.13	0.50	89.54
20	1.01	90.11	1.67	73.18	1.58	57.28	2.91	82.17	1.21	86.34	0.48	90.02
21	0.88	91.00	0.88	74.06	2.29	59.57	3.09	85.26	1.51	87.84	0.97	90.99

TABLE I.7 CONT. PERCENTAGE OF ESCAPEMENT THROUGH MEZIADIN FISHWAY BY DAY

DATE	1978 DAILY PERCENT	1978 CUM PERCENT	1979 DAILY PERCENT	1979 CUM PERCENT	1980 DAILY PERCENT	1980 CUM PERCENT	1981 DAILY PERCENT	1981 CUM PERCENT	1982 DAILY PERCENT	1982 CUM PERCENT	1983 DAILY PERCENT	1983 CUM PERCENT
22	0.81	91.81	1.00	75.06	3.35	62.91	1.79	87.05	1.93	89.77	1.15	92.14
23	0.76	92.58	1.58	76.64	2.87	65.79	1.04	88.10	1.95	91.72	0.76	92.90
24	0.94	93.52	1.44	78.08	3.09	68.88	1.37	89.46	1.30	93.02	0.89	93.79
25	0.83	94.35	1.33	79.41	3.92	72.80	2.44	91.90	0.84	93.86	0.71	94.50
26	0.92	95.27	1.29	80.70	3.56	76.36	0.72	92.63	0.56	94.42	0.64	95.14
27	0.61	95.88	1.04	81.74	4.98	81.34	0.13	92.76	0.26	94.68	0.49	95.62
28	0.64	96.52	0.76	82.50	4.72	86.06	0.20	92.96	0.49	95.17	0.37	96.00
29	0.59	97.11	1.22	83.72	3.72	89.78	0.23	93.19	0.73	95.90	0.47	96.46
30	0.43	97.54	1.31	85.03	2.28	92.06	1.21	94.40	0.92	96.81	0.38	96.84
31	0.43	97.97	1.58	86.61	1.99	94.05	1.05	95.46	0.52	97.34	0.83	97.67
SEPT 1	0.67	98.64	1.55	88.16	1.55	95.60	1.06	96.52	0.47	97.81	0.63	98.30
2	0.42	99.07	1.46	89.62	1.16	96.76	0.87	97.40	0.50	98.31	0.42	98.71
3	0.27	99.33	0.76	90.38	1.13	97.89	0.35	97.75	0.11	98.43	0.51	99.23
4	0.31	99.65	0.30	90.68	0.64	98.52	0.53	98.28	0.08	98.51	0.26	99.48
5	0.12	99.77	0.73	91.40	0.36	98.88	0.60	98.88	0.22	98.73	0.19	99.68
6	0.23	100.00	1.06	92.46	0.21	99.09	0.67	99.55	0.28	99.01	0.24	99.92
7	0.00	100.00	0.88	93.34	0.13	99.22	0.20	99.75	0.23	99.24	0.08	100.00
8	0.00	100.00	1.29	94.64	0.30	99.52	0.05	99.81	0.04	99.28	0.00	100.00
9	0.00	100.00	0.94	95.58	0.30	99.82	0.12	99.92	0.19	99.47	0.00	100.00
10	0.00	100.00	0.79	96.36	0.18	100.00	0.01	99.94	0.14	99.60	0.00	100.00
11	0.00	100.00	0.74	97.10	0.00	100.00	0.01	99.95	0.23	99.84	0.00	100.00
12	0.00	100.00	0.86	97.96	0.00	100.00	0.00	99.95	0.16	100.00	0.00	100.00
13	0.00	100.00	0.88	98.84	0.00	100.00	0.01	99.96	0.00	100.00	0.00	100.00
14	0.00	100.00	0.65	99.48	0.00	100.00	0.01	99.97	0.00	100.00	0.00	100.00
15	0.00	100.00	0.40	99.88	0.00	100.00	0.03	100.00	0.00	100.00	0.00	100.00
16	0.00	100.00	0.12	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
17	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
18	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
19	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
20	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
21	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
22	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
23	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
24	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
25	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
26	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
27	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
28	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
29	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
30	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
OCT 1	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
2	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00

Table I.8. Percentage of Escapement through Meziadin Fishway.

DATE	1984 DAILY PERCENT	1984 CUM PERCENT	1985 DAILY PERCENT	1985 CUM PERCENT	1986 DAILY PERCENT	1986 CUM PERCENT
JUNE 29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
JULY 1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.02	0.02	0.00	0.00	0.00	0.00
6	0.00	0.02	0.00	0.00	0.00	0.00
7	0.01	0.04	0.00	0.00	0.00	0.00
8	0.01	0.04	0.00	0.00	0.00	0.00
9	0.02	0.06	0.00	0.00	0.00	0.01
10	0.04	0.11	0.00	0.00	0.00	0.01
11	0.40	0.51	0.00	0.00	0.00	0.01
12	0.30	0.80	0.00	0.00	0.01	0.02
13	0.30	1.11	0.00	0.01	0.01	0.03
14	0.66	1.77	0.00	0.01	0.01	0.04
15	2.20	3.97	0.00	0.01	0.01	0.05
16	6.17	10.14	0.00	0.01	0.01	0.06
17	2.40	12.54	0.01	0.02	0.04	0.10
18	0.87	13.42	0.02	0.04	0.02	0.12
19	1.25	14.67	0.03	0.08	0.07	0.19
20	4.70	19.36	0.02	0.09	0.08	0.27
21	5.98	25.35	0.09	0.18	0.33	0.60
22	7.52	32.87	0.08	0.26	0.14	0.74
23	6.12	38.99	0.16	0.43	0.43	1.18
24	3.39	42.38	0.51	0.94	0.77	1.95
25	2.22	44.60	0.34	1.27	0.93	2.88
26	2.06	46.66	1.99	3.26	5.04	7.92
27	0.76	47.42	6.14	9.41	7.83	15.75
28	0.32	47.73	6.70	16.10	18.45	34.20
29	0.66	48.39	12.81	28.91	16.44	50.64
30	1.13	49.52	11.33	40.24	1.39	52.03
31	2.59	52.11	4.60	44.85	0.80	52.83
AUG 1	1.05	53.16	2.22	47.06	0.75	53.58
2	0.74	53.90	3.27	50.33	0.82	54.40
3	2.81	56.70	1.80	52.13	0.88	55.28
4	1.32	58.03	2.02	54.15	1.40	56.67
5	0.79	58.82	1.98	56.13	0.85	57.53
6	1.11	59.93	2.23	58.36	1.42	58.94
7	0.36	60.28	1.49	59.85	1.75	60.69
8	0.39	60.68	1.44	61.28	0.50	61.19
9	0.32	61.00	1.08	62.37	0.84	62.03
10	0.13	61.13	0.71	63.08	0.65	62.68
11	0.34	61.48	1.51	64.60	0.85	63.53
12	0.69	62.16	1.16	65.75	0.24	63.77
13	2.30	64.47	1.01	66.76	0.89	64.66
14	1.54	66.01	1.39	68.15	0.88	65.54
15	1.47	67.47	0.73	68.89	0.65	66.18
16	2.81	70.29	0.46	69.34	0.91	67.09
17	2.40	72.69	1.35	70.69	0.94	68.03
18	1.87	74.56	1.26	71.95	0.13	68.16
19	0.72	75.28	1.35	73.30	1.65	69.81
20	0.96	76.24	1.39	74.69	1.48	71.29
21	1.97	78.20	0.99	75.68	2.17	73.47

Table I.8 cont'd. Percentage of Escapement through Meziadin fishway.

DATE	1984 DAILY PERCENT	1984 CUM PERCENT	1985 DAILY PERCENT	1985 CUM PERCENT	1986 DAILY PERCENT	1986 CUM PERCENT
22	3.26	81.47	1.78	77.46	1.19	74.66
23	3.67	85.13	1.39	78.84	1.25	75.91
24	3.02	88.15	2.00	80.84	0.90	76.81
25	2.56	90.71	1.06	81.90	0.64	77.45
26	1.60	92.31	1.32	83.22	1.20	78.65
27	0.51	92.82	2.13	85.35	1.99	80.64
28	0.58	93.40	1.92	87.27	2.25	82.88
29	0.71	94.11	2.01	89.28	1.08	83.96
30	0.93	95.04	1.88	91.16	2.17	86.13
31	0.97	96.01	2.10	93.26	1.64	87.77
SEPT 1	1.02	97.03	1.28	94.53	2.13	89.90
2	0.77	97.80	1.11	95.64	1.84	91.74
3	0.67	98.47	0.37	96.01	1.11	92.85
4	0.61	99.08	0.66	96.67	0.69	93.55
5	0.32	99.39	0.65	97.32	0.78	94.33
6	0.27	99.66	0.33	97.66	0.85	95.18
7	0.25	99.91	0.20	97.86	0.85	96.02
8	0.09	100.00	0.13	97.99	0.80	96.82
9	0.00	100.00	0.18	98.17	0.69	97.51
10	0.00	100.00	0.20	98.37	0.57	98.08
11	0.00	100.00	0.12	98.49	0.29	98.37
12	0.00	100.00	0.14	98.63	0.13	98.50
13	0.00	100.00	0.19	98.82	0.19	98.69
14	0.00	100.00	0.24	99.06	0.25	98.93
15	0.00	100.00	0.28	99.34	0.20	99.14
16	0.00	100.00	0.12	99.46	0.16	99.29
17	0.00	100.00	0.06	99.52	0.14	99.43
18	0.00	100.00	0.05	99.57	0.14	99.57
19	0.00	100.00	0.06	99.63	0.04	99.62
20	0.00	100.00	0.05	99.68	0.06	99.68
21	0.00	100.00	0.06	99.74	0.05	99.73
22	0.00	100.00	0.03	99.77	0.08	99.80
23	0.00	100.00	0.04	99.81	0.12	99.93
24	0.00	100.00	0.02	99.83	0.05	99.98
25	0.00	100.00	0.03	99.87	0.02	100.00
26	0.00	100.00	0.05	99.91	0.00	100.00
27	0.00	100.00	0.03	99.94	0.00	100.00
28	0.00	100.00	0.03	99.97	0.00	100.00
29	0.00	100.00	0.01	99.97	0.00	100.00
30	0.00	100.00	0.01	99.99	0.00	100.00
1	0.00	100.00	0.01	99.99	0.00	100.00
2	0.00	100.00	0.01	100.00	0.00	100.00
3	0.00	100.00	0.00	100.00	0.00	100.00

Figure I.1. TIMING THROUGH MEZIADIN FISHWAY 1966

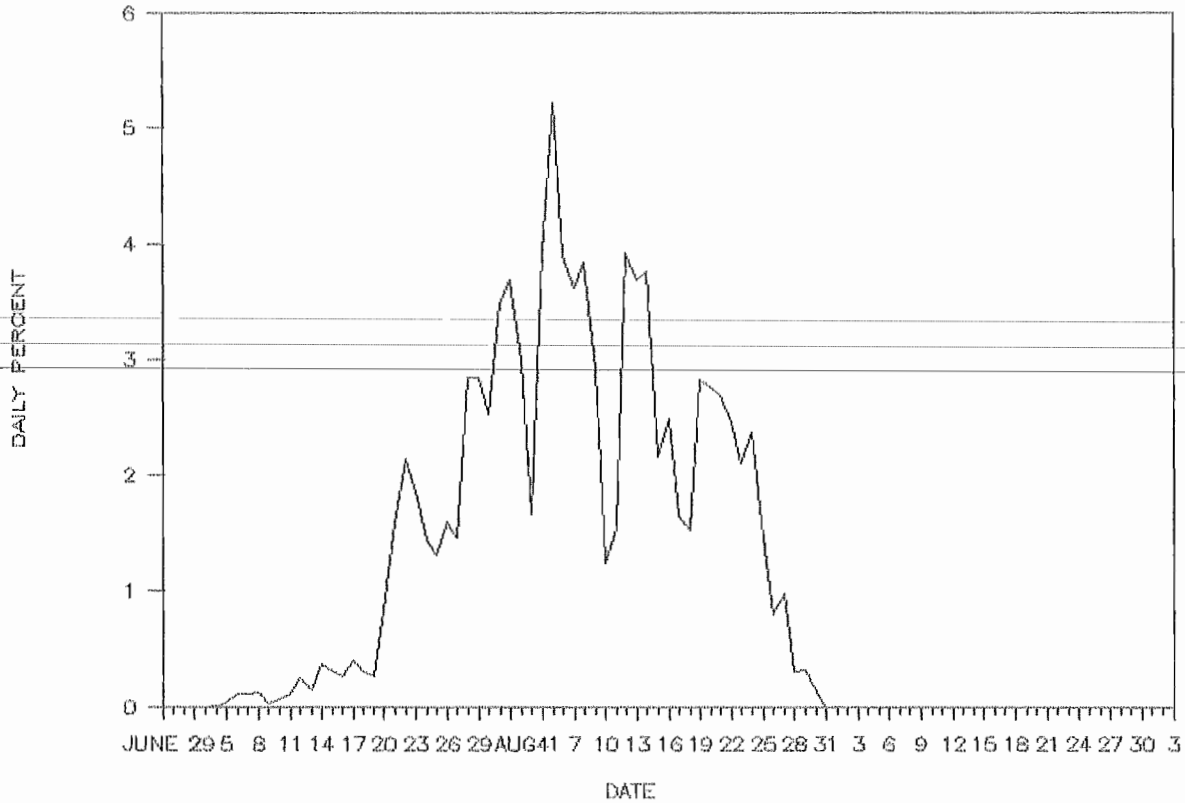


Figure I.2. TIMING THROUGH MEZIADIN FISHWAY 1967

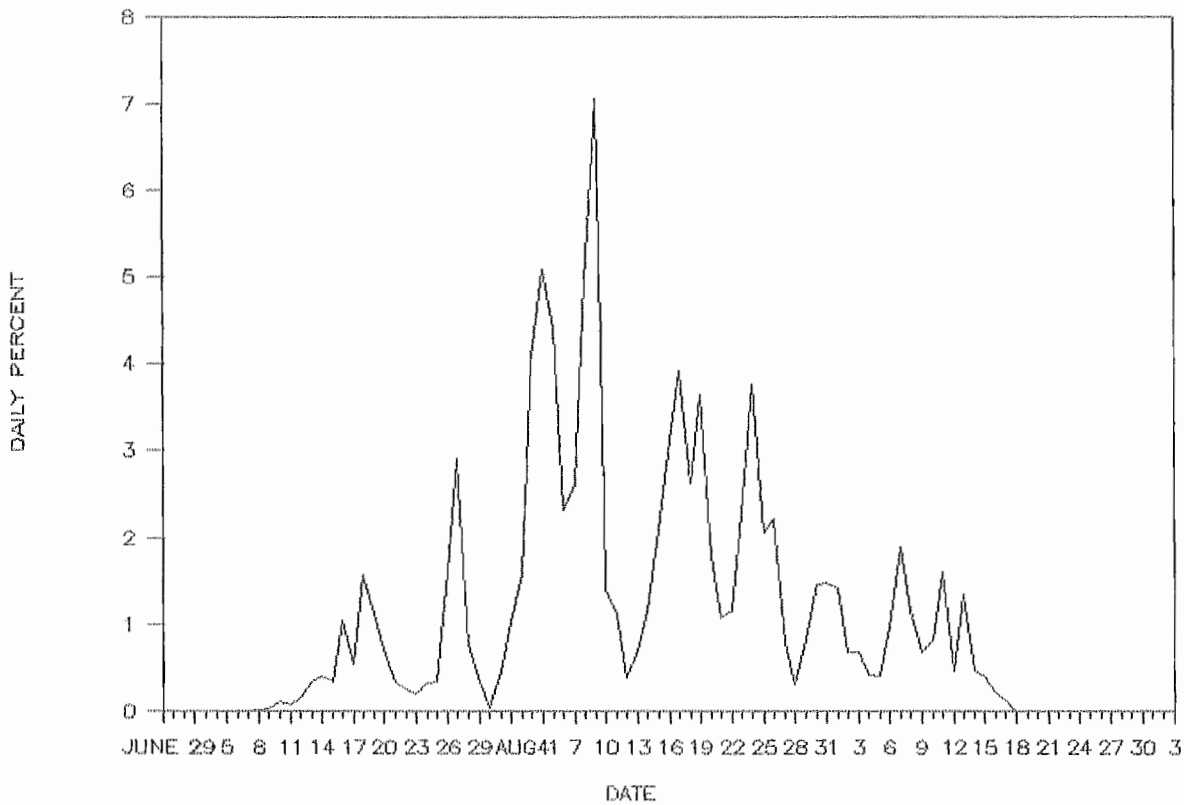


Figure I.3. TIMING THROUGH MEZIADIN FISHWAY 1968

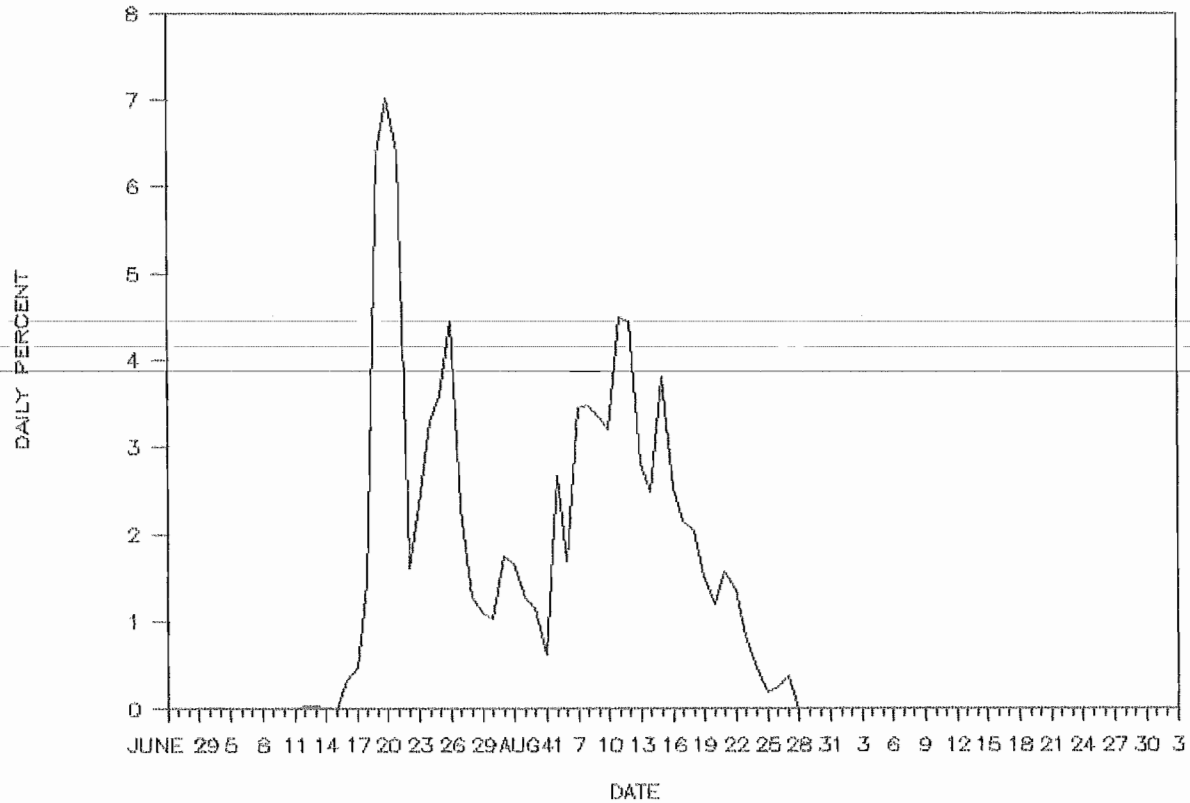


Figure I.4. TIMING THROUGH MEZIADIN FISHWAY 1969

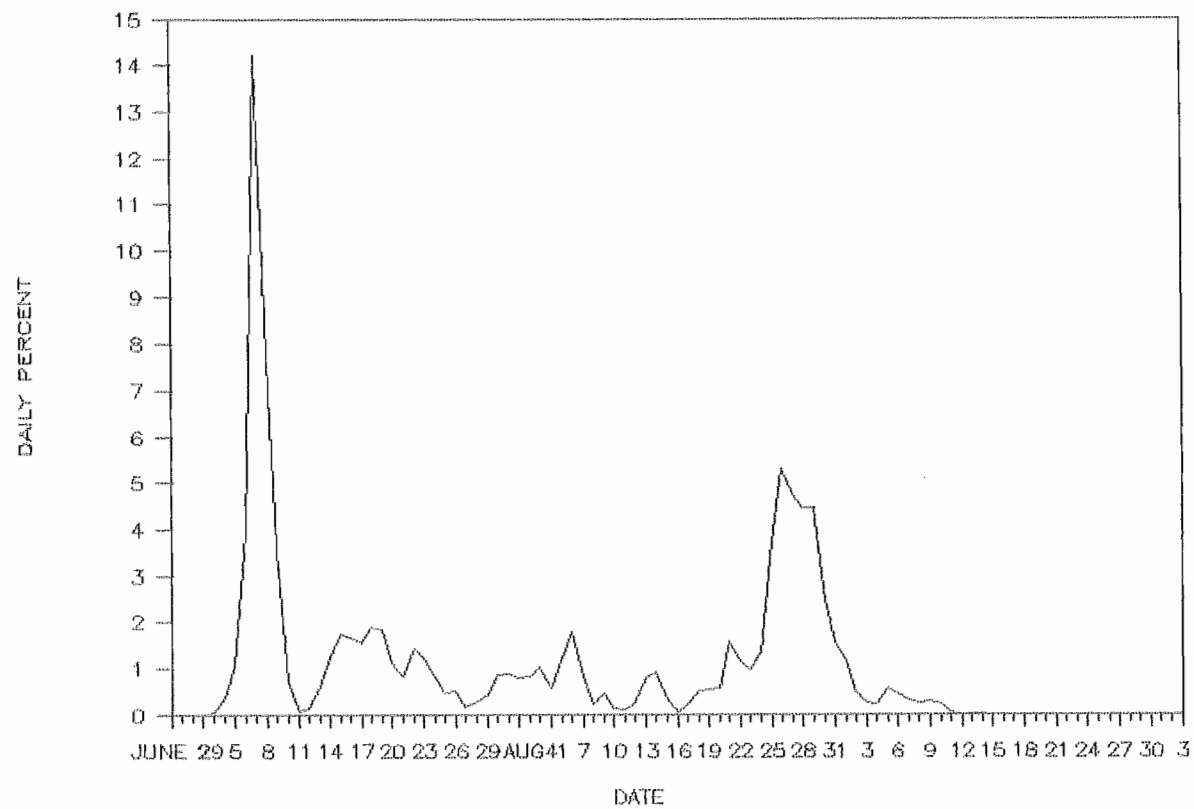


Figure I.5. TIMING THROUGH MEZIADIN FISHWAY 1970

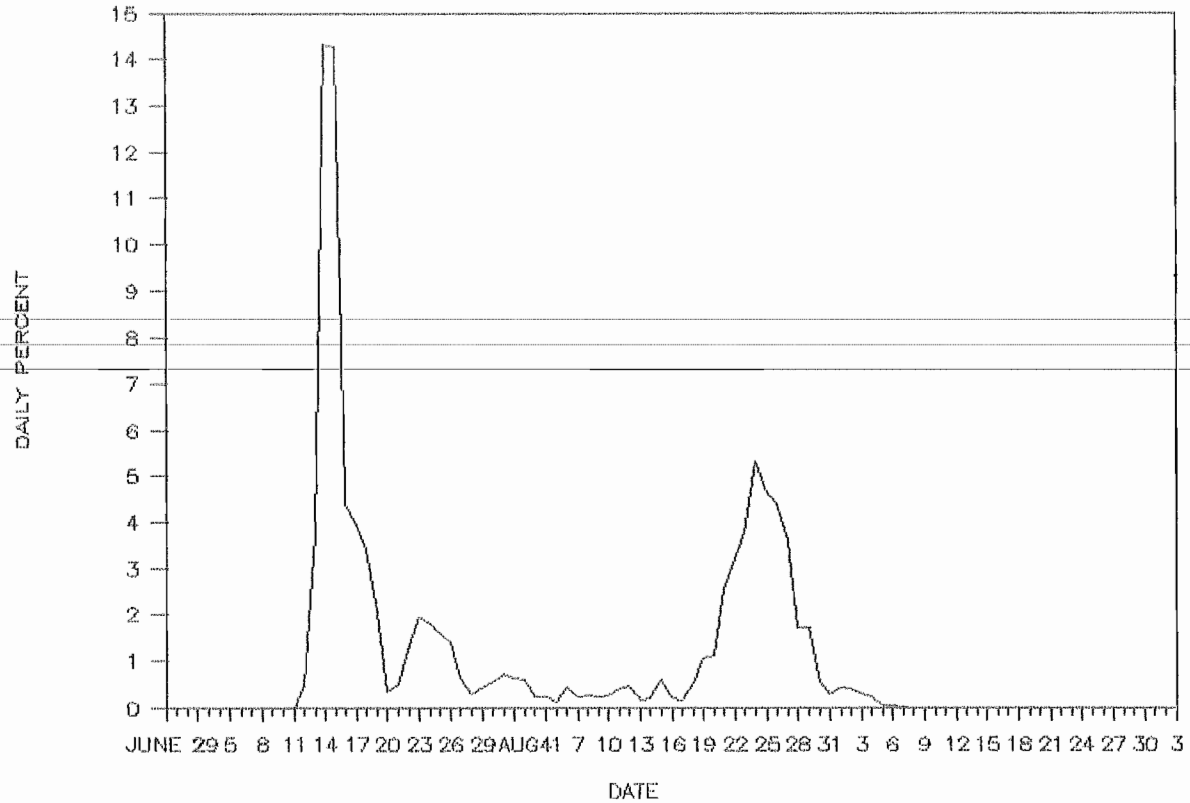


Figure I.6. TIMING THROUGH MEZIADIN FISHWAY 1971

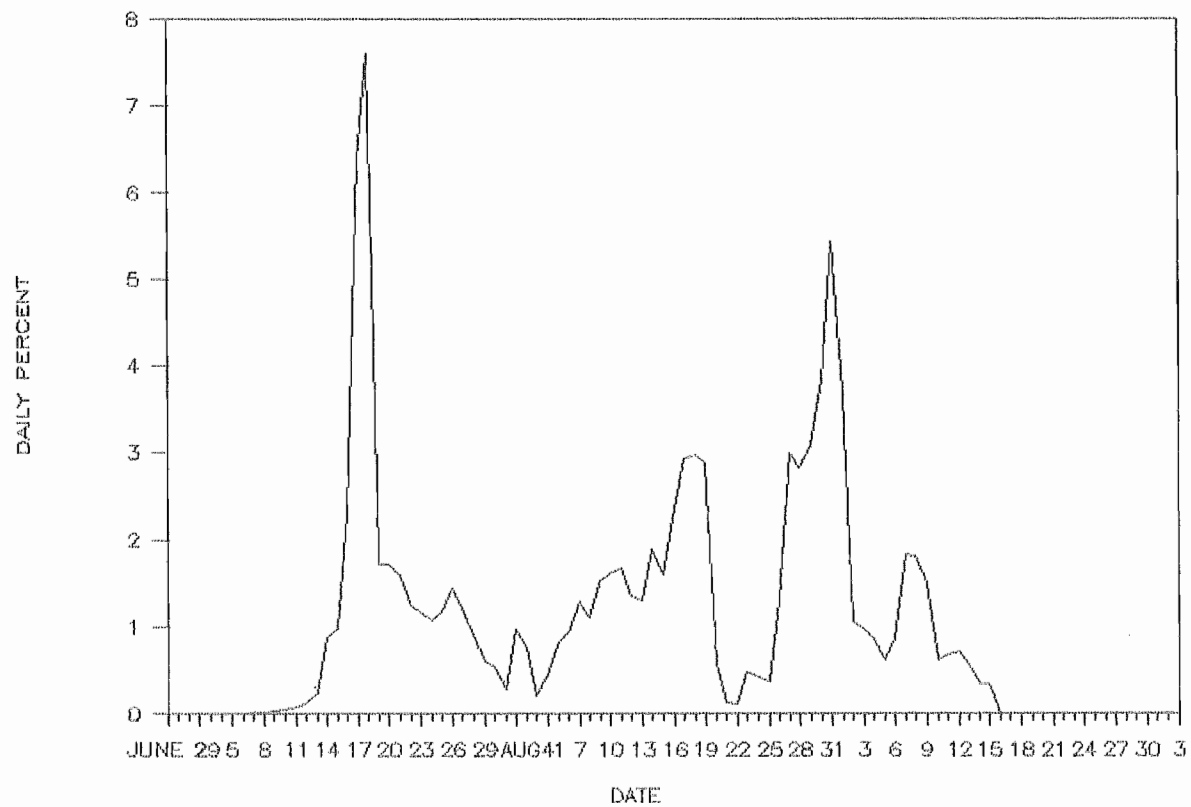


Figure I.7. TIMING THROUGH MEZIADIN FISHWAY 1972

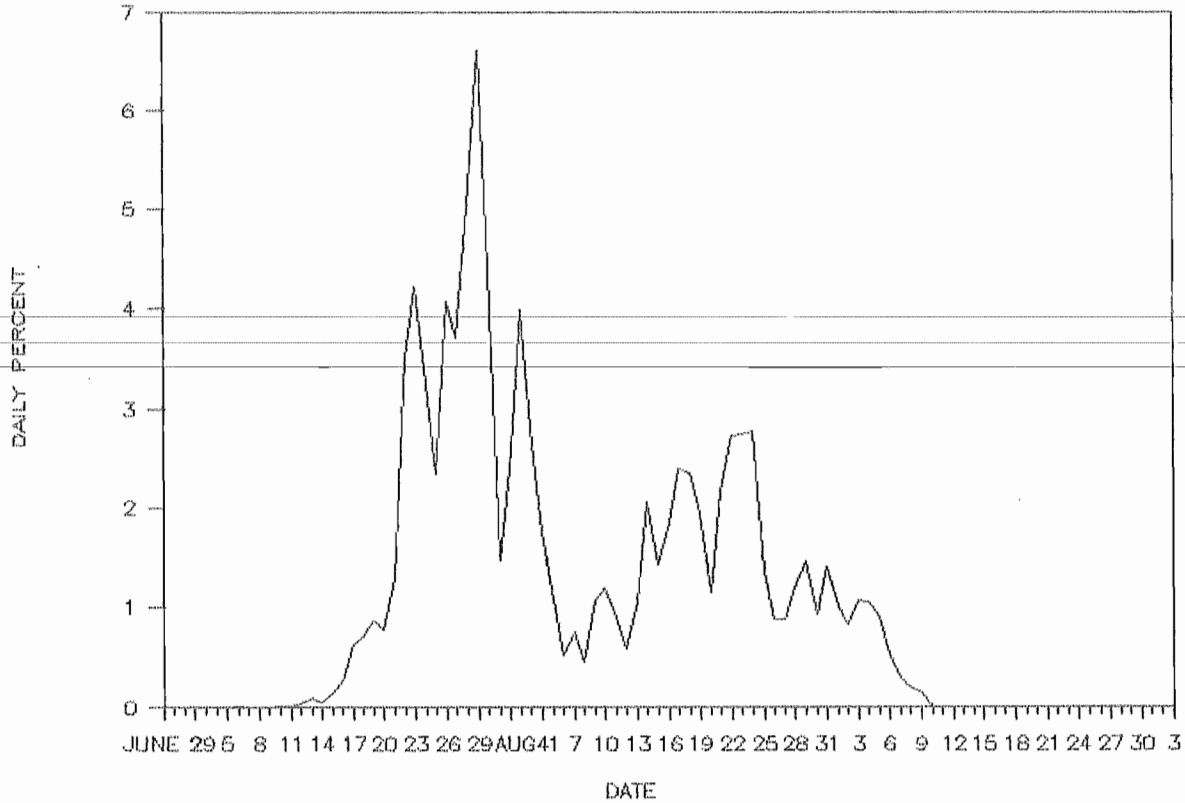


Figure I.8. TIMING THROUGH MEZIADIN FISHWAY 1973

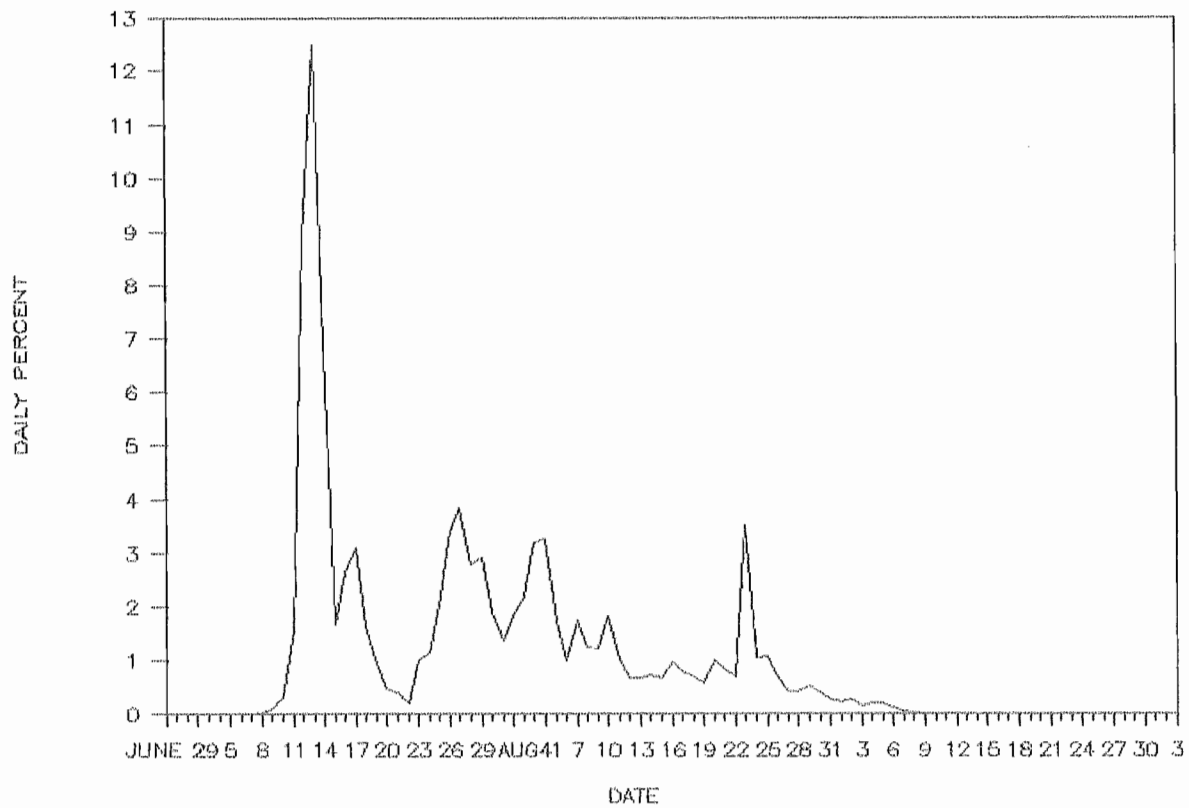


Figure I.9. TIMING THROUGH MEZIADIN FISHWAY 1974

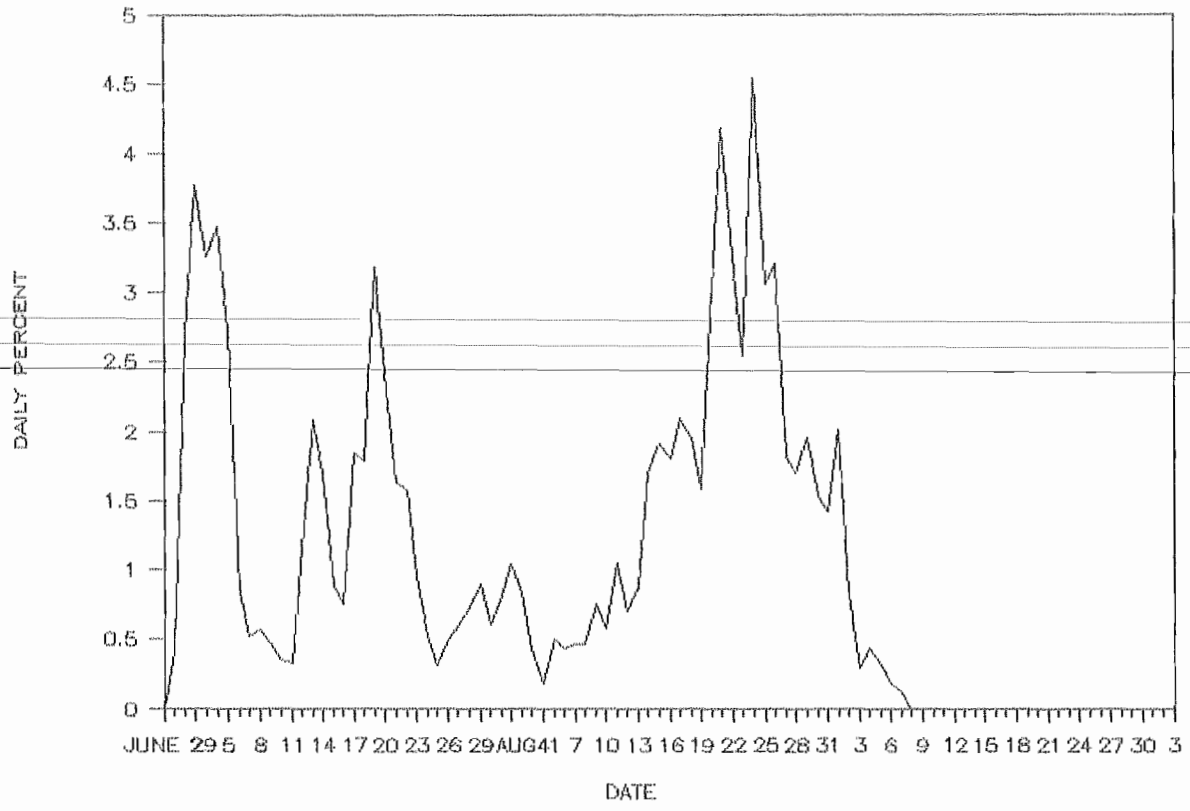


Figure I.10. TIMING THROUGH MEZIADIN FISHWAY 1975

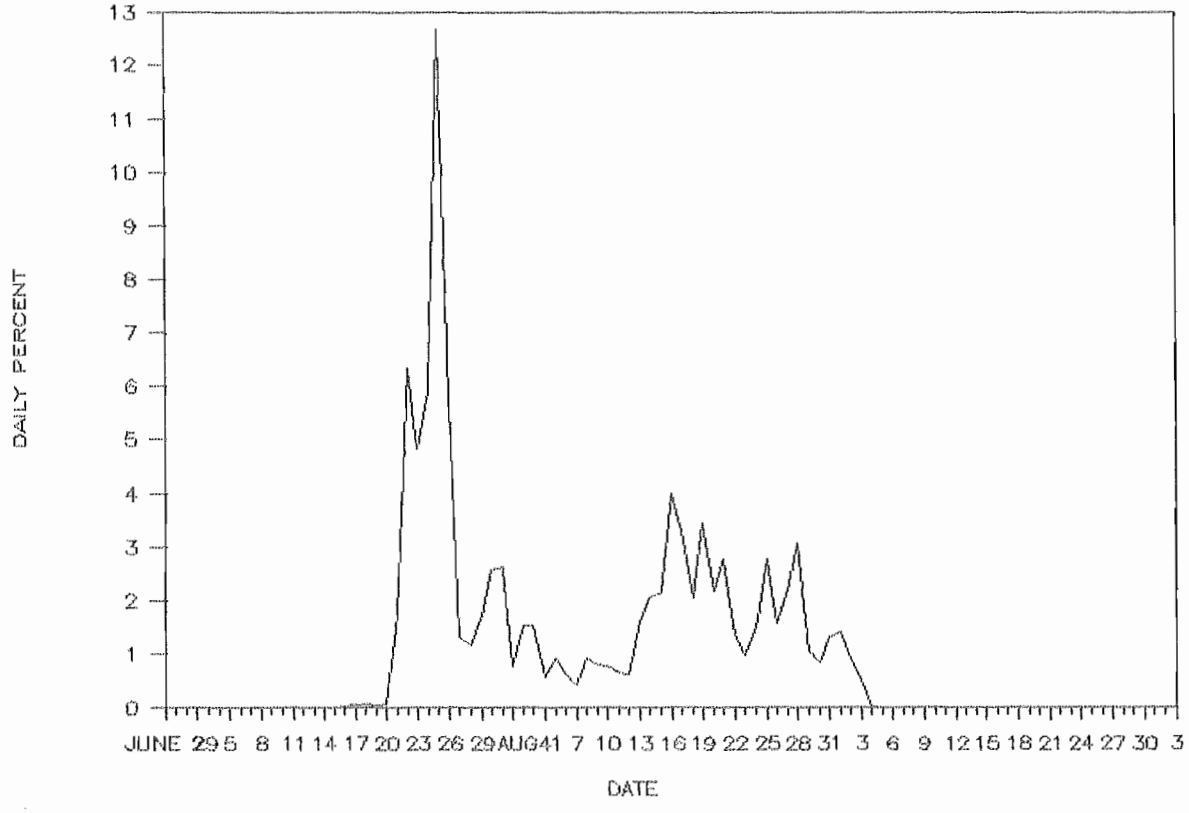


Figure I.11. TIMING THROUGH MEZIADIN FISHWAY 1976

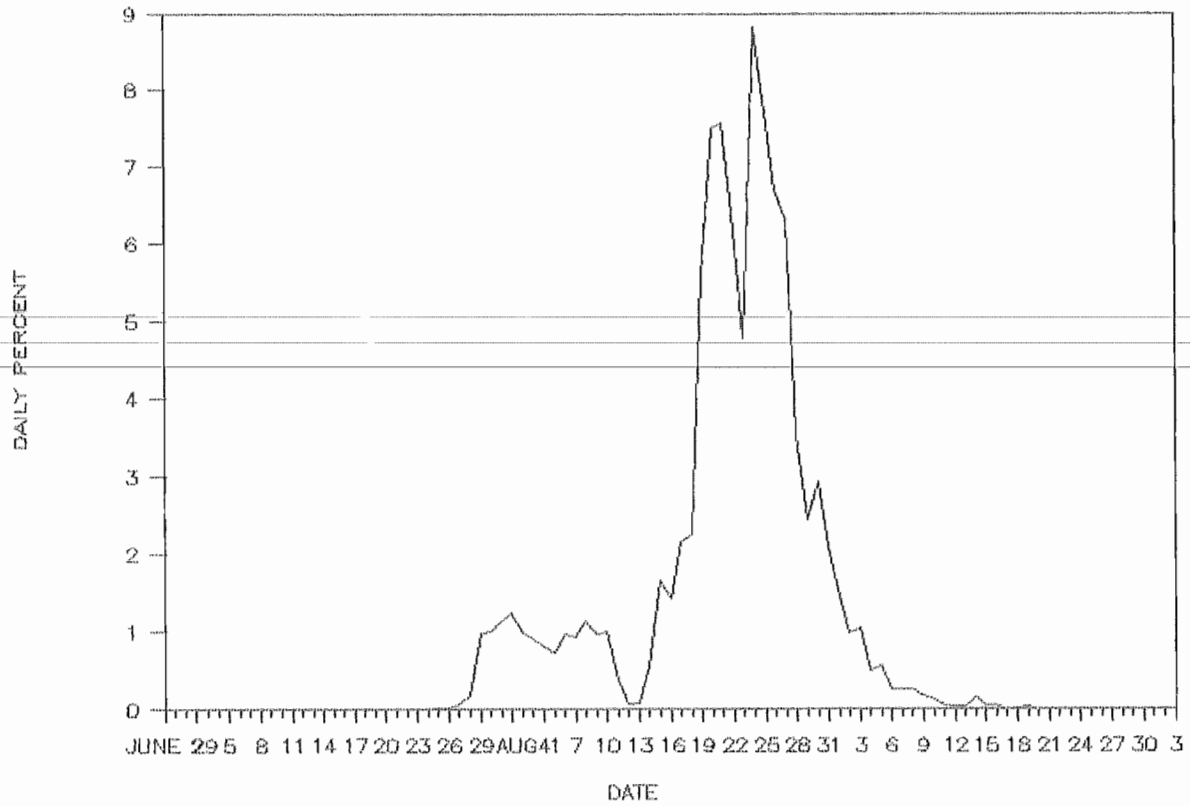


Figure I.12. TIMING THROUGH MEZIADIN FISHWAY 1977

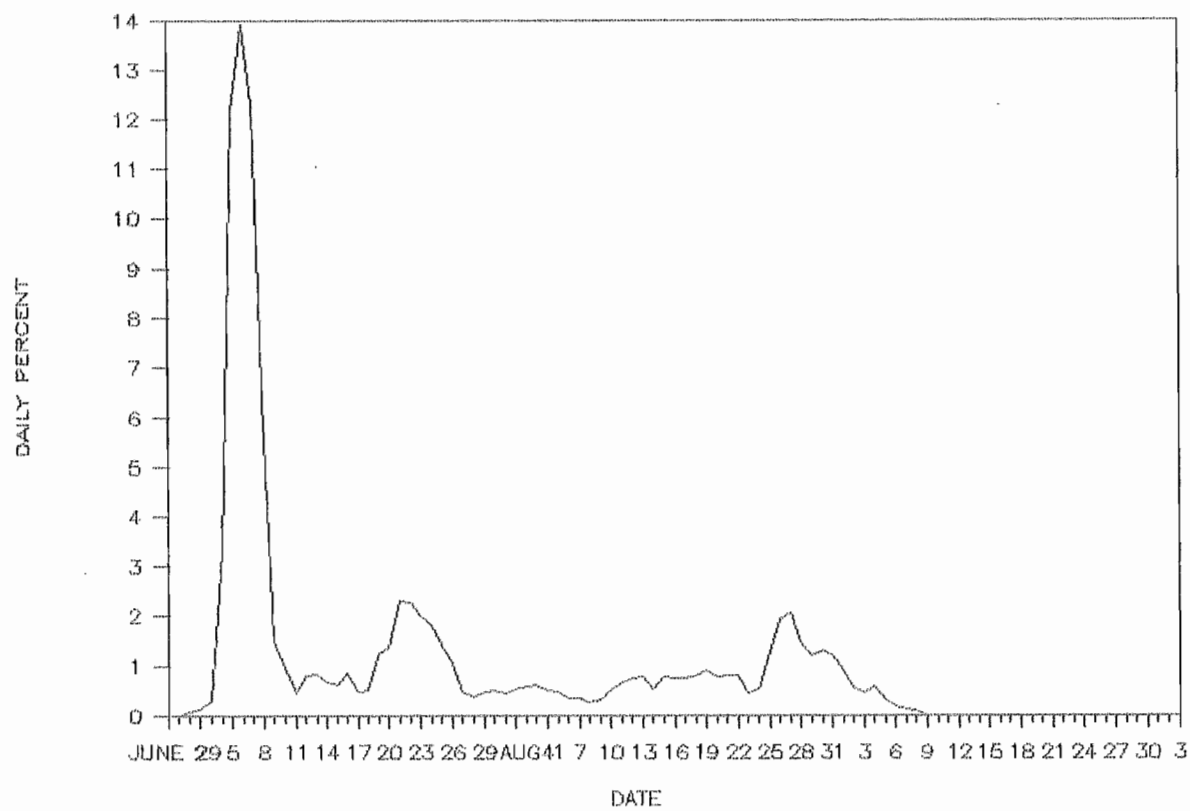


Figure I.13. TIMING THROUGH MEZIADIN FISHWAY 1978

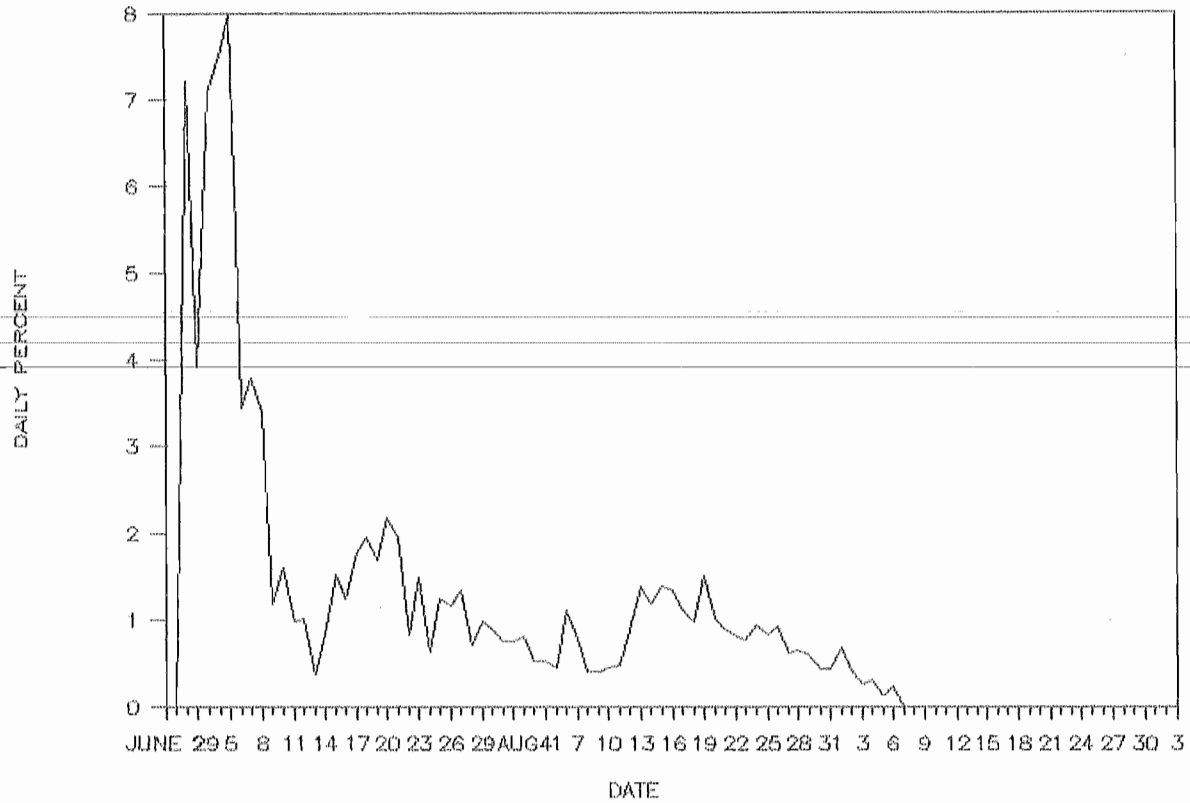


Figure I.14. TIMING THROUGH MEZIADIN FISHWAY 1979

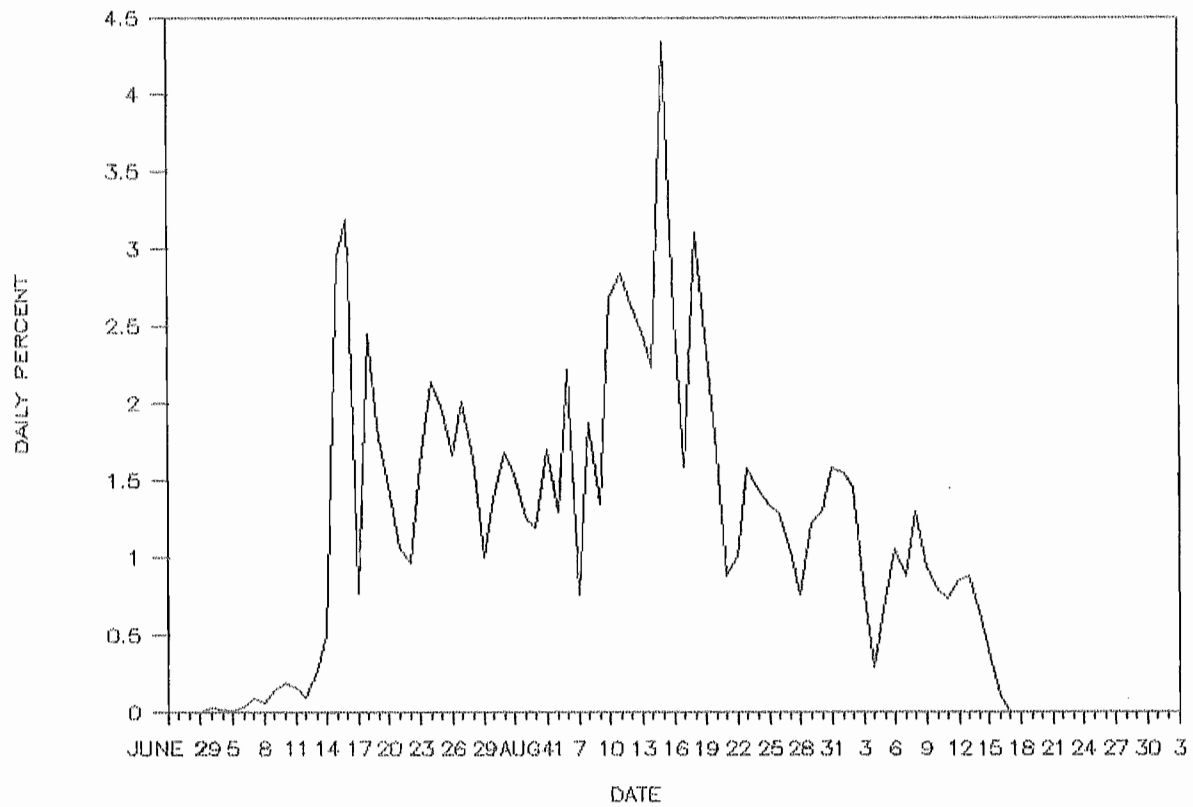


Figure I.15. TIMING THROUGH MEZIADIN FISHWAY 1980

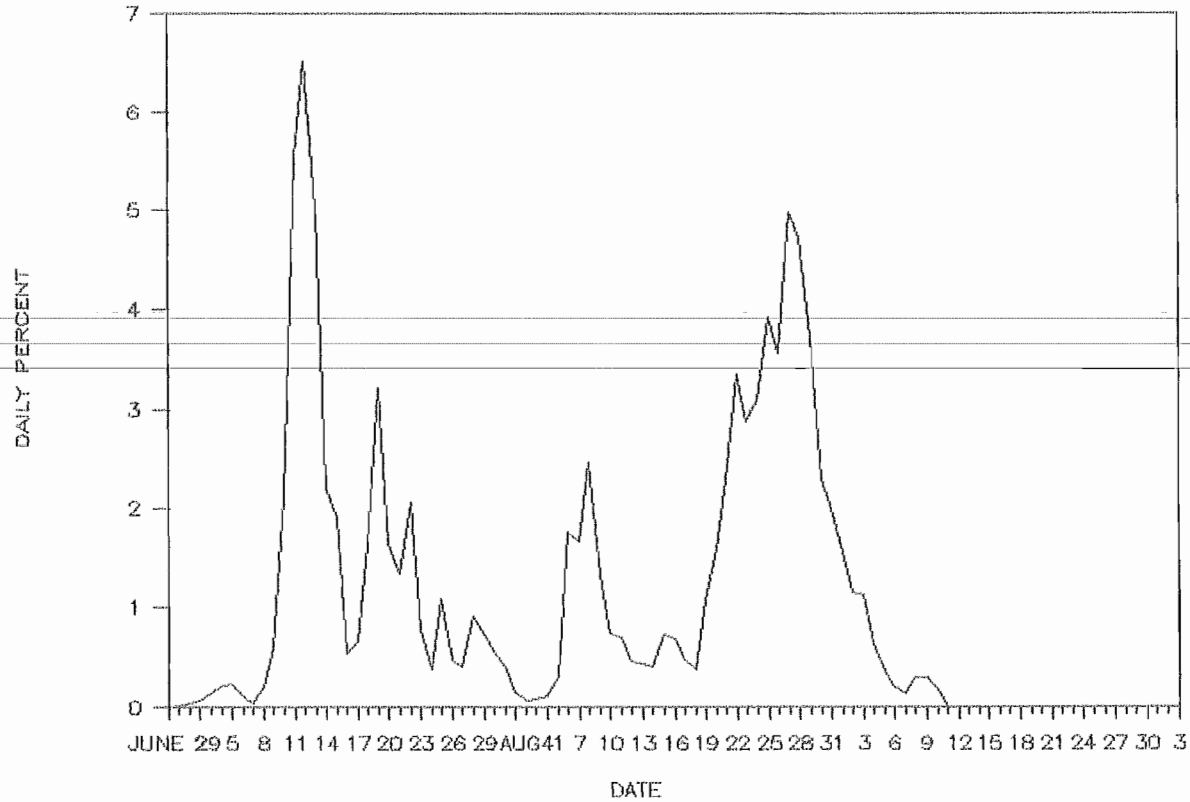


Figure I.16. TIMING THROUGH MEZIADIN FISHWAY 1981

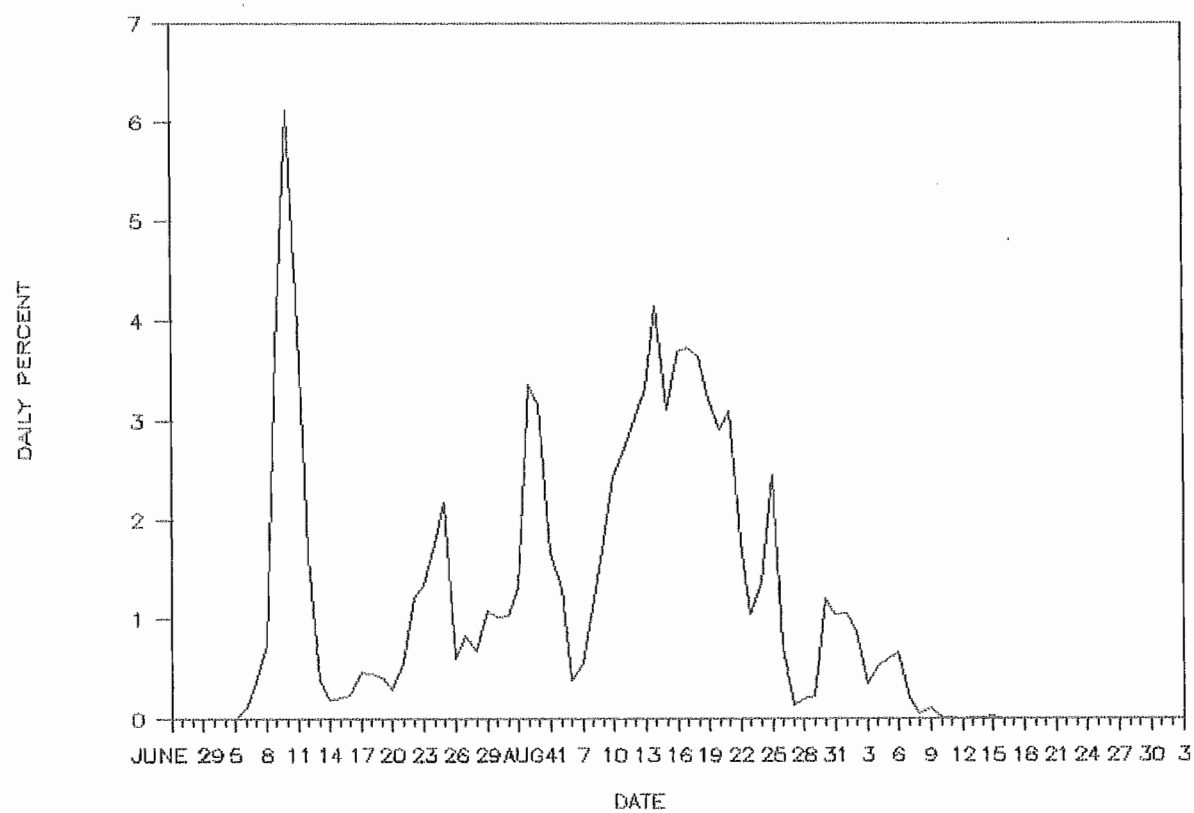


Figure I.17. TIMING THROUGH MEZIADIN FISHWAY 1982

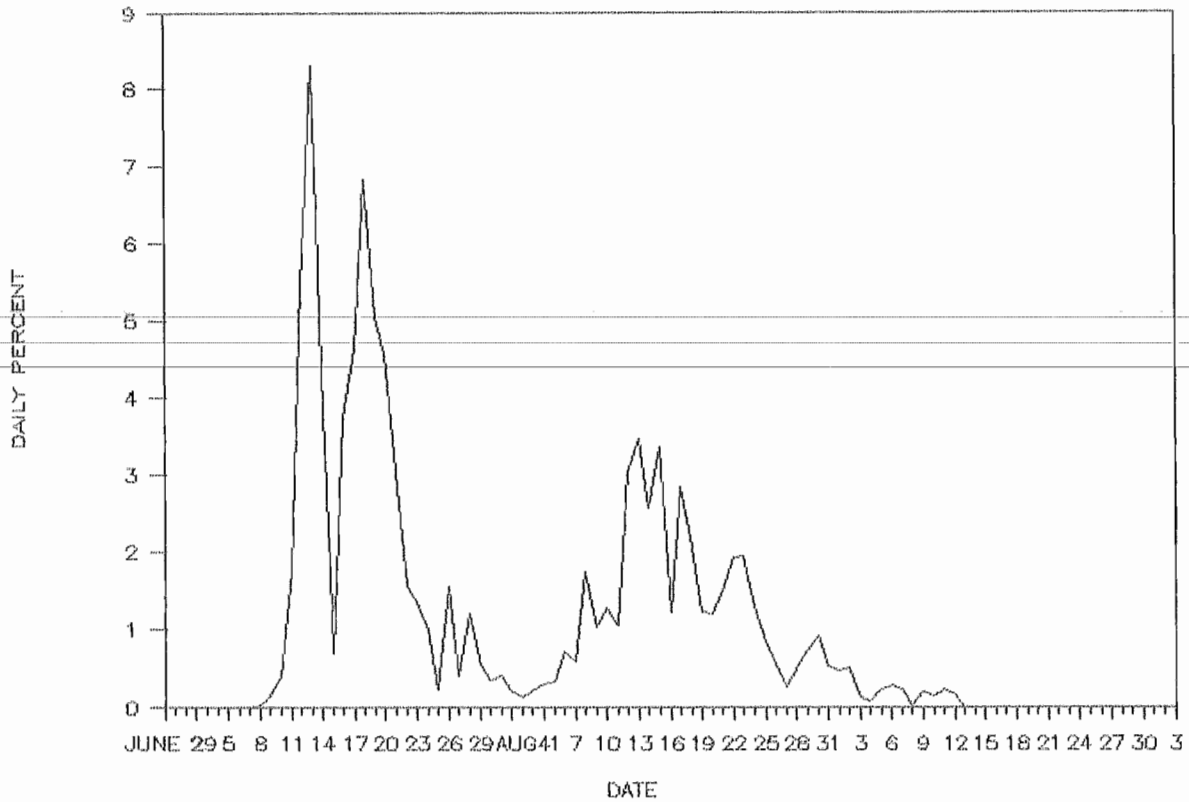


Figure I.18. TIMING THROUGH MEZIADIN FISHWAY 1983

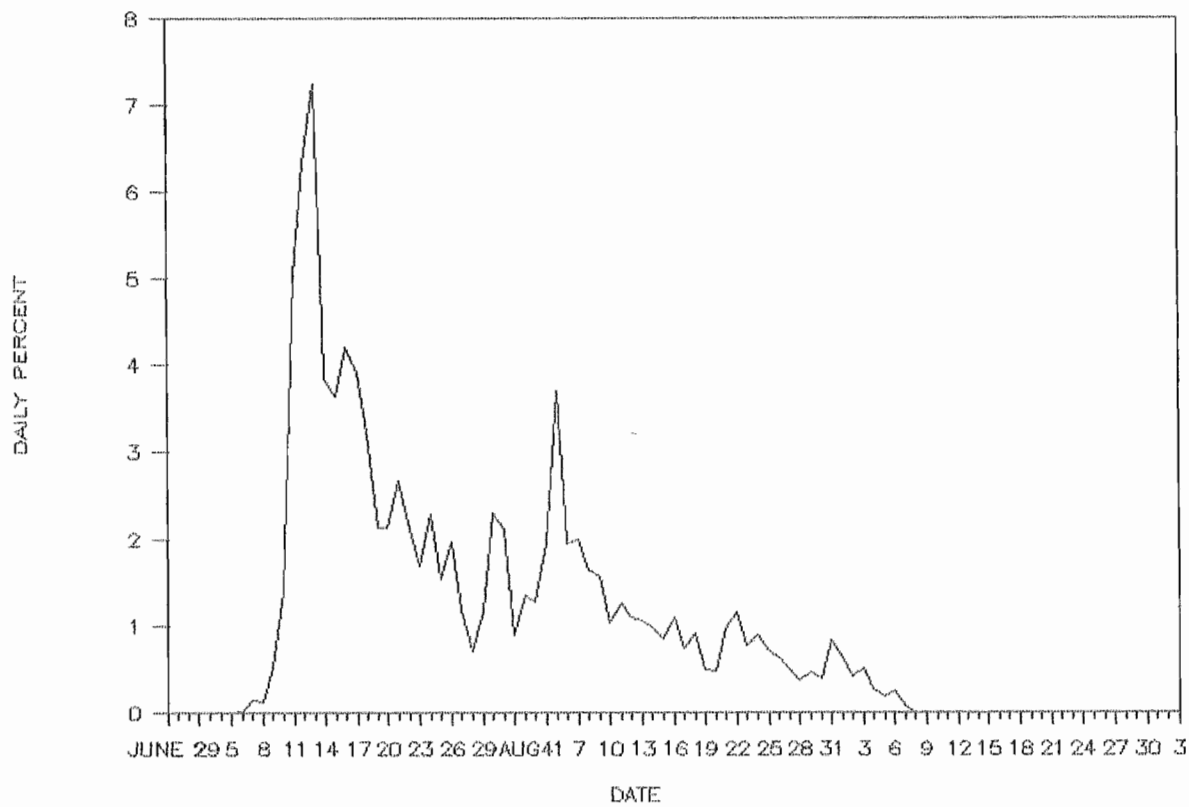


Figure I.19. TIMING THROUGH MEZIADIN FISHWAY 1984

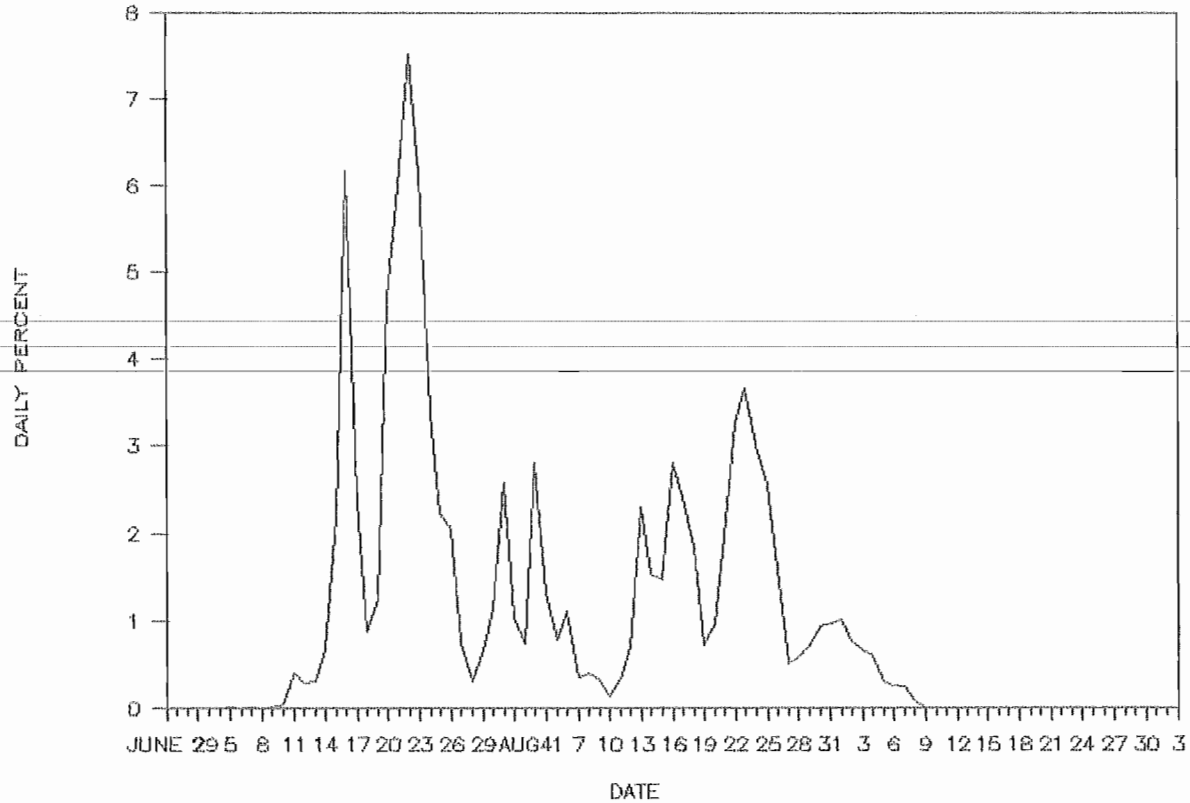


Figure I.20. TIMING THROUGH MEZIADIN FISHWAY 1985

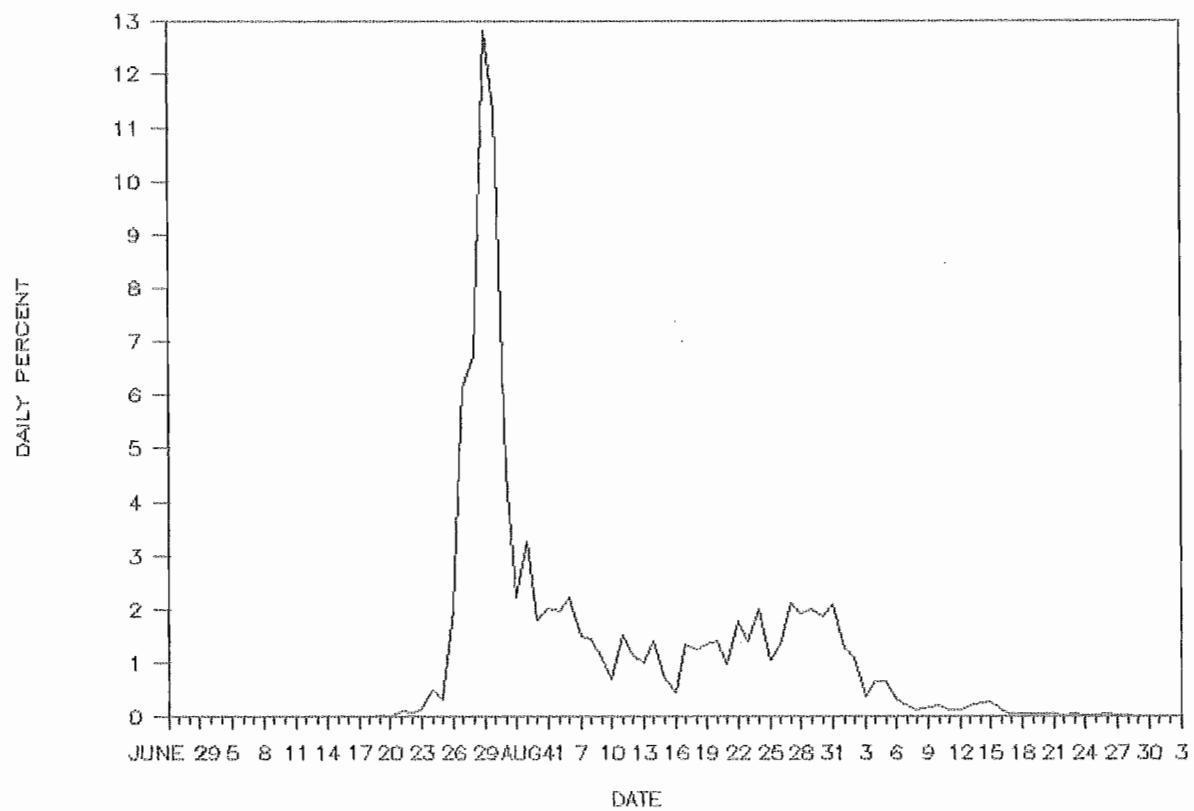


Figure I.21. **TIMING THROUGH MEZIADIN FISHWAY 1986**

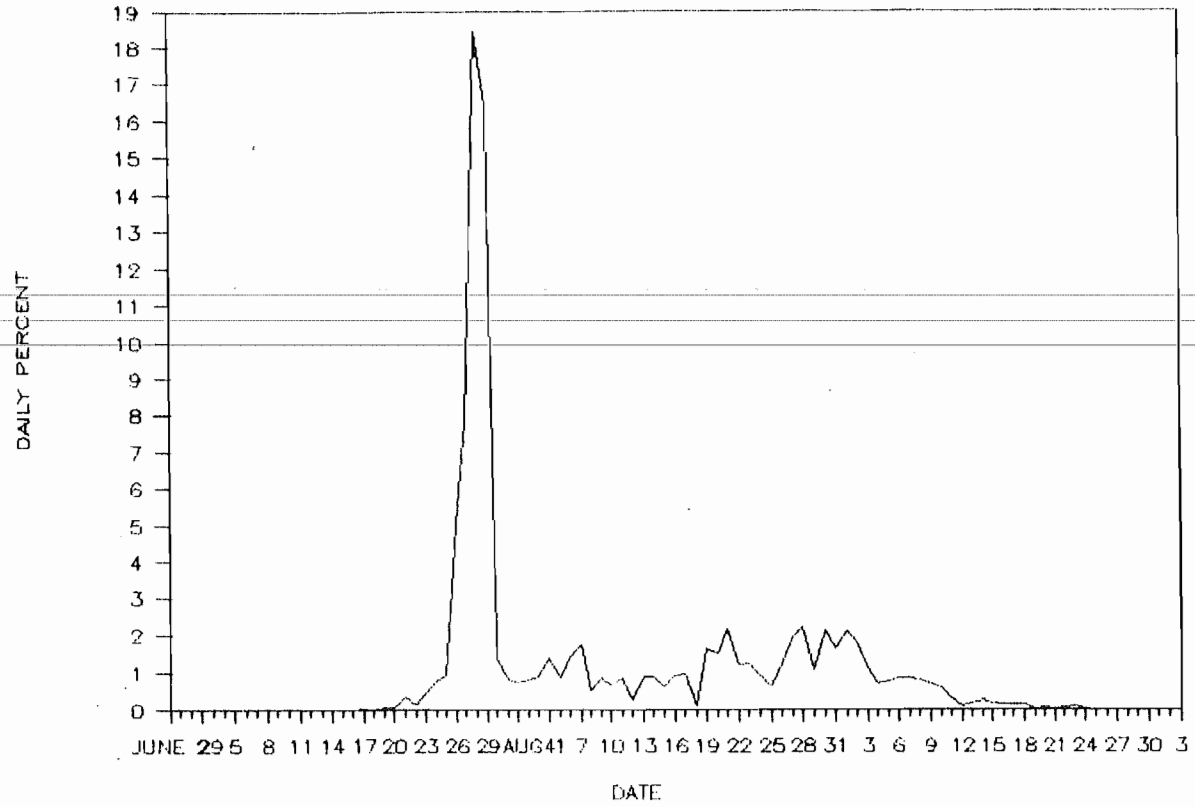


Table I.9. Hanna Creek sockeye weir counts and tag recoveries 1958.

DATE	DAILY	CUM.	COMMENTS
JULY 31	–	–	6014
AUG 01	143	143	
2	180	323	4004 3051
3	153	476	4184
4	216	692	3369 4146 4036
5	243	935	3110 4365 3096–TAG OFF
6	187	1122	
7	16	1138	2952 3332
8	22	1160	
9	23	1183	
10	11	1194	
11	7	1201	
12	–	1201	
13	16	1217	2756
14	18	1235	
15	41	1276	
16	29	1305	
17	35	1340	
18	–	1340	
19	16	1356	
20	47	1403	
21	8	1411	
22	9	1420	
23	10	1430	3451 3488
24	12	1442	
25	5	1447	
26	10	1457	
27	–	1457	
28	2	1459	
29	–	1459	
30	–	1459	
31	2	1461	
SEPT 01	–	1461	
2	37	1498	3036 RED STRIP
3	29	1527	
4	48	1575	
5	–	1575	FENCE OUT OF OPERATION 09/06
6	–	1575	07 DEAD
7	–	1575	17 DEAD
8	–	1575	14 DEAD
9	–	1575	16 DEAD

Table I.10. Tintina Creek sockeye weir counts and tag recoveries 1958.

DATE	DAILY	CUM.			COMMENTS
AUG 15	15	15			
16	27	42			
17	21	63			
18	23	86	4167		
19	89	175	6228		
20	152	327	4421	3169	
21	99	426	4358		
22	105	531	3328		
23	106	637			
24	156	793			
25	170	963			
26	71	1034			
27	22	1056			
28	58	1114			
29	5	1119			
30	3	1122			
31	-	1122			
SEPT 1	3	1125			
2	-	1125			
3	-	1125	3099		DEAD IN MCLEOD.
4	-	1125			
5	-	1125			

Table I.11. Fred-Wright sockeye weir counts and tag recoveries 1959.

DATE	DAILY	CUM.	COMMENTS
AUG 09	4	4	
10	4	8	
11	16	24	
12	3	27	
13	11	38	
14	43	81	
15	52	133	
16	135	268	E-844
17	121	389	
18	156	545	E-670
19	132	677	E-665 E-1027
20	34	711	E-993
21	90	801	E-902
22	32	833	E-917
23	75	908	
24	76	984	E-1324 E-284
25	70	1054	E-1121
26	303	1357	E-874
27	218	1575	E-1033 E-857 E-999
28	134	1709	E-1232
29	37	1746	E-1272 E-1187 E-1178
30	195	1941	E-1118 E-1153 E-963
31	60	2001	E-983 E-821 E-1328
SEPT 01	135	2136	E-865 E-930
2	313	2449	E-1359 E-1105 E-1220 E-1263 E-846 E-688 E-1233 E-480
3	347	2796	E-1056 E-1219
4	59	2855	E-1139 E-1246
5	36	2891	
6	3	2894	
7	–	2894	
8	34	2928	E-1259 E-1218
9	54	2982	
10	45	3027	
11	15	3042	
12	30	3072	
13	9	3081	D-4534
14	4	3085	
15	8	3093	
16	–	3093	
17	2	3095	

Table I.12. Fred-Wright sockeye weir counts 1967.

DATE	DAILY	CUM.	COMMENTS
AUG 11	15	15	
12	1	16	
13	4	20	
14	–	20	
15	4	24	
16	53	77	
17	516	593	
18	492	1085	
19	1019	2104	
20	368	2472	
21	245	2717	
22	197	2914	
23	16	2930	
24	81	3011	
25	117	3128	
26	24	3152	
27	15	3167	
28	41	3208	
29	43	3251	
30	147	3398	
31	97	3495	
SEPT 1	90	3585	
2	55	3640	
3	47	3687	
4	32	3719	
5	5	3724	
6	3	3727	
7	1	3728	
8	1	3729	

Table I.14. ANNUAL AGE COMPOSITION OF MEZIADIN SOCKEYE

YEAR	4-2	5-2	5-3	6-3	OTHER
1964	2.60	1.30	94.40	1.70	0.00
1965	56.60	0.50	40.30	2.00	1.00
1966	11.30	3.80	83.50	0.60	0.80
1967	45.50	0.70	36.90	15.70	1.10
1968	13.20	3.20	80.00	1.20	2.40
1969	40.10	1.50	53.00	4.20	1.20
1970	9.70	9.10	70.50	7.80	2.90
1971	13.00	0.50	85.00	1.00	0.00
1972	23.40	18.40	26.30	31.20	0.30
1973	27.40	5.60	54.90	10.70	0.10
1974	13.86	12.14	59.13	14.84	0.00
1975	15.60	4.59	65.82	13.99	0.00
1976	22.40	7.80	62.20	7.60	0.00
1977	22.15	5.32	67.01	3.90	1.62
1978	7.34	9.62	66.43	16.26	0.35
1979	11.12	2.93	79.34	4.52	2.09
1980	17.90	4.00	73.10	5.00	0.01
1981	43.30	1.00	53.60	2.10	0.00
1982	6.80	19.50	53.60	7.20	12.80
1983	24.70	6.50	48.60	7.80	12.30
1984	8.10	22.00	47.30	16.30	6.40
1985	28.60	8.10	37.80	16.00	9.50
1986	NOT COMPLETED				

Table I.15. ANNUAL AGE COMPOSITION OF DOWSER SOCKEYE

YEAR	4-2	5-2	5-3	6-3	OTHER
1964	4.40	33.20	59.10	3.30	0.00
1965	55.10	0.00	25.00	16.60	3.30
1966	46.70	12.10	37.20	0.40	3.60
1967	35.40	10.30	45.70	8.10	0.40
1968	23.40	23.90	44.70	1.50	1.50
1969	24.00	21.20	48.40	5.50	1.00
1970	15.00	24.50	39.60	20.90	0.00
1971	30.00	17.00	43.00	10.00	0.00
1972	14.40	26.00	32.20	26.70	0.07
1973	24.60	28.80	35.60	10.20	0.00
1974	7.00	29.60	38.00	25.40	0.80
1975	28.30	16.98	39.63	15.09	0.00
1976	19.50	20.70	50.00	9.80	0.00
1977	30.30	33.70	23.60	10.10	2.30
1978	16.18	57.35	17.65	8.82	0.00
1979	38.70	18.30	36.60	6.40	0.00
1980	3.00	53.70	10.80	32.50	0.00
1981	30.60	2.70	59.30	7.70	0.00
1982	36.00	20.00	36.00	8.00	0.00
1983	39.60	39.60	17.00	3.80	0.00
1984	NOT AVAILABLE				
1985	29.30	32.30	25.00	11.60	0.00
1986	34.90	21.30	21.90	21.30	0.60

Table I.13. Damdochax River sockeye weir counts 1967.

DATE	DAILY	CUM.	COMMENTS
AUG 17	2	2	
18	11	13	
19	20	33	
20	96	129	
21	51	180	
22	369	549	
23	67	616	
24	205	821	
25	353	1174	
26	494	1668	
27	131	1799	
28	20	1819	
29	18	1837	
30	85	1922	
31	95	2017	
SEPT 1	27	2044	
2	32	2076	
3	131	2207	
4	216	2423	
5	66	2489	
6	32	2521	
7	23	2544	
8	11	2555	
9	70	2625	
10	25	2650	

Table I.16. ANNUAL AGE COMPOSITION OF DAMDOCHAX SOCKEYE

YEAR	4-2	5-2	5-3	6-3	OTHER
1964					
1965					
1966					
1967	27.50	50.70	7.70	12.70	1.40
1968	30.70	49.80	10.80	8.80	0.00
1969	69.10	26.40	1.50	3.00	0.00
1970	27.50	39.90	25.80	6.80	0.00
1971	17.00	79.00	4.00	0.00	0.00
1972	17.90	7.40	10.70	0.00	0.00
1973	48.10	34.60	13.50	3.80	0.00
1974	14.60	69.10	9.10	7.30	0.00
1975	39.29	21.43	26.19	13.09	0.00
1976	45.20	21.90	29.00	3.90	0.00
1977	25.00	56.82	12.50	5.68	0.00
1978	29.33	48.00	12.00	9.33	1.34
1979	32.69	57.69	5.77	3.85	0.00
1980	63.00	26.00	3.10	6.30	1.60
1981	28.40	46.30	19.30	6.00	0.00
1982	30.30	18.20	48.50	3.00	0.00
1983	17.50	56.70	6.20	19.60	0.00
1984	28.00	62.00	8.00	2.00	0.00
1985	54.00	34.00	5.00	7.00	0.00
1986	9.00	90.00	1.00	0.00	0.00

Table I.17. ANNUAL AGE COMPOSITION OF KWINAGEESE SOCKEYE

YEAR	4-2	5-2	5-3	6-3	OTHER
1964					
1965					
1966					
1967	80.20	13.70	4.60	1.50	0.00
1968	30.00	50.50	16.30	3.20	0.00
1969	68.10	28.20	2.50	1.20	0.00
1970	68.20	27.30	3.00	1.50	0.00
1971	73.00	22.00	3.00	2.00	0.00
1972	31.30	52.10	8.30	8.30	0.00
1973	75.50	14.70	8.20	1.60	0.00
1974		NOT SAMPLED			
1975	57.73	21.65	17.53	3.09	0.00
1976	43.80	27.10	28.10	1.00	0.00
1977	17.08	58.29	11.56	13.07	0.00
1978	15.65	66.67	6.12	11.56	0.00
1979		NOT AVAILABLE			
1980		NOT AVAILABLE			
1981	95.90	2.00	2.10	0.00	0.00
1982	23.50	64.70	11.80	0.00	0.00
1983	54.30	45.10	0.60	0.00	0.00
1984	44.00	56.00	0.00	0.00	0.00
1985	99.00	1.00	0.00	0.00	0.00
1986	12.20	84.00	3.70	0.00	0.00

Table I.18. MEAN HYPURAL LENGTH BY SEX, BY AGE CLASS, BY WEEK FOR MEZIADIN SOCKEYE FROM 1975 TO 1985

WEEK 7-1

	4-2		5-2		5-3		6-3	
YEAR	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
1975								
1976								
1977	480	548	530			525		570
1978	488		537	557	492	500	527	534
1979				535	470	510		548
1980				534	492	536		525
1981								
1982								
1983								
1984			503	521	480	464	455	534
1985								

WEEK 7-2

	4-2		5-2		5-3		6-3	
YEAR	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
1975								
1976								
1977	499	527	541	555	512	530		572
1978	493	525	539	569	505	531	542	548
1979	485			541	493	521	541	
1980	474	488	510	525	478	491	458	530
1981	465	468	503	534	462	478		496
1982			503		502	562		
1983					454	496		482
1984	445	434	495	524	462	487	497	533
1985								

WEEK 7-3

	4-2		5-2		5-3		6-3	
YEAR	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
1975					492	505		
1976								
1977	506	519	542	571	512	531	538	520
1978	491	528	535	575	510	526	526	553
1979	479	478	504	547	492	510	502	537
1980	481	499	491	507	492	506	492	513
1981	460	471		552	474	501		556
1982	476	500	520	546	483	508		570
1983	453	479	481	538	468	461	496	534
1984	462	483	509	527	471	496	506	528
1985	449	470	487	513	440	481	500	525

Table I.18 cont'd.

MT. MEAN HYPURAL LENGTH BY SEX, BY AGE CLASS, BY WEEK FOR MEZIADIN SOCKEYE FROM 1975 TO 1985

WEEK 7-4

	4-2		5-2		5-3		6-3	
YEAR	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
1975	461	501		521	483	508		541
1976								
1977	491	517	558	564	517	524		568
1978	505	484	501	574	513	524	516	562
1979	483	489	540	551	496	518	500	565
1980	486	503	509	584	487	499	478	513
1981	466	486			472	490		
1982	469	495	515	532	481	497		504
1983	456	477	506	522	470	493	517	535
1984	461	473	467	522	473	491	473	524
1985	446	460	487	518	454	470	480	512

WEEK 7-5

	4-2		5-2		5-3		6-3	
YEAR	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
1975	467	493		537	482	505	488	518
1976	485	478		537	482	505	488	518
1977	500	520		558	510	533	565	559
1978	529	545		575	505	535	550	559
1979	486	506		521	499	521	540	575
1980	488	415			477	490		588
1981	467	485			478	497	521	
1982	461	466	519	538	480	499		483
1983	467	469	494	515	470	499	469	536
1984	451	487	495	536	473	494	479	537
1985	434	460	515	532	453	472	507	534

WEEK 8-1

	4-2		5-2		5-3		6-3	
YEAR	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
1975	472	496		577	479	500	480	509
1976	482	490	515	533	483	508	529	550
1977	514	536		573	512	539		598
1978	514	507		548	510	542	501	563
1979	512	494	541	542	519	537	542	596
1980	456	472	486	523	464	483	478	529
1981	456	490	524		492	507		542
1982	467	499	523	555	506	520	539	
1983	471	481	498	513	485	504		562
1984	455	473	517	548	471	492	535	545
1985	441	466	495	539	457	488	517	442

Table I.18 cont'd.

MEAN HYPURAL LENGTH BY SEX, BY AGE CLASS, BY WEEK FOR MEZIADIN SOCKEYE FROM 1975 TO 1985

WEEK 8-2

	4-2		5-2		5-3		6-3	
YEAR	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
1975	494	508		549	502	513	551	598
1976	479	499		563	493	511		579
1977	514	501	510	570	535	550		580
1978		576	560	583	515	556	580	583
1979	500	522	533		524	540		
1980	479	492	517		468	485		558
1981	465	500			492	508		543
1982	471		553	566	503	538	536	566
1983	477	494	501	510	493	510	540	560
1984	465	458	494	542	488	509	501	550
1985	457	472	480	552	474	492	546	556

WEEK 8-3

	4-2		5-2		5-3		6-3	
YEAR	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
1975	498	503	541	571	519	514	529	566
1976	473	500	514	531	485	514	511	527
1977	503	545			531	552		586
1978	536		585	555	525	556	577	602
1979	510	525	562		530	541	583	610
1980	495	503	491	540	486	504	497	512
1981	494	502			492	511	523	500
1982	443	498	483	565	496	536	523	567
1983	466	502	530	548	488	517	539	553
1984	472	545	527	557	492	508	510	559
1985	459	499	485	520	478	505	531	560

WEEK 8-4

	4-2		5-2		5-3		6-3	
YEAR	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
1975	498	520	543		513	530	501	571
1976	485	499	510	521	495	523	522	574
1977	518	522		580	538	549	543	573
1978	495	564		531	544	540	578	589
1979	465	495			529	548		587
1980	472	494	506	553	488	512	499	543
1981	456	470		507	487	507	504	574
1982	460	453	420	565	494	518	540	537
1983	486	510	486	553	484	528	546	563
1984	455		498	550	492	521	540	541
1985	442	451	494	523	479	496	503	534

APPENDIX II

"Test Fishery"

Information relating to the Nass test fishery is presented in this section. The history and methodology of the operation is decribed briefly followed by tables presenting daily test fishery indices, daily percentages of run past the test fishery and actual daily escapement estimates (Tables II.1 to II.12). Figures II.1 to II.21 show the annual timing patterns of sockeye escapement from 1966 to 1986 (Source: Management Biology files - Prince Rupert).

Weekly age composition data is presented in Table II.13 with annual summaries in Table II.14 (Source: Management Biology files - Prince Rupert).

Also included in this section is a table summarizing the relationship between the test fishery index and the annual escapement estimates from 1964 to 1986 (Table II.15).

In 1986 electrophoretic and parasite samples were taken in an attempt to test the feasibility of this technique for determining stock abundance and timing throughout the Nass test fishery. Table II.16 presents the results of the analysis of the electrophoretic samples.

B) Nass River Test Fishery

i) History

As the historical fishing patterns changed from entirely terminal type fisheries in the Nass estuary to a combination of estuarine and interception type fisheries in the outside portions of Areas 3 and 4 and S.S.E. Alaska, assessment of the Nass sockeye became very difficult. As a result a test fishing program was initiated in 1963 near the upriver fishing boundary in the Nass River to provide a daily index of sockeye escapement from the fishing area. Information from this operation, combined with catch estimates from the commercial fishery, provide a picture of the run as it returns. A more detailed description is presented in a Department of Fisheries and Forestry Technical Report 1970-10 by Todd and Dickson, November 1970.

Methodology

Test fishing has been conducted at the same location (Figure 1 of report) and with the same gear (net specifications below) each year since inception of the program.

Net Specifications:

Length -	100 fathoms made up of three equal sized panels in 4", 4 1/2", and 5" stretch mesh webbing.	
Webbing	- #23 Nylon, colour #10 (Amiloch Brand).	
Cork Line	- T4 small sockeye.	
Lead Line	- 180 lbs. for 200 fathoms, river line.	
Number of Mesh per panel (depth)	- 4"	- 50 mesh
	- 4 1/2"	- 45 mesh
	- 5"	- 40 mesh
Hanging specifications	- 2 1/2 to 1	

Fishing is conducted twice daily during the two slack tidal periods when river current is reduced to a minimum. Two sets of approximately 15 minutes in duration are made on each tide. The daily index of abundance is expressed as catch per 1,000 fathom minutes of fishing time which standardizes catches for daily variability in fishing time.

$$\text{Index} = \frac{\text{Catch} \times 1000}{\text{Net length} \times \text{Fishing time}}$$

All sockeye caught are measured (hypural and nose-fork length), sexed and scales sampled for determination of age and racial composition.

ii. Electrophoretic Analysis

The samples from 1982 - 1984 were assayed at 23 loci but only 4 of these were polymorphic. The similarity dendrogram in Figure II.22 based on Nei's unbiased genetic distance, illustrates the extent of genetic divergence among these stocks. Allele frequencies were significantly different among all samples ($P<0.005$, G test) except Damdochax and Bowser Lakes ($p<0.10$, G test). This implies that populations do not interbreed - otherwise they could not maintain the observed differences in allele frequency. Moreover, it seems unlikely that sockeye in Damdochax and Bowser Lakes interbreed considering their geographical separation. The fact that allele frequencies are very similar in these two populations does not imply that they do interbreed, merely that they have not diverged over time. The samples obtained in 1986 are being assayed at two additional polymorphic loci which may reveal new genetic differences between the Damdochax and Bowser Lake stocks. Unfortunately, these results are not yet available.

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TABLE II.1 NASS RIVER TEST FISHERY SOCKEYE INDICES 1963 TO 1968

	1963		1964		1965		1966		1967		1968	
DATE	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX
JUNE 1												
2												
3												
4												
5												
6												
7												
8												
9												
10	1.69	5.82										
11	1.43	7.25			0.63	0.63						
12	1.76	9.01			0.75	1.38			1.07	1.07	4.54	4.54
13	1.50	10.51			0.36	1.74	0.45	0.45	1.52	2.59	4.59	9.13
14	1.80	12.31			1.26	3.00	4.60	5.05	1.32	3.91	3.18	12.31
15	1.70	14.01			3.63	6.63	3.31	8.36	0.22	4.13	6.86	19.17
16	2.49	16.50	2.14	2.14	3.27	9.90	6.10	14.46	0.62	4.75	6.24	25.41
17	2.22	18.72	1.61	3.75	3.03	12.93	0.54	15.00	1.26	6.01	8.09	33.50
18	4.46	23.18	1.36	5.11	2.52	15.45	0.34	15.34	1.61	7.62	6.45	39.95
19	3.19	26.37	1.62	6.73	2.57	18.02	0.18	15.52	1.08	8.70	7.76	47.71
20	2.81	29.18	1.30	8.03	6.66	24.68	0.71	16.23	0.26	8.96	6.56	54.27
21	1.12	30.30	1.48	9.51	6.02	30.70	1.59	17.82		8.96	5.00	59.27
22	2.06	32.36	2.16	11.67	12.03	42.73	1.09	18.91		8.96	9.40	68.67
23	4.72	37.08	5.68	17.35	10.07	52.80	1.02	19.93		8.96	6.72	75.39
24	10.34	47.42	6.40	23.75	11.77	64.57	2.93	22.86		8.96	5.00	80.39
25	4.56	51.98	4.80	28.55	15.47	80.04	10.60	33.46		8.96	2.62	83.01
26	1.40	53.38	4.86	33.41	14.82	94.86	8.62	42.08		8.96		83.01
27	0.97	54.35	16.50	49.91	12.74	107.60	8.66	50.74	0.35	9.31	1.09	84.10
28	2.50	56.85	13.14	63.05	6.17	113.77	1.05	51.79	0.19	9.50	3.75	87.85
29	5.84	62.69	9.23	72.28	0.36	114.13	0.54	52.33	0.22	9.72	4.72	92.57
30	4.82	67.51	2.23	74.51	1.05	115.18	2.93	55.26	0.40	10.12	6.72	99.29
JULY 1	10.48	77.99	3.17	77.68	2.76	117.94	4.58	59.84	1.12	11.24	9.59	108.88
2	8.99	86.98	8.00	85.68	4.29	122.23	5.17	65.01	2.52	13.76	0.36	109.24
3	1.51	88.49	7.93	93.61	4.96	127.19	4.37	69.38	3.06	16.82	2.95	112.19
4	1.67	90.16	6.57	100.18	2.59	129.78	2.46	71.84	4.74	21.56	2.85	115.04
5	0.00	90.16	5.93	106.11	4.31	134.09	2.83	74.67	5.13	26.69	2.32	117.36
6	0.00	90.16	2.95	109.06	1.22	135.31	5.15	79.82	7.35	34.04	2.45	119.81
7	0.39	90.55	0.77	109.83	1.07	136.38	2.09	81.91	1.94	35.98	6.05	125.86
8	1.59	92.14	0.59	110.42	5.30	141.68	1.42	83.33	4.83	40.81	3.24	129.10
9	1.92	94.06	0.37	110.79	4.42	146.10	1.87	85.20	3.42	44.23	1.78	130.88
10	1.16	95.22	0.00	110.79	6.72	152.82	0.91	86.11	4.40	48.63	0.73	131.61
11	0.32	95.54	0.94	111.73	6.99	159.81	3.89	90.00	3.04	51.67	1.79	133.40
12	3.50	99.04	1.10	112.83	4.56	164.37	1.36	91.36	3.21	54.88	2.97	136.37
13	1.35	100.39	2.34	115.17	2.07	166.44	6.08	97.44	4.29	59.17	5.24	141.61
14	5.50	105.89	7.02	122.19	0.71	167.15	5.09	102.53	8.59	67.76	11.80	153.41
15	6.17	112.06	14.57	136.76	0.52	167.67	10.89	113.42	7.38	75.14	16.51	169.92
16	6.45	118.51	8.04	144.80	1.74	169.41	10.95	124.37	10.80	85.94	11.58	181.50
17	7.67	126.18	5.86	150.66	3.02	172.43	6.67	131.04	12.60	98.54	3.00	184.50
18	4.74	130.92	6.19	156.85	6.50	178.93	1.95	132.99	13.50	112.04	8.82	193.32
19	3.68	134.60	9.07	165.92	8.38	187.31	2.27	135.26	14.50	126.54	9.06	202.38
20	2.16	136.76	3.48	169.40	4.92	192.23	0.68	135.94	8.45	134.99	12.24	214.62
21	4.81	141.57	3.52	172.92	1.69	193.92	0.73	136.67	7.94	142.93	12.70	227.32
22	5.63	147.20	4.48	177.40	1.87	195.79	3.13	139.80	3.70	146.63	4.13	231.45
23	4.77	151.97	4.00	181.40	3.38	199.17	4.30	144.10	6.10	152.73	3.45	234.90

TABLE II.1 CONT. NASS RIVER TEST FISHERY SOCKEYE INDICES 1963 TO 1968

	1963		1964		1965		1966		1967		1968	
DATE	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX
JULY 24	2.89	154.86	2.73	184.13	3.83	203.00	6.34	150.44	4.63	157.36	4.66	239.56
25	6.49	161.35	2.33	186.46	3.41	206.41	6.61	157.05	3.87	161.23	7.63	247.19
26	5.75	167.10	7.61	194.07	7.33	213.74	3.83	160.88	4.76	165.99	11.04	258.23
27	5.09	172.19	12.83	206.90	0.96	214.70	3.30	164.18	2.57	168.56	4.10	262.33
28	3.58	175.77	8.25	215.15	0.45	215.15	4.92	169.10	2.13	170.69	2.93	265.26
29	6.93	182.70	3.17	218.32	0.33	215.48	2.86	171.96	2.97	173.66		
30			3.66	221.98	1.02	216.50	2.17	174.13	3.42	177.08		
31			5.19	227.17	1.27	217.77	1.75	175.88	2.93	180.01		
AUG 1			11.64	238.81	1.98	219.75	1.44	177.32	1.59	181.60		
2			4.37	243.18	2.38	222.13	3.45	180.77	0.34	181.94		
3			7.50	250.68	0.52	222.65	0.36	181.13	3.23	185.17		
4			5.99	256.67	0.00	222.65	0.00	181.13	3.05	188.22		
5			2.42	259.09	0.16	222.81	0.85	181.98	2.50	190.72		
6			3.23	262.32								
7			2.13	264.45								
8			0.94	265.39								
9			1.37	266.76								
10			2.17	268.93								
11			0.49	269.42								
12			0.31	269.73								

TABLE II.2 NASS RIVER TEST FISHERY SOCKEYE INDICES 1969 TO 1974

DATE	1969 DAILY INDEX	1969 CUM INDEX	1970 DAILY INDEX	1970 CUM INDEX	1971 DAILY INDEX	1971 CUM INDEX	1972 DAILY INDEX	1972 CUM INDEX	1973 DAILY INDEX	1973 CUM INDEX	1974 DAILY INDEX	1974 CUM INDEX
JUNE 1												
2												
3												
4									5.67	5.67	3.64	3.64
5							0.67	0.67	6.42	12.09	1.07	4.71
6							1.49	2.16	8.07	20.16	2.59	7.30
7					1.05	1.05	1.94	4.10	7.59	27.75	3.76	11.06
8			0.53	0.53	0.00	1.05	2.37	6.47	7.63	35.38	4.66	15.72
9			0.56	1.09	0.00	1.05	3.42	9.89	7.84	43.22	5.94	21.66
10			2.34	3.43	0.37	1.42	1.23	11.12	8.39	51.61	6.18	27.84
11			3.51	6.94	0.38	1.80	1.35	12.47	6.78	58.39	7.35	35.19
12			6.06	13.00	1.05	2.85		12.47	7.62	66.01	6.10	41.29
13			7.45	20.45	1.25	4.10	0.19	12.66	5.76	71.77	15.25	56.54
14			5.94	26.39	3.70	7.80	0.56	13.22	5.59	77.36	13.04	69.58
15			2.93	29.32	4.50	12.30		13.22	9.70	87.06	9.90	79.48
16			1.67	30.99	1.68	13.98	0.51	13.73	10.00	97.06	5.00	84.48
17			4.31	35.30	2.88	16.86	0.97	14.70	15.41	112.47	3.60	88.08
18			4.29	39.59	2.34	19.20	3.71	18.41	29.63	142.10	6.00	94.08
19	8.29	8.29	8.08	47.67	3.01	22.21	8.73	27.14	20.32	162.42	2.92	97.00
20	14.59	22.88	10.15	57.82	3.19	25.40	6.40	33.54	2.50	164.92	0.55	97.55
21	4.17	27.05	10.87	68.69	1.80	27.20	4.48	38.02	0.69	165.61	1.81	99.36
22	4.54	31.59	11.11	79.80	0.41	27.61	6.36	44.38	1.65	167.26	7.32	106.68
23	4.15	35.74	4.48	84.28	1.28	28.89	9.23	53.61	11.23	178.49	21.09	127.77
24	0.66	36.40	0.70	84.98	0.42	29.31	10.97	64.58	10.11	188.60	8.50	136.27
25	0.68	37.08	1.39	86.37	0.88	30.19	8.22	72.80	8.17	196.77	6.15	142.42
26	6.33	43.41	4.14	90.51	2.50	32.69	15.33	88.13	2.76	199.53	5.31	147.73
27	5.95	49.36	7.50	98.01	5.44	38.13	3.45	91.58	0.36	199.89	7.54	155.27
28	5.80	55.16	10.59	108.60	12.38	50.51	1.45	93.03	1.40	201.29	10.15	165.42
29	8.71	63.87	9.84	118.44	15.44	65.95	2.66	95.69	2.86	204.15	8.39	173.81
30	4.94	68.81	1.35	119.79	6.27	72.22	2.14	97.83	11.77	215.92	21.07	194.88
JULY 1	1.96	70.77	1.06	120.85	5.36	77.58	1.96	99.79	31.94	247.86	7.54	202.42
2	1.32	72.09	2.56	123.41	16.55	94.13	1.75	101.54	20.46	268.32	1.48	203.90
3	3.18	75.27	6.89	130.30	11.21	105.34	4.57	106.11	5.33	273.65	1.38	205.28
4	8.63	83.90	6.35	136.65	8.35	113.69	0.44	106.55	0.71	274.36	1.59	206.87
5	11.22	95.12	6.05	142.70	9.80	123.49	4.14	110.69	1.74	276.10	4.14	211.01
6	14.39	109.51	2.56	145.26	6.21	129.70	2.19	112.88	6.96	283.06	5.38	216.39
7	15.57	125.08	3.05	148.31	1.45	131.15	2.62	115.50	19.15	302.21	9.12	225.51
8	4.48	129.56	4.83	153.14	8.34	139.49	1.98	117.48	19.34	321.55	11.36	236.87
9	1.39	130.95	3.50	156.64	12.81	152.30	5.72	123.20	19.00	340.55	1.43	238.30
10	4.62	135.57	6.98	163.62	23.53	175.83	4.48	127.68	12.20	352.75	0.00	238.30
11	1.74	137.31	9.27	172.89	13.23	189.06	2.22	129.90	12.29	365.04	1.37	239.67
12	4.17	141.48	10.98	183.87	12.73	201.79	2.50	132.40	11.66	376.70	2.97	242.64
13	5.50	146.98	10.34	194.21	6.43	208.22	0.93	133.33	8.32	385.02	5.52	248.16
14	5.68	152.66	2.73	196.94	3.00	211.22	1.64	134.97	11.04	396.06	9.13	257.29
15	3.62	156.28	2.98	199.92	3.53	214.75	3.45	138.42	7.42	403.48	7.85	265.14
16	3.45	159.73	2.61	202.53	8.17	222.92	12.71	151.13	15.49	418.97	4.33	269.47
17	1.00	160.73	4.75	207.28	17.42	240.34	12.00	163.13	12.09	431.06	2.11	271.58
18	6.67	167.40	3.68	210.96	15.61	255.95	6.66	169.79	2.59	433.65	2.80	274.38
19	10.31	177.71	2.32	213.28	8.23	264.18	0.83	170.62	4.41	438.06	2.96	277.34
20	11.15	188.86	2.75	216.03	8.39	272.57	3.42	174.04	2.30	440.36	3.57	280.91
21	10.08	198.94	4.80	220.83	2.00	274.57	3.66	177.70	2.97	443.33	5.00	285.91
22	8.68	207.62	5.81	226.64	6.07	280.64	5.95	183.65	5.47	448.80	11.75	297.66
23	3.06	210.68	2.50	229.14	9.71	290.35	3.80	187.45	6.79	455.59	4.00	301.66

TABLE II.2 CONT. NASS RIVER TEST FISHERY SOCKEYE INDICES 1969 TO 1974

	1969		1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
DATE	INDEX	INDEX	INDEX	INDEX	INDEX	INDEX	INDEX	INDEX	INDEX	INDEX	INDEX	INDEX
JULY 24	1.34	212.02	5.73	234.87	4.74	295.09	6.50	193.95	4.58	460.17	2.67	304.33
25	3.00	215.02	14.14	249.01	7.66	302.75	5.81	199.76	2.33	462.50	3.88	308.21
26	7.55	222.57	8.10	257.11	10.60	313.35	2.14	201.90	3.83	466.33	3.56	311.77
27	4.44	227.01	5.95	263.06	9.23	322.58	1.56	203.46	6.61	472.94	4.13	315.90
28	5.59	232.60	5.38	268.44	13.82	336.40	7.24	210.70	5.44	478.38	3.79	319.69
29	6.15	238.75	11.48	279.92	14.08	350.48	10.33	221.03	10.18	488.56		
30	4.80	243.55	8.57	288.49	7.27	357.75	9.15	230.18				
31	5.05	248.60			5.20	362.95	5.00	235.18				
AUG 1	4.88	253.48										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

TABLE II.3 NASS RIVER TEST FISHERY SOCKEYE INDICES 1975 TO 1980

	1975		1976		1977		1978		1979		1980	
DATE	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX
JUNE 1												
2												
3												
4	1.96	1.96	4.44	4.44	5.21	5.21	7.11	7.11	0.00	0.00	3.05	5.18
5	0.48	2.44	3.73	8.17	7.27	12.48	6.05	13.16	0.00	0.00	2.80	7.98
6	0.99	3.43	3.57	11.74	9.09	21.57	3.79	16.95	0.57	0.57	0.00	7.98
7	0.70	4.13	4.24	15.98	8.96	30.53	6.67	23.62	0.60	1.17	0.00	7.98
8	1.58	5.71	2.43	18.41	10.34	40.87	5.17	28.79	2.50	3.67	1.14	9.12
9	2.91	8.62	2.78	21.19	10.62	51.49	2.18	30.97	1.92	5.59	1.43	10.55
10	3.21	11.83	3.98	25.17	17.92	69.41	9.14	40.11	4.28	9.87	1.78	12.33
11	6.77	18.60	3.69	28.86	21.74	91.15	12.17	52.28	5.66	15.53	2.50	14.83
12	6.96	25.56	5.00	33.86	42.14	133.29	17.26	69.54	8.44	23.97	2.60	17.43
13	6.89	32.45	11.56	45.42	37.08	170.37	1.11	70.65	2.50	26.47	4.44	21.87
14	7.50	39.95	19.85	65.27	24.72	195.09	1.48	72.13	2.86	29.33	3.52	25.39
15	7.63	47.58	21.18	86.45	23.16	218.25	7.92	80.05	5.52	34.85	3.64	29.03
16	6.13	53.71	21.82	108.27	9.56	227.81	10.97	91.02	4.76	39.61	8.77	37.80
17	7.42	61.13	11.00	119.27	2.59	230.40	18.36	109.38	6.44	46.05	11.00	48.80
18	8.00	69.13	6.55	125.82	2.68	233.08	17.92	127.30	6.73	52.78	13.79	62.59
19	8.94	78.07	3.46	129.28	9.00	242.08	5.46	132.76	2.92	55.70	7.24	69.83
20	8.57	86.64	3.82	133.10	13.87	255.95	1.38	134.14	1.03	56.73	6.52	76.35
21	6.12	92.76	3.87	136.97	3.22	259.17	2.80	136.94	3.22	59.95	4.88	81.23
22	8.87	101.63	0.00	136.97	2.59	261.76	6.43	143.37	5.89	65.84	6.36	87.59
23	6.11	107.74	1.11	138.08	4.00	265.76	7.82	151.19	9.66	75.50	7.60	95.19
24	2.92	110.66	2.13	140.21	1.82	267.58	8.31	159.50	10.67	86.17	6.36	101.55
25	0.71	111.37	9.64	149.85	11.07	278.65	7.14	166.64	11.33	97.50	5.42	106.97
26	2.03	113.40	5.61	155.46	12.41	291.06	4.04	170.68	7.00	104.50	7.93	114.90
27	5.26	118.66	9.83	165.29	12.86	303.92	1.48	172.16	2.50	107.00	4.90	119.80
28	9.18	127.84	3.93	169.22	2.86	306.78	5.52	177.68	3.51	110.51	4.81	124.61
29	5.52	133.36	1.48	170.70	1.43	308.21	4.81	182.49	2.14	112.65	7.68	132.29
30	4.28	137.64	0.83	171.53	1.88	310.09	9.14	191.63	3.75	116.40	8.08	140.37
JULY 1	2.50	140.14	0.00	171.53	2.18	312.27	9.11	200.74	6.43	122.83	6.29	146.66
2	0.45	140.59	0.00	171.53	9.31	321.58	3.26	204.00	6.14	128.97	3.93	150.59
3	0.00	140.59	0.21	171.74	10.52	332.10	6.73	210.73	5.77	134.74	9.64	160.23
4	0.00	140.59	0.00	171.74	6.32	338.42	1.11	211.84	2.92	137.66	8.28	168.51
5	0.00	140.59	4.33	176.07	2.85	341.27	1.85	213.69	6.83	144.49	4.26	172.77
6	1.25	141.84	0.00	176.07	2.85	344.12	3.38	217.07	8.75	153.24	3.39	176.16
7	0.60	142.44	0.40	176.47	1.73	345.85	2.80	219.87	7.72	160.96	8.78	184.94
8	0.72	143.16	0.20	176.67	6.36	352.21	4.39	224.26	4.64	165.60	4.37	189.31
9	0.00	143.16	1.09	177.76	10.10	362.31	4.18	228.44	2.85	168.45	1.54	190.85
10	0.36	143.52	2.00	179.76	8.10	370.41	4.56	233.00	5.34	173.79	1.66	192.51
11	0.00	143.52	2.50	182.26	10.50	380.91	2.50	235.50	3.45	177.24	1.88	194.39
12	0.88	144.40	2.41	184.67	5.35	386.26	1.92	237.42	4.91	182.15	0.96	195.35
13	0.18	144.58	2.14	186.81	2.14	388.40	0.62	238.04	4.07	186.22	2.20	197.55
14	2.14	146.72	4.07	190.88	0.70	389.10	2.79	240.83	5.00	191.22	3.08	200.63
15	4.48	151.20	5.18	196.06	1.25	390.35	3.15	243.98	7.08	198.30	1.73	202.36
16	4.33	155.53	6.14	202.20	4.14	394.49	2.18	246.16	8.17	206.47	3.08	205.44
17	2.30	157.83	4.56	206.76	5.17	399.66	2.74	248.90	5.17	211.64	8.21	213.65
18	3.28	161.11	7.21	213.97	6.55	406.21	2.96	251.86	4.48	216.12	3.78	217.43
19	6.27	167.38	6.96	220.93	4.28	410.49	2.31	254.17	2.55	218.67	1.67	219.10
20	5.08	172.46	6.43	227.36	3.10	413.59	1.86	256.03	3.79	222.46	3.72	222.82
21	5.97	178.43	7.14	234.50	2.63	416.22	3.93	259.96	4.83	227.29	5.71	228.53
22	6.00	184.43	5.00	239.50	6.38	422.60	2.14	262.10	3.18	230.47	6.94	235.47
23	9.03	193.46	9.35	248.85	6.41	429.01	1.85	263.95	6.66	237.13	7.22	242.69

TABLE II.3 CONT. NASS RIVER TEST FISHERY SOCKEYE INDICES 1975 TO 1980

	1975		1976		1977		1978		1979		1980	
DATE	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX
JULY 24	4.00	197.46	5.19	254.04	14.83	443.84	2.11	266.06	6.33	243.46	3.04	245.73
25	1.96	199.42	10.49	264.53	4.74	448.58	1.48	267.54	8.62	252.08	1.70	247.43
26	3.50	202.92	1.48	266.01	2.14	450.72	0.69	268.23	8.50	260.58	1.13	248.56
27	2.88	205.80	5.48	271.49	7.50	458.22	0.73	268.96	7.61	268.19	4.28	252.84
28	3.65	209.45	4.08	275.57	2.32	460.54	0.74	269.70	9.19	277.38		
29	6.31	215.76	8.83	284.40	5.74	466.28			7.18	284.56		
30			9.36	293.76								
31			10.00	303.76								
AUG 1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

TABLE II.4 NASS RIVER TEST FISHERY SOCKEYE INDICES 1981 TO 1986

	1981		1982		1983		1984		1985		1986	
DATE	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX
JUNE 1												
2												
3											0.16	0.16
4	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.16
5	1.33	1.33	0.17	0.17	0.00	0.00	2.14	2.14			0.00	0.16
6	2.08	3.41	3.21	3.38	0.00	0.00	2.41	4.55			0.00	0.16
7	1.43	4.84	3.77	7.15	0.93	0.93	1.29	5.84			0.00	0.16
8	2.44	7.28	4.07	11.22	2.04	2.97	0.90	6.74			0.00	0.16
9	2.56	9.84	6.17	17.39	0.57	3.54	1.85	8.59	1.94	16.78	0.00	0.16
10	3.71	13.55	12.69	30.08	0.93	4.47	5.46	14.05	1.60	18.38	0.00	0.16
11	4.47	18.02	10.95	41.03	1.66	6.13	2.41	16.46	0.49	18.87	0.00	0.16
12	6.86	24.88	2.77	43.80	4.46	10.59	4.07	20.53	1.29	20.16	0.00	0.16
13	6.05	30.93	1.00	44.80	2.59	13.18	3.89	24.42	0.37	20.53	0.60	0.76
14	6.05	36.98	0.59	45.39	3.93	17.11	3.70	28.12	2.50	23.03	1.19	1.95
15	7.04	44.02	1.89	47.28	5.13	22.24	7.54	35.66	3.17	26.20	1.03	2.98
16	6.20	50.22	3.19	50.47	6.33	28.57	8.98	44.64	2.91	29.11	0.18	3.16
17	1.33	51.55	4.48	54.95	4.47	33.04	6.61	51.25	5.52	34.63	0.97	4.13
18	5.30	56.85	8.65	63.60	5.52	38.56	4.83	56.08	7.21	41.84	2.62	6.75
19	2.37	59.22	11.77	75.37	9.32	47.88	9.43	65.51	6.11	47.95	5.22	11.97
20	5.36	64.58	17.30	92.67	6.67	54.55	9.87	75.38	5.00	52.95	3.12	15.09
21	12.00	76.58	12.81	105.48	5.34	59.89	10.31	85.69	7.10	60.05	1.02	16.11
22	15.71	92.29	5.71	111.19	3.93	63.82	6.50	92.19	8.50	68.55	3.06	19.17
23	2.68	94.97	7.68	118.87	3.57	67.39	4.61	96.80	6.24	74.79	4.00	23.17
24	1.89	96.86	9.65	128.52	3.21	70.60	3.87	100.67	11.53	86.32	4.13	27.30
25	5.26	102.12	14.19	142.71	5.00	75.60	0.00	100.67	12.55	98.87	3.21	30.51
26	8.83	110.95	21.82	164.53	2.85	78.45	0.00	100.67	15.29	114.16	3.81	34.32
27	10.64	121.59	16.66	181.19	5.83	84.28	1.04	101.71	10.81	124.97	6.62	40.94
28	11.93	133.52	15.64	196.83	10.97	95.25	2.08	103.79	6.33	131.30	9.43	50.37
29	16.66	150.18	12.26	209.09	5.00	100.25	2.96	106.75	10.99	142.29	12.63	63.00
30	15.87	166.05	9.88	218.97	5.61	105.86	9.26	116.01	3.70	145.99	9.55	72.55
JULY 1	10.17	176.22	7.00	225.97	6.21	112.07	5.29	121.30	0.00	145.99	13.42	85.97
2	5.56	181.78	9.50	235.47	10.98	123.05	17.35	138.65	2.67	148.66	10.27	96.24
3	9.68	191.46	8.98	244.45	9.51	132.56	15.00	153.65	4.19	152.85	8.53	104.77
4	12.00	203.46	6.44	250.89	11.97	144.53	11.12	164.77	6.00	158.85	8.54	113.31
5	10.83	214.29	6.38	257.27	11.45	155.98	7.24	172.01	7.81	166.66	8.54	121.85
6	9.47	223.76	3.10	260.37	9.33	165.31	8.62	180.63	12.55	179.21	5.67	127.52
7	11.93	235.69	4.77	265.14	7.63	172.94	7.19	187.82	14.17	193.38	3.69	131.21
8	2.19	237.88	6.43	271.57	5.93	178.87	7.02	194.84	15.21	208.59	0.63	131.84
9	0.89	238.77	1.96	273.53	4.11	182.98	5.19	200.03	16.58	225.17	3.88	135.72
10	2.83	241.60	11.36	284.89	2.98	185.96	5.37	205.40	4.67	229.84	3.13	138.85
11	3.33	244.93	17.83	302.72	3.16	189.12	5.54	210.94	6.86	236.70	4.45	143.30
12	6.11	251.04	9.67	312.39	5.92	195.04	7.33	218.27	9.06	245.76	5.76	149.06
13	10.97	262.01	0.73	313.12	5.32	200.36	4.65	222.92	11.25	257.01	11.23	160.29
14	7.64	269.65	3.20	316.32	6.16	206.52	11.23	234.15	13.88	270.89	9.93	170.22
15	6.55	276.20	5.66	321.98	7.00	213.52	9.12	243.27	14.13	285.02	5.04	175.26
16	7.03	283.23	5.08	327.06	7.46	220.98	9.17	252.44	8.00	293.02	0.64	175.90
17	8.97	292.20	9.49	336.55	8.18	229.16	9.33	261.77	8.75	301.77	1.69	177.59
18	8.59	300.79	10.48	347.03	7.03	236.19	6.39	268.16	8.98	310.75	2.92	180.51
19	7.12	307.91	11.67	358.70	8.19	244.38	3.45	271.61	9.21	319.96	4.15	184.66
20	4.92	312.83	11.00	369.70	4.51	248.89	6.45	278.06	14.00	333.96	15.24	199.90
21	10.65	323.48	8.34	378.04	3.12	252.01	9.18	287.24	14.30	348.26	8.73	208.63
22	6.33	329.81	5.67	383.71	1.72	253.73	10.97	298.21	11.01	359.27	10.34	218.97
23	10.32	340.13	6.89	390.60	1.97	255.70	5.34	303.55	10.79	370.06	3.75	222.72

TABLE II.4 CONT. NASS RIVER TEST FISHERY SOCKEYE INDICES 1981 TO 1986

	1981		1982		1983		1984		1985		1986	
DATE	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX	DAILY INDEX	CUM INDEX
JULY 24	9.63	349.76	8.33	398.93	3.28	258.98	1.97	305.52	5.48	375.54	3.54	226.26
25	8.28	358.04	6.50	405.43	5.71	264.69	3.09	308.61	6.71	382.25	3.33	229.59
26	15.28	373.32	7.66	413.09	5.93	270.62	4.21	312.82	5.53	387.78	3.12	232.71
27	14.06	387.38	8.39	421.48	0.94	271.56	2.30	315.12	5.95	393.73	6.47	239.18
28			5.74	427.22	1.31	272.87	0.93	316.05	7.90	401.63	11.24	250.42
29					1.02	273.89	2.58	318.63	9.94	411.57	5.56	255.98
30					4.12	278.01	2.14	320.77	3.26	414.83	1.82	257.80
31					6.89	284.90	0.74	321.51	1.56	416.39	2.51	260.31
AUG 1											3.20	263.51
2											3.88	267.39
3											3.33	270.72
4											4.00	274.72
5											3.69	278.41
6											1.57	279.98
7												
8												
9												
10												
11												
12												

TABLE II.5 PERCENT OF ESCAPEMENT THROUGH TEST FISHERY BY DATE

DATE	1963 DAILY PERCENT	1963 CUM PERCENT	1964 DAILY PERCENT	1964 CUM PERCENT	1965 DAILY PERCENT	1965 CUM PERCENT	1966 DAILY PERCENT	1966 CUM PERCENT	1967 DAILY PERCENT	1967 CUM PERCENT	1968 DAILY PERCENT	1968 CUM PERCENT
JUNE 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.93	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.78	3.97	0.00	0.00	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00
12	0.96	4.93	0.00	0.00	0.34	0.62	0.00	0.00	0.56	0.56	1.71	1.71
13	0.82	5.75	0.00	0.00	0.16	0.78	0.25	0.25	0.80	1.36	1.73	3.44
14	0.99	6.74	0.00	0.00	0.57	1.35	2.53	2.78	0.69	2.05	1.20	4.64
15	0.93	7.67	0.00	0.00	1.63	2.98	1.82	4.59	0.12	2.17	2.59	7.23
16	1.36	9.03	0.79	0.79	1.47	4.44	3.35	7.95	0.33	2.49	2.35	9.58
17	1.22	10.25	0.60	1.39	1.36	5.80	0.30	8.24	0.66	3.15	3.05	12.63
18	2.44	12.69	0.50	1.89	1.13	6.93	0.19	8.43	0.84	4.00	2.43	15.06
19	1.75	14.43	0.60	2.50	1.15	8.09	0.10	8.53	0.57	4.56	2.93	17.99
20	1.54	15.97	0.48	2.98	2.99	11.08	0.39	8.92	0.14	4.70	2.47	20.46
21	0.61	16.58	0.55	3.53	2.70	13.78	0.87	9.79	0.00	4.70	1.88	22.34
22	1.13	17.71	0.80	4.33	5.40	19.18	0.60	10.39	0.00	4.70	3.54	25.89
23	2.58	20.30	2.11	6.43	4.52	23.70	0.56	10.95	0.00	4.70	2.53	28.42
24	5.66	25.96	2.37	8.81	5.28	28.98	1.61	12.56	0.00	4.70	1.88	30.31
25	2.50	28.45	1.78	10.58	6.94	35.92	5.82	18.39	0.00	4.70	0.99	31.29
26	0.77	29.22	1.80	12.39	6.65	42.57	4.74	23.12	0.00	4.70	0.00	31.29
27	0.53	29.75	6.12	18.50	5.72	48.29	4.76	27.88	0.18	4.88	0.41	31.70
28	1.37	31.12	4.87	23.38	2.77	51.06	0.58	28.46	0.10	4.98	1.41	33.12
29	3.20	34.31	3.42	26.80	0.16	51.22	0.30	28.76	0.12	5.10	1.78	34.90
30	2.64	36.95	0.83	27.62	0.47	51.69	1.61	30.37	0.21	5.31	2.53	37.43
JULY 1	5.74	42.69	1.18	28.80	1.24	52.93	2.52	32.88	0.59	5.89	3.62	41.05
2	4.92	47.61	2.97	31.77	1.93	54.86	2.84	35.72	1.32	7.21	0.14	41.18
3	0.83	48.43	2.94	34.71	2.23	57.08	2.40	38.13	1.60	8.82	1.11	42.29
4	0.91	49.35	2.44	37.14	1.16	58.25	1.35	39.48	2.49	11.30	1.07	43.37
5	0.00	49.35	2.20	39.34	1.93	60.18	1.56	41.03	2.69	13.99	0.87	44.24
6	0.00	49.35	1.09	40.43	0.55	60.73	2.83	43.86	3.85	17.85	0.92	45.17
7	0.21	49.56	0.29	40.72	0.48	61.21	1.15	45.01	1.02	18.87	2.28	47.45
8	0.87	50.43	0.22	40.94	2.38	63.59	0.78	45.79	2.53	21.40	1.22	48.67
9	1.05	51.48	0.14	41.07	1.98	65.57	1.03	46.82	1.79	23.19	0.67	49.34
10	0.63	52.12	0.00	41.07	3.02	68.59	0.50	47.32	2.31	25.50	0.28	49.62
11	0.18	52.29	0.35	41.42	3.14	71.72	2.14	49.46	1.59	27.09	0.67	50.29
12	1.92	54.21	0.41	41.83	2.05	73.77	0.75	50.20	1.68	28.78	1.12	51.41
13	0.74	54.95	0.87	42.70	0.93	74.70	3.34	53.54	2.25	31.02	1.98	53.39
14	3.01	57.96	2.60	45.30	0.32	75.02	2.80	56.34	4.50	35.53	4.45	57.83
15	3.38	61.34	5.40	50.70	0.23	75.25	5.98	62.33	3.87	39.40	6.22	64.06
16	3.53	64.87	2.98	53.68	0.78	76.03	6.02	68.34	5.66	45.06	4.37	68.42
17	4.20	69.06	2.17	55.86	1.36	77.39	3.67	72.01	6.61	51.67	1.13	69.55
18	2.59	71.66	2.29	58.15	2.92	80.31	1.07	73.08	7.08	58.75	3.33	72.88
19	2.01	73.67	3.36	61.51	3.76	84.07	1.25	74.33	7.60	66.35	3.42	76.29
20	1.18	74.85	1.29	62.80	2.21	86.28	0.37	74.70	4.43	70.78	4.61	80.91
21	2.63	77.49	1.31	64.11	0.76	87.03	0.40	75.10	4.16	74.94	4.79	85.70
22	3.08	80.57	1.66	65.77	0.84	87.87	1.72	76.82	1.94	76.88	1.56	87.25
23	2.61	83.18	1.48	67.25	1.52	89.39	2.36	79.18	3.20	80.08	1.30	88.55

TABLE II.5 CONT. PERCENT OF ESCAPEMENT THROUGH TEST FISHERY BY DATE

DATE	1963 DAILY PERCENT	1963 CUM PERCENT	1964 DAILY PERCENT	1964 CUM PERCENT	1965 DAILY PERCENT	1965 CUM PERCENT	1966 DAILY PERCENT	1966 CUM PERCENT	1967 DAILY PERCENT	1967 CUM PERCENT	1968 DAILY PERCENT	1968 CUM PERCENT
JULY 24	1.58	84.76	1.01	68.26	1.72	91.11	3.48	82.67	2.43	82.51	1.76	90.31
25	3.55	88.31	0.86	69.13	1.53	92.64	3.63	86.30	2.03	84.54	2.88	93.19
26	3.15	91.46	2.82	71.95	3.29	95.93	2.10	88.41	2.50	87.03	4.16	97.35
27	2.79	94.25	4.76	76.71	0.43	96.36	1.81	90.22	1.35	88.38	1.55	98.90
28	1.96	96.21	3.06	79.76	0.20	96.56	2.70	92.92	1.12	89.50	1.10	100.00
29	3.79	100.00	1.18	80.94	0.15	96.71	1.57	94.49	1.56	91.05	0.00	100.00
30	0.00	100.00	1.36	82.30	0.46	97.17	1.19	95.69	1.79	92.85	0.00	100.00
31	0.00	100.00	1.92	84.22	0.57	97.74	0.96	96.65	1.54	94.38	0.00	100.00
AUG 1	0.00	100.00	4.32	88.54	0.89	98.63	0.79	97.44	0.83	95.22	0.00	100.00
2	0.00	100.00	1.62	90.16	1.07	99.69	1.90	99.34	0.18	95.40	0.00	100.00
3	0.00	100.00	2.78	92.94	0.23	99.93	0.20	99.53	1.69	97.09	0.00	100.00
4	0.00	100.00	2.22	95.16	0.00	99.93	0.00	99.53	1.60	98.69	0.00	100.00
5	0.00	100.00	0.90	96.06	0.07	100.00	0.47	100.00	1.31	100.00	0.00	100.00
6	0.00	100.00	1.20	97.25	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
7	0.00	100.00	0.79	98.04	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
8	0.00	100.00	0.35	98.39	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
9	0.00	100.00	0.51	98.90	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
10	0.00	100.00	0.80	99.70	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
11	0.00	100.00	0.18	99.89	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
12	0.00	100.00	0.11	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00

TABLE II.6 PERCENT OF ESCAPEMENT THROUGH TEST FISHERY BY DATE

DATE	1969 DAILY PERCENT	1969 CUM PERCENT	1970 DAILY PERCENT	1970 CUM PERCENT	1971 DAILY PERCENT	1971 CUM PERCENT	1972 DAILY PERCENT	1972 CUM PERCENT	1973 DAILY PERCENT	1973 CUM PERCENT	1974 DAILY PERCENT	1974 CUM PERCENT
JUNE 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	1.16	1.14	1.14
5	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.28	1.31	2.47	0.33	1.47
6	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.92	1.65	4.13	0.81	2.28
7	0.00	0.00	0.00	0.00	0.29	0.29	0.82	1.74	1.55	5.68	1.18	3.46
8	0.00	0.00	0.18	0.18	0.00	0.29	1.01	2.75	1.56	7.24	1.46	4.92
9	0.00	0.00	0.19	0.38	0.00	0.29	1.45	4.21	1.60	8.85	1.86	6.78
10	0.00	0.00	0.81	1.19	0.10	0.39	0.52	4.73	1.72	10.56	1.93	8.71
11	0.00	0.00	1.22	2.41	0.10	0.50	0.57	5.30	1.39	11.95	2.30	11.01
12	0.00	0.00	2.10	4.51	0.29	0.79	0.00	5.30	1.56	13.51	1.91	12.92
13	0.00	0.00	2.58	7.09	0.34	1.13	0.08	5.38	1.18	14.69	4.77	17.69
14	0.00	0.00	2.06	9.15	1.02	2.15	0.24	5.62	1.14	15.83	4.08	21.76
15	0.00	0.00	1.02	10.16	1.24	3.39	0.00	5.62	1.99	17.82	3.10	24.86
16	0.00	0.00	0.58	10.74	0.46	3.85	0.22	5.84	2.05	19.87	1.56	26.43
17	0.00	0.00	1.49	12.24	0.79	4.65	0.41	6.25	3.15	23.02	1.13	27.55
18	0.00	0.00	1.49	13.72	0.64	5.29	1.58	7.83	6.06	29.09	1.88	29.43
19	3.27	3.27	2.80	16.52	0.83	6.12	3.71	11.54	4.16	33.24	0.91	30.34
20	5.76	9.03	3.52	20.04	0.88	7.00	2.72	14.26	0.51	33.76	0.17	30.51
21	1.65	10.67	3.77	23.81	0.50	7.49	1.90	16.17	0.14	33.90	0.57	31.08
22	1.79	12.46	3.85	27.66	0.11	7.61	2.70	18.87	0.34	34.24	2.29	33.37
23	1.64	14.10	1.55	29.21	0.35	7.96	3.92	22.80	2.30	36.53	6.60	39.97
24	0.26	14.36	0.24	29.46	0.12	8.08	4.66	27.46	2.07	38.60	2.66	42.63
25	0.27	14.63	0.48	29.94	0.24	8.32	3.50	30.96	1.67	40.28	1.92	44.55
26	2.50	17.13	1.44	31.37	0.69	9.01	6.52	37.47	0.56	40.84	1.66	46.21
27	2.35	19.47	2.60	33.97	1.50	10.51	1.47	38.94	0.07	40.91	2.36	48.57
28	2.29	21.76	3.67	37.64	3.41	13.92	0.62	39.56	0.29	41.20	3.17	51.74
29	3.44	25.20	3.41	41.06	4.25	18.17	1.13	40.69	0.59	41.79	2.62	54.37
30	1.95	27.15	0.47	41.52	1.73	19.90	0.91	41.60	2.41	44.20	6.59	60.96
JULY 1	0.77	27.92	0.37	41.89	1.48	21.37	0.83	42.43	6.54	50.73	2.36	63.32
2	0.52	28.44	0.89	42.78	4.56	25.93	0.74	43.18	4.19	54.92	0.46	63.78
3	1.25	29.69	2.39	45.17	3.09	29.02	1.94	45.12	1.09	56.01	0.43	64.21
4	3.40	33.10	2.20	47.37	2.30	31.32	0.19	45.31	0.15	56.16	0.50	64.71
5	4.43	37.53	2.10	49.46	2.70	34.02	1.76	47.07	0.36	56.51	1.30	66.00
6	5.68	43.20	0.89	50.35	1.71	35.73	0.93	48.00	1.42	57.94	1.68	67.69
7	6.14	49.35	1.06	51.41	0.40	36.13	1.11	49.11	3.92	61.86	2.85	70.54
8	1.77	51.11	1.67	53.08	2.30	38.43	0.84	49.95	3.96	65.82	3.55	74.09
9	0.55	51.66	1.21	54.30	3.53	41.96	2.43	52.39	3.89	69.70	0.45	74.54
10	1.82	53.48	2.42	56.72	6.48	48.44	1.90	54.29	2.50	72.20	0.00	74.54
11	0.69	54.17	3.21	59.93	3.65	52.09	0.94	55.23	2.52	74.72	0.43	74.97
12	1.65	55.82	3.81	63.74	3.51	55.60	1.06	56.30	2.39	77.10	0.93	75.90
13	2.17	57.98	3.58	67.32	1.77	57.37	0.40	56.69	1.70	78.81	1.73	77.63
14	2.24	60.23	0.95	68.27	0.83	58.20	0.70	57.39	2.26	81.07	2.86	80.48
15	1.43	61.65	1.03	69.30	0.97	59.17	1.47	58.86	1.52	82.59	2.46	82.94
16	1.36	63.01	0.90	70.20	2.25	61.42	5.40	64.26	3.17	85.76	1.35	84.29
17	0.39	63.41	1.65	71.85	4.80	66.22	5.10	69.36	2.47	88.23	0.66	84.95
18	2.63	66.04	1.28	73.13	4.30	70.52	2.83	72.19	0.53	88.76	0.88	85.83
19	4.07	70.11	0.80	73.93	2.27	72.79	0.35	72.55	0.90	89.66	0.93	86.75
20	4.40	74.51	0.95	74.88	2.31	75.10	1.45	74.00	0.47	90.13	1.12	87.87
21	3.98	78.48	1.66	76.55	0.55	75.65	1.56	75.56	0.61	90.74	1.56	89.43
22	3.42	81.91	2.01	78.56	1.67	77.32	2.53	78.09	1.12	91.86	3.68	93.11
23	1.21	83.12	0.87	79.43	2.68	80.00	1.62	79.70	1.39	93.25	1.25	94.36

TABLE II.6 CONT. PERCENT OF ESCAPEMENT THROUGH TEST FISHERY BY DATE

	1969		1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
DATE	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
24	0.53	83.64	1.99	81.41	1.31	81.30	2.76	82.47	0.94	94.19	0.84	95.20
25	1.18	84.83	4.90	86.31	2.11	83.41	2.47	84.94	0.48	94.67	1.21	96.41
26	2.98	87.81	2.81	89.12	2.92	86.33	0.91	85.85	0.78	95.45	1.11	97.52
27	1.75	89.56	2.06	91.19	2.54	88.88	0.66	86.51	1.35	96.80	1.29	98.81
28	2.21	91.76	1.86	93.05	3.81	92.68	3.08	89.59	1.11	97.92	1.19	100.00
29	2.43	94.19	3.98	97.03	3.88	96.56	4.39	93.98	2.08	100.00	0.00	100.00
30	1.89	96.08	2.97	100.00	2.00	98.57	3.89	97.87	0.00	100.00	0.00	100.00
31	1.99	98.07	0.00	100.00	1.43	100.00	2.13	100.00	0.00	100.00	0.00	100.00
AUG 1	1.93	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
2	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
3	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
4	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
5	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
6	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
7	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
8	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
9	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
10	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
11	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
12	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00

TABLE II.7 PERCENT OF ESCAPEMENT THROUGH TEST FISHERY BY DATE

DATE	1975 DAILY PERCENT	1975 CUM PERCENT	1976 DAILY PERCENT	1976 CUM PERCENT	1977 DAILY PERCENT	1977 CUM PERCENT	1978 DAILY PERCENT	1978 CUM PERCENT	1979 DAILY PERCENT	1979 CUM PERCENT	1980 DAILY PERCENT	1980 CUM PERCENT
JUNE 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.91	0.91	1.46	1.46	1.12	1.12	2.64	2.64	0.00	0.00	1.21	2.05
5	0.22	1.13	1.23	2.69	1.56	2.68	2.24	4.88	0.00	0.00	1.11	3.16
6	0.46	1.59	1.18	3.86	1.95	4.63	1.41	6.28	0.20	0.20	0.00	3.16
7	0.32	1.91	1.40	5.26	1.92	6.55	2.47	8.76	0.21	0.41	0.00	3.16
8	0.73	2.65	0.80	6.06	2.22	8.77	1.92	10.67	0.88	1.29	0.45	3.61
9	1.35	4.00	0.92	6.98	2.28	11.04	0.81	11.48	0.67	1.96	0.57	4.17
10	1.49	5.48	1.31	8.29	3.84	14.89	3.39	14.87	1.50	3.47	0.70	4.88
11	3.14	8.62	1.21	9.50	4.66	19.55	4.51	19.38	1.99	5.46	0.99	5.87
12	3.23	11.85	1.65	11.15	9.04	28.59	6.40	25.78	2.97	8.42	1.03	6.89
13	3.19	15.04	3.81	14.95	7.95	36.54	0.41	26.20	0.88	9.30	1.76	8.65
14	3.48	18.52	6.53	21.49	5.30	41.84	0.55	26.74	1.01	10.31	1.39	10.04
15	3.54	22.05	6.97	28.46	4.97	46.81	2.94	29.68	1.94	12.25	1.44	11.48
16	2.84	24.89	7.18	35.64	2.05	48.86	4.07	33.75	1.67	13.92	3.47	14.95
17	3.44	28.33	3.62	39.26	0.56	49.41	6.81	40.56	2.26	16.18	4.35	19.30
18	3.71	32.04	2.16	41.42	0.57	49.99	6.64	47.20	2.37	18.55	5.45	24.75
19	4.14	36.18	1.14	42.56	1.93	51.92	2.02	49.23	1.03	19.57	2.86	27.62
20	3.97	40.16	1.26	43.82	2.97	54.89	0.51	49.74	0.36	19.94	2.58	30.20
21	2.84	42.99	1.27	45.09	0.69	55.58	1.04	50.77	1.13	21.07	1.93	32.13
22	4.11	47.10	0.00	45.09	0.56	56.14	2.38	53.16	2.07	23.14	2.52	34.64
23	2.83	49.94	0.37	45.46	0.86	57.00	2.90	56.06	3.39	26.53	3.01	37.65
24	1.35	51.29	0.70	46.16	0.39	57.39	3.08	59.14	3.75	30.28	2.52	40.16
25	0.33	51.62	3.17	49.33	2.37	59.76	2.65	61.79	3.98	34.26	2.14	42.31
26	0.94	52.56	1.85	51.18	2.66	62.42	1.50	63.29	2.46	36.72	3.14	45.44
27	2.44	55.00	3.24	54.41	2.76	65.18	0.55	63.83	0.88	37.60	1.94	47.38
28	4.25	59.25	1.29	55.71	0.61	65.79	2.05	65.88	1.23	38.84	1.90	49.28
29	2.56	61.81	0.49	56.20	0.31	66.10	1.78	67.66	0.75	39.59	3.04	52.32
30	1.98	63.79	0.27	56.47	0.40	66.50	3.39	71.05	1.32	40.91	3.20	55.52
JULY 1	1.16	64.95	0.00	56.47	0.47	66.97	3.38	74.43	2.26	43.16	2.49	58.01
2	0.21	65.16	0.00	56.47	2.00	68.97	1.21	75.64	2.16	45.32	1.55	59.56
3	0.00	65.16	0.07	56.54	2.26	71.22	2.50	78.13	2.03	47.35	3.81	63.37
4	0.00	65.16	0.00	56.54	1.36	72.58	0.41	78.55	1.03	48.38	3.27	66.65
5	0.00	65.16	1.43	57.96	0.61	73.19	0.69	79.23	2.40	50.78	1.68	68.33
6	0.58	65.74	0.00	57.96	0.61	73.80	1.25	80.49	3.07	53.85	1.34	69.67
7	0.28	66.02	0.13	58.10	0.37	74.17	1.04	81.52	2.71	56.56	3.47	73.15
8	0.33	66.35	0.07	58.16	1.36	75.54	1.63	83.15	1.63	58.20	1.73	74.87
9	0.00	66.35	0.36	58.52	2.17	77.70	1.55	84.70	1.00	59.20	0.61	75.48
10	0.17	66.52	0.66	59.18	1.74	79.44	1.69	86.39	1.88	61.07	0.66	76.14
11	0.00	66.52	0.82	60.00	2.25	81.69	0.93	87.32	1.21	62.29	0.74	76.88
12	0.41	66.93	0.79	60.79	1.15	82.84	0.71	88.03	1.73	64.01	0.38	77.26
13	0.08	67.01	0.70	61.50	0.46	83.30	0.23	88.26	1.43	65.44	0.87	78.13
14	0.99	68.00	1.34	62.84	0.15	83.45	1.03	89.30	1.76	67.20	1.22	79.35
15	2.08	70.08	1.71	64.54	0.27	83.72	1.17	90.46	2.49	69.69	0.68	80.03
16	2.01	72.08	2.02	66.57	0.89	84.60	0.81	91.27	2.87	72.56	1.22	81.25
17	1.07	73.15	1.50	68.07	1.11	85.71	1.02	92.29	1.82	74.38	3.25	84.50
18	1.52	74.67	2.37	70.44	1.40	87.12	1.10	93.39	1.57	75.95	1.50	86.00
19	2.91	77.58	2.29	72.73	0.92	88.04	0.86	94.24	0.90	76.85	0.66	86.66
20	2.35	79.93	2.12	74.85	0.66	88.70	0.69	94.93	1.33	78.18	1.47	88.13
21	2.77	82.70	2.35	77.20	0.56	89.26	1.46	96.39	1.70	79.88	2.26	90.39
22	2.78	85.48	1.65	78.85	1.37	90.63	0.79	97.18	1.12	80.99	2.74	93.13
23	4.19	89.66	3.08	81.92	1.37	92.01	0.69	97.87	2.34	83.33	2.86	95.99

TABLE II.6 CONT. PERCENT OF ESCAPEMENT THROUGH TEST FISHERY BY DATE

	1969		1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
DATE	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
24	0.53	83.64	1.99	81.41	1.31	81.30	2.76	82.47	0.94	94.19	0.84	95.20
25	1.18	84.83	4.90	86.31	2.11	83.41	2.47	84.94	0.48	94.67	1.21	96.41
26	2.98	87.81	2.81	89.12	2.92	86.33	0.91	85.85	0.78	95.45	1.11	97.52
27	1.75	89.56	2.06	91.19	2.54	88.88	0.66	86.51	1.35	96.80	1.29	98.81
28	2.21	91.76	1.86	93.05	3.81	92.68	3.08	89.59	1.11	97.92	1.19	100.00
29	2.43	94.19	3.98	97.03	3.88	96.56	4.39	93.98	2.08	100.00	0.00	100.00
30	1.89	96.08	2.97	100.00	2.00	98.57	3.89	97.87	0.00	100.00	0.00	100.00
31	1.99	98.07	0.00	100.00	1.43	100.00	2.13	100.00	0.00	100.00	0.00	100.00
AUG 1	1.93	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
2	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
3	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
4	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
5	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
6	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
7	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
8	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
9	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
10	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
11	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
12	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00

TABLE II.8 PERCENT OF ESCAPEMENT THROUGH TEST FISHERY BY DATE

DATE	1981 DAILY PERCENT	1981 CUM PERCENT	1982 DAILY PERCENT	1982 CUM PERCENT	1983 DAILY PERCENT	1983 CUM PERCENT	1984 DAILY PERCENT	1984 CUM PERCENT	1985 DAILY PERCENT	1985 CUM PERCENT	1986 DAILY PERCENT	1986 CUM PERCENT
JUNE 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
5	0.34	0.34	0.04	0.04	0.00	0.00	0.67	0.67	0.00	0.00	0.00	0.06
6	0.54	0.88	0.75	0.79	0.00	0.00	0.75	1.42	0.00	0.00	0.00	0.06
7	0.37	1.25	0.88	1.67	0.33	0.33	0.40	1.82	0.00	0.00	0.00	0.06
8	0.63	1.88	0.95	2.63	0.72	1.04	0.28	2.10	0.00	0.00	0.00	0.06
9	0.66	2.54	1.44	4.07	0.20	1.24	0.58	2.67	0.47	4.03	0.00	0.06
10	0.96	3.50	2.97	7.04	0.33	1.57	1.70	4.37	0.38	4.41	0.00	0.06
11	1.15	4.65	2.56	9.60	0.58	2.15	0.75	5.12	0.12	4.53	0.00	0.06
12	1.77	6.42	0.65	10.25	1.57	3.72	1.27	6.39	0.31	4.84	0.00	0.06
13	1.56	7.98	0.23	10.49	0.91	4.63	1.21	7.60	0.09	4.93	0.21	0.27
14	1.56	9.55	0.14	10.62	1.38	6.01	1.15	8.75	0.60	5.53	0.43	0.70
15	1.82	11.36	0.44	11.07	1.80	7.81	2.35	11.09	0.76	6.29	0.37	1.06
16	1.60	12.96	0.75	11.81	2.22	10.03	2.79	13.88	0.70	6.99	0.06	1.13
17	0.34	13.31	1.05	12.86	1.57	11.60	2.06	15.94	1.33	8.32	0.35	1.48
18	1.37	14.68	2.02	14.89	1.94	13.53	1.50	17.44	1.73	10.05	0.94	2.41
19	0.61	15.29	2.76	17.64	3.27	16.81	2.93	20.38	1.47	11.52	1.86	4.28
20	1.38	16.67	4.05	21.69	2.34	19.15	3.07	23.45	1.20	12.72	1.11	5.39
21	3.10	19.77	3.00	24.69	1.87	21.02	3.21	26.65	1.71	14.42	0.36	5.75
22	4.06	23.82	1.34	26.03	1.38	22.40	2.02	28.67	2.04	16.46	1.09	6.85
23	0.69	24.52	1.80	27.82	1.25	23.65	1.43	30.11	1.50	17.96	1.43	8.28
24	0.49	25.00	2.26	30.08	1.13	24.78	1.20	31.31	2.77	20.73	1.48	9.75
25	1.36	26.36	3.32	33.40	1.76	26.54	0.00	31.31	3.01	23.74	1.15	10.90
26	2.28	28.64	5.11	38.51	1.00	27.54	0.00	31.31	3.67	27.42	1.36	12.26
27	2.75	31.39	3.90	42.41	2.05	29.58	0.32	31.64	2.60	30.01	2.36	14.62
28	3.08	34.47	3.66	46.07	3.85	33.43	0.65	32.28	1.52	31.53	3.37	17.99
29	4.30	38.77	2.87	48.94	1.76	35.19	0.92	33.20	2.64	34.17	4.51	22.50
30	4.10	42.86	2.31	51.25	1.97	37.16	2.88	36.08	0.89	35.06	3.41	25.91
JULY 1	2.63	45.49	1.64	52.89	2.18	39.34	1.65	37.73	0.00	35.06	4.79	30.71
2	1.44	46.93	2.22	55.12	3.85	43.19	5.40	43.12	0.64	35.70	3.67	34.37
3	2.50	49.42	2.10	57.22	3.34	46.53	4.67	47.79	1.01	36.71	3.05	37.42
4	3.10	52.52	1.51	58.73	4.20	50.73	3.46	51.25	1.44	38.15	3.05	40.47
5	2.80	55.32	1.49	60.22	4.02	54.75	2.25	53.50	1.88	40.02	3.05	43.52
6	2.44	57.76	0.73	60.95	3.27	58.02	2.68	56.18	3.01	43.04	2.03	45.55
7	3.08	60.84	1.12	62.06	2.68	60.70	2.24	58.42	3.40	46.44	1.32	46.86
8	0.57	61.41	1.51	63.57	2.08	62.78	2.18	60.60	3.65	50.09	0.23	47.09
9	0.23	61.64	0.46	64.03	1.44	64.23	1.61	62.22	3.98	54.08	1.39	48.47
10	0.73	62.37	2.66	66.68	1.05	65.27	1.67	63.89	1.12	55.20	1.12	49.59
11	0.86	63.23	4.17	70.86	1.11	66.38	1.72	65.61	1.65	56.85	1.59	51.18
12	1.58	64.80	2.26	73.12	2.08	68.46	2.28	67.89	2.18	59.02	2.06	53.24
13	2.83	67.64	0.17	73.29	1.87	70.33	1.45	69.34	2.70	61.72	4.01	57.25
14	1.97	69.61	0.75	74.04	2.16	72.49	3.49	72.83	3.33	65.06	3.55	60.80
15	1.69	71.30	1.32	75.37	2.46	74.95	2.84	75.66	3.39	68.45	1.80	62.60
16	1.81	73.11	1.19	76.56	2.62	77.56	2.85	78.52	1.92	70.37	0.23	62.83
17	2.32	75.43	2.22	78.78	2.87	80.44	2.90	81.42	2.10	72.47	0.60	63.43
18	2.22	77.65	2.45	81.23	2.47	82.90	1.99	83.41	2.16	74.63	1.04	64.47
19	1.84	79.49	2.73	83.96	2.87	85.78	1.07	84.48	2.21	76.84	1.48	65.95
20	1.27	80.76	2.57	86.54	1.58	87.36	2.01	86.49	3.36	80.20	5.44	71.40
21	2.75	83.50	1.95	88.49	1.10	88.46	2.86	89.34	3.43	83.64	3.12	74.52
22	1.63	85.14	1.33	89.82	0.60	89.06	3.41	92.75	2.64	86.28	3.69	78.21
23	2.66	87.80	1.61	91.43	0.69	89.75	1.66	94.41	2.59	88.87	1.34	79.55

TABLE II.8 CONT. PERCENT OF ESCAPEMENT THROUGH TEST FISHERY BY DATE

	1981		1982		1983		1984		1985		1986	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
DATE	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
24	2.49	90.29	1.95	93.38	1.15	90.90	0.61	95.03	1.32	90.19	1.26	80.81
25	2.14	92.43	1.52	94.90	2.00	92.91	0.96	95.99	1.61	91.80	1.19	82.00
26	3.94	96.37	1.79	96.69	2.08	94.99	1.31	97.30	1.33	93.13	1.11	83.12
27	3.63	100.00	1.96	98.66	0.33	95.32	0.72	98.01	1.43	94.56	2.31	85.43
28	0.00	100.00	1.34	100.00	0.46	95.78	0.29	98.30	1.90	96.46	4.01	89.44
29	0.00	100.00	0.00	100.00	0.36	96.14	0.80	99.10	2.39	98.84	1.99	91.43
30	0.00	100.00	0.00	100.00	1.45	97.58	0.67	99.77	0.78	99.63	0.65	92.08
31	0.00	100.00	0.00	100.00	2.42	100.00	0.23	100.00	0.37	100.00	0.90	92.97
AUG 1	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	1.14	94.12
2	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	1.39	95.50
3	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	1.19	96.69
4	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	1.43	98.12
5	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	1.32	99.44
6	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.56	100.00
7	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
8	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
9	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
10	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
11	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00
12	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00

TABLE II.9 NASS RIVER TEST FISHERY SOCKEYE ESCAPEMENT ESTIMATES 1963 TO 1968

DATE	1963 DAILY ESC.	1963 CUM ESC.	1964 DAILY ESC.	1964 CUM ESC.	1965 DAILY ESC.	1965 CUM ESC.	1966 DAILY ESC.	1966 CUM ESC.	1967 DAILY ESC.	1967 CUM ESC.	1968 DAILY ESC.	1968 CUM ESC.
JUNE 1	N/A	N/A										
2	N/A	N/A										
3	N/A	N/A										
4	N/A	N/A										
5	N/A	N/A										
6	N/A	N/A										
7	N/A	N/A										
8	N/A	N/A										
9	N/A	N/A										
10	N/A	N/A										
11	N/A	N/A			399	399						
12	N/A	N/A			476	875			486	486	1789	1789
13	N/A	N/A			228	1103	278	278	691	1178	1809	3598
14	N/A	N/A			799	1902	2840	3118	600	1778	1253	4852
15	N/A	N/A			2301	4203	2044	5162	100	1878	2704	7555
16	N/A	N/A	1300	1300	2073	6276	3766	8928	282	2160	2459	10014
17	N/A	N/A	978	2278	1921	8196	333	9261	573	2733	3188	13203
18	N/A	N/A	826	3104	1597	9794	210	9471	732	3465	2542	15745
19	N/A	N/A	984	4088	1629	11423	111	9583	491	3956	3058	18803
20	N/A	N/A	790	4878	4222	15645	438	10021	118	4074	2585	21388
21	N/A	N/A	899	5777	3816	19461	982	11003	0	4074	1971	23359
22	N/A	N/A	1312	7089	7626	27087	673	11676	0	4074	3705	27064
23	N/A	N/A	3450	10539	6383	33471	630	12305	0	4074	2648	29712
24	N/A	N/A	3888	14427	7461	40932	1809	14114	0	4074	1971	31683
25	N/A	N/A	2916	17342	9807	50738	6545	20659	0	4074	1033	32715
26	N/A	N/A	2952	20295	9395	60133	5322	25981	0	4074	0	32715
27	N/A	N/A	10023	30317	8076	68209	5347	31328	159	4233	430	33145
28	N/A	N/A	7982	38299	3911	72120	648	31977	86	4319	1478	34623
29	N/A	N/A	5607	43906	228	72348	333	32310	100	4419	1860	36483
30	N/A	N/A	1355	45260	666	73014	1809	34119	182	4601	2648	39131
JULY 1	N/A	N/A	1926	47186	1750	74764	2828	36947	509	5110	3780	42911
2	N/A	N/A	4860	52046	2719	77483	3192	40139	1146	6256	142	43053
3	N/A	N/A	4817	56863	3144	80627	2698	42837	1391	7647	1163	44215
4	N/A	N/A	3991	60853	1642	82269	1519	44356	2155	9802	1123	45339
5	N/A	N/A	3602	64456	2732	85001	1747	46104	2332	12135	914	46253
6	N/A	N/A	1792	66247	773	85775	3180	49283	3342	15477	966	47218
7	N/A	N/A	468	66715	678	86453	1290	50574	882	16359	2384	49603
8	N/A	N/A	358	67074	3360	89813	877	51450	2196	18555	1277	50880
9	N/A	N/A	225	67298	2802	92615	1155	52605	1555	20110	702	51581
10	N/A	N/A	0	67298	4260	96874	562	53167	2001	22110	288	51869
11	N/A	N/A	571	67869	4431	101306	2402	55569	1382	23492	705	52574
12	N/A	N/A	668	68538	2891	104196	840	56408	1459	24952	1171	53745
13	N/A	N/A	1421	69959	1312	105508	3754	60162	1950	26902	2065	55810
14	N/A	N/A	4264	74223	450	105958	3143	63305	3906	30808	4651	60461
15	N/A	N/A	8850	83074	330	106288	6724	70029	3355	34163	6507	66967
16	N/A	N/A	4884	87957	1103	107391	6761	76790	4910	39074	4564	71531
17	N/A	N/A	3560	91517	1914	109305	4118	80908	5729	44802	1182	72714
18	N/A	N/A	3760	95277	4120	113426	1204	82112	6138	50940	3476	76190
19	N/A	N/A	5509	100787	5312	118738	1402	83514	6593	57533	3571	79760
20	N/A	N/A	2114	102900	3119	121857	420	83934	3842	61375	4824	84584
21	N/A	N/A	2138	105039	1071	122928	451	84384	3610	64985	5005	89589
22	N/A	N/A	2721	107760	1185	124114	1933	86317	1682	66667	1628	91217
23	N/A	N/A	2430	110190	2143	126256	2655	88972	2773	69440	1360	92577

TABLE II.9 NASS RIVER TEST FISHERY SOCKEYE ESCAPEMENT ESTIMATES 1963 TO 1968

DATE	1963 DAILY ESC.	1963 CUM ESC.	1964 DAILY ESC.	1964 CUM ESC.	1965 DAILY ESC.	1965 CUM ESC.	1966 DAILY ESC.	1966 CUM ESC.	1967 DAILY ESC.	1967 CUM ESC.	1968 DAILY ESC.	1968 CUM ESC.
JULY 24	N/A	N/A	1658	111848	2428	128684	3915	92886	2105	71545	1837	94413
25	N/A	N/A	1415	113263	2162	130846	4081	96967	1760	73305	3007	97420
26	N/A	N/A	4623	117886	4647	135492	2365	99332	2164	75469	4351	101771
27	N/A	N/A	7793	125679	609	136101	2038	101370	1168	76638	1616	103387
28	N/A	N/A	5011	130691	285	136386	3038	104407	968	77606	1155	104542
29	N/A	N/A	1926	132616	209	136595	1766	106173	1350	78956		
30	N/A	N/A	2223	134840	647	137242	1340	107513	1555	80511		
31	N/A	N/A	3153	137992	805	138047	1081	108594	1332	81844		
AUG 1	N/A	N/A	7071	145063	1255	139302	889	109483	723	82566		
2	N/A	N/A	2655	147717	1509	140811	2130	111613	155	82721		
3	N/A	N/A	4556	152273	330	141141	222	111835	1469	84190		
4	N/A	N/A	3639	155912	0	141141	0	111835	1387	85576		
5	N/A	N/A	1470	157382	101	141242	525	112360	1137	86713		
6	N/A	N/A	1962	159344								
7	N/A	N/A	1294	160638								
8	N/A	N/A	571	161209								
9	N/A	N/A	832	162041								
10	N/A	N/A	1318	163359								
11	N/A	N/A	298	163657								
12	N/A	N/A	188	163845								

TABLE II.10 NASS RIVER TEST FISHERY SOCKEYE ESCAPEMENT ESTIMATES 1969 TO 1974

DATE	1969 DAILY ESC.	1969 CUM ESC.	1970 DAILY ESC.	1970 CUM ESC.	1971 DAILY ESC.	1971 CUM ESC.	1972 DAILY ESC.	1972 CUM ESC.	1973 DAILY ESC.	1973 CUM ESC.	1974 DAILY ESC.	1974 CUM ESC.
JUNE 1												
2												
3												
4									3393	3393	2293	2293
5							516	516	3841	7234	674	2967
6							1148	1664	4829	12063	1632	4599
7					731	731	1495	3159	4541	16604	2369	6968
8			219	219	0	731	1826	4986	4565	21170	2936	9904
9			231	450	0	731	2635	7621	4691	25861	3742	13646
10			966	1416	258	989	948	8569	5020	30881	3893	17539
11			1449	2865	265	1254	1040	9609	4057	34938	4630	22170
12			2502	5367	731	1985	0	9609	4559	39497	3843	26012
13			3076	8443	871	2856	146	9756	3447	42944	9607	35620
14			2453	10896	2578	5434	432	10187	3345	46289	8215	43835
15			1210	12106	3135	8569	0	10187	5804	52093	6237	50072
16			690	12795	1170	9739	393	10580	5984	58076	3150	53222
17			1780	14575	2006	11745	747	11328	9221	67297	2268	55490
18			1771	16346	1630	13375	2859	14187	17729	85026	3780	59270
19	5962	5962	3336	19682	2097	15472	6727	20914	12159	97184	1840	61109
20	10494	16456	4191	23873	2222	17695	4932	25846	1496	98680	346	61456
21	2999	19455	4488	28361	1254	18948	3452	29298	413	99093	1140	62596
22	3265	22721	4587	32948	286	19234	4901	34199	987	100080	4612	67208
23	2985	25706	1850	34798	892	20126	7113	41312	6719	106800	13287	80494
24	475	26180	289	35087	293	20418	8453	49765	6049	112849	5355	85849
25	489	26669	574	35661	613	21031	6334	56100	4889	117738	3874	89724
26	4553	31222	1709	37370	1742	22773	11813	67913	1651	119389	3345	93069
27	4279	35502	3097	40466	3790	26563	2659	70572	215	119605	4750	97819
28	4172	39673	4372	44839	8624	35187	1117	71689	838	120442	6394	104214
29	6265	45938	4063	48902	10756	45943	2050	73739	1711	122154	5286	109499
30	3553	49491	557	49459	4368	50311	1649	75388	7043	129196	13274	122773
JULY 1	1410	50900	438	49897	3734	54045	1510	76898	19111	148308	4750	127524
2	949	51850	1057	50954	11529	65574	1349	78247	12242	160550	932	128456
3	2287	54137	2845	53798	7809	73384	3522	81768	3189	163739	869	129325
4	6207	60344	2622	56420	5817	79201	339	82108	425	164164	1002	130327
5	8070	68414	2498	58918	6827	86028	3190	85298	1041	165205	2608	132935
6	10350	78764	1057	59975	4326	90354	1688	86985	4165	169370	3389	136325
7	11199	89962	1259	61234	1010	91364	2019	89004	11458	180828	5746	142070
8	3222	93184	1994	63229	5810	97174	1526	90530	11572	192400	7157	149227
9	1000	94184	1445	64674	8924	106098	4408	94938	11369	203769	901	150128
10	3323	97507	2882	67556	16392	122489	3451	98389	7300	211069	0	150128
11	1251	98758	3827	71383	9216	131706	1711	100100	7354	218423	863	150991
12	2999	101758	4533	75916	8868	140574	1927	102026	6977	225399	1871	152862
13	3956	105713	4269	80186	4479	145054	717	102743	4978	230378	3478	156339
14	4085	109799	1127	81313	2090	147143	1264	104007	6606	236983	5752	162091
15	2604	112402	1230	82543	2459	149603	2659	106665	4440	241423	4945	167037
16	2481	114884	1078	83621	5692	155294	9794	116459	9268	250692	2728	169765
17	719	115603	1961	85582	12135	167429	9247	125707	7234	257926	1329	171094
18	4797	120400	1519	87101	10874	178304	5132	130839	1550	259475	1764	172858
19	7415	127815	958	88059	5733	184037	640	131478	2639	262114	1865	174723
20	8019	135835	1135	89195	5845	189882	2635	134114	1376	263490	2249	176972
21	7250	143085	1982	91176	1393	191275	2820	136934	1777	265268	3150	180122
22	6243	149328	2399	93575	4229	195504	4585	141519	3273	268541	7402	187524
23	2201	151529	1032	94608	6764	202268	2928	144448	4063	272603	2520	190044

TABLE II.10 NASS RIVER TEST FISHERY SOCKEYE ESCAPEMENT ESTIMATES 1969 TO 1974

	1969		1970		1971		1972		1973		1974	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
DATE	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.
JULY 24	964	152492	2366	96973	3302	205570	5009	149457	2740	275344	1682	191726
25	2158	154650	5838	102811	5336	210907	4477	153934	1394	276738	2444	194171
26	5430	160080	3344	106156	7384	218291	1649	155583	2292	279030	2243	196413
27	3193	163274	2457	108612	6430	224721	1202	156785	3955	282985	2602	199015
28	4021	167294	2221	110834	9628	234348	5579	162364	3255	286240	2388	201403
29	4423	171718	4740	115574	9809	244157	7960	170324	6091	292331		
30	3452	175170	3538	119112	5065	249221	7051	177375				
31	3632	178802			3623	252844	3853	181228				
AUG 1	3510	182312										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

TABLE II.11 NASS RIVER TEST FISHERY SOCKEYE ESCAPEMENT ESTIMATES 1975 TO 1980

DATE	1975 DAILY ESC.	1975 CUM ESC.	1976 DAILY ESC.	1976 CUM ESC.	1977 DAILY ESC.	1977 CUM ESC.	1978 DAILY ESC.	1978 CUM ESC.	1979 DAILY ESC.	1979 CUM ESC.	1980 DAILY ESC.	1980 CUM ESC.
JUNE 1												
2												
3												
4	800	800	2416	2416	4747	4747	4134	4134	0	0	1967	3341
5	196	996	2030	4446	6624	11370	3518	7652	0	0	1806	5147
6	404	1400	1943	6389	8282	19652	2204	9856	446	446	0	5147
7	286	1686	2307	8696	8163	27815	3878	13734	470	916	0	5147
8	645	2331	1322	10019	9421	37236	3006	16740	1957	2873	735	5883
9	1188	3519	1513	11532	9676	46912	1268	18008	1503	4376	922	6805
10	1310	4829	2166	13697	16327	63238	5314	23322	3350	7726	1148	7953
11	2764	7593	2008	15705	19807	83045	7076	30398	4431	12157	1613	9566
12	2841	10435	2721	18426	38393	121439	10036	40434	6607	18763	1677	11243
13	2813	13247	6291	24717	33783	155222	645	41080	1957	20720	2864	14107
14	3062	16309	10802	35520	22522	177744	861	41940	2239	22959	2270	16377
15	3115	19424	11526	47046	21101	198844	4605	46545	4321	27280	2348	18725
16	2503	21927	11874	58920	8710	207554	6379	52924	3726	31006	5657	24382
17	3029	24956	5986	64906	2360	209914	10675	63599	5041	36048	7095	31477
18	3266	28222	3564	68471	2442	212356	10420	74019	5268	41316	8895	40372
19	3650	31871	1883	70354	8200	220556	3175	77194	2286	43601	4670	45042
20	3499	35370	2079	72432	12637	233192	802	77996	806	44408	4206	49248
21	2498	37868	2106	74539	2934	236126	1628	79624	2521	46928	3148	52395
22	3621	41489	0	74539	2360	238486	3739	83363	4611	51539	4102	56498
23	2494	43984	604	75143	3644	242130	4547	87910	7562	59101	4902	61400
24	1192	45176	1159	76302	1658	243788	4832	92742	8352	67453	4102	65502
25	290	45466	5246	81548	10086	253874	4152	96893	8869	76322	3496	68998
26	829	46294	3053	84601	11307	265181	2349	99242	5480	81802	5115	74113
27	2147	48442	5349	89950	11717	276897	861	100103	1957	83759	3161	77274
28	3748	52189	2139	92089	2606	279503	3210	103313	2748	86506	3103	80377
29	2253	54443	805	92894	1303	280806	2797	106109	1675	88181	4954	85330
30	1747	56190	452	93346	1713	282519	5314	111424	2935	91117	5212	90542
JULY 1	1021	57211	0	93346	1986	284505	5297	116721	5033	96150	4057	94599
2	184	57395	0	93346	8482	292987	1896	118617	4806	100957	2535	97134
3	0	57395	114	93460	9585	302572	3913	122530	4517	105473	6218	103352
4	0	57395	0	93460	5758	308330	645	123175	2286	107759	5341	108693
5	0	57395	2356	95817	2597	310926	1076	124251	5346	113105	2748	111441
6	510	57905	0	95817	2597	313523	1965	126216	6849	119955	2187	113628
7	245	58150	218	96034	1576	315099	1628	127844	6043	125998	5663	119291
8	294	58444	109	96143	5795	320893	2553	130397	3632	129630	2819	122110
9	0	58444	593	96736	9202	330095	2430	132827	2234	131864	993	123103
10	147	58591	1088	97825	7380	337475	2651	135479	4180	136044	1071	124174
11	0	58591	1360	99185	9566	347042	1454	136932	2701	138745	1213	125386
12	359	58950	1312	100497	4874	351916	1116	138049	3844	142589	619	126006
13	73	59023	1165	101661	1950	353866	361	138409	3186	145774	1419	127425
14	874	59897	2215	103876	638	354503	1622	140031	3914	149688	1987	129411
15	1829	61726	2819	106695	1139	355642	1832	141863	5542	155231	1116	130527
16	1768	63494	3341	110036	3772	359414	1268	143131	6395	161626	1987	132514
17	939	64433	2482	112518	4710	364124	1593	144724	4047	165673	5296	137809
18	1339	65772	3924	116442	5968	370092	1721	146445	3507	169180	2438	140248
19	2560	68331	3788	120229	3899	373992	1343	147788	1996	171176	1077	141325
20	2074	70405	3499	123728	2824	376816	1082	148870	2967	174143	2399	143724
21	2437	72842	3886	127614	2396	379212	2285	151155	3781	177924	3683	147407
22	2449	75292	2721	130335	5813	385025	1244	152399	2489	180413	4476	151884
23	3686	78978	5088	135423	5840	390865	1076	153475	5213	185626	4657	156541

TABLE II.11 NASS RIVER TEST FISHERY SOCKEYE ESCAPEMENT ESTIMATES 1975 TO 1980

	1975		1976		1977		1978		1979		1980	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
DATE	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.
JULY 24	1633	80611	2824	138248	13511	404376	1227	154702	4955	190581	1961	158502
25	800	81411	5709	143956	4319	408695	861	155562	6748	197329	1097	159598
26	1429	82840	805	144762	1950	410645	401	155963	6654	203983	729	160327
27	1176	84016	2982	147744	6833	417478	424	156388	5957	209940	2761	163088
28	1490	85506	2220	149964	2114	419591	430	156818	7194	217134		
29	2576	88082	4805	154769	5230	424821			5620	222754		
30			5094	159863								
31			5442	165305								
AUG 1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

TABLE II.12 NASS RIVER TEST FISHERY SOCKEYE ESCAPEMENT ESTIMATES 1981 TO 1986

	1981		1982		1983		1984		1985		1986	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
DATE	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.
JUNE 1												
2												
3											103	103
4	0	0	0	0	0	0					0	103
5	912	912	128	128	0	0	1289	1289			0	103
6	1426	2338	2414	2542	0	0	1452	2741			0	103
7	980	3318	2835	5376	636	636	777	3518			0	103
8	1673	4991	3060	8437	1395	2031	542	4060			0	103
9	1755	6747	4640	13077	390	2420	1114	5174	1739	15046	0	103
10	2544	9290	9542	22619	636	3056	3289	8463	1435	16480	0	103
11	3065	12355	8234	30853	1135	4191	1452	9914	439	16919	0	103
12	4703	17058	2083	32936	3049	7240	2451	12366	1157	18076	0	103
13	4148	21206	752	33688	1771	9011	2343	14709	332	18408	387	490
14	4148	25354	444	34131	2687	11698	2229	16937	2242	20649	767	1258
15	4827	30181	1421	35553	3507	15205	4541	21479	2842	23492	664	1922
16	4251	34432	2399	37951	4328	19533	5409	26887	2609	26101	116	2038
17	912	35344	3369	41320	3056	22589	3981	30869	4949	31050	626	2663
18	3634	38978	6504	47824	3774	26363	2909	33778	6465	37515	1690	4353
19	1625	40602	8851	56675	6372	32735	5680	39458	5478	42994	3366	7719
20	3675	44277	13009	69684	4560	37295	5945	45402	4483	47477	2012	9732
21	8227	52505	9633	79316	3651	40946	6210	51612	6366	53843	658	10389
22	10771	63276	4294	83610	2687	43632	3915	55527	7621	61464	1973	12363
23	1837	65113	5775	89385	2441	46073	2777	58304	5595	67059	2580	14942
24	1296	66409	7256	96641	2195	48268	2331	60635	10338	77397	2663	17606
25	3606	70016	10670	107312	3418	51686	0	60635	11253	88650	2070	19676
26	6054	76070	16408	123719	1948	53635	0	60635	13710	102360	2457	22133
27	7295	83365	12528	136247	3986	57620	626	61261	9693	112052	4269	26402
28	8179	91544	11761	148008	7500	65120	1253	62514	5676	117728	6081	32484
29	11422	102967	9219	157227	3418	68539	1783	64297	9854	127582	8145	40629
30	10881	113847	7429	164656	3835	72374	5577	69874	3318	130899	6159	46787
JULY 1	6973	120820	5264	169920	4246	76620	3186	73061	0	130899	8655	55442
2	3812	124632	7144	177063	7507	84127	10450	83511	2394	133293	6623	62065
3	6637	131269	6753	183816	6502	90628	9035	92546	3757	137050	5501	67566
4	8227	139497	4843	188658	8184	98812	6698	99243	5380	142430	5507	73074
5	7425	146922	4797	193456	7828	106640	4361	103604	7003	149433	5507	78581
6	6493	153415	2331	195787	6379	113019	5192	108796	11253	160686	3657	82238
7	8179	161594	3587	199374	5216	118235	4331	113127	12705	173391	2380	84617
8	1502	163096	4835	204209	4054	122290	4228	117355	13638	187029	406	85024
9	610	163706	1474	205683	2810	125099	3126	120481	14866	201895	2502	87526
10	1940	165646	8542	214225	2037	127137	3234	123715	4187	206082	2019	89544
11	2283	167929	13407	227632	2160	129297	3337	127052	6151	212233	2870	92414
12	4189	172118	7271	234904	4047	133345	4415	131467	8123	220357	3715	96129
13	7521	179640	549	235453	3637	136982	2801	134268	10087	230444	7242	103371
14	5238	184878	2406	237859	4211	141193	6764	141032	12445	242889	6404	109775
15	4491	189369	4256	242115	4786	145979	5493	146525	12669	255558	3250	113025
16	4820	194189	3820	245935	5100	151079	5523	152048	7173	262731	413	113438
17	6150	200339	7136	253071	5592	156672	5620	157668	7846	270577	1090	114528
18	5889	206228	7881	260952	4806	161478	3849	161517	8052	278629	1883	116411
19	4882	211110	8775	269727	5599	167077	2078	163595	8258	286887	2676	119087
20	3373	214483	8272	277998	3083	170161	3885	167479	12553	299440	9828	128915
21	7302	221785	6271	284270	2133	172294	5529	173009	12822	312261	5630	134545
22	4340	226125	4264	288533	1176	173470	6607	179616	9872	322133	6668	141214
23	7076	233200	5181	293714	1347	174817	3216	182832	9675	331808	2418	143632

TABLE II.12 NASS RIVER TEST FISHERY SOCKEYE ESCAPEMENT ESTIMATES 1981 TO 1986

	1981		1982		1983		1984		1985		1986	
	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM	DAILY	CUM
DATE	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.	ESC.
JULY 24	6603	239803	6264	299978	2242	177059	1187	184019	4914	336722	2283	145915
25	5677	245480	4888	304866	3904	180963	1861	185880	6016	342738	2148	148063
26	10476	255956	5760	310626	4054	185017	2536	188416	4958	347696	2012	150075
27	9640	265596	6309	316935	643	185660	1385	189801	5335	353031	4173	154247
28			4316	321251	896	186555	560	190361	7083	360115	7249	161496
29					697	187253	1554	191915	8913	369027	3586	165081
30					2817	190069	1289	193204	2923	371950	1174	166255
31					4711	194780	446	193650	1399	373349	1619	167874
AUG 1											2064	169938
2											2502	172440
3											2148	174587
4											2580	177167
5											2380	179547
6											1012	180559
7												
8												
9												
10												
11												
12												

Figure II.1. TIMING THROUGH NASS TEST FISHERY 1966

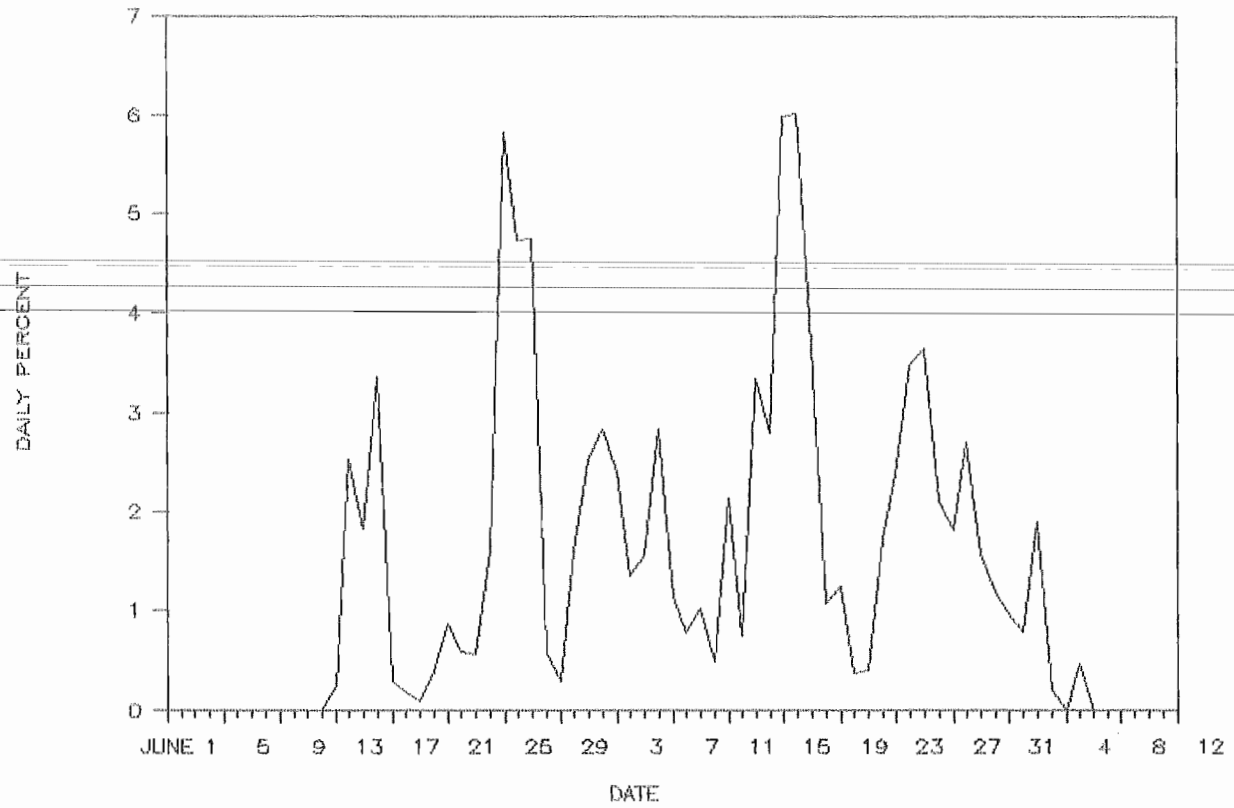


Figure II.2. TIMING THROUGH NASS TEST FISHERY 1967

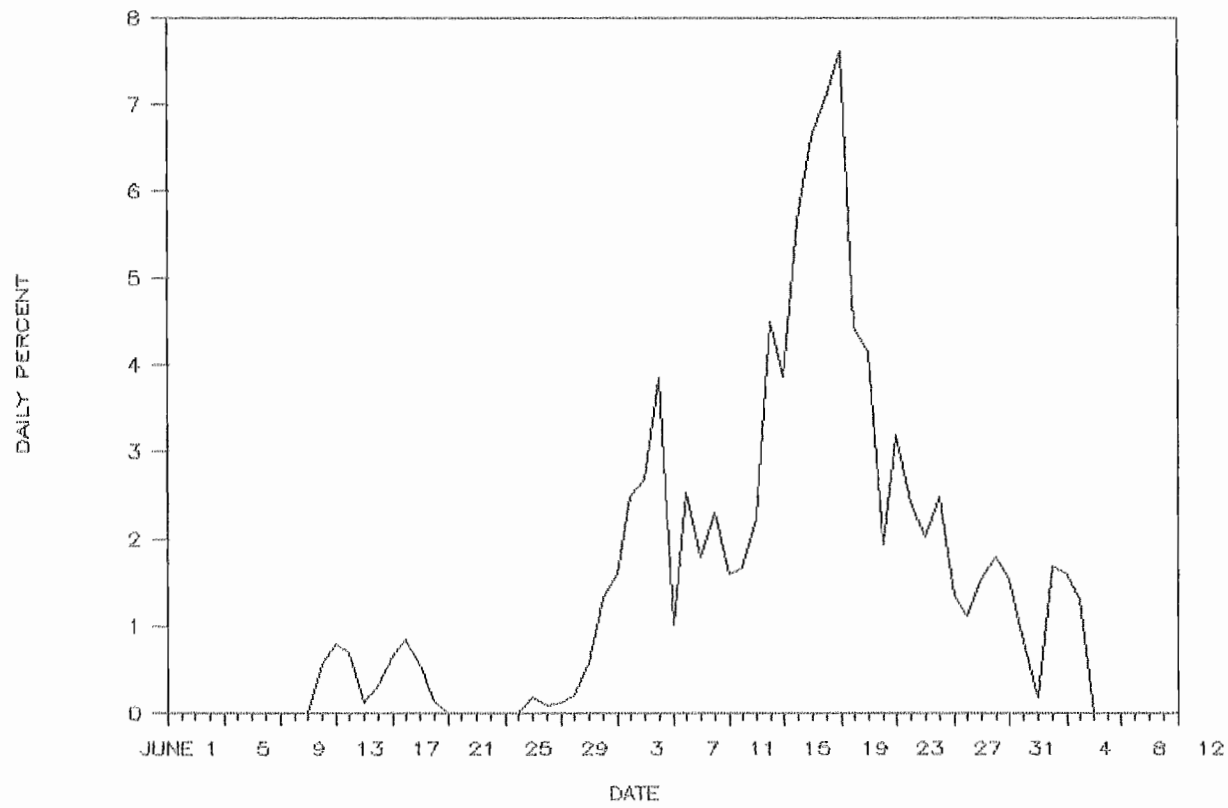


Figure II.3. TIMING THROUGH NASS TEST FISHERY 1968

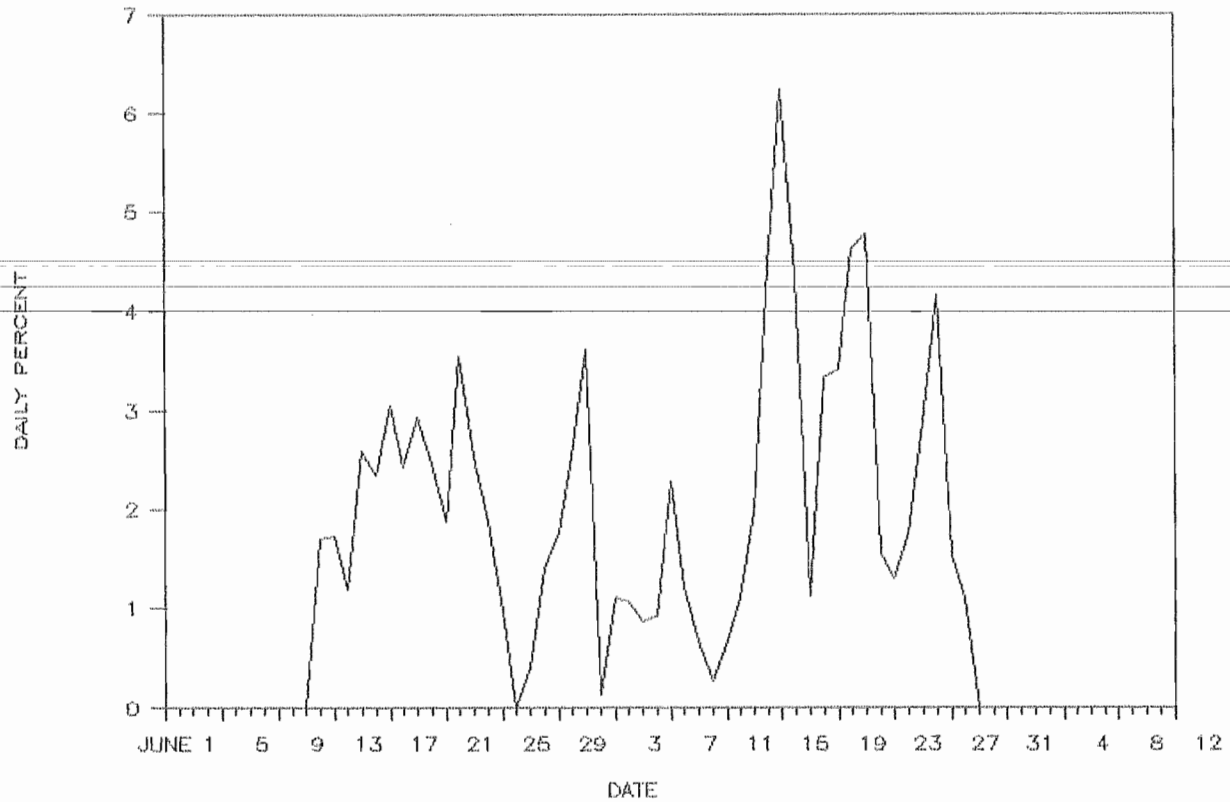


Figure II.4. TIMING THROUGH NASS TEST FISHERY 1969

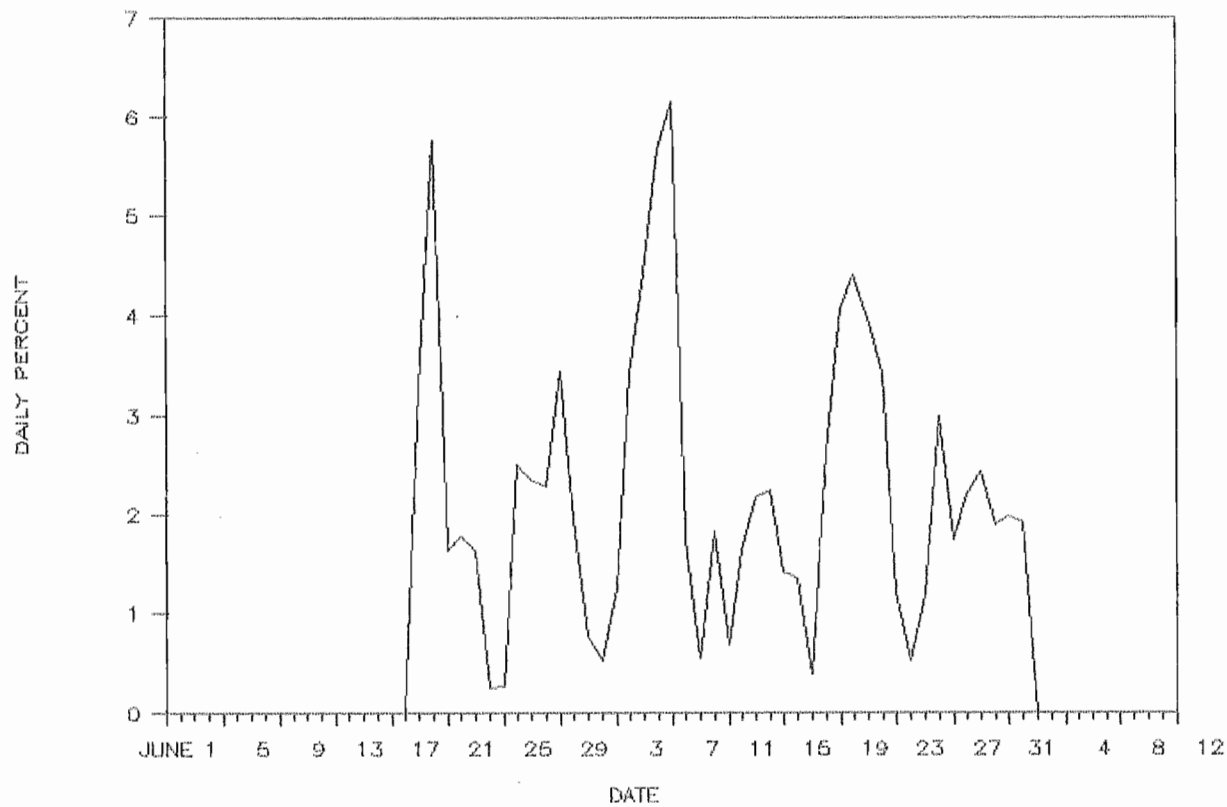


Figure II.5. TIMING THROUGH NASS TEST FISHERY 1970

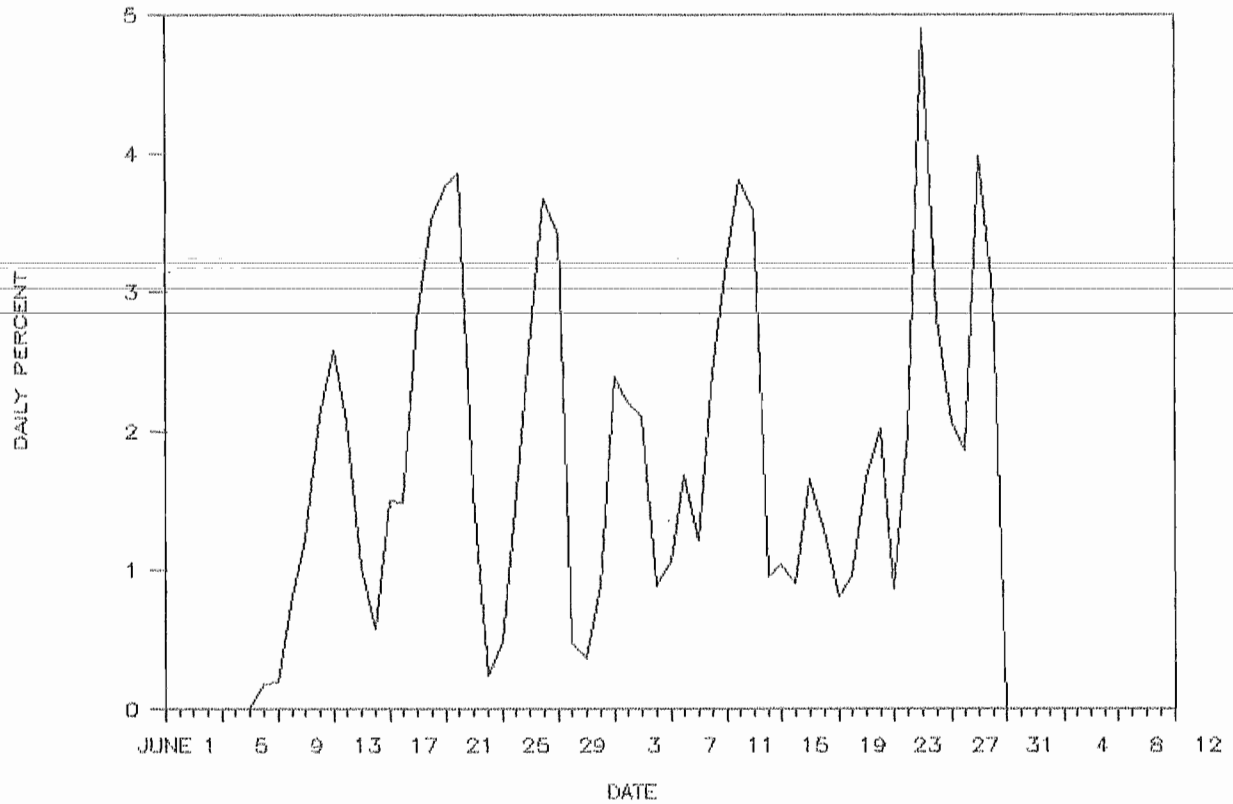


Figure II.6. TIMING THROUGH NASS TEST FISHERY 1971

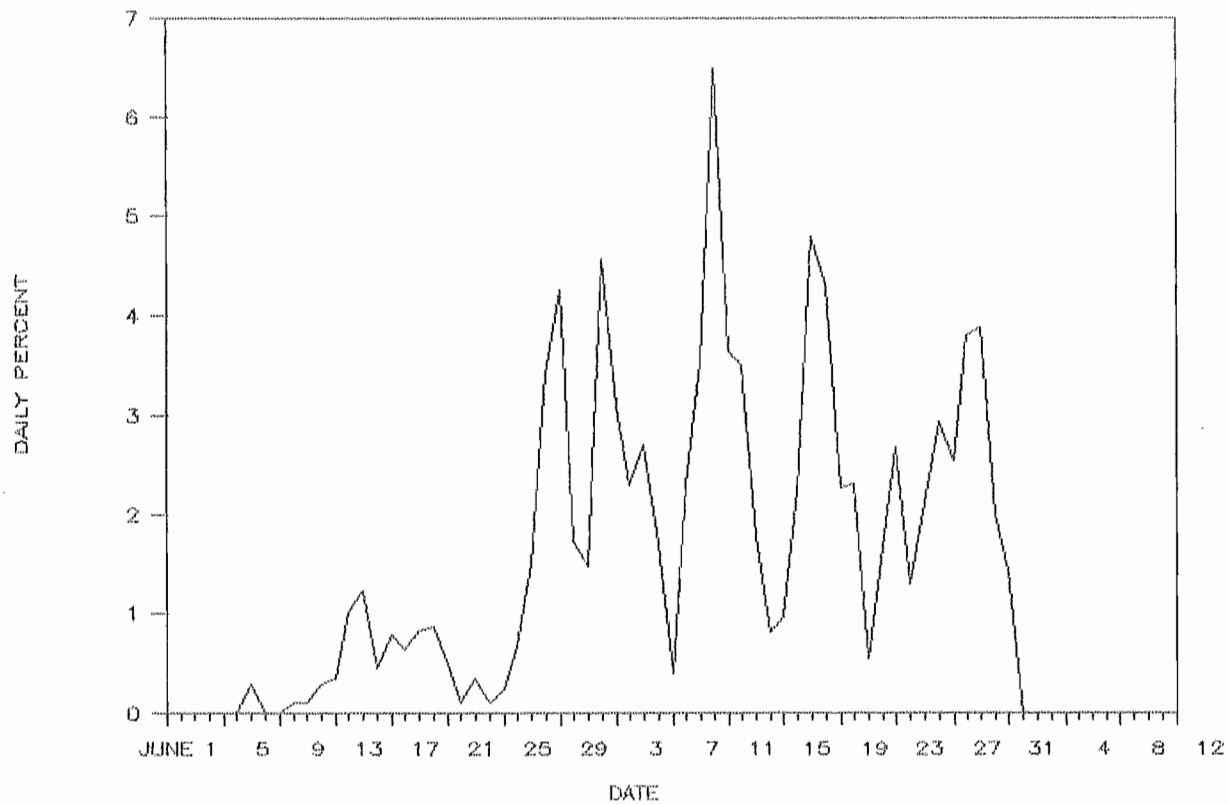


Figure II.7. TIMING THROUGH NASS TEST FISHERY 1972

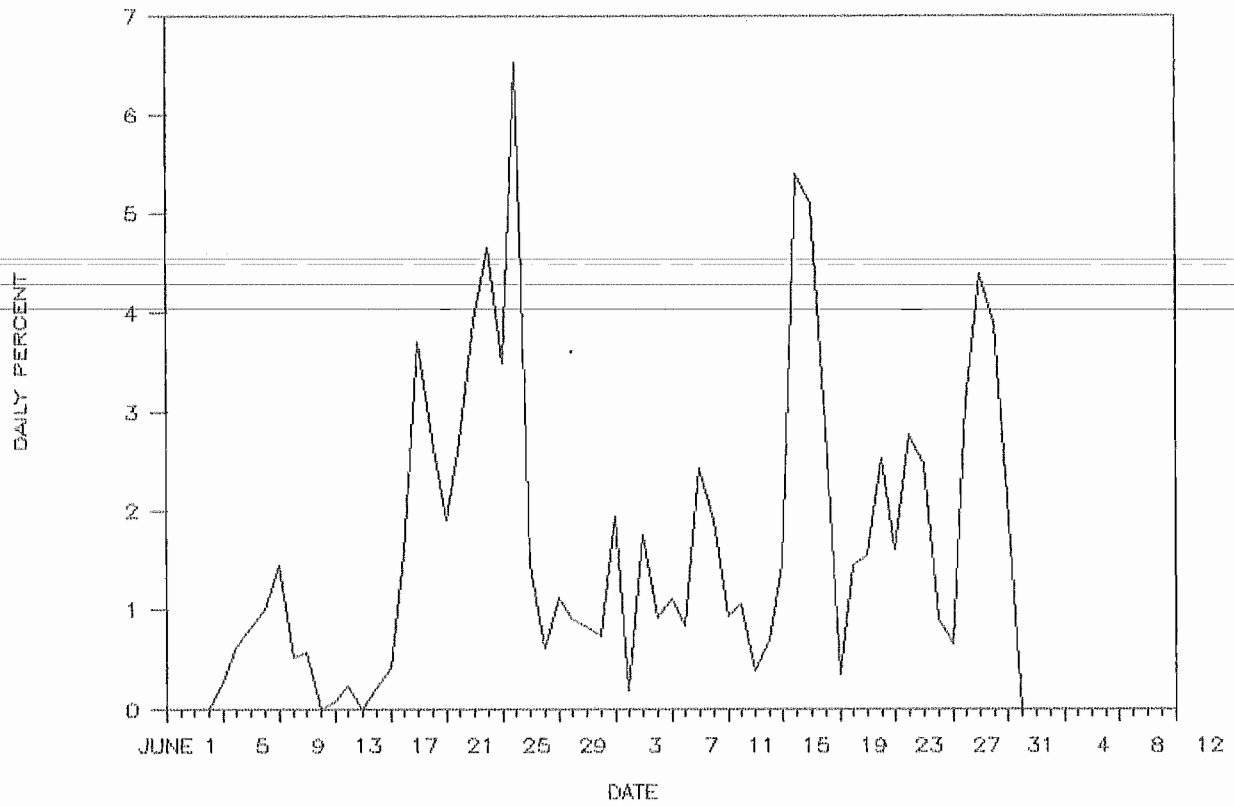


Figure II.8. TIMING THROUGH NASS TEST FISHERY 1973

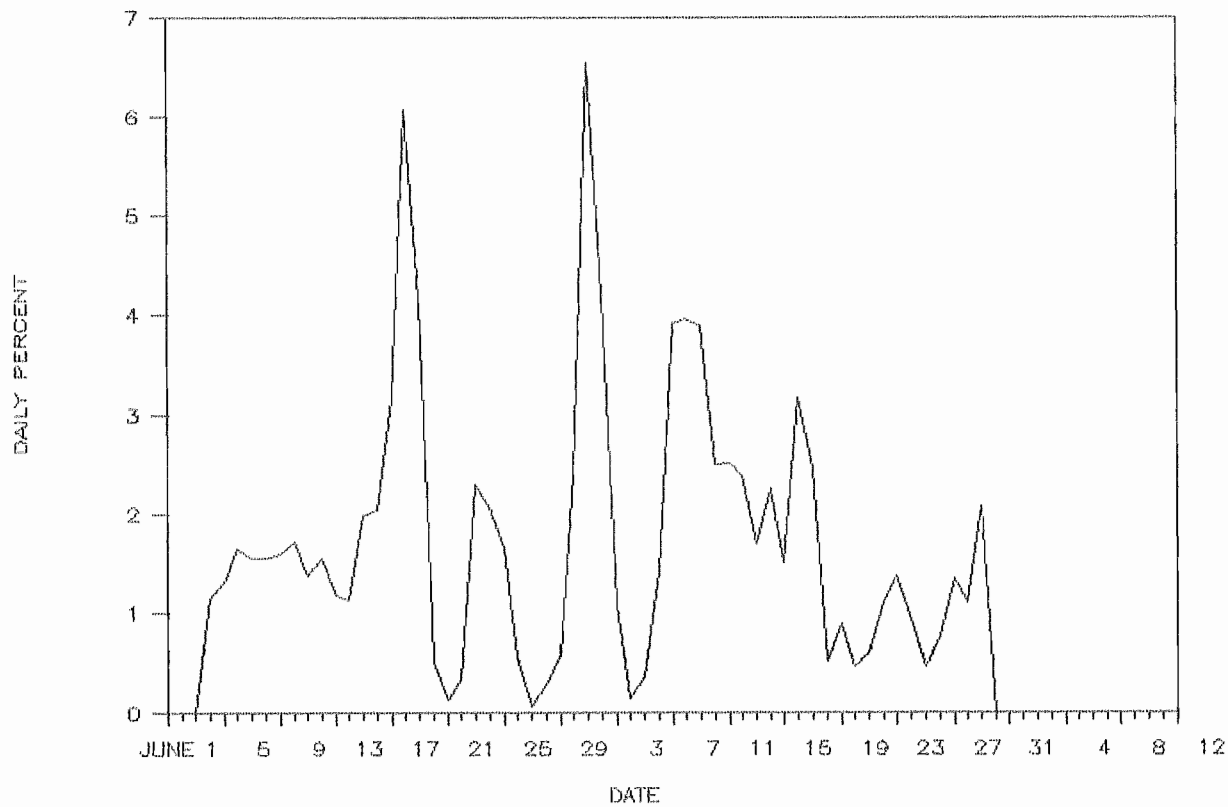


Figure II.9. TIMING THROUGH NASS TEST FISHERY 1974

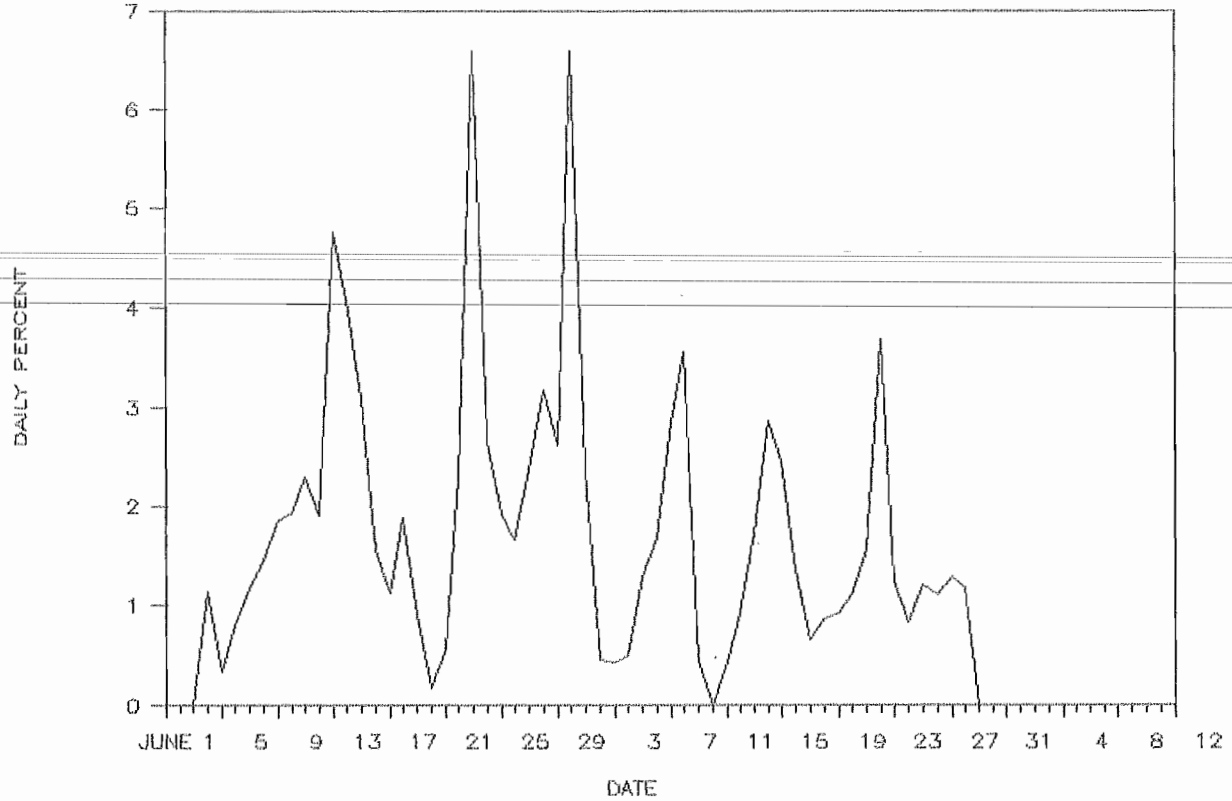


Figure II.10. TIMING THROUGH NASS TEST FISHERY 1975

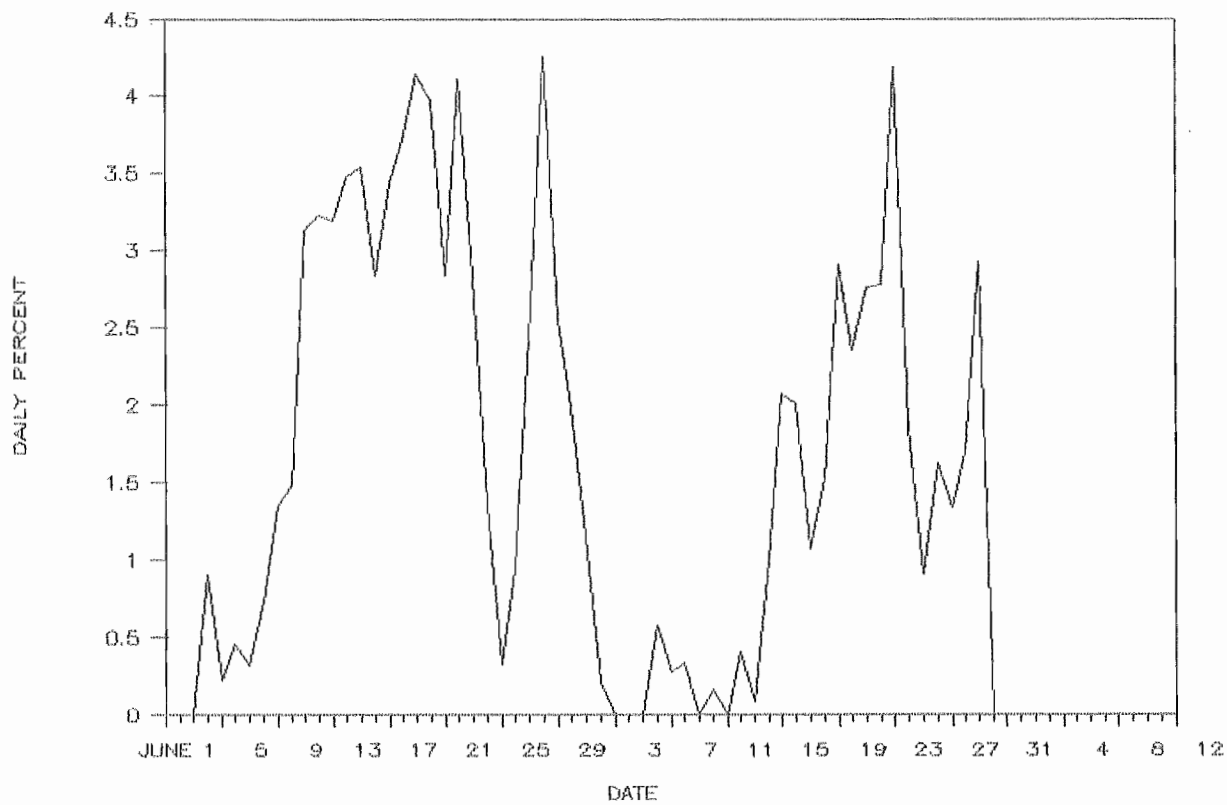


Figure II.11. TIMING THROUGH NASS TEST FISHERY 1976

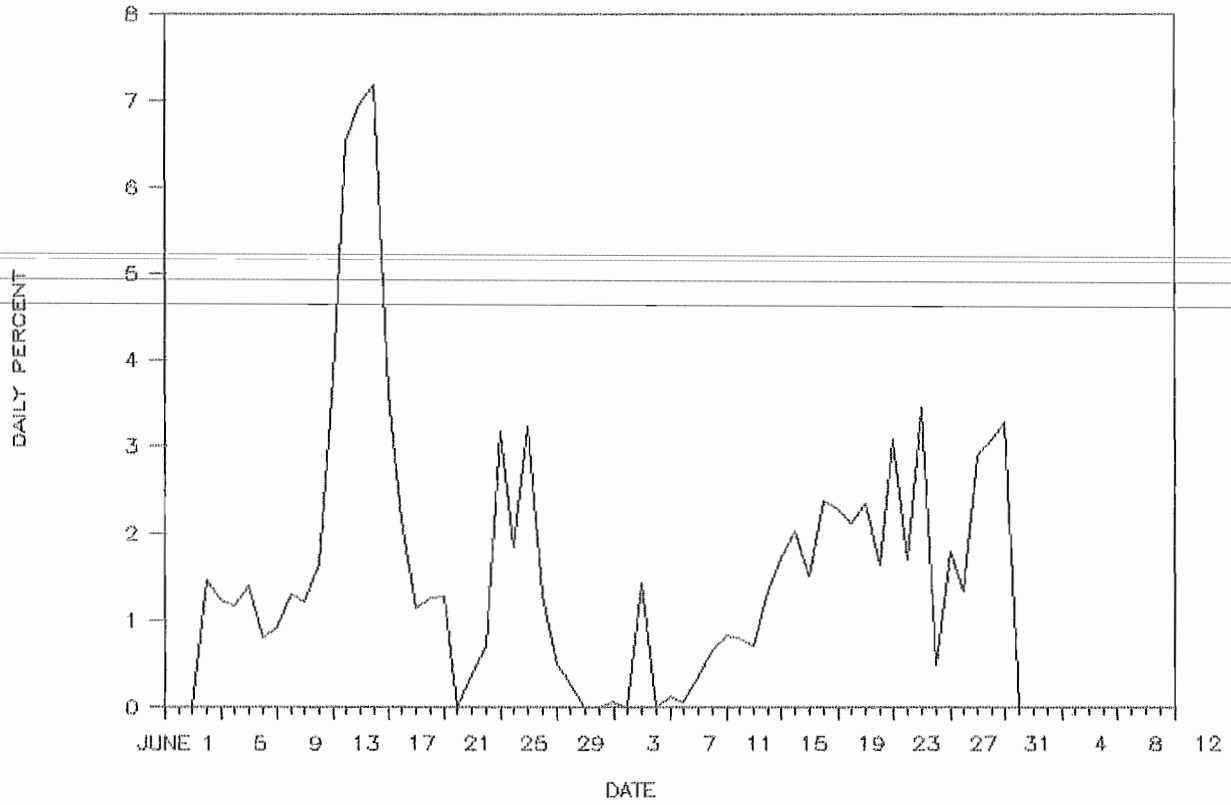


Figure II.12. TIMING THROUGH NASS TEST FISHERY 1977

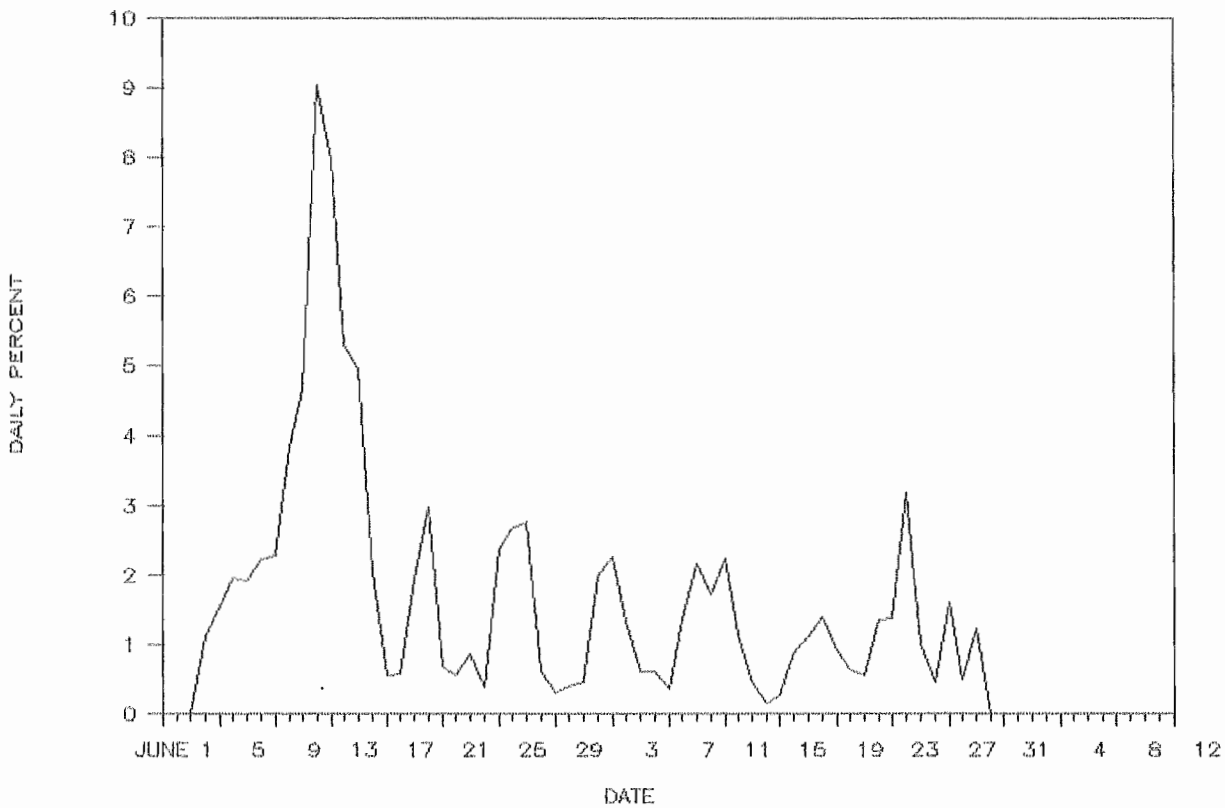


Figure II.13. TIMING THROUGH NASS TEST FISHERY 1978

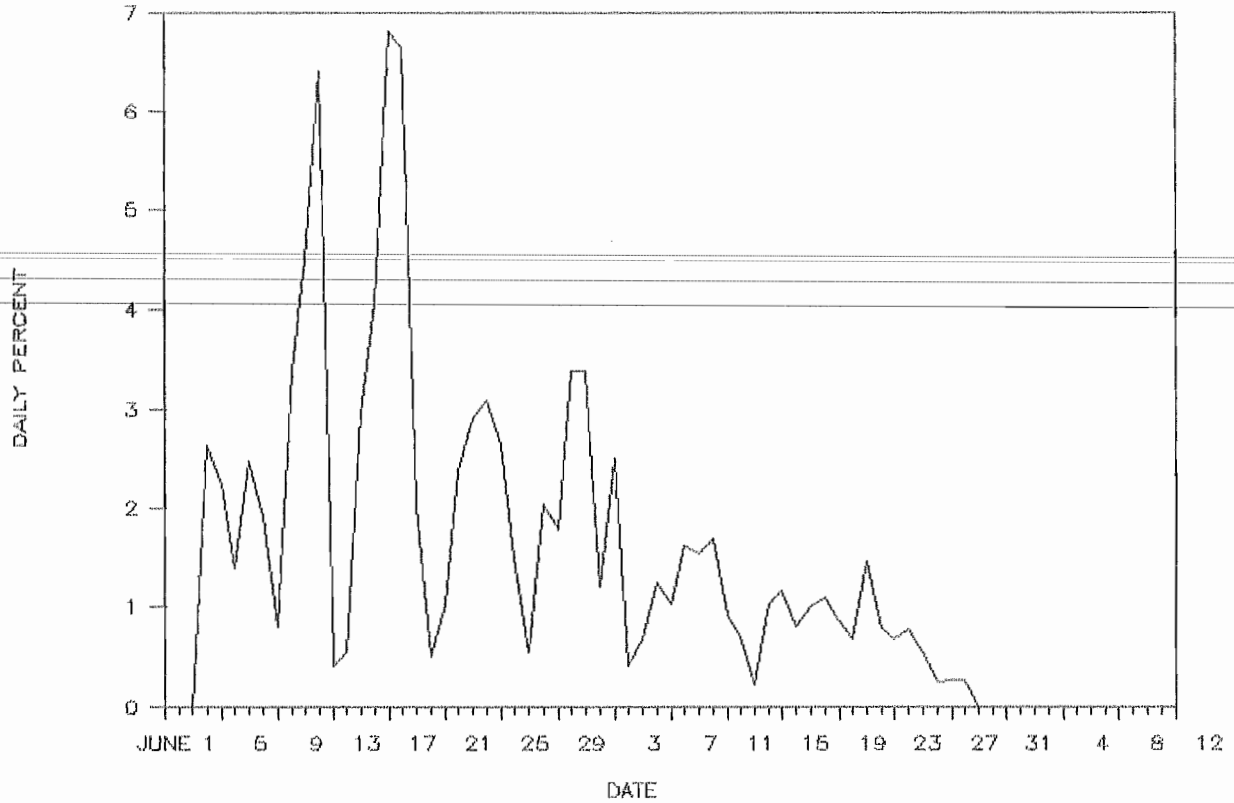


Figure II.14. TIMING THROUGH NASS TEST FISHERY 1979

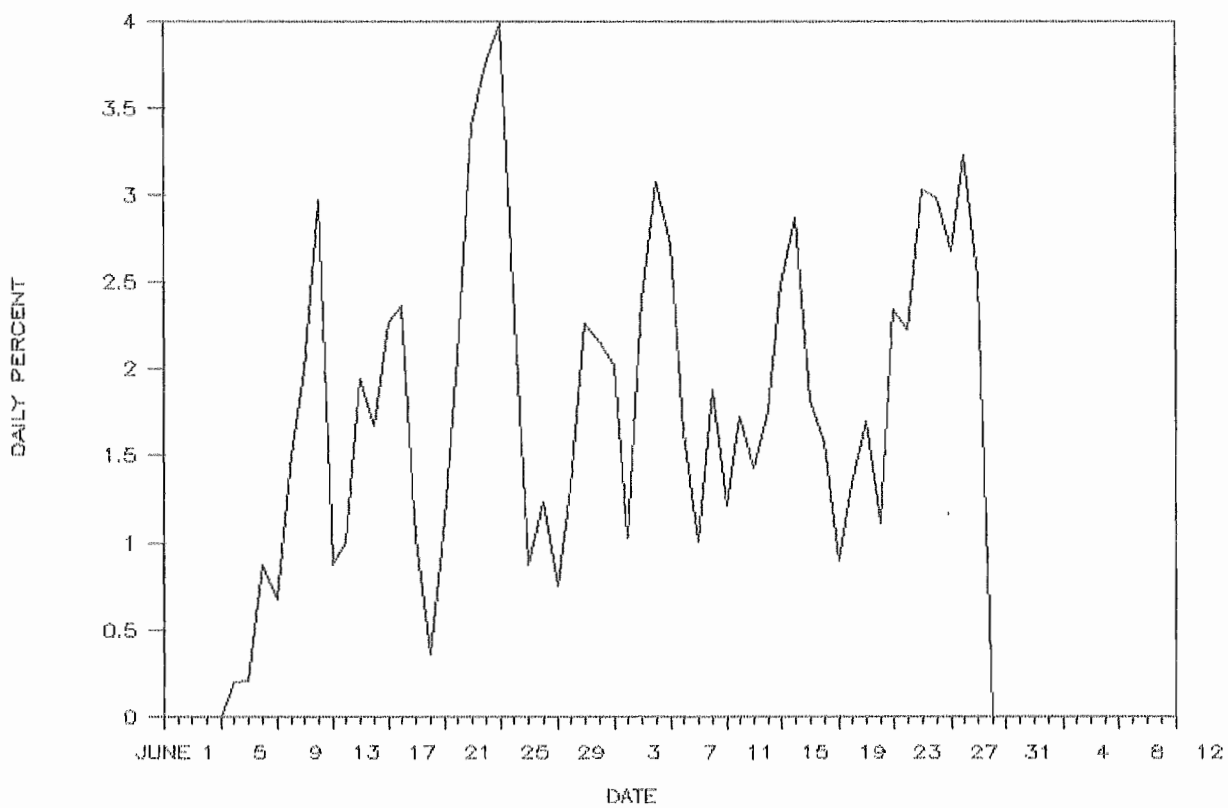


Figure II.15. TIMING THROUGH NASS TEST FISHERY 1980

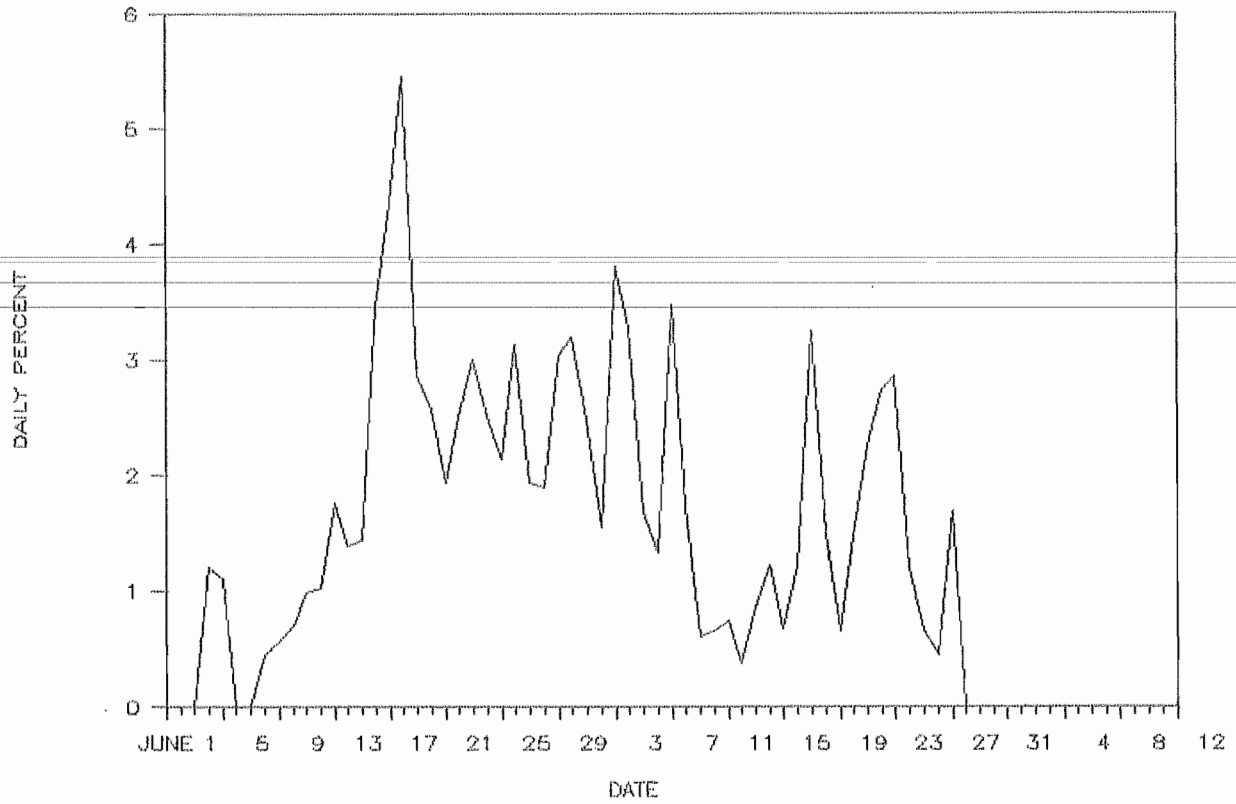


Figure II.16. TIMING THROUGH NASS TEST FISHERY 1981

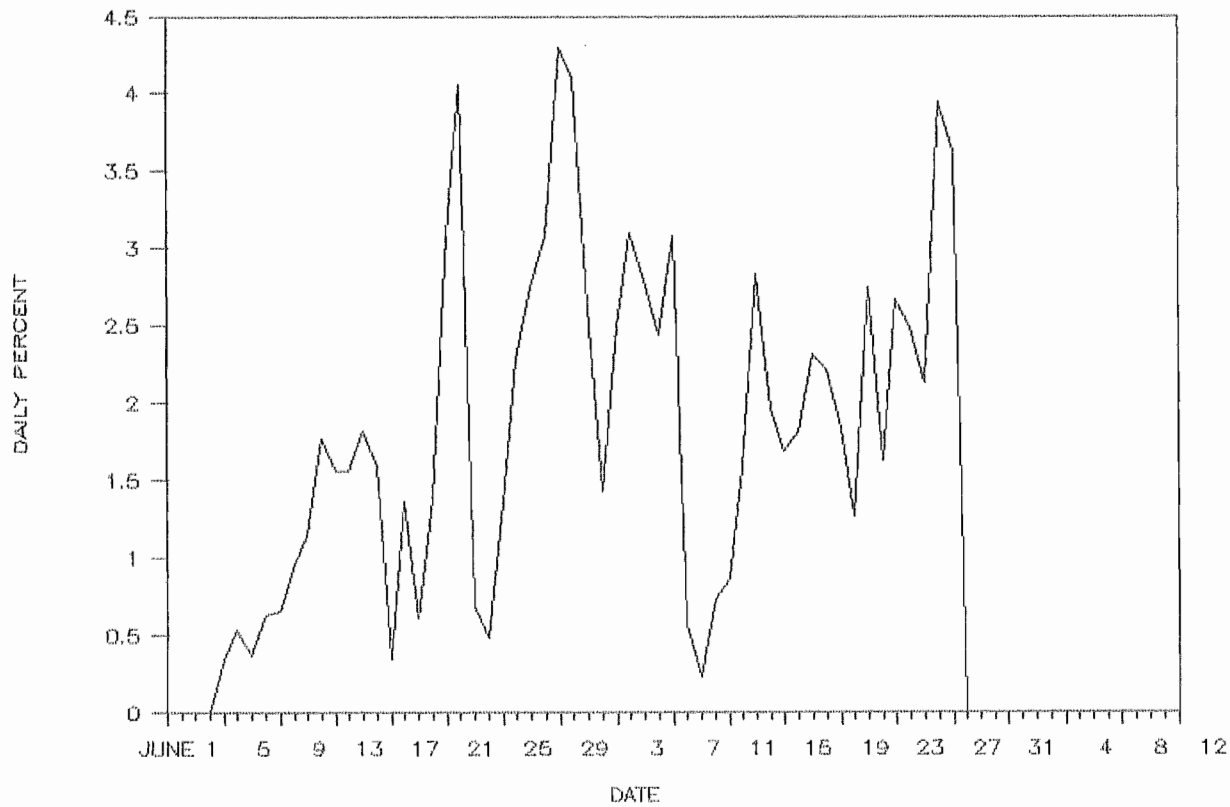


Figure II.17. TIMING THROUGH NASS TEST FISHERY 1982

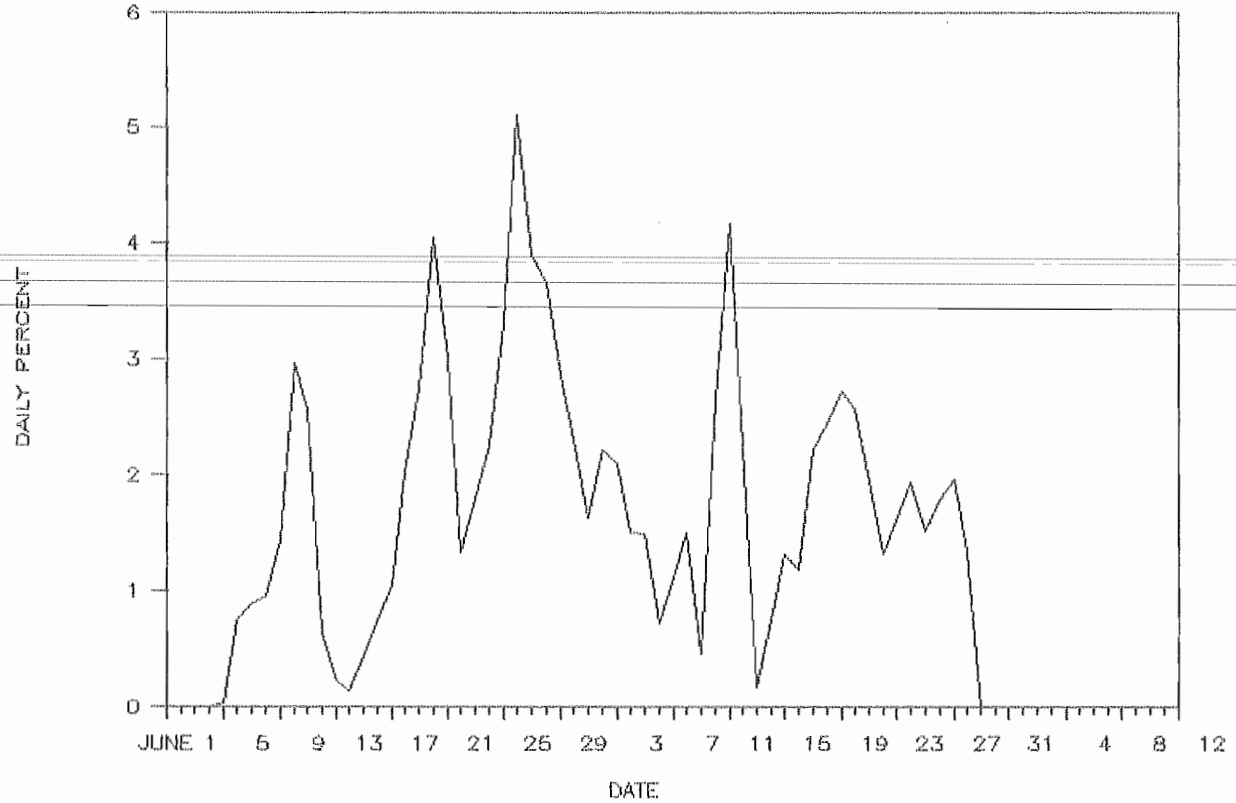


Figure II.18. TIMING THROUGH NASS TEST FISHERY 1983

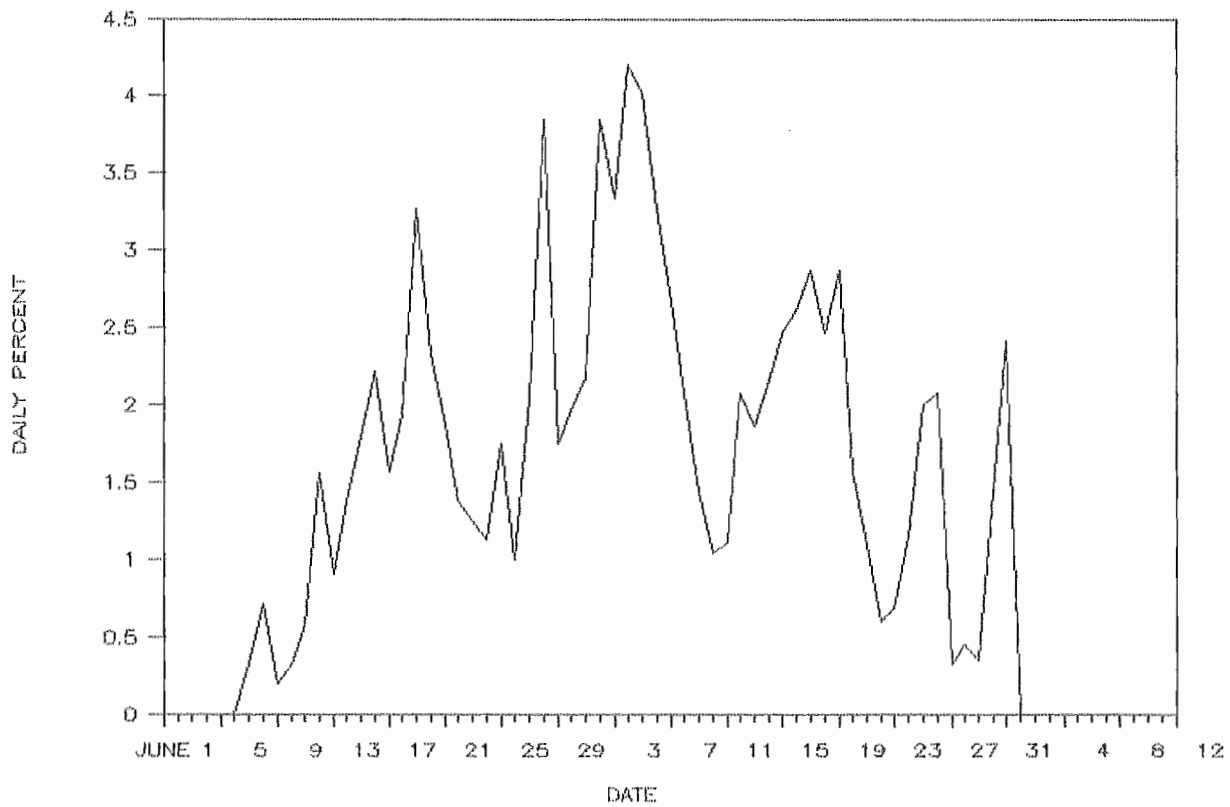


Figure II.19. TIMING THROUGH NASS TEST FISHERY 1984

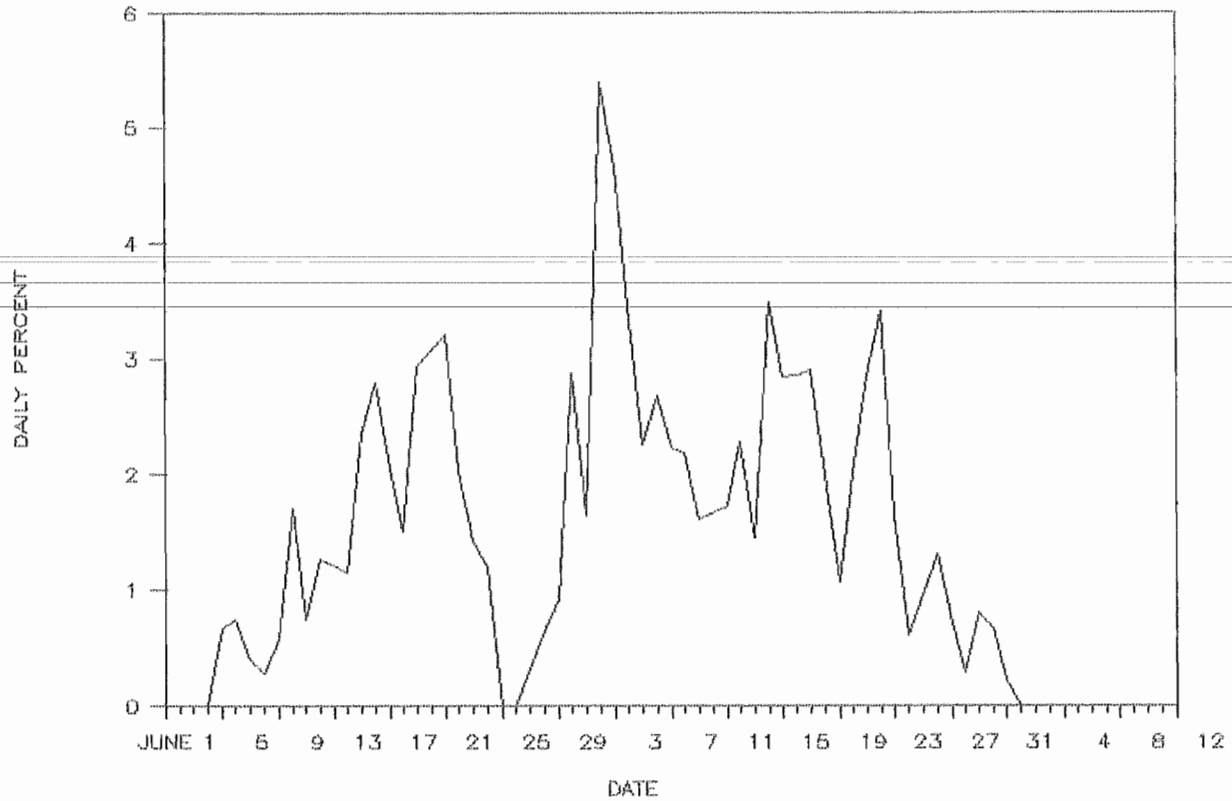


Figure II.20. TIMING THROUGH NASS TEST FISHERY 1985

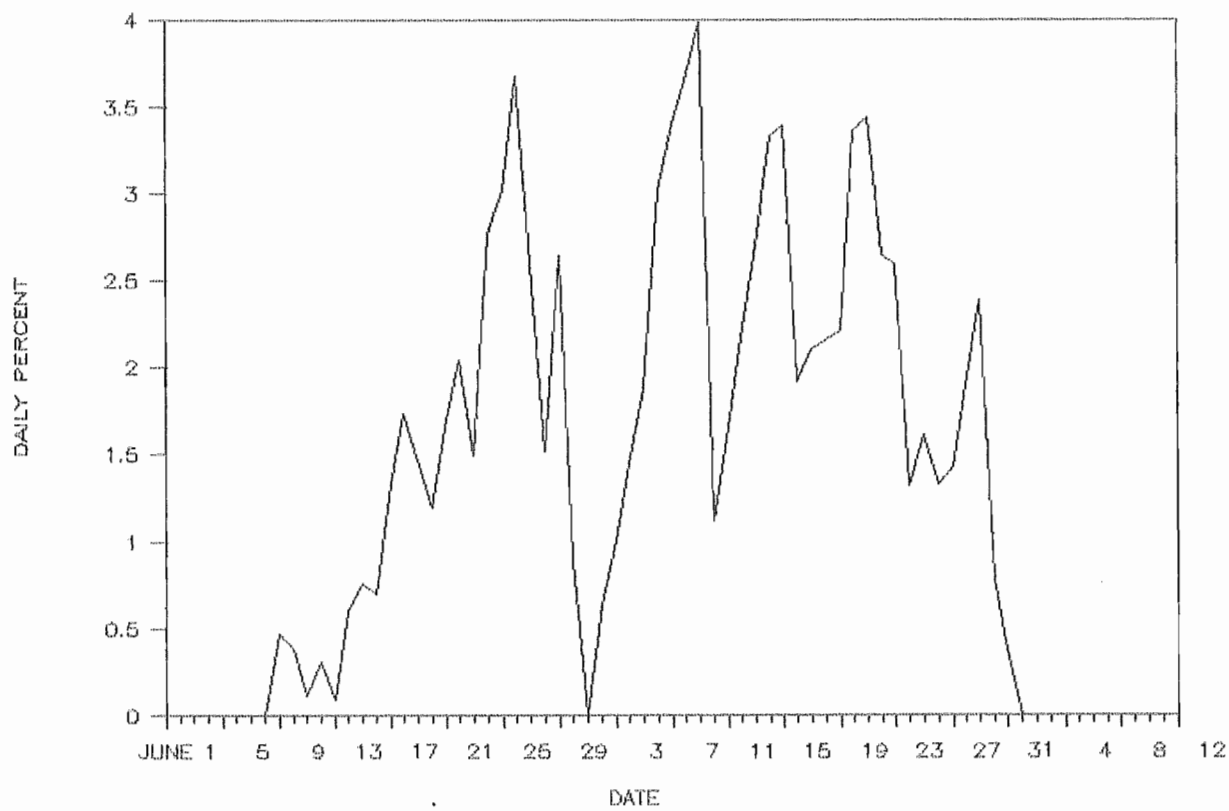


Figure II.21. TIMING THROUGH NASS TEST FISHERY 1986

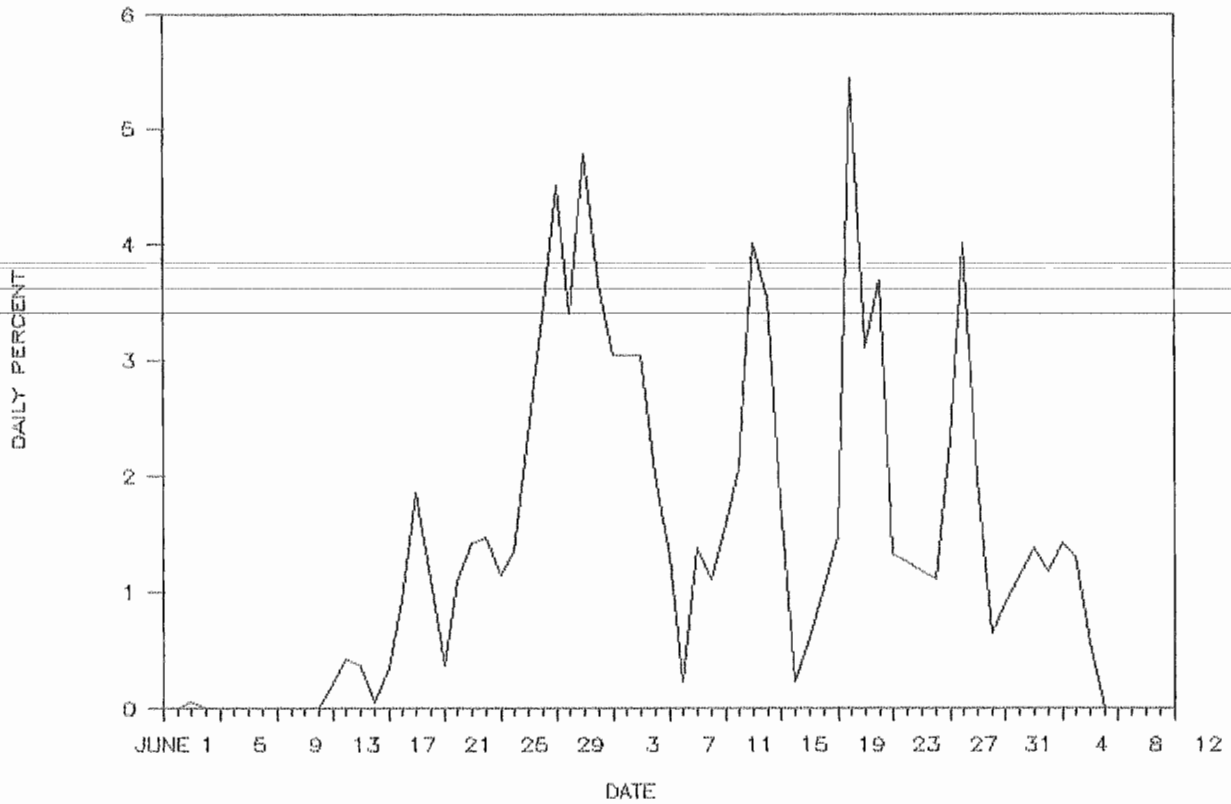


TABLE II.13 WEEKLY AGE COMPOSTION OF SOCKEYE FROM THE NASS TEST FISHERY 1970 TO 1985

1970

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10							
6-2	11-17	1.00	15.60	20.80	59.50	1.00	2.10	96
6-3	18-24		23.20	10.30	66.00		0.50	185
6-4	25-01	0.60	20.00	12.10	67.30			165
7-1	JUL 2-08		36.30	12.50	49.40	1.80		160
7-2	9-15		36.10	17.80	42.40	3.20	0.50	191
7-3	16-22		30.90	13.50	45.90	9.00	0.70	133
7-4	23-29		20.00	5.20	52.40	18.60	3.80	210
7-5	30-05		8.10	3.00	72.70	12.20	4.00	99

1971

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10							
6-2	11-17			50.00	50.00			10
6-3	18-24	2.50	12.70	20.30	54.40	6.30	3.80	79
6-4	25-01	5.10	23.10	17.90	48.70	2.60	2.60	39
7-1	JUL 2-08	1.20	23.60	6.90	66.60	0.60	1.10	347
7-2	9-15	0.40	24.90	11.60	59.60	2.50	1.00	277
7-3	16-22		38.40	11.70	46.60	2.60	0.70	307
7-4	23-29		42.80	7.00	44.50	3.90	1.80	229
7-5	30-05		33.60	4.20	55.00	3.80	3.40	238

1972

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10	4.40	8.90	24.40	6.70	55.60		45
6-2	11-17							
6-3	18-24	11.70	10.40	20.30	18.00	38.00	1.60	128
6-4	25-01	6.90	30.00	18.30	34.40	8.40	2.00	131
7-1	JUL 2-08							
7-2	9-15	0.70	24.20	21.10	45.40	8.30	0.30	289
7-3	16-22							
7-4	23-29		13.90	7.80	71.10	6.60	0.60	166
7-5	30-05		7.10		78.60	13.30	1.00	98

TABLE II.13 CONT WEEKLY AGE COMPOSTION OF SOCKEYE FROM THE NASS TEST FISHERY 1970 TO 1985

1973

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10	6.40	60.00	12.70	18.60	2.30		220
6-2	11-17	3.60	54.40	7.60	32.40	2.00		250
6-3	18-24	2.30	53.50	8.90	34.10	1.20		258
6-4	25-01	0.20	42.30	2.50	53.20	1.60	0.20	357
7-1	JUL 2-08		42.90	6.40	48.10	1.50	1.10	266
7-2	9-15		33.40	7.90	53.10	4.90	0.70	305
7-3	16-22		22.80	3.00	69.70	3.00	1.50	66
7-4	23-29		15.20	2.10	77.00	4.70	1.00	191
7-5	30-05							

1974

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10		7.30	58.50	22.00	12.20		41
6-2	11-17		8.20	42.90	33.30	15.60		294
6-3	18-24							
6-4	25-01		9.00	30.70	52.10	8.20		342
7-1	JUL 2-08		7.80	35.20	43.00	14.00		128
7-2	9-15		3.20	26.10	55.20	13.50		134
7-3	16-22		0.80	14.60	66.80	17.00	0.80	123
7-4	23-29		9.10	10.40	71.40	7.80	1.30	77
7-5	30-05							

1975

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10							
6-2	11-17	1.40	14.40	14.40	63.90	4.80	1.00	208
6-3	18-24	2.30	10.70	6.00	77.90	2.30	0.80	131
6-4	25-01	2.30	11.00	5.70	80.40		0.60	174
7-1	JUL 2-08		25.00	5.60	61.10	8.30		36
7-2	9-15		37.50	12.50	43.70	6.30		16
7-3	16-22		50.00	3.80	37.80	7.50	0.90	106
7-4	23-29		29.80	6.40	51.80	8.50	3.50	141
7-5	30-05		45.50		48.50	6.00		33

TABLE II.13 CONT WEEKLY AGE COMPOSTION OF SOCKEYE FROM THE NASS TEST FISHERY 1970 TO 1985

1976

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10			25.50	68.10	6.40		47
6-2	11-17	4.80	14.00	13.30	61.60	5.20	1.10	271
6-3	18-24	3.90	14.40	6.90	67.80	5.70	1.30	229
6-4	25-01	1.40	33.80	5.00	59.00	0.80		139
7-1	JUL 2-08		50.00		50.00			2
7-2	9-15		41.90	9.70	48.40			31
7-3	16-22		36.70	8.90	50.60	3.80		158
7-4	23-29	0.70	37.20	3.70	54.00	3.70	0.70	137
7-5	30-05		34.80	5.00	55.90	1.20	3.10	161

1977

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10	12.40	21.50	40.50	14.00	11.60		121
6-2	11-17	5.10	30.60	32.70	23.90	7.70		297
6-3	18-24	2.00	31.90	19.00	43.50	3.60		499
6-4	25-01		29.00	12.60	52.40	5.20	0.80	269
7-1	JUL 2-08		27.80	19.50	50.40	1.50	0.80	133
7-2	9-15		23.80	16.70	57.10	2.40		84
7-3	16-22		34.10	16.50	45.00	2.80	1.60	182
7-4	23-29		22.60	7.30	69.40	0.70		137
7-5	30-05		18.90	2.40	73.20	4.70	0.80	127

1978

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10		4.20	33.30	50.00	12.50		24
6-2	11-17		6.70	39.00	38.10	16.20		210
6-3	18-24		7.60	16.70	62.30	13.50		342
6-4	25-01		5.30	18.80	64.70	10.00	1.20	170
7-1	JUL 2-08		8.90	20.10	65.10	4.70	1.20	169
7-2	9-15		2.70	25.30	60.00	12.00		75
7-3	16-22		11.30	22.50	49.30	16.90		71
7-4	23-29		13.80	12.10	67.20	5.20	1.70	58
7-5	30-05		5.60		77.80	16.60		18

TABLE II.13 CONT WEEKLY AGE COMPOSTION OF SOCKEYE FROM THE NASS TEST FISHERY 1970 TO 1985

1979

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10	10.50	7.90	15.80	39.50	7.90	18.40	38
6-2	11-17	4.60	29.00	11.40	41.20	6.90	6.90	131
6-3	18-24	2.10	23.30	4.20	63.50	5.30	1.60	189
6-4	25-01	0.80	21.90	7.60	65.90	3.80		132
7-1	JUL 2-08	0.60	21.40	8.80	67.30	1.90		159
7-2	9-15		28.80	7.20	56.80	7.20		139
7-3	16-22		35.30	3.70	61.00			136
7-4	23-29		15.60	1.50	81.40	1.50		199
7-5	30-05							

1980

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10	37.10	2.90	14.30	45.70			35
6-2	11-17	35.50	1.60	4.80	54.90	3.20		62
6-3	18-24	19.30	12.30	3.80	59.40	4.20	1.00	212
6-4	25-01	4.60	11.00	2.90	78.60	2.30	0.60	173
7-1	JUL 2-08	0.60	19.50	7.50	66.70	5.70		160
7-2	9-15		23.50	9.20	58.10	9.20		98
7-3	16-22		21.40	6.00	66.60	6.00		84
7-4	23-29		26.60	9.60	56.40	6.40	1.00	94
7-5	30-05							

1981

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10		76.50	17.60			5.90	17
6-2	11-17							
6-3	18-24	10.10	76.10	1.80	11.90			109
6-4	25-01	4.60	75.40	2.30	17.70			260
7-1	JUL 2-08	1.00	69.90	2.80	24.40	1.90		316
7-2	9-15	0.70	63.90	3.50	31.20	0.70		144
7-3	16-22		43.30	2.40	53.50	0.80		247
7-4	23-29		27.60	1.70	67.70	3.00		297
7-5	30-05		17.10		80.50	2.40		41

TABLE II.13 CONT WEEKLY AGE COMPOSTION OF SOCKEYE FROM THE NASS TEST FISHERY 1970 TO 1985

1982

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10			80.00	20.00			10
6-2	11-17	1.90	3.20	64.50	27.60	2.80		214
6-3	18-24	0.50	7.30	50.90	39.50	1.80		218
6-4	25-01	1.10	14.90	32.20	50.40	1.40		369
7-1	JUL 2-08	0.80	16.30	33.30	47.50	2.10		240
7-2	9-15		20.30	43.00	32.90	3.80		158
7-3	16-22		29.70	34.40	29.20	6.80		192
7-4	23-29		17.90	17.40	54.50	10.10		218
7-5	30-05		10.40	3.50	74.80	11.30		115

1983

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10							
6-2	11-17		18.50	14.80	40.70	11.20	14.80	27
6-3	18-24	10.10	9.30	26.40	30.20	11.60	12.40	129
6-4	25-01	9.20	21.80	16.00	36.10	12.60	4.20	119
7-1	JUL 2-08	1.70	30.30	14.70	42.90	9.50	0.90	231
7-2	9-15		30.70	15.80	41.40	9.80	2.30	215
7-3	16-22		39.50	18.50	37.90	2.40	1.60	124
7-4	23-29		35.00	21.20	38.00	2.90	2.90	137
7-5	30-05	0.90	30.10	16.40	43.60	4.40	4.50	110

1984

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10	36.00	6.00	24.00	6.00	18.00	10.00	50
6-2	11-17	32.80	6.90	25.90	16.80	10.70	6.80	131
6-3	18-24	20.60	15.90	22.20	30.90	7.90	16.70	126
6-4	25-01	1.40	16.90	15.40	60.60	4.20	1.40	71
7-1	JUL 2-08	1.30	20.90	16.00	54.20	4.90	2.50	306
7-2	9-15		21.60	17.50	56.10	4.00	0.60	171
7-3	16-22		14.00	10.20	61.70	11.90	2.10	235
7-4	23-29		9.90	4.90	76.50	7.40	1.20	81
7-5	30-05				100.00			9

TABLE II.13 CONT WEEKLY AGE COMPOSTION OF SOCKEYE FROM THE NASS TEST FISHERY 1970 TO 1985

1985

STAT WEEK	RANGE OF WEEK ENDING DATES	4-1	4-2	5-2	5-3	6-3	OTHER	SAMPLE SIZE
5-4	MAY 28-3							
6-1	JUN 4-10		25.00	50.00	25.00			4
6-2	11-17	6.90	22.40	82.20	3.40	8.60	6.90	58
6-3	18-24	8.20	34.20	31.60	14.60	5.70	5.00	158
6-4	25-01	9.00	42.80	13.20	26.70	7.10	1.30	311
7-1	JUL 2-08	0.80	56.80	7.10	27.80	6.70	0.80	266
7-2	9-15		68.70	8.50	18.60	4.00	0.30	377
7-3	16-22		74.60	4.80	15.80	4.50	0.30	374
7-4	23-29		60.70	5.60	26.60	6.50	0.60	323
7-5	30-05		50.00	5.70	34.90	8.50	0.90	106

TABLE II.14 ANNUAL SOCKEYE AGE COMPOSITIONS FROM THE NASS TEST FISHERY 1964 TO 1985

YEAR	4-1	4-2	5-2	5-3	6-3	OTHER
1964		4.80	12.00	81.00	1.10	1.10
1965		59.10	1.50	31.10	4.60	3.70
1966		6.40	24.70	66.40	1.50	1.00
1967		59.40	10.20	23.30	5.50	1.60
1968	11.30	11.90	17.20	55.50	2.20	1.90
1969		46.40	9.60	36.60	5.50	2.20
1970	0.20	23.70	12.20	58.00	4.80	1.20
1971	0.70	30.10	10.50	55.10	2.80	0.70
1972	3.30	18.30	15.80	46.30	15.40	0.90
1973	1.50	42.70	6.60	46.10	2.60	0.50
1974		7.30	31.70	48.40	12.50	0.10
1975	1.20	22.20	7.70	63.10	4.60	1.20
1976	2.10	25.10	9.00	59.20	3.70	0.90
1977	2.20	28.60	19.40	44.80	4.60	0.40
1978		7.40	22.40	57.80	11.90	0.50
1979	1.40	23.60	6.20	61.80	3.60	3.40
1980	9.30	15.70	6.20	63.80	4.80	0.20
1981	1.90	56.00	2.50	38.20	1.30	0.10
1982	0.60	14.80	36.50	43.80	4.30	
1983	2.66	28.39	17.86	39.19	7.97	4.00
1984	7.80	15.76	16.27	49.58	7.80	2.79
1985	2.38	57.61	10.93	22.00	5.87	1.16

Table II.15. RELATIONSHIP BETWEEN ANNUAL NASS RIVER TEST FISHING INDEX OF SPAWNING ESCAPEMENT AND RECORDED ANNUAL SPAWNING ESCAPEMENT

YEAR	A RECORDED ESCAPEMENT	B TOTAL INDEX	RATIO A/B	PREDICTED ESCAPEMENT
1963	UNKNOWN	182.70	N/A	N/A
1964	163845	269.73	607	134890
1965	141242	222.81	634	111405
1966	112360	181.98	617	90990
1967	86713	190.72	455	95360
1968	104542	265.26	394	132730
1969	182312	253.49 a	719	N\A
1970	119112	288.49	413	115396
1971	252844	362.95	697	145180
1972	181230	235.18	771	94072
1973	292331	488.56	598	262625
1974	201403	319.69	630	175610
1975	88082	215.76	408	118668
1976	165305	303.76	544	167068
1977	424821	466.28	911	256454
1978	156818	269.70	581	148335
1979	222751	284.56	783	182418
1980	163088	252.84	645	151704
1981	265596	387.38	686	259746
1982	321251	427.22	752	260450
1983	194780	284.90	684	174599
1984	193650	321.51	602	198050
1985	373349	416.39	897	254831
1986	180559	279.98	645	181987

a-INCOMPLETE FIGURE DUE TO INTERUPTION IN FISHING BY FLOOD CONDITIONS AT PEAK MIGRATION

NOTE- 1986 FIGURES ARE PRELIMINARY

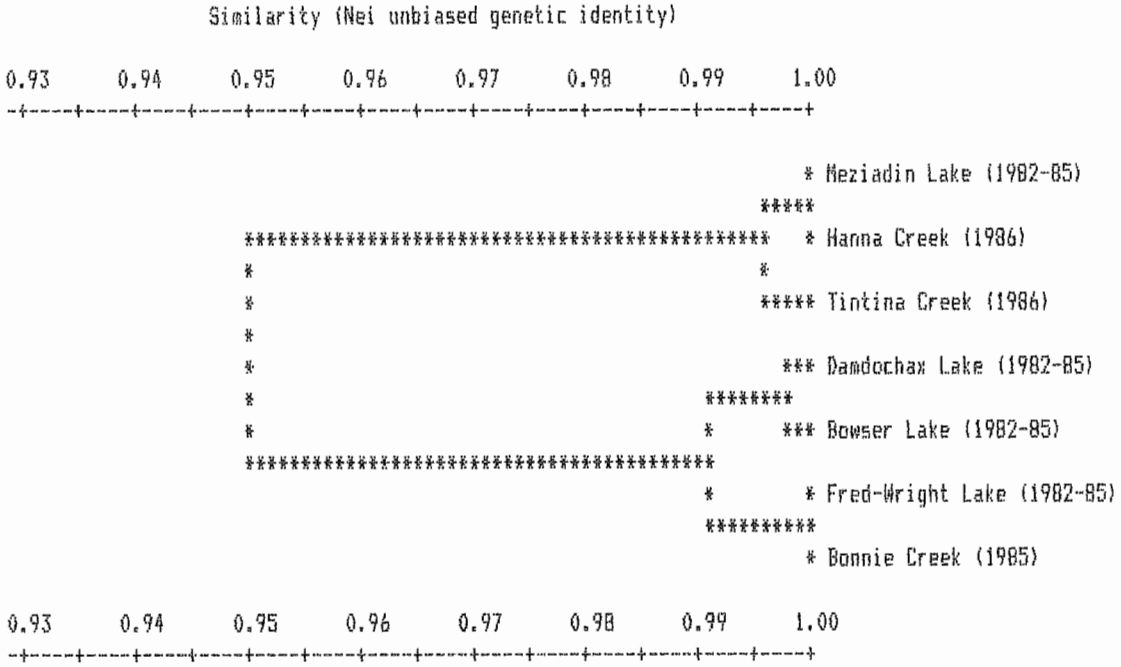
Table II.16. Nass River test fishery: stock composition 1986.

Mean estimated proportion with standard deviation* in parentheses.

Date of Sample	Sample Size	Proportion Allocated to: Meziadin	Bowser	Fred-Wright	Damdochax
June 3-22/86	73	0.296	0.077	0.552	0.074
		(0.101)	(0.103)	(0.120)	(0.040)
June 23-29/86	210	0.454	0.284	0.227	0.035
		(0.087)	(0.099)	(0.087)	(0.014)
June30-July 6/86	250	0.635	0.218	0.125	0.022
		(0.067)	(0.083)	(0.073)	(0.010)
July 7-20/86	226	0.487	0.319	0.155	0.039
		(0.084)	(0.108)	(0.088)	(0.014)
July 21-27/86	160	0.474	0.309	0.145	0.072
		(0.084)	(0.125)	(0.090)	(0.024)
July 28-Aug 6/86	206	0.774	0.192	0.019	0.015
		(0.072)	(0.082)	(0.032)	(0.009)
Respresentative sample over entire (weighted by daily C.P.U.E. index)	696	0.533	0.297	0.135	0.035
		(0.054)	(0.068)	(0.057)	(0.008)

* double SD to get approximate 95% C.I. for estimated proportion.

Figure II.22. Similarity dendrogram of Nass River sockeye based on three polymorphic enzymes (pgm-1, pgsm-2, ldh-4) from samples collected in 1982-1986.



APPENDIX III

"Indian Food Fishery"

Annual Indian food fish sockeye catch estimates are presented in this section from 1951 to 1986 for the six Indian villages in the Nass area (Table III.1). The Lower Nass grouping contains the Port Simpson and Kincolith villages which conduct their fisheries in the saltwater portion of Statistical Area 3. The Upper Nass grouping consists of Greenville, Canyon City, Aiyansh and Kitwancool villages. These natives fish in the Nass River proper in areas upstream of the test fishery at Monkley Dump. Weekly catch estimates for the Upper Nass group for the years 1985 and 1986 are presented in Table III.2. Weekly information prior to 1985 is not available as it was not compiled in this form. (Source: Management Biology files - Prince Rupert).

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Table III. 1. Area 3 Indian foodfish sockeye catch.

YEAR	UPPER NASS	LOWER NASS	TOTAL
1951	3500		3500
1952	2050		2050
1953	2000		2000
1954	4000		4000
1955	8000		8000
1956	10000		10000
1957	9000		9000
1958	8500		8500
1959	4000	1500	5500
1960	2000	500	2500
1961	6000	2000	8000
1962	9000	2200	11200
1963	4500	3100	7600
1964	8095	1950	10045
1965	7242	5241	12483
1966	6401	7080	13481
1967	7485	4808	12293
1968	9737	2479	12216
1969	3084	7681	10765
1970	5159	4072	9231
1971	6070	2107	8177
1972	4014	4521	8535
1973	8249	3188	11437
1974	8200	6225	14425
1975	14800	5279	20079
1976	22500	6883	29383
1977	25000	9983	34983
1978	9600	5656	15256
1979	9861	6276	16137
1980	7823	12191	20014
1981	9953	6103	16056
1982	15181	14600	29781
1983	9680	8255	17935
1984	11300	12925	24225
1985	10809	11341	22150
1986	8559	8520	17079

NOTES: UPPER NASS - AIYANSH, CANYON CITY, GREENVILLE & KITWANCOOL
LOWER NASS - KINCOLITH & PORT SIMPSON

Table III. 2. Area 3 weekly Indian foodfish sockeye catch for 1985.

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1985 WEEKLY	1985 CUM	1986 WEEKLY	1986 CUM
19	5-1	MAY 7-13				
20	5-2	14-20				
21	5-3	21-27				
22	5-4	28-03				
23	6-1	JUN 4-10				
24	6-2	11-17				
25	6-3	18-24			74	345
26	6-4	25-01			530	875
27	7-1	JUL 2-08			N/A	N/A
28	7-2	09-15	1342	4858	N/A	N/A
29	7-3	16-22	1526	6384	4274	5727
30	7-5	23-29	1091	7475	1452	7179
31	8-1	30-05	780	8255	575	7754
32	8-2	AUG 6-12	660	8915		
33	8-3	13-19	509	9424		
34	8-4	20-26				
35	9-1	27-02				
36	9-2	SEP 3-09				
37	9-3	10-16				

APPENDIX IV

"Commercial Catch"

This section deals with data relating to the commercial net catch of sockeye in Canadian fishing Areas 1, 3X(3-1), 3Y(3-2, 3-3 to 3-4), and 3Z(3-7 to 3-17), and 4, and S.S.E. Alaskan fishing Districts 101 and 104. Tables IV.1 to IV.42 summarize the weekly catch by gear in the above mentioned fisheries. The breakdown of the sockeye catch into Skeena and Nass stocks is presented in Table IV.43. Figures IV.1 to IV.4 show the trends in commercial net harvest of sockeye in Areas 3X, 3Y and 3Z and Area 3 as a whole from 1960 to 1986.

Derivation of Canadian catch statistics

The Canadian historical salmon catch figures are the final published saleslip values. Historically these were published with blue covers and are often referred to as "Blue Book Figures". There is currently a one to two year lag from when the fishery occurs to when the final updates and checks of the saleslip figures are complete, and the report is published. The implication of this lag period is that the current year and often the previous years figures are preliminary and subject to change. The 1985 catch figures used in this report are those issued in the December 3, 1985, saleslip printout and will be changed when the final figures are forthcoming. Catch data from 1986 for this report are hail figures since the early deadline for the presentation of the report required that tables be composed in early October.

Hail catch data is used for inseason managment of Canadian salmon fisheries in the North Coast. Information on commercial catches is obtained by fishery officers during fishing openings. Catches are "hailed" or verbally passed on to fishery officers by fishermen who for the most part visually estimate their catches. In many cases, particularly with gillnets, catches may be delivered to other vessels (packers) in the fishing area. The officers may collect catch information from the packers; in these instances the fish are usually weighed and counted individually. Although methods will vary, fishery officers obtain catches from a proportion of the fleet and then expand this, based on aerial or patrol vessel gear counts, to arrive at a total catch for all gear. Usually this requires that the fishing area be subdivided into several smaller areas determined by factors such as species mix in the catch and gear type. Each area would be sampled separately and the results expanded accordingly to arrive at a total catch. In extended fisheries, the fishery officer may sample a large proportion of the fleet and in many instances will obtain catch estimates from virtually all of the vessels.

Catch data for Area 3 is presented by subarea in some tables. Prior to 1983 catch data is recorded by subareas 3X, 3Y and 3Z. In 1983, management subareas were converted from 3X, 3Y, 3Z to 3(1-7) (see discussion in following section of report). Saleslip reporting continued as 3X, 3Y and 3Z. As these subareas are not quite comparable to management units 3(1-17) catch figures since 1983 are calculated using hail information to prorate weekly saleslip data to each subarea. A list of tables is provided as a guide to the information available in the data summaries. Two headings on the catch tables may require clarification. "Days Fishing" is the number of days in the week or year that the fishery was open. "Boat Days" is the sum of the number of boats operating each day throughout the fishery. For example, one boat fishing for one day is one boat day, a 3 day fishery with 30 boats the first day, 25 the second and 35 the third day would be 90 boat days of effort for the week.

Description of Area 3 Subareas

Historically, Area 3 catches were reported for subareas 3X, 3Y and 3Z. In 1983, in response to a coastwide conversion to management units, the subareas were transformed into the numbered series 3-1 through 3-15. Subareas 3-16 and 3-17 were added in 1984. The geographical areas represented by subareas 3X, 3Y and 3Z and 3(1-17) are illustrated in Figures and .

Two boundary changes occured in the conversion to management units. The first is a shift of the old 3X/3Y boundary from the North-west corner of Dundas Island to the new 3-1/3-3 boundary on the North-east corner of Dundas Island. The result of this change is that historical catches reported in subarea 3X are not directly comparable to current catches in a distinct subarea. Subarea 3-1 is slightly larger than 3X.

The second change was a shift in the old 3Y/3Z boundary from the west side of Tracy Bay (south end of Wales Island) to the new 3-3/3-7 boundary on the east side of Tracy Bay.

The first boundary change is relatively unimportant for Canada-U.S. purposes since the most common catch comparisons are between the "interception" (subareas 3(1-4)) and "non-interception" (subareas 3(7-17)) areas. Since the interception area describes subareas 3-1, 3-2, 3-3 and 3-4 or 3X plus 3Y,and △ 3Z (described below), this first boundary change does not alter the interception area catch. The second boundary change, however, does complicate the picture since a small part (△ 3Z or Tracy Bay) of the former subarea is now included in the interception area (3(1-4)) formerly 3(X + Y + △3Z).

The history behind this change is that in 1983 when the numerical subareas were createdthis secondary boundary shift was intended to allow pink catch in the "interception" area to be caluculated more easily. Prior to 1983 25% of the 3Z pink catch was added to the outside catch to account for the Tracy Bay pink catch which was included as an interception catch. Although the Tracy Bay catch is obviously not always 25% of the 3Z pink catch this figure was chosen as the best estimate of the historical proportion. The Tracy Bay area was designated the name Delta 3Z (△3Z) as it was located in subarea 3Z. It was considered to be a major interception area of U.S. pink salmon. As such it was included with 3X and 3Y for Canada/U.S. discussions relating to pink salmon interception.

The Area 3 annual pink catch tables for interception and non-interception areas presented in the 1985 Northern Boundary Technical Report were calculated as described above for the years 1973-1982. The 1983-1984 data was calculated by prorating the annual saleslip total Area 3 pink catch to 3(1-4) and 3(7-17) based on subarea annual hail catch totals. Pink catches for 1985 were calculated from total annual (preliminary) saleslips and allocated to 3(1-4) and 3(7-17) using weekly hail catch estimates to provide weekly catches in each subarea.

Catch information for species other than pink salmon have also been reported by subarea 3X, 3Y and 3Z for years prior to 1983. As for pinks, in 1983 and 1984 catch figures were recorded only by subareas 3-1, 3-2 to 3-4, and 3-7 to 3-17, hence comparisons with previous years catches is awkward as the areas are slightly different. From 1985 on, catches have been recorded in both formats so comparisons with historical data can be accomodated. The 1986 figures, for all species, are based entirely on hail data and will be updated as salestip information becomes available.

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TABLE IV.1
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3X(3-1)

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17										5
25	6-3	18-24		6956	10585		15	1		1		
26	6-4	25-01		11810	10019	1181		24	2084	1567	1741	2320
27	7-1	JUL 2-08	4102	6628	5177	2503	2192	6408	1182	5130	11521	6407
28	7-2	09-15	3499	7867	5358	351	1865	1886	4284	10302	22103	8763
29	7-3	16-22	1680	1467	22896		840	3306	5547	42144	19540	17819
30	7-4	23-29	2977	114	4001		19564	514	5605	11674	20895	10217
31	7-5	30-05	2290	5043	2281		3645	496	3013	7142	3434	1551
32	8-1	AUG 6-12	625	596	1252	316	2457	1559	1215	266	1262	1185
33	8-2	13-19	184	1048	274	10	159	1090	678		93	320
34	8-3	20-26	15	179	34	32		303	46	7	102	237
35	8-4	27-02	129	4	32			10	10		22	48
36	9-1	SEP 3-09	69	2	13		7	35	2	1	5	7
37	9-2	10-16	17		14	9		1	1			
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			15587	41714	61936	4402	30744	15633	23667	78234	80718	48879

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.2
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3X(3-1)

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17										
25	6-3	18-24		13								
26	6-4	25-01		101	9					131	178	20
27	7-1	JUL 2-08		135	10	77	30	330	124	835	1897	217
28	7-2	09-15		24	1172		29	41		8025	13189	368
29	7-3	16-22	2	1395	1144				843	27088	3064	6380
30	7-4	23-29	382	153			2992	274	141	15369	1248	2022
31	7-5	30-05		91			12838	726	2158	15427	61	683
32	8-1	AUG 6-12			390		2408	53		627		1721
33	8-2	13-19	5	208			1	419	231		95	411
34	8-3	20-26						164	338	83	19	83
35	8-4	27-02					34				4	38
36	9-1	SEP 3-09	1								8	29
37	9-2	10-16										
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			390	2120	2725	77	18332	2007	3835	67585	19763	11972

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.3
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3X(3-1)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17										5
25	6-3	18-24		6969	10585		15	1		1		
26	6-4	25-01		11911	10028	1181		24	2084	1698	1919	2340
27	7-1	JUL 2-08	4102	6763	5187	2580	2222	6738	1306	5965	13418	6624
28	7-2	09-15	3499	7891	6530	351	1894	1927	4284	18327	35292	9131
29	7-3	16-22	1682	2862	24040		840	3306	6390	69232	22604	24199
30	7-4	23-29	3359	267	4001		22556	788	5746	27043	22143	12239
31	7-5	30-05	2290	5134	2281		16483	1222	5171	22569	3495	2234
32	8-1	AUG 6-12	625	596	1642	316	4865	1612	1215	893	1262	2906
33	8-2	13-19	189	1256	274	10	160	1509	909		188	731
34	8-3	20-26	15	179	34	32		467	384	90	121	320
35	8-4	27-02	129	4	32		34	10	10		26	86
36	9-1	SEP 3-09	70	2	13		7	35	2	1	13	36
37	9-2	10-16	17		14	9		1	1			
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			15977	43834	64661	4479	49076	17640	27502	145819	100481	60851

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.4
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3X(3-1)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03								34		
23	6-1	JUN 4-10			78	4			18		89	
24	6-2	11-17	3	3	58	12			25	425	618	
25	6-3	18-24			645	90	72		587	481	3786	1196
26	6-4	25-01	869		6675	6827	2	44	21	8	961	
27	7-1	JUL 2-08	3723	890	5051	2668	14283	2249			8945	9
28	7-2	09-15	1254	1069	5476	3056	13712	4932	2975	15211	13386	7883
29	7-3	16-22	2776	7085	9671	6913	13100		1441	24660	2768	32932
30	7-4	23-29	7104	16263	1536	7783	6079	25517	725	7002	2317	10811
31	7-5	30-05			10465	2606	15142	780	2123	1463	3436	1752
32	8-1	AUG 6-12	1639		1156	217		472	1132	2964	558	
33	8-2	13-19	22	495	520			8		443	460	
34	8-3	20-26	87	458	56		39			87	94	708
35	8-4	27-02	1	293	2		4	9	16		43	
36	9-1	SEP 3-09		93	2		1	3		5106	5	42
37	9-2	10-16		1	3			1		797	4	
38	9-3	17-23							76			
39	9-4	24-30								22		
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			17478	26650	41394	30176	62434	34015	9139	58703	37470	55333

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.5
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3X(3-1)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17									16	
25	6-3	18-24									208	
26	6-4	25-01	25		81	575					22	3
27	7-1	JUL 2-08			608	1627	3620	173			3963	
28	7-2	09-15		30	56	592	14722	993	108	3185	16285	382
29	7-3	16-22	49	2062	1668	6374	6760		80	30317	1686	51328
30	7-4	23-29	614	3118	4730	6267	14108	8215	8202	29552	4700	14133
31	7-5	30-05			958	914	32270	14590	16211	41563	4570	10587
32	8-1	AUG 6-12	145		963	346			11609	10475	2918	
33	8-2	13-19	172	1120						1960	1120	
34	8-3	20-26		421						52	64	462
35	8-4	27-02	36	153					4		4	
36	9-1	SEP 3-09		54								36
37	9-2	10-16	2					3				
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			1043	6958	9064	16695	71480	23974	36214	117104	35556	76931

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.6
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3X(3-1)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03								34		
23	6-1	JUN 4-10			78	4			18		89	
24	6-2	11-17	3	3	58	12			25	425	634	
25	6-3	18-24			645	90	72		587	481	3994	1196
26	6-4	25-01	894		6756	7402	2	44	21	8	983	3
27	7-1	JUL 2-08	3723	890	5659	4295	17903	2422			12908	9
28	7-2	09-15	1254	1099	5532	3648	28434	5925	3083	18396	29671	8265
29	7-3	16-22	2825	9147	11339	13287	19860		1521	54977	4454	84260
30	7-4	23-29	7718	19381	6266	14050	20187	33732	8927	36554	7017	24944
31	7-5	30-05			11423	3520	47412	15370	18334	43026	8006	12339
32	8-1	AUG 6-12	1784		2119	563		472	12741	13439	3476	
33	8-2	13-19	194	1615	520			8		2403	1580	
34	8-3	20-26	87	879	56		39			139	158	1170
35	8-4	27-02	37	446	2		4	9	20		47	
36	9-1	SEP 3-09		147	2		1	3		5106	5	78
37	9-2	10-16	2	1	3			4		797	4	
38	9-3	17-23							76			
39	9-4	24-30								22		
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			18521	33608	50458	46871	133914	57989	45353	175807	73026	132264

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.7
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3X(3-1)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10	40						
24	6-2	11-17	32						
25	6-3	18-24	107	61	2552				
26	6-4	25-01	137		1136				
27	7-1	JUL 2-08	151	42	253				
28	7-2	09-15	9764	20455	6787		6285	12549	3048
29	7-3	16-22	19376	46108	6449	1507	13446	9136	1250
30	7-4	23-29	4890	8272	9374	16356	7207	8347	1215
31	7-5	30-05	2317	2276	5081	663	475	5843	5648
32	8-1	AUG 6-12	194		3584	22	814	459	990
33	8-2	13-19	614	23	5080	438	70	121	
34	8-3	20-26	47		840	100	53		
35	8-4	27-02	171		277				
36	9-1	SEP 3-09	3		65		2		
37	9-2	10-16			51				
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			37843	77237	41529	19086	28352	36455	12151

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.8
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3X(3-1)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10							
24	6-2	11-17							
25	6-3	18-24			126				
26	6-4	25-01		15	106				
27	7-1	JUL 2-08			48				
28	7-2	09-15	7450	17866	35479				
29	7-3	16-22	11176	44703	62717	4157	19501	19297	9676
30	7-4	23-29	21069	17319	50016	49564	47520	26853	12423
31	7-5	30-05	10645	14734	28741	11529	6204	24282	14166
32	8-1	AUG 6-12	269		53892	976	5522	7418	4250
33	8-2	13-19	1331		1052	8153	9022	353	
34	8-3	20-26	34		3405	2153	2938		
35	8-4	27-02	176		191				
36	9-1	SEP 3-09	4214		196		381		
37	9-2	10-16			1226				
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			56364	94637	237195	76532	91088	78203	40515

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.9
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3X(3-1)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10	40						
24	6-2	11-17	32						
25	6-3	18-24	107	61	2678				
26	6-4	25-01	137	15	1242				
27	7-1	JUL 2-08	151	42	301				
28	7-2	09-15	17214	38321	42266		6285	12549	3048
29	7-3	16-22	30552	90811	69166	5664	32947	28433	10926
30	7-4	23-29	25959	25591	59390	65920	54727	35200	13638
31	7-5	30-05	12962	17010	33822	12192	6679	30125	19814
32	8-1	AUG 6-12	463		57476	998	6336	7877	5240
33	8-2	13-19	1945	23	6132	8591	9092	474	
34	8-3	20-26	81		4245	2253	2991		
35	8-4	27-02	347		468				
36	9-1	SEP 3-09	4217		261		383		
37	9-2	10-16			1277				
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			94207	171874	278724	95618	119440	114658	52666

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.10
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3Y(3-2/4)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03								1		1
23	6-1	JUN 4-10				1	2			5	8	
24	6-2	11-17				2	3	13	1	25	8	37
25	6-3	18-24		12299	17123	7	85	2	5	28	6	75
26	6-4	25-01	31	18949	8251	3367	21		3794	500	5533	2130
27	7-1	JUL 2-08	12625	15400	3336	3587	4778	9860	1723	2389	4028	6048
28	7-2	09-15	3934	4092	2405	1517	4479	4044	5541	7686	8498	4104
29	7-3	16-22	1758	5723	13120		7049	4225	11501	40420	18756	6845
30	7-4	23-29	1128	665	2982		7569	2226	8580	33627	16635	7111
31	7-5	30-05	1106	3170	3347		7763	551	16167	14291	5154	2775
32	8-1	AUG 6-12	738	2626	2613	2272	766	3878	3510	3255	803	2505
33	8-2	13-19	2159	4753	663	449	215	207	3508		557	702
34	8-3	20-26	1049	761	235	865	172	628	544	477	329	992
35	8-4	27-02	399	161	68		18	235	229	123	37	538
36	9-1	SEP 3-09	134	18	76		39	88	60	49	32	105
37	9-2	10-16	74	5	27	231	21	31	12	19	3	40
38	9-3	17-23	32			131	1	50	4	1		
39	9-4	24-30										
40	10-1	OCT 1-07							2			
41	10-2	08-14										
42	10-3	15-21										
TOTAL			25167	68622	54246	12429	32981	26038	55181	102896	60387	34008

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.11
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3Y(3-2/4)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17										
25	6-3	18-24		137	18							
26	6-4	25-01		1253	38	19			35	16	1544	130
27	7-1	JUL 2-08	671	622	372	175	208	732	203	244	534	316
28	7-2	09-15	354	270	375	7	20	402		3294	2995	805
29	7-3	16-22	356	7070	537		1128	259	1230	26377	12269	1646
30	7-4	23-29	928	2702	8		818	579	4173	15009	4426	2919
31	7-5	30-05		2007			12007	40	7528	41007	1158	7249
32	8-1	AUG 6-12	48	2742	295	34	2478	45	3321	1489	442	4010
33	8-2	13-19		198			35	523	5198		508	1190
34	8-3	20-26		58	12	165	103	7	907	86	155	585
35	8-4	27-02		1	2		80	102	57	16	12	295
36	9-1	SEP 3-09		3	6		90	16	3		21	163
37	9-2	10-16				8		4				
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			2357	17063	1663	408	16967	2709	22655	87538	24064	19308

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.12
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3Y(3-2/4)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03								1		1
23	6-1	JUN 4-10				1	2			5	8	
24	6-2	11-17				2	3	13	1	25	8	37
25	6-3	18-24		12436	17141	7	85	2	5	28	6	75
26	6-4	25-01	31	20202	8289	3386	21		3829	516	7077	2260
27	7-1	JUL 2-08	13296	16022	3708	3762	4986	10592	1926	2633	4562	6364
28	7-2	09-15	4288	4362	2780	1524	4499	4446	5541	10980	11493	4909
29	7-3	16-22	2114	12793	13657		8177	4484	12731	66797	31025	8491
30	7-4	23-29	2056	3367	2990		8387	2805	12753	48636	21061	10030
31	7-5	30-05	1106	5177	3347		19770	591	23695	55298	6312	10024
32	8-1	AUG 6-12	786	5368	2908	2306	3244	3923	6831	4744	1245	6515
33	8-2	13-19	2159	4951	663	449	250	730	8706		1065	1892
34	8-3	20-26	1049	819	247	1030	275	635	1451	563	484	1577
35	8-4	27-02	399	162	70		98	337	286	139	49	833
36	9-1	SEP 3-09	134	21	82		129	104	63	49	53	268
37	9-2	10-16	74	5	27	239	21	35	12	19	3	40
38	9-3	17-23	32			131	1	50	4	1		
39	9-4	24-30										
40	10-1	OCT 1-07							2			
41	10-2	08-14										
42	10-3	15-21										
TOTAL			27524	85685	55909	12837	49948	28747	77836	190434	84451	53316

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.13
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3Y(3-2/4)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03			1		5					
23	6-1	JUN 4-10		4	17	10	57		47			4
24	6-2	11-17			26	196	358	35	35		2278	4733
25	6-3	18-24	62	2	342	20	136	161	430	428	1934	
26	6-4	25-01	4697	73	10372	7447	23	1562	5		2408	
27	7-1	JUL 2-08	8391	787	4784	10641	11808	2141			5708	1126
28	7-2	09-15	6935		2761		11954	2526	1936	2306	5028	7671
29	7-3	16-22	2277	2954	15269	13214	28770		1246	8857	1282	3589
30	7-4	23-29	7069	19731	2740	9133	15079	1899	4725	3007	2530	3194
31	7-5	30-05			16923	3541	8026	4417	3786	4280	8077	
32	8-1	AUG 6-12	4276		2980	491			352	1131	585	
33	8-2	13-19	3072	8048	1670			734		872	188	1532
34	8-3	20-26	357	2451	159		230	87		163	213	
35	8-4	27-02	63	866	85	431	67	47	137	6	19	289
36	9-1	SEP 3-09	41	292	9	3	60	65	37	73	13	
37	9-2	10-16	7	19	6			6		20	7	
38	9-3	17-23	2	3					1			
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			37249	35230	58152	45127	76573	13680	12737	21143	30270	22138

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.14
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3Y(3-2/4)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17									182	
25	6-3	18-24						19			91	145
26	6-4	25-01	325		731			3			161	
27	7-1	JUL 2-08	111		1394	3106	1419	397			1758	
28	7-2	09-15	1652		1082		11055	1336	66	2662	7932	546
29	7-3	16-22	3151	406	3429	1732	25915			26196	10427	16486
30	7-4	23-29	2567	3793	7754	1187	40332	3667	4547	39515	9632	14673
31	7-5	30-05			6044	1128	32834	5096	12757	23086	3831	13702
32	8-1	AUG 6-12	1754		2509	493		3083	8562	14955	2305	
33	8-2	13-19	1624	27988	908			1457		6304	1222	
34	8-3	20-26	193	3896	24		85			73	669	33
35	8-4	27-02	37	507	23	2			5			
36	9-1	SEP 3-09	2	267	2	1	4	84		10	5	
37	9-2	10-16	2		2							
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			11418	36857	23902	7649	111644	15142	25937	112801	38215	45585

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.15
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3Y(3-2/4)

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03			1		5					
23	6-1	JUN 4-10		4	17	10	57		47			4
24	6-2	11-17			26	196	358	35	35		2460	4733
25	6-3	18-24	62	2	342	20	136	180	430	428	2025	145
26	6-4	25-01	5022	73	11103	7447	23	1565	5		2569	
27	7-1	JUL 2-08	8502	787	6178	13747	13227	2538			7466	1126
28	7-2	09-15	8587		3843		23009	3062	2002	4968	12960	8217
29	7-3	16-22	5428	3360	18698	14946	54685		1246	35053	11709	20075
30	7-4	23-29	9636	23524	10494	10320	55411	5566	9272	42522	12162	17867
31	7-5	30-05			22967	4669	40860	9513	16543	27366	11908	13702
32	8-1	AUG 6-12	6030		5497	984		3083	8914	16086	2890	
33	8-2	13-19	4696	36036	2578			2191		7176	1410	1532
34	8-3	20-26	550	6347	183		315	87		236	882	33
35	8-4	27-02	100	1373	108	433	67	47	142	6	19	289
36	9-1	SEP 3-09	43	559	11	4	64	149	37	83	18	
37	9-2	10-16	9	19	8			6		20	7	
38	9-3	17-23	2	3					1			
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			48667	72087	82054	52776	188217	28822	38674	133944	68485	67723

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.16
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3Y(3-2/4)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10							
24	6-2	11-17		158	108				
25	6-3	18-24		8257	8306				
26	6-4	25-01		7764	6489				
27	7-1	JUL 2-08			10660			3873	
28	7-2	09-15	4048	7417	2100			4929	1755
29	7-3	16-22	8346	3972	2607	1904	3948	144	748
30	7-4	23-29	2069	2226	621	16641	3077	3096	2805
31	7-5	30-05	3052	1344	669	10335	2976	647	2766
32	8-1	AUG 6-12	518	194		2768	2344	1573	3064
33	8-2	13-19	650		41	4451	1442	3774	360
34	8-3	20-26	310		563	1106	1045	1357	732
35	8-4	27-02	217		393	330	642		321
36	9-1	SEP 3-09	14		10		80		83
37	9-2	10-16			12		47		
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			19224	31332	32579	37535	15601	19393	12634

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.17
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3Y(3-2/4)

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10							
24	6-2	11-17							
25	6-3	18-24		2217	3				
26	6-4	25-01			98				
27	7-1	JUL 2-08			19				
28	7-2	09-15	10403	20152	3072				
29	7-3	16-22	12468	40879	23190	3326	5704	15781	7484
30	7-4	23-29	439	31101	30082	64079	12223	63941	25838
31	7-5	30-05	6303	9331	6939	37731	5600	33169	23328
32	8-1	AUG 6-12	1312		16	12378	2977	29104	11340
33	8-2	13-19	939		976	18424	2900	23703	6097
34	8-3	20-26	364			6118	1445	1181	1630
35	8-4	27-02	95		593	74	474		90
36	9-1	SEP 3-09	10		3		249		
37	9-2	10-16			34				
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			32333	103680	65025	142130	31572	166879	75807

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.18
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3Y(3-2/4)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10							
24	6-2	11-17		158	108				
25	6-3	18-24		10474	8309				
26	6-4	25-01		7764	6587				
27	7-1	JUL 2-08			10679			3873	
28	7-2	09-15	14451	27569	5172			4929	1755
29	7-3	16-22	20814	44851	25797	5230	9652	15925	8232
30	7-4	23-29	2508	33327	30703	80720	15300	67037	28643
31	7-5	30-05	9355	10675	7608	48066	8576	33816	26094
32	8-1	AUG 6-12	1830	194	16	15146	5321	30677	14404
33	8-2	13-19	1589		1017	22875	4342	27477	6457
34	8-3	20-26	674		563	7224	2490	2538	2362
35	8-4	27-02	312		986	404	1116		411
36	9-1	SEP 3-09	24		13		329		83
37	9-2	10-16			46		47		
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			51557	135012	97604	179665	47173	186272	88441

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.19
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3Z(3-7/17)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27		3	1						1	
22	5-4	28-03		8	53	1	9	1	4	18	13	8
23	6-1	JUN 4-10	5	142	244	27	36	6	56	153	175	31
24	6-2	11-17	103	350	1419	128	187	145	215	613	547	1189
25	6-3	18-24	587	25350	27014	242	600	287	779	845	2056	4526
26	6-4	25-01	784	40721	20514	8121	1328	1511	9028	12368	8982	12453
27	7-1	JUL 2-08	28016	18197	19569	59	9471	19717	9294	209	10698	6808
28	7-2	09-15	15214	19140	10422	1893	6570	6236	7317	701	10926	13042
29	7-3	16-22	19300	6224	8842		235	21436	233	959	13144	17196
30	7-4	23-29	7423	2275	3787		24565	17012	16991	15585	11431	16994
31	7-5	30-05	6750	3009	3226		15213	7923	10679	3776	4608	777
32	8-1	AUG 6-12	4107	1232	245	884	3351	2567	4076	1079	194	650
33	8-2	13-19	1082	171	320	100	580	629	1877		4	98
34	8-3	20-26	1611	321	117	73	128	256	532	11	98	
35	8-4	27-02	956	194	24	17	60	86	184	1	77	168
36	9-1	SEP 3-09	229	40	30	18	23	68	33	17	17	52
37	9-2	10-16	89	15	3	97	21	19	18	10	7	
38	9-3	17-23	25			11	20	12	10	2	1	
39	9-4	24-30							8		1	
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			86281	117392	95830	11671	62397	77911	61334	36347	62980	73992

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.20
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3Z(3-7/17)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17										
25	6-3	18-24		517	84						4	
26	6-4	25-01		1975	50	214			5	254	1408	350
27	7-1	JUL 2-08	434	1505	257		74	618	112	36	519	22
28	7-2	09-15	667	2350	189	8	1	149		1105	804	896
29	7-3	16-22	1203	2209	73			4929		775	4388	4339
30	7-4	23-29	736	5560	10		5498	3422	462	48190	1542	6180
31	7-5	30-05	67	14592	327		1570	1915	3676	10455	1459	1
32	8-1	AUG 6-12	43	4686	486	1	1136	645	459	6133	962	19
33	8-2	13-19		4	23	3	177	88	2615			
34	8-3	20-26	3	806		5	1	6	404		27	
35	8-4	27-02	7	44			3	43		3	9	
36	9-1	SEP 3-09	1	2			2	66		1		5
37	9-2	10-16						10				
38	9-3	17-23						1				
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			3161	34250	1499	231	8462	11892	7733	66952	11122	11812

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.21
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3Z(3-7/17)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27		3	1						1	
22	5-4	28-03		8	53	1	9	1	4	18	13	8
23	6-1	JUN 4-10	5	142	244	27	36	6	56	153	175	31
24	6-2	11-17	103	350	1419	128	187	145	215	613	547	1189
25	6-3	18-24	587	25867	27098	242	600	287	779	845	2060	4526
26	6-4	25-01	784	42696	20564	8335	1328	1511	9033	12622	10390	12803
27	7-1	JUL 2-08	28450	19702	19826	59	9545	20335	9406	245	11217	6830
28	7-2	09-15	15881	21490	10611	1901	6571	6385	7317	1806	11730	13938
29	7-3	16-22	20503	8433	8915		235	26365	233	1734	17532	21535
30	7-4	23-29	8159	7835	3797		30063	20434	17453	63775	12973	23174
31	7-5	30-05	6817	17601	3553		16783	9838	14355	14231	6067	778
32	8-1	AUG 6-12	4150	5918	731	885	4487	3212	4535	7212	1156	669
33	8-2	13-19	1082	175	343	103	757	717	4492		4	98
34	8-3	20-26	1614	1127	117	78	129	262	936	11	125	
35	8-4	27-02	963	238	24	17	63	129	184	4	86	168
36	9-1	SEP 3-09	230	42	30	18	25	134	33	18	17	57
37	9-2	10-16	89	15	3	97	21	29	18	10	7	
38	9-3	17-23	25			11	20	13	10	2	1	
39	9-4	24-30							8		1	
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			89442	151642	97329	11902	70859	89803	69067	103299	74102	85804

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.22
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3Z(3-7/17)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27			3	2	3					
22	5-4	28-03	1		90	35	68	22		5	71	
23	6-1	JUN 4-10	38	62	822	857	415	28	148	11	131	137
24	6-2	11-17	566	284	1300	7997	2468	771	1036		30520	122
25	6-3	18-24	2429	1082	6077	128995	40013	2312	2577	57458	30538	10381
26	6-4	25-01	11802	2298	21176	110320	16463	28814	49303	55935	10420	
27	7-1	JUL 2-08	11045	9857	12244	78561	19023	2972	48757	70609	10602	
28	7-2	09-15	11165	12388	20608	15238	30591	5799	19898	58501	7356	575
29	7-3	16-22	9769	28856	16847	55624	38356	85	10721	30649	1856	2118
30	7-4	23-29	1238	16257	9141	18691	30021	78	86	27863	6433	828
31	7-5	30-05	1420		944	19028			133	14698	8330	2052
32	8-1	AUG 6-12	3682		346	2946				7666	662	
33	8-2	13-19	643		1047	73	296	747		1777	52	
34	8-3	20-26	103	4641	295		106	27		797	9	
35	8-4	27-02	39	454	74	28		18	149	1	20	
36	9-1	SEP 3-09	14	160	9	5	19	98	46	299	15	344
37	9-2	10-16	15	94	1			21		96	19	
38	9-3	17-23		10					4			
39	9-4	24-30		6								
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			53969	76449	91024	438400	177842	41792	132858	326365	107034	16557

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.23
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3Z(3-7/17)

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17									571	
25	6-3	18-24				2638	504			2262	955	326
26	6-4	25-01	573		548	3289	1073	193	74	1439	1337	
27	7-1	JUL 2-08	163	410	1145	2498	1618	144	989	3914	2962	
28	7-2	09-15	692	1966	222	992	3728	365	340	12522	7678	25
29	7-3	16-22	172	630	1328	6672	4027		39	14254	3500	685
30	7-4	23-29	47	2154	2501	2523	8562			19086	7975	81
31	7-5	30-05	5		92	1461	78	555		24426	12145	
32	8-1	AUG 6-12	673		64	645			2130	11467	1099	
33	8-2	13-19	633		106	23				987	157	
34	8-3	20-26	25	5799	1		127			59	6	
35	8-4	27-02		552	20	4	4		5			
36	9-1	SEP 3-09		26						56		2
37	9-2	10-16	3					8		4		
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			2986	11537	6027	20745	19721	1265	3577	90476	38385	1119

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.24
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3Z(3-7/17)

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27			3	2	3					
22	5-4	28-03	1		90	35	68	22		5	71	
23	6-1	JUN 4-10	38	62	822	857	415	28	148	11	131	137
24	6-2	11-17	566	284	1300	7997	2468	771	1036		31091	122
25	6-3	18-24	2429	1082	6077	131633	40517	2312	2577	59720	31493	10707
26	6-4	25-01	12375	2298	21724	113609	17536	29007	49377	57374	11757	
27	7-1	JUL 2-08	11208	10267	13389	81059	20641	3116	49746	74523	13564	
28	7-2	09-15	11857	14354	20830	16230	34319	6164	20238	71023	15034	600
29	7-3	16-22	9941	29486	18175	62296	42383	85	10760	44903	5356	2803
30	7-4	23-29	1285	18411	11642	21214	38583	78	86	46949	14408	909
31	7-5	30-05	1425		1036	20489	78	555	133	39124	20475	2052
32	8-1	AUG 6-12	4355		410	3591			2130	19133	1761	
33	8-2	13-19	1276		1153	96	296	747		2764	209	
34	8-3	20-26	128	10440	296		233	27		856	15	
35	8-4	27-02	39	1006	94	32	4	18	154	1	20	
36	9-1	SEP 3-09	14	186	9	5	19	98	46	355	15	346
37	9-2	10-16	18	94	1			29		100	19	
38	9-3	17-23		10					4			
39	9-4	24-30		6								
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			56955	87986	97051	459145	197563	43057	136435	416841	145419	17676

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.25
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3Z(3-7/17)

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10							
24	6-2	11-17					84		
25	6-3	18-24		8167	54988		193		
26	6-4	25-01		13653	44627	176	22466		
27	7-1	JUL 2-08	182	181	20821	155	441	8437	
28	7-2	09-15	864	4934	24435	290	6608	1051	5312
29	7-3	16-22	1537	5401	11182	3292	7409		6754
30	7-4	23-29	1483	931	1707	4274	18204	18353	1989
31	7-5	30-05	2019	1002	16550	16551	9312	19593	1139
32	8-1	AUG 6-12	2298	6471	1153	10504	8264	12262	2666
33	8-2	13-19	2120	3948	2700	9959	3904	1362	1205
34	8-3	20-26	484	46	288	3379	2058	888	1663
35	8-4	27-02	12		322	370	418		531
36	9-1	SEP 3-09	33		63		75		38
37	9-2	10-16			13				
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			11032	44734	178849	48950	79436	61946	21297

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.26
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3Z(3-7/17)

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10							
24	6-2	11-17							
25	6-3	18-24		221	466				
26	6-4	25-01		437	298				
27	7-1	JUL 2-08			358				
28	7-2	09-15	598	2240	13809	722			
29	7-3	16-22	909	10531	25687	4007	5232	1291	2136
30	7-4	23-29	3754	15064	6919	58390	4189	9017	8932
31	7-5	30-05	3045	13439	27748	36247	8326	13839	13220
32	8-1	AUG 6-12	1912	6866		12557	4386	12451	8898
33	8-2	13-19	128	3722	15520	8939	1376	15774	6563
34	8-3	20-26			669	5764	891	2543	2096
35	8-4	27-02			167	24	584		361
36	9-1	SEP 3-09	10		53		98		
37	9-2	10-16			3				
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			10356	52520	91697	126650	25082	54915	42206

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA

TABLE IV.27
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3Z(3-7/17)

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10							
24	6-2	11-17					84		
25	6-3	18-24		8388	55454		193		
26	6-4	25-01		14090	44925	176	22466		
27	7-1	JUL 2-08	182	181	21179	155	441	8437	
28	7-2	09-15	1462	7174	38244	1012	6608	1051	5312
29	7-3	16-22	2446	15932	36869	7299	12641	1291	8890
30	7-4	23-29	5237	15995	8626	62664	22393	27370	10921
31	7-5	30-05	5064	14441	44298	52798	17638	33432	14359
32	8-1	AUG 6-12	4210	13337	1153	23061	12650	24713	11564
33	8-2	13-19	2248	7670	18220	18898	5280	17136	7768
34	8-3	20-26	484	46	957	9143	2949	3431	3759
35	8-4	27-02	12		489	394	1002		892
36	9-1	SEP 3-09	43		116		173		38
37	9-2	10-16			16				
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			21388	97254	270546	175600	104518	116861	63503

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.28
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3 TOTAL

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27		3	1						1	
22	5-4	28-03		0	53	1	9	1	4	19	13	9
23	6-1	JUN 4-10	5	142	244	28	38	6	56	158	183	31
24	6-2	11-17	103	350	1419	130	190	158	216	638	555	1231
25	6-3	18-24	587	44605	54722	249	700	290	784	874	2062	4601
26	6-4	25-01	815	71480	38784	12669	1349	1535	14906	14435	16256	16903
27	7-1	JUL 2-08	44743	40225	28082	6149	16441	35985	12199	7728	26247	19263
28	7-2	09-15	22647	31099	18185	3761	12914	12166	17142	18689	41527	25909
29	7-3	16-22	22738	13414	44858		8124	28967	17281	83523	51440	41860
30	7-4	23-29	11528	3054	10770		51698	19752	31176	60886	48961	34322
31	7-5	30-05	10146	11222	8854		26621	8970	29859	25209	13196	5103
32	8-1	AUG 6-12	5470	4454	4110	3472	6574	8004	8801	4600	2259	4340
33	8-2	13-19	3425	5972	1257	559	954	1926	6063		654	1120
34	8-3	20-26	2675	1261	386	970	300	1187	1122	495	529	1229
35	8-4	27-02	1484	359	124	17	78	331	423	124	136	754
36	9-1	SEP 3-09	432	60	119	18	69	191	95	67	54	164
37	9-2	10-16	180	20	44	337	42	51	31	29	10	40
38	9-3	17-23	57			142	21	62	14	3	1	
39	9-4	24-30							8		1	
40	10-1	OCT 1-07							2			
41	10-2	08-14										
42	10-3	15-21										
TOTAL			127035	227728	212012	28502	126122	119582	140182	217477	204085	156879

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.29
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3 TOTAL

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17										
25	6-3	18-24		667	102						4	
26	6-4	25-01		3329	97	233			40	401	3130	500
27	7-1	JUL 2-08	1105	2262	639	252	312	1680	439	1115	2950	555
28	7-2	09-15	1021	2644	1736	15	50	592		12424	16988	2069
29	7-3	16-22	1561	10674	1754		1128	5188	2073	54240	19721	12365
30	7-4	23-29	2046	8415	18		9308	4275	4776	78568	7216	11121
31	7-5	30-05	67	16690	327		26415	2681	13362	66889	2678	7933
32	8-1	AUG 6-12	91	7428	1171	35	6022	743	3780	8249	1404	5750
33	8-2	13-19	5	410	23	3	213	1030	8044		603	1601
34	8-3	20-26	3	864	12	170	104	177	1649	169	201	668
35	8-4	27-02	7	45	2		117	145	57	19	25	333
36	9-1	SEP 3-09	2	5	6		92	82	3	1	29	197
37	9-2	10-16				0		14				
38	9-3	17-23						1				
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			5908	53433	5887	716	43761	16608	34223	222075	54949	43092

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.30
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3 TOTAL

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27		3	1						1	
22	5-4	28-03		8	53	1	9	1	4	19	13	9
23	6-1	JUN 4-10	5	142	244	28	38	6	56	158	183	31
24	6-2	11-17	103	350	1419	130	190	158	216	638	555	1231
25	6-3	18-24	587	45272	54824	249	700	290	784	874	2066	4601
26	6-4	25-01	815	74809	38881	12902	1349	1535	14946	14836	19386	17403
27	7-1	JUL 2-08	45848	42487	28721	6401	16753	37665	12638	8843	29197	19818
28	7-2	09-15	23668	33743	19921	3776	12964	12758	17142	31113	58515	27978
29	7-3	16-22	24299	24088	46612		9252	34155	19354	137763	71161	54225
30	7-4	23-29	13574	11469	10788		61006	24027	35952	139454	58177	45443
31	7-5	30-05	10213	27912	9181		53036	11651	43221	92098	15874	13036
32	8-1	AUG 6-12	5561	11882	5281	3507	12596	8747	12581	12849	3663	10090
33	8-2	13-19	3430	6382	1280	562	1167	2956	14107		1257	2721
34	8-3	20-26	2678	2125	398	1140	404	1364	2771	664	730	1897
35	8-4	27-02	1491	404	126	17	195	476	480	143	161	1087
36	9-1	SEP 3-09	434	65	125	18	161	273	98	68	83	361
37	9-2	10-16	180	20	44	345	42	65	31	29	10	40
38	9-3	17-23	57			142	21	63	14	3	1	
39	9-4	24-30							8		1	
40	10-1	OCT 1-07							2			
41	10-2	08-14										
42	10-3	15-21										
TOTAL			132943	281161	217899	29218	169883	136190	174405	439552	259034	199971

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.31
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3 TOTAL

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27			3	2	3					
22	5-4	28-03	1		91	35	73	22		39	71	
23	6-1	JUN 4-10	38	66	917	871	472	28	213	11	220	141
24	6-2	11-17	569	287	1384	8205	2826	806	1096	425	33416	4855
25	6-3	18-24	2491	1084	7064	129105	40221	2473	3594	58367	36258	11577
26	6-4	25-01	17368	2371	38223	124594	16488	30420	49329	55943	13789	
27	7-1	JUL 2-08	23159	11534	22079	91870	45114	7362	48757	70609	25255	1135
28	7-2	09-15	19354	13457	28845	18294	56257	13257	24809	76018	25770	16129
29	7-3	16-22	14822	38895	41787	75751	80226	85	13408	64166	5906	38639
30	7-4	23-29	15411	52251	13417	35607	51179	27494	5536	37872	11280	14833
31	7-5	30-05	1420		28332	25175	23168	5197	6042	20441	19843	3804
32	8-1	AUG 6-12	9597		4490	3654		472	1484	11761	1805	
33	8-2	13-19	3737	8543	3237	73	296	1489		3092	700	1532
34	8-3	20-26	547	7550	510		375	114		1047	316	708
35	8-4	27-02	103	1613	161	459	71	74	302	7	82	289
36	9-1	SEP 3-09	55	545	20	8	80	166	83	5478	33	386
37	9-2	10-16	22	114	10			28		913	30	
38	9-3	17-23	2	13					81			
39	9-4	24-30		6						22		
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			108696	138329	190570	513703	316849	89487	154734	406211	174774	94028

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.32
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3 TOTAL

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17									769	
25	6-3	18-24				2638	504	19		2262	1254	471
26	6-4	25-01	923		1360	3864	1073	196	74	1439	1520	3
27	7-1	JUL 2-08	274	410	3147	7231	6657	714	989	3914	8683	
28	7-2	09-15	2344	1996	1360	1584	29505	2694	514	18369	31895	953
29	7-3	16-22	3372	3098	6425	14778	36702		119	70767	15613	68499
30	7-4	23-29	3228	9065	14985	9977	63002	11882	12749	88153	22307	28887
31	7-5	30-05	5		7094	3503	65182	20241	28968	89075	20546	24289
32	8-1	AUG 6-12	2572		3536	1484		3083	22301	36897	6322	
33	8-2	13-19	2429	29108	1014	23		1457		9251	2499	
34	8-3	20-26	218	10116	25		212			184	739	495
35	8-4	27-02	73	1212	43	6	4		14		4	
36	9-1	SEP 3-09	2	347	2	1	4	84		66	5	38
37	9-2	10-16	7		2			11		4		
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			15447	55352	38993	45089	202845	40381	65728	320381	112156	123635

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.33
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3 TOTAL

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27			3	2	3					
22	5-4	28-03	1		91	35	73	22		39	71	
23	6-1	JUN 4-10	38	66	917	871	472	28	213	11	220	141
24	6-2	11-17	569	287	1384	8205	2826	806	1096	425	34185	4855
25	6-3	18-24	2491	1084	7064	131743	40725	2492	3594	60629	37512	12048
26	6-4	25-01	10291	2371	39583	128458	17561	30616	49403	57382	15309	3
27	7-1	JUL 2-08	23433	11944	25226	99101	51771	8076	49746	74523	33938	1135
28	7-2	09-15	21698	15453	30205	19878	85762	15951	25323	94387	57665	17082
29	7-3	16-22	18194	41993	48212	90529	116928	85	13527	134933	21519	107138
30	7-4	23-29	18639	61316	28402	45584	114181	39376	18285	126025	33587	43720
31	7-5	30-05	1425		35426	28678	88350	25438	35010	109516	40389	28093
32	8-1	AUG 6-12	12169		8026	5138		3555	23785	48658	8127	
33	8-2	13-19	6166	37651	4251	96	296	2946		12343	3199	1532
34	8-3	20-26	765	17666	535		587	114		1231	1055	1203
35	8-4	27-02	176	2825	204	465	75	74	316	7	86	289
36	9-1	SEP 3-09	57	892	22	9	84	250	83	5544	38	424
37	9-2	10-16	29	114	12			39		917	30	
38	9-3	17-23	2	13					81			
39	9-4	24-30		6						22		
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			124143	193681	229563	558792	519694	129868	220462	726592	286930	217663

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.34
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
AREA 3 TOTAL

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10	40						
24	6-2	11-17	32	158	108		84		
25	6-3	18-24	107	16485	65846		193		
26	6-4	25-01	137	21417	52252	176	22466		
27	7-1	JUL 2-08	333	223	31734	155	441	12310	
28	7-2	09-15	14676	32806	33322	290	12893	18529	10115
29	7-3	16-22	29259	55481	20238	6703	24803	9280	8752
30	7-4	23-29	8442	11429	11702	37271	28488	29796	6009
31	7-5	30-05	7388	4622	22300	27549	12763	26083	9553
32	8-1	AUG 6-12	3010	6665	4737	13294	11422	14294	6720
33	8-2	13-19	3384	3971	7821	14848	5416	5257	1565
34	8-3	20-26	841	46	1691	4585	3156	2245	2395
35	8-4	27-02	400		992	700	1060		852
36	9-1	SEP 3-09	50		138		157		121
37	9-2	10-16			76		47		
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			68099	153303	252957	105571	123389	117794	46082

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.35
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
AREA 3 TOTAL

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10							
24	6-2	11-17							
25	6-3	18-24		2438	595				
26	6-4	25-01		452	502				
27	7-1	JUL 2-08			425				
28	7-2	09-15	18451	40258	52360	722			
29	7-3	16-22	24553	96113	111594	11490	30437	36369	19296
30	7-4	23-29	25262	63484	87017	172033	63932	99811	47193
31	7-5	30-05	19993	37504	63428	85507	20130	71290	50714
32	8-1	AUG 6-12	3493	6866	53908	25911	12885	48973	24488
33	8-2	13-19	2398	3722	17548	35516	13298	39830	12660
34	8-3	20-26	398		4074	14035	5274	3724	3726
35	8-4	27-02	271		951	98	1058		451
36	9-1	SEP 3-09	4234		252		726		
37	9-2	10-16			1263				
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			99053	250837	393917	345312	147742	299997	158528

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.36
NORTHERN BRITISH COLUMBIA SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE AND GILLNET
WEEKLY CATCH
AREA 3 TOTAL

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10	40						
24	6-2	11-17	32	158	108		84		
25	6-3	18-24	107	18923	66441		193		
26	6-4	25-01	137	21869	52754	176	22466		
27	7-1	JUL 2-08	333	223	32159	155	441	12310	
28	7-2	09-15	33127	73064	85682	1012	12893	18529	10115
29	7-3	16-22	53812	151594	131832	18193	55240	45649	28048
30	7-4	23-29	33704	74913	98719	209304	92420	129607	53202
31	7-5	30-05	27381	42126	85728	113056	32893	97373	60267
32	8-1	AUG 6-12	6503	13531	58645	39205	24307	63267	31208
33	8-2	13-19	5782	7693	25369	50364	18714	45087	14225
34	8-3	20-26	1239	46	5765	18620	8430	5969	6121
35	8-4	27-02	671		1943	798	2118		1303
36	9-1	SEP 3-09	4284		390		885		121
37	9-2	10-16			1339		47		
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			167152	404140	646874	450883	271131	417791	204610

NOTE: 1960 TO 1982 CATCH FIGURES ARE TAKEN FROM B.C. SALESLIPS FOR SUB-AREAS 3X, 3Y AND 3Z.
1983 AND 1984 CATCH FIGURES ARE RECORDED AS 3-1, 3-2/4 AND 3-7/17 WHICH ARE NOT DIRECTLY COMPARABLE TO 3X, 3Y AND 3Z. SEE EXPLANATION PROVIDED AT THE BEGINNING OF THIS DATA SUMMARY.
1985 AND 1986 CATCHES WERE RECORDED FOR BOTH 3X, 3Y AND 3Z, AND 3-1, 3-2/4 AND 3-7/17. THE 3X, 3Y AND 3Z DATA IS PRESENTED IN THESE TABLES.

TABLE IV.37
SOUTHERN SOUTH EAST ALASKAN SALMON FISHERIES
CONMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
DISTRICT 101

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17		1734	6621	711						
25	6-3	18-24	633	4828	3147	1047	3152	6193		4787	3644	11487
26	6-4	25-01	824	7195	5719	2471	4883	7168	5385	8214	11248	14080
27	7-1	JUL 2-08	2380	6141	8750	4186	7951	10297	10224	5060	10531	15882
28	7-2	09-15	1850	4783	6494	2313	6196	9799	9108	9093	10245	11327
29	7-3	16-22	978	2776	4021	3171	7069	8146	16639	10397	14430	26057
30	7-4	23-29	1263	3228	3339	2494	6567	5851	9772	16937	6022	3528
31	7-5	30-05	2837	2105	1605	1755	5547	860	5663	16797	6246	5018
32	8-1	AUG 6-12	2442	1291	995	1085	3111	1644	6268	2059	2409	1376
33	8-2	13-19	568	890	167	968	1560	783	1880	727	1164	997
34	8-3	20-26	373	272	136	960	691	1180	757		497	
35	8-4	27-02	2	26	47	534	152	702	288		77	
36	9-1	SEP 3-09	28		73	203	118	751	71		19	
37	9-2	10-16	39		60	139	53	150	8		3	
38	9-3	17-23	64				20	42				
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			14281	35269	41174	22037	47070	53566	66063	74071	66535	89752

NOTE: 1960 TO 1985 CATCH FIGURES TAKEN FROM S.S.E. ALASKAN SALESLIPS
1986 CATCH FIGURES ARE VERY PRELIMINARY SALESLIP INFORMATION.

TABLE IV.38
SOUTHERN SOUTH EAST ALASKAN SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
DISTRICT 101

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17										
25	6-3	18-24	3521	6865		44241	18057	6020			20706	11574
26	6-4	25-01	4486	7793	27402	26249	10737	4384	31179	48041	38697	18121
27	7-1	JUL 2-08	5372	24070	21912	22920	7910	3546	27685	32002	14250	15068
28	7-2	09-15	11661	25052	20076	21245		1703	22027	38579	30676	10090
29	7-3	16-22	10802	27497	14809	18531	18563	4420	19773	33735	12679	9056
30	7-4	23-29	5227	15558	19374	14633	22829		15706	8450	17507	15770
31	7-5	30-05	5469	5618	16665	5749	14225			17435	11154	3612
32	8-1	AUG 6-12	3554		6245	4689	12877	3164	163	5328	3178	5666
33	8-2	13-19	1508		3754	1149	5341	1012		4342	1973	
34	8-3	20-26	670	3038	3085	228	2241	713	666	2561	1560	
35	8-4	27-02	337	441	734	103	384	390	557	1184	889	
36	9-1	SEP 3-09	128	169	328	22	83		189	879	86	
37	9-2	10-16	13		119		44		19	170	29	
38	9-3	17-23			30	5	5		1	22	25	
39	9-4	24-30	17				3					
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			52765	116101	134533	159764	113299	25352	117965	192728	153409	88957

NOTE: 1960 TO 1985 CATCH FIGURES TAKEN FROM S.S.E. ALASKAN SALESLIPS
1986 CATCH FIGURES ARE VERY PRELIMINARY SALESLIP INFORMATION.

TABLE IV.39
SOUTHERN SOUTH EAST ALASKAN SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
GILLNET
WEEKLY CATCH
DISTRICT 101

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10	582						
24	6-2	11-17	3168						
25	6-3	18-24	9791	7407			12474	12801	1979
26	6-4	25-01	15364	25655	22174	16591	5324	15011	9442
27	7-1	JUL 2-08	12951	8779	26907	14063	10569	11809	8883
28	7-2	09-15	21117	20747	22186	4431	8785	8745	16923
29	7-3	16-22	17752	10998	57780	8961	12439	16277	41612
30	7-4	23-29	7442	7497	23339	25392	10697	28832	26239
31	7-5	30-05	3564	5918	15179	17212	8166	20602	17116
32	8-1	AUG 6-12	7199	9457	11264	22419	5371	24492	12855
33	8-2	13-19	6200	3976	4841	18641	8232	18146	5254
34	8-3	20-26	2453	3629	3986	4504	3426	11800	3421
35	8-4	27-02	1042	963	1984	1967	1206	3027	1475
36	9-1	SEP 3-09	81	287	818	883	536	879	328
37	9-2	10-16	39	157	93	757	802	239	72
38	9-3	17-23	21	8	24	166	199	76	32
39	9-4	24-30				19			
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			108766	105478	190575	136006	88226	172736	145631

NOTE: 1960 TO 1985 CATCH FIGURES TAKEN FROM S.S.E. ALASKAN SALESLIPS
1986 CATCH FIGURES ARE VERY PRELIMINARY SALESLIP INFORMATION.

TABLE IV.42
SOUTHERN SOUTH EAST ALASKAN SALMON FISHERIES

TABLE IV.40
SOUTHERN SOUTH EAST ALASKAN SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
DISTRICT 104

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										16
24	6-2	11-17										
25	6-3	18-24										
26	6-4	25-01										
27	7-1	JUL 2-08			15908	9157	4852	11		3096	5725	
28	7-2	09-15	12026		15101		24776	19712	1575	33611	10184	2087
29	7-3	16-22	27862	4604	32746		46554	35765	778	70711	23791	4764
30	7-4	23-29	34227	2123	53017	41342	76553	90241	4514	109266	10771	7494
31	7-5	30-05	32032	8267	10137	56708	48853	56445	3838	130528	9909	16959
32	8-1	AUG 6-12	13311	19255	6425	21636	22312	25062	12612	11726	1554	22679
33	8-2	13-19	2171	8244	4117	6647	5427	3941	5810	3669	3255	2815
34	8-3	20-26	3239	57	1443	2028	1917	191	1536		5447	861
35	8-4	27-02	3108	4	463	852	1	53	476		461	
36	9-1	SEP 3-09	703						11		2	
37	9-2	10-16	179									
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			128858	42554	139357	138370	231245	231421	31150	362607	71099	57675

NOTE: 1960 TO 1985 CATCH FIGURES TAKEN FROM S.S.E. ALASKAN SALESLIPS
1986 CATCH FIGURES ARE VERY PRELIMINARY SALESLIP INFORMATION.

TABLE IV.41
SOUTHERN SOUTH EAST ALASKAN SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
DISTRICT 104

JULIAN WEEK	STAT WEEK	RANGE OF WEEK ENDING DATES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
19	5-1	MAY 7-13										
20	5-2	14-20										
21	5-3	21-27										
22	5-4	28-03										
23	6-1	JUN 4-10										
24	6-2	11-17										
25	6-3	18-24										
26	6-4	25-01	2									
27	7-1	JUL 2-08									36758	31931
28	7-2	09-15	815		2374	27928	2907	6270	11112	31186	6031	93067
29	7-3	16-22	204		16379	23432	18596	20893	28494	69082	18605	124233
30	7-4	23-29	2131		9431	21844	45134		65223	38087	11031	49072
31	7-5	30-05	9202		4889	30402	25683			42052	19622	16499
32	8-1	AUG 6-12	1378		24598	11541	21447			24155	4005	
33	8-2	13-19	564	4838	18783	266	3469			4726	6940	1351
34	8-3	20-26	298	6105	7193	3	1443		426		725	577
35	8-4	27-02	3	421	1017		426			167	327	
36	9-1	SEP 3-09		224	81						188	
37	9-2	10-16			243							
38	9-3	17-23										
39	9-4	24-30										
40	10-1	OCT 1-07										
41	10-2	08-14										
42	10-3	15-21										
TOTAL			14597	11588	84988	115416	119105	27163	105255	209455	104232	316730

NOTE: 1960 TO 1985 CATCH FIGURES TAKEN FROM S.S.E. ALASKAN SALESLIPS
1986 CATCH FIGURES ARE VERY PRELIMINARY SALESLIP INFORMATION.

TABLE IV.42
SOUTHERN SOUTH EAST ALASKAN SALMON FISHERIES
COMMERCIAL SOCKEYE CATCH
SEINE
WEEKLY CATCH
DISTRICT 104

JULIAN WEEK	STAT WEEK	RANGE OE WEEK ENDING DATES	1980	1981	1982	1983	1984	1985	1986
19	5-1	MAY 7-13							
20	5-2	14-20							
21	5-3	21-27							
22	5-4	28-03							
23	6-1	JUN 4-10							
24	6-2	11-17							
25	6-3	18-24							
26	6-4	25-01							
27	7-1	JUL 2-08	75		299		4660		
28	7-2	09-15	109894	103997	40421	44249	16925	11743	8509
29	7-3	16-22	106949	40509	120217	63137	29862	16032	36320
30	7-4	23-29	50835	42141	52033	64711	51628	72815	36890
31	7-5	30-05	81998	29509	6304	179687	89901	114056	75726
32	8-1	AUG 6-12	47952	43444	13765	134644	58714	141523	144502
33	8-2	13-19	10755	23104	25641	113581	33491	34435	63596
34	8-3	20-26	1636	8752	15985	33075	8175	28193	20652
35	8-4	27-02	12	71	7301	17723	312	12778	35743
36	9-1	SEP 3-09	1		2827				15761
37	9-2	10-16			608				
38	9-3	17-23							
39	9-4	24-30							
40	10-1	OCT 1-07							
41	10-2	08-14							
42	10-3	15-21							
TOTAL			410107	291527	285401	650807	293668	431575	437699

NOTE: 1960 TO 1985 CATCH FIGURES TAKEN FROM S.S.E. ALASKAN SALESLIPS
1986 CATCH FIGURES ARE VERY PRELIMINARY SALESLIP INFORMATION.

TABLE IV.43 AREA 3 COMMERCIAL CATCH OF NASS RIVER SOCKEYE

YEAR	NASS SOCKEYE	SKEENA SOCKEYE	TOTAL
1964	124546	45337	169883
1965	121336	14854	136190
1966	107164	67241	174405
1967	143478	296074	439552
1968	147885	111149	259034
1969	150240	49731	199971
1970	93255	30888	124143
1971	103351	90330	193681
1972	137289	92274	229563
1973	496016	62776	558792
1974	280789	238905	519694
1975	49620	80248	129868
1976	145455	75007	220462
1977	441581	285011	726592
1978	221178	65752	286930
1979	33703	183960	217663
1980	53520	113632	167152
1981	143337	260803	404140
1982	347888	298986	646874
1983	101094	349789	450883
1984	114752	156469	271221
1985	129322	288469	417791
1986	61094	143513	204607

NOTE: 1985-PRELIMINARY SALESLIP DATA
1986-VERY PRELIMINARY HAIL DATA
SOURCE: MANAGEMENT BIOLOGY FILES (PRINCE RUPERT)

Figure IV.1 **AREA 3X SOCKEYE CATCH 1960 TO 1986**

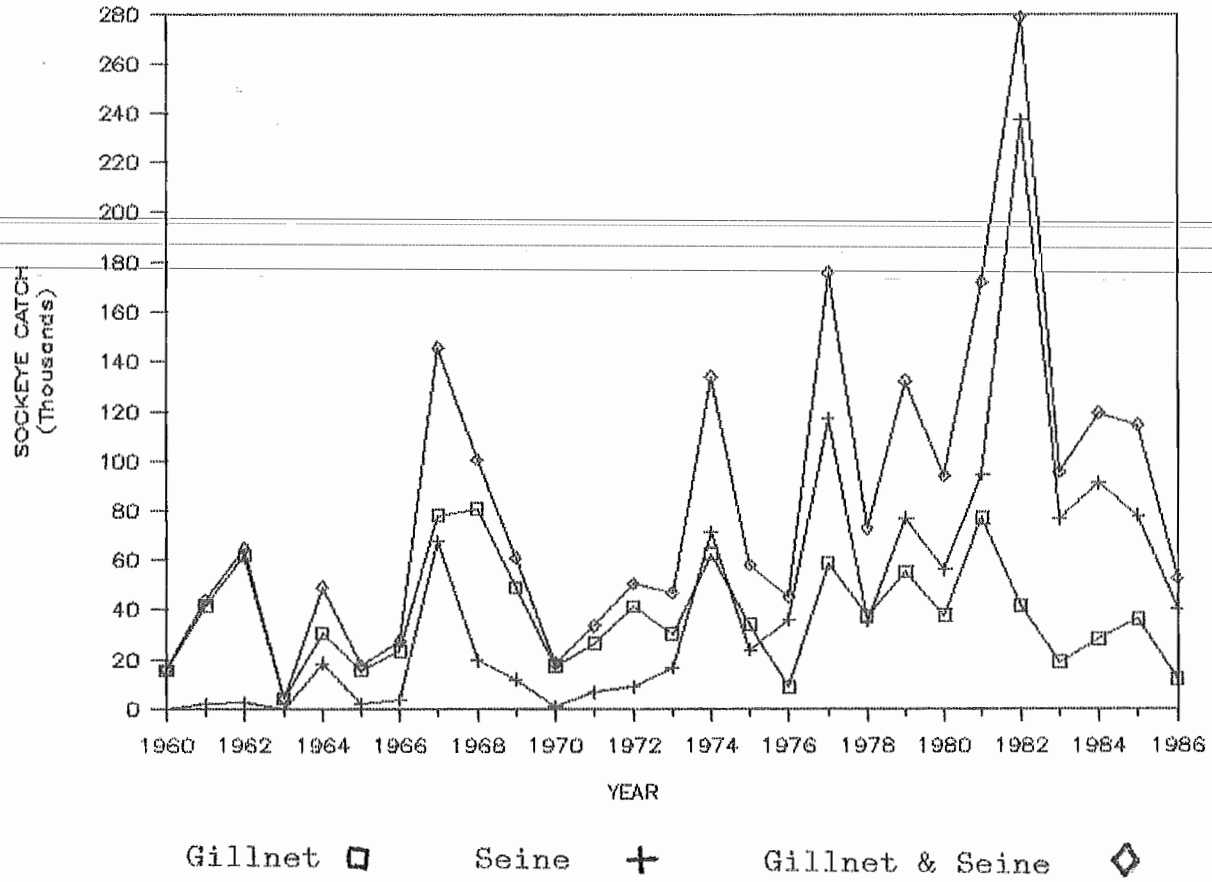


Figure IV.2 **AREA 3Y SOCKEYE CATCH 1960 TO 1986**

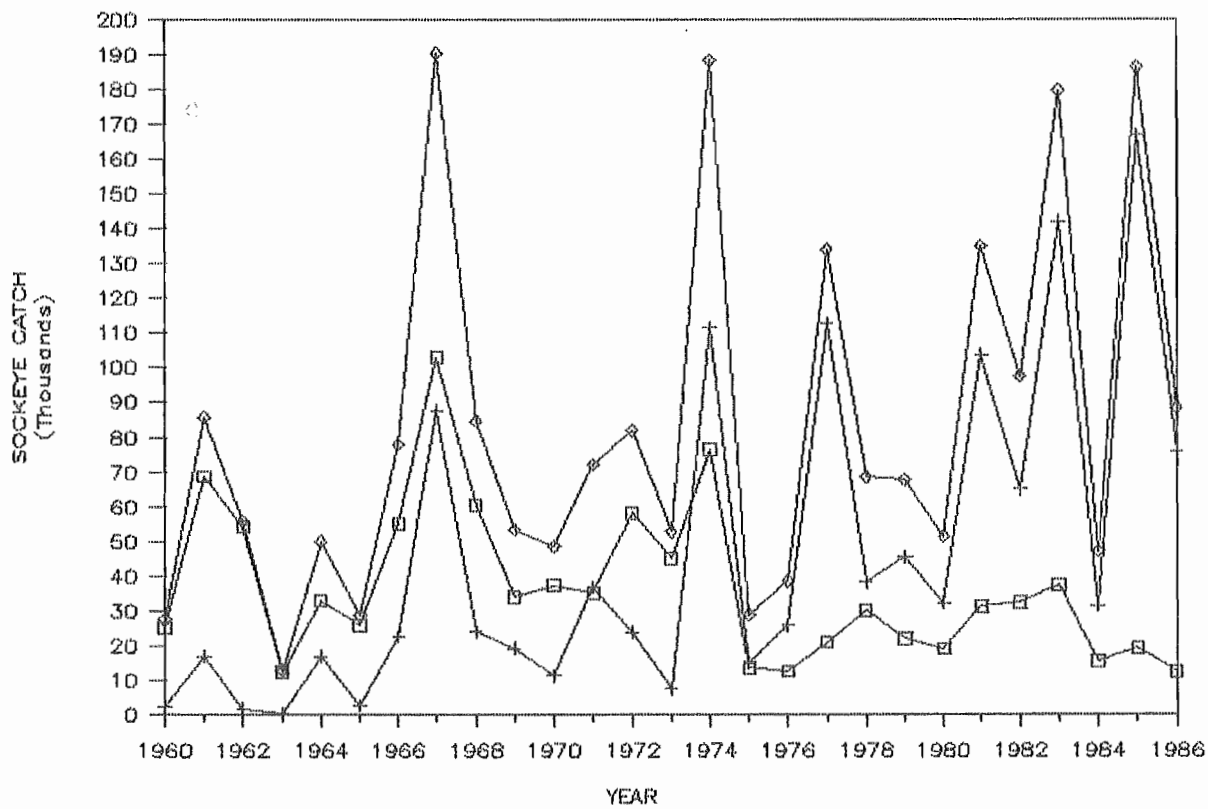


Figure IV.3 AREA 3Z SOCKEYE CATCH 1960 TO 1986

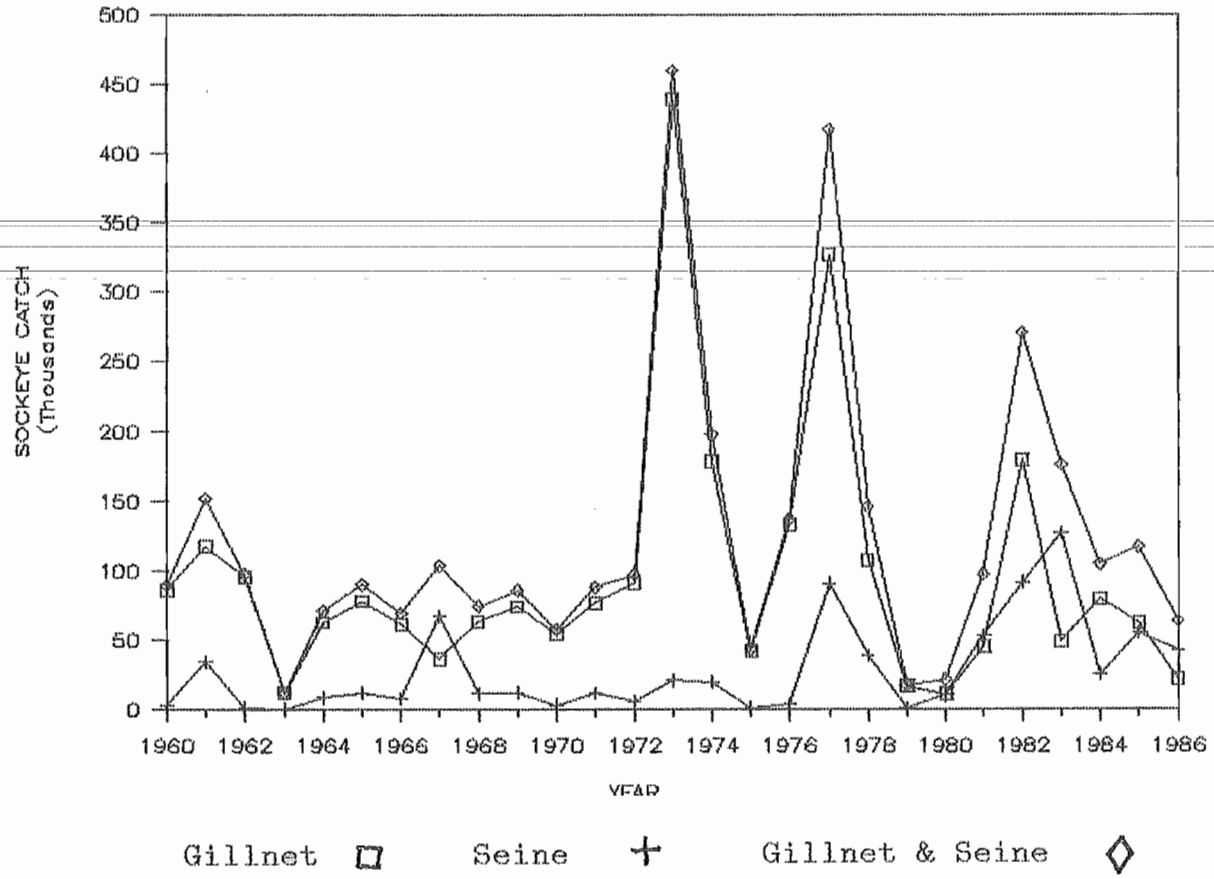


Figure IV.4 AREA 3 SOCKEYE CATCH 1960 TO 1986

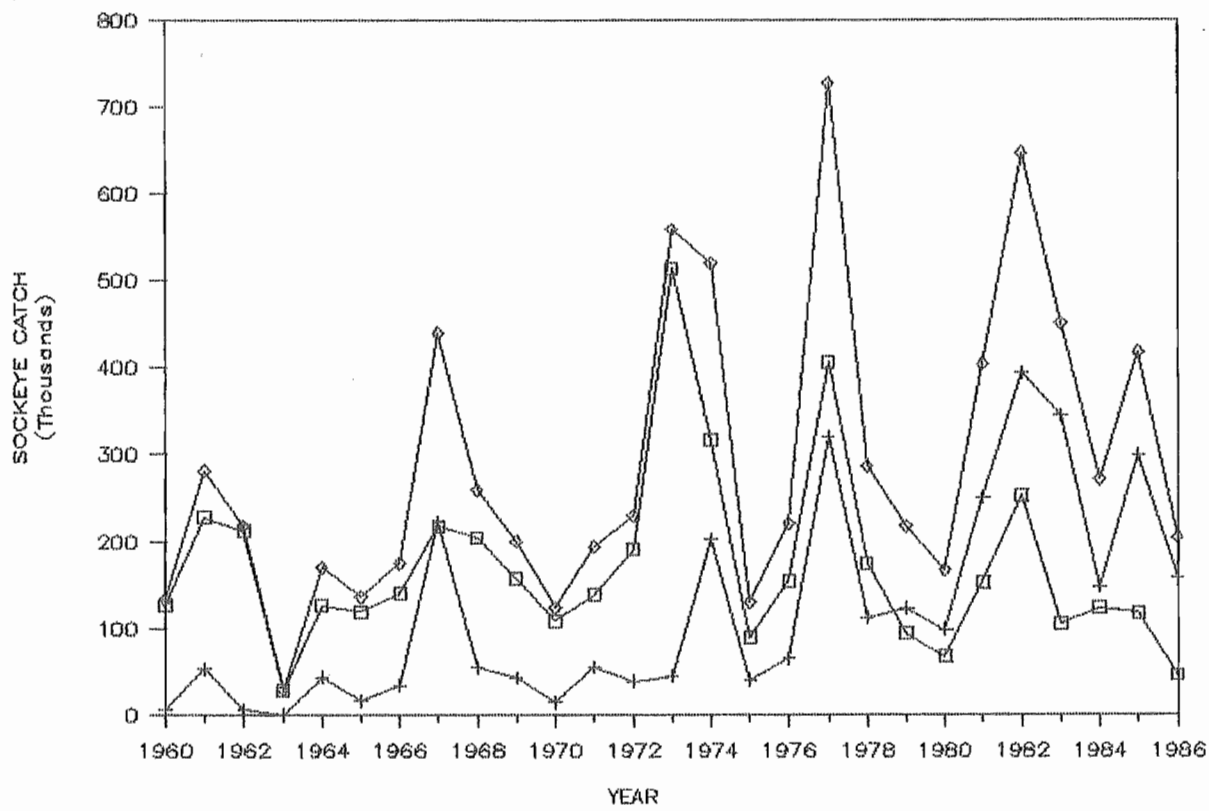
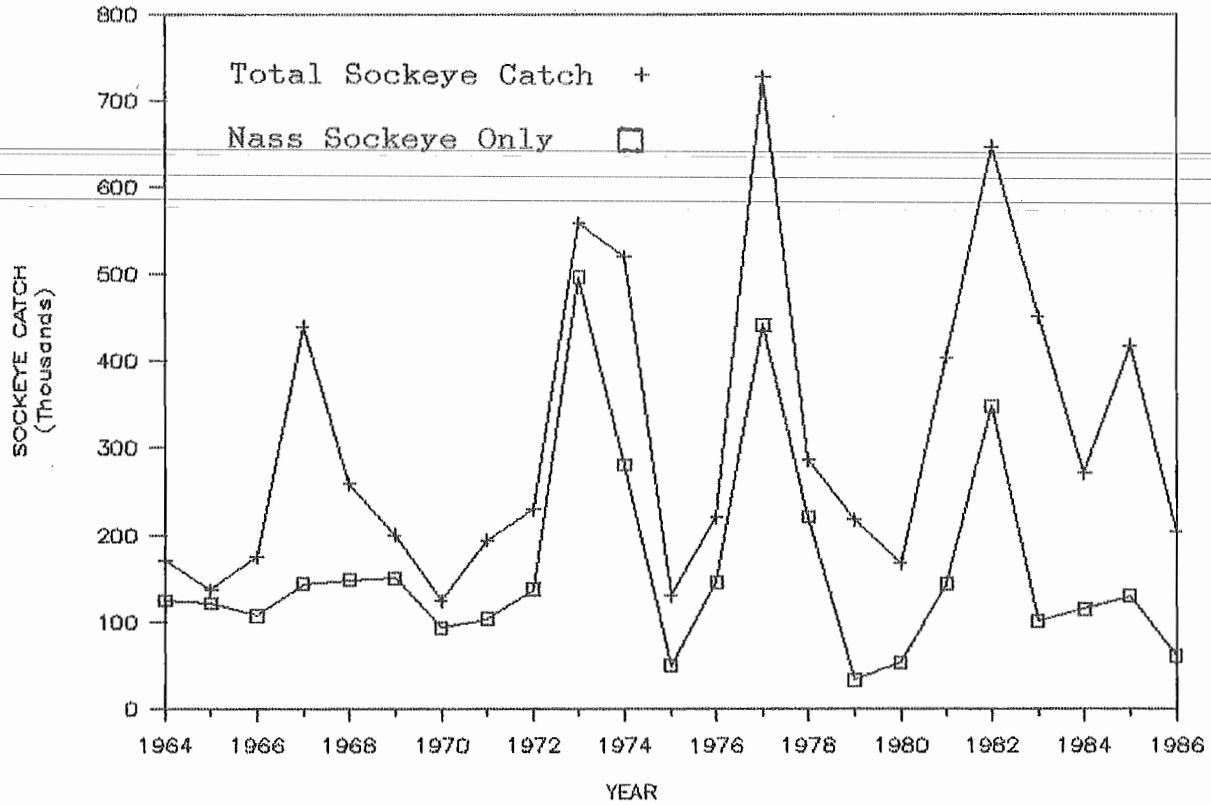


Figure IV.5 **AREA 3 CATCH OF NASS SOCKEYE**



APPENDIX V

"Tagging Data"

Information from the International Tagging studies in 1982 and 1983 is presented in this section. Migration routes, harvest summaries and timing information for Nass sockeye in Northern B.C. and S.S.E. Alaskan fishing areas is presented in Tables V.1 to V.23 and Figures V.1 to V.61. The above mentioned tables and figures with accompanying text describing how to interpret them were prepared for the Department of Fisheries and Oceans by L.G.L. Ltd. (Gazey et al 1985).

In addition, summaries of the Nass fishwheel tagging data (1957 and 1959) is provided in Tables V.24 and V.25.

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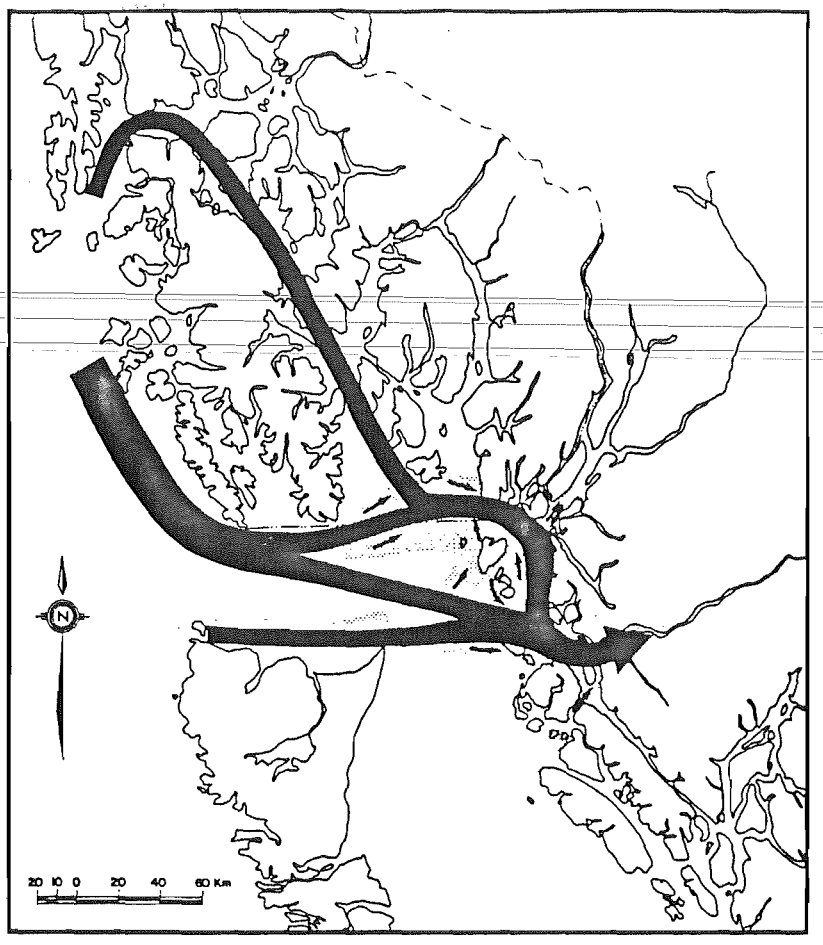


Figure 4. Migration routes for Skeena sockeye, 1983.

Table 4. Adjusted stock-specific recovery distributions for tags released in outside and inside fisheries.

	Observed (%)	Adjusted Stock Specific (%)
Outside Fisheries		
Area 1	29	22
Noyes - Muzon	39	55
Sumner - Upper Clarence	32	23
Inside Fisheries		
Area 3x	21	14
Area 3y	22	14
Area 3z	38	20
Area 4	2	8
Area 5	<1	1
Lower Clarence	7	21
Cape Fox	9	22

Table 4 presents the observed, adjusted and adjusted stock-specific recovery distributions used to determine the relative size and routing for major migration routes.

Management Application

Figure 4 shows the major migration routes for 1983 Skeena sockeye. The figure is useful for making comparisons between years and identifying major shifts in stock migration patterns. For example, Figure 4 emphasizes the northern approach routes and the significant potential for interception by Alaskan fisheries both inside and outside of Prince of Wales Island. These patterns are much different from those derived from 1982 sockeye tagging data.

Methods

The migration patterns for a specific stock cannot be determined using tag recovery data alone because the tagging effort, recovery effort, and stock interception rates for each fishery are never equal. Therefore, the tag recovery data must be adjusted to account for differences in:

1. the number of tags applied in each release area;

2. the fishing effort in each recovery area;

3. the proportion of the catch sampled in each recovery area; and

4. the stock interception rate for each recovery area.

The number of fish tagged directly affects the potential for tag recoveries. For example, ten recoveries from a release of 1,000 tags are more significant than ten recoveries from a release of 5,000 tags. Similarly, ten recoveries from half the catch of 10 fishing vessels are more significant than ten recoveries from the entire catch of 100 fishing vessels. Once differences in release and recovery effort are accounted for, estimates for the stock composition within each fishery (stock interception rates) must be used to apportion the adjusted tag recoveries into stocks.

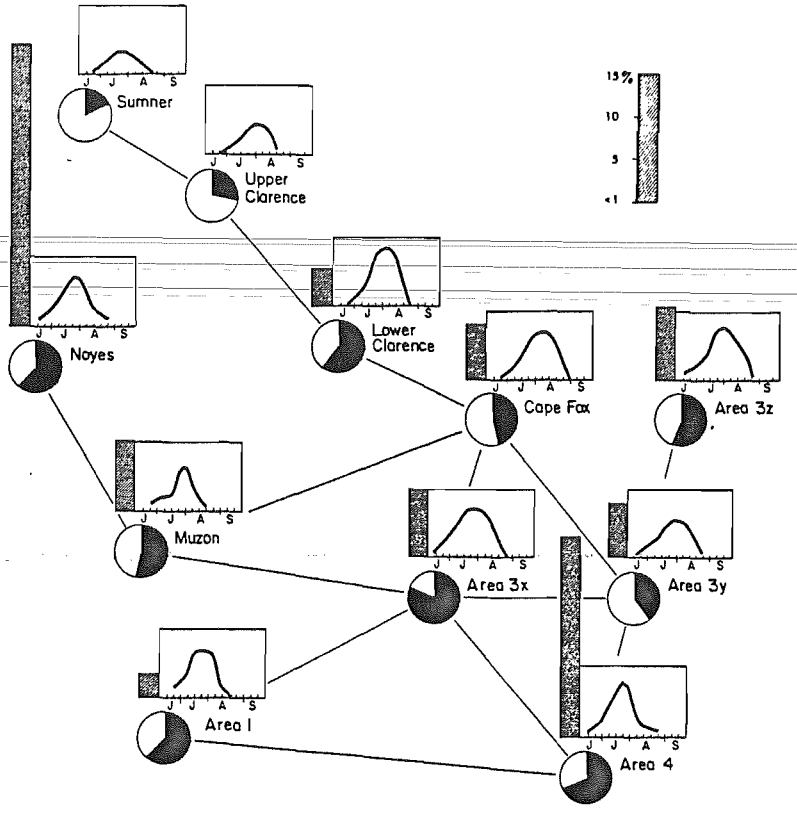


Figure 5. Skeena sockeye harvest summary, 1983.

Table 5. Skeena sockeye harvest summary by fishery, 1983.

	Total Catch All Stocks (pieces)	% Skeena Fish Within Fishery	Catch of Skeena Fish (pieces)	% of Total Skeena Catch
Area 1	42,939	62	26,622	2.69
Area 3x	92,989	82	76,251	7.70
Area 3y	154,213	40	61,685	6.23
Area 3z	146,868	56	82,246	8.30
Area 4	326,145	69	225,040	22.72
Area 5	12,185	46	5,605	0.57
Noyes	510,700	62	316,634	31.97
Muzon	149,194	53	79,073	7.98
Sumner	28,550	18	5,139	0.52
Upper Clarence	24,066	28	6,738	0.68
Lower Clarence	71,600	60	42,960	4.34
Fox	135,690	46	62,417	6.30
	Total Catch		990,411	
	Escapement		890,000	
	Total Skeena Run		1,880,411	

Table 5 presents the quantitative information used to construct bar and pie diagram in Figure 5.

Management Application

The figure provides an overview of the fate of each stock within a year. Fisheries that remove a significant part of the run are readily apparent from the height of the bars. The sequence of stock movements can be determined in part by the run-timing curves. The pie diagrams indicate the dependence of a fishery on the stock. For example, Area 3x depended primarily on the Skeena run for its catch in 1983. However, rescheduling openings to reduce the percentage of Skeena fish caught in Area 3x would do little to reduce the overall Skeena harvest, because most Skeena fish were taken in the Noyes Island and Area 4 fisheries.

Methods

The run-timing curves are estimated from the detailed run-timing curves (see Figure 10). The pie diagrams are annual estimates of stock proportions (Gazey 1983, 1984). The Skeena catch within a fishery is determined by the total catch times the stock proportion. The bar diagrams are determined by calculating the percent of Skeena fish caught in a particular fishery, divided by the total number of Skeena fish caught in all fisheries.

Comments

An interesting feature of the stock harvest summary figure is the presence or absence of a progression in run-timing peaks along a migration route. For the Clarence Strait route, the timing progression is very noticeable (as would be predicted). For the Noyes-Muzon route, a timing progression is not apparent, with all curves peaking about the end of July. The reason for this is not clear, but several explanations are possible:

1. High harvest rates and a late fishing season at Noyes Island and Cape Muzon harvest the later part of the run at a higher rate than the early part of the run, thus altering the apparent run timing at

subsequent fisheries. For example, the peak of the fishery in Area 4 would be expected to be about two weeks after a peak in the Noyes Island fishery if fish following this route make a major contribution to Area 4. However, if the peak of the Noyes Island fishery is accompanied by such high harvest rates that few fish escape capture, a change in the Area 4 run timing curve would be expected. The peak of the run-timing curve in Area 4 is shifted to the left (earlier), representing fish that successfully avoided capture at Noyes Island, due to reduced fishing pressure or no fishing at all at Noyes Island in early to mid-July.

2. An early southern or central coast component that bypasses the outside fisheries contributed to the inside fisheries (3x, 3y, 3z, 4, 5).

Timing for Minor Stocks

Description of Figures and Tables

The relative timing of the minor stocks is compared to the timing of the major stocks for all inside tag release areas. The number of tags released in Areas 3, 4 and 5 and bound for Lakelse and Alastair are graphed as histograms by the week of release (see Figure 6). Recoveries for each release week are summed over all Canadian inside fisheries, smoothed and plotted as lines for the Babine and Meziadin stocks.

Table 6 presents the data used to draw Figure 6, and the number of tag recoveries by release area, for each major and minor stock.

Management Application

The figure is useful to determine timing of minor stocks relative to major stocks for a Canadian inside fisheries. Commercial fishing opportunities can be structured to control the harvest of minor stocks. The recovery data for specific release areas in Table 6 provide additional information on the locations of fisheries in which minor stocks are harvested. In 1983 Lakelse and Alastair stocks were found primarily in the early Area 3x fishery.

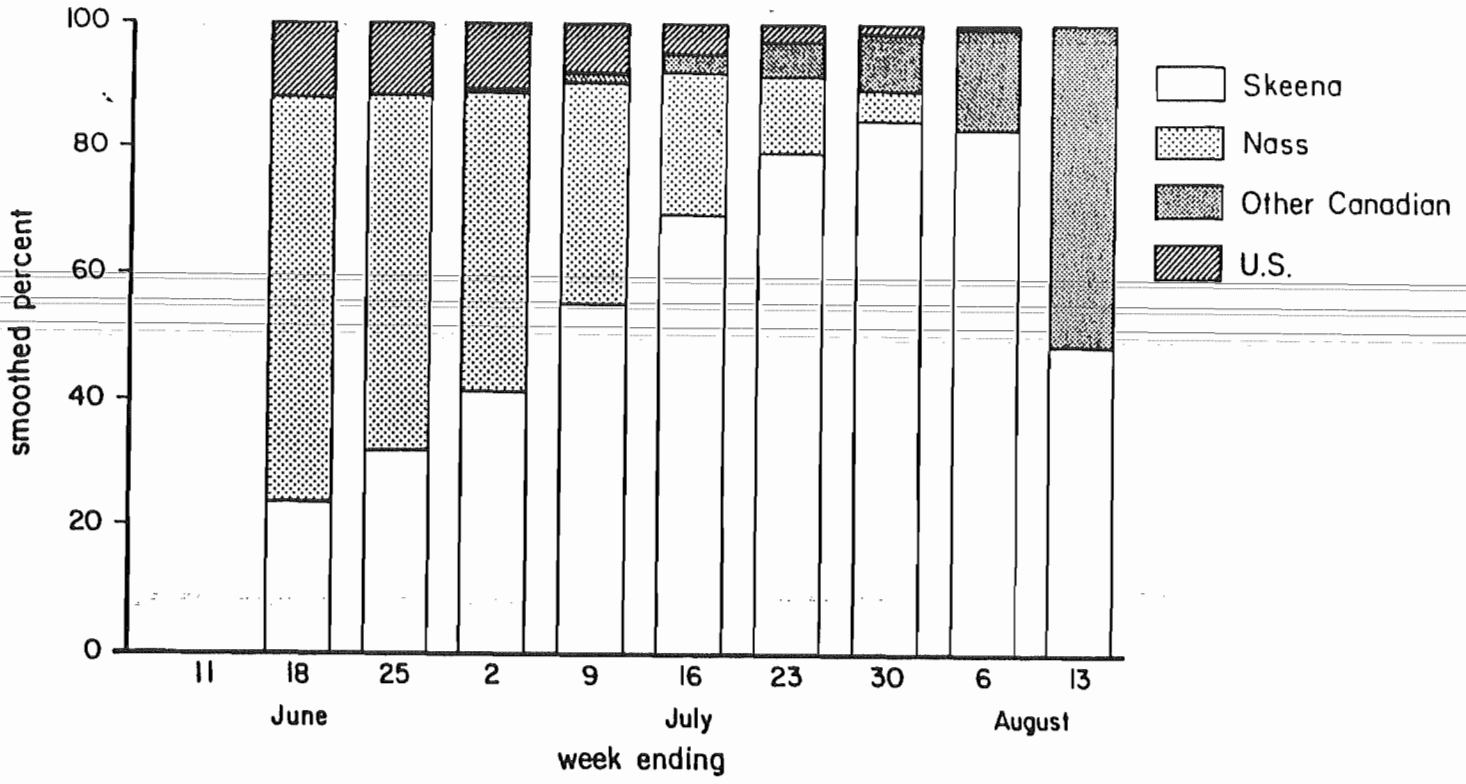


Figure 7. Percent smoothed stock proportions for Area 1, 1983 sockeye.

Table 7. Stock proportion and percent smoothed stock proportion for Area 1, 1983 sockeye.

	Week Ending									
	June 11	June 18	June 25	July 02	July 09	July 16	July 23	July 30	August 06	August 13
Stock proportion										
Skeena	0	0.33	0.24	0.11	0.58	0.64	0.92	0.79	0.13	0
Nass	0	0.63	0.48	0.76	0.31	0.32	0.07	0.04	0.0	0
Oth Can.	0	0.0	0.0	0.0	0.06	0.02	0.01	0.12	0.87	0
U.S.	0	0.04	0.27	0.12	0.06	0.02	0.0	0.05	0.0	0
Percent smoothed stock proportion										
Skeena	0	23.9	32.2	41.6	55.4	69.4	79.5	84.6	83.2	49.2
Nass	0	64.2	56.2	47.2	35.2	22.8	12.3	4.9	0.0	0.0
Oth Can.	0	0.0	0.2	0.7	1.5	3.0	5.4	8.9	16.1	50.8
U.S.	0	11.8	11.4	10.5	7.9	4.9	2.8	1.5	0.7	0.0

Management Application

Information on stock composition by week can affect management actions aimed at controlling the harvest of particular stock groupings. The information presented in the table was used to generate run timing curves; for each stock in each fishery (See Figure 10).

Methods

The estimates of weekly stock proportions are generated using an interception rate model, run using weekly time steps (Gazey 1983). The estimates are smoothed, and the smoothed estimates are recalculated as a percent and graphed. Smoothing is a process which removes discontinuities and displays trends in the data more clearly. The process involves using the median value from running groups of three data points. The median is the mid-value in an ordered group of three. For a complete description of the algorithm used for smoothing, see Tukey (1977).

For fisheries with sparse data, the raw stock proportions have been graphed without smoothing. There are several reasons for data gaps. The analytical model is dependent on there being at least one stock-specific recovery of a tag released in a particular fishery in a week. Without this type of tag recovery, the fishery cannot be included in the analysis, and thus a gap occurs. The most common reason for an absence of tag recoveries was that no tags were applied in that release week.

Comments

A problem with the smoothing algorithm is that it tends to discount sharp rises and declines. For example, the estimated Skeena stock proportion in the Area 1 fishery dropped from 0.79 in late July to 0.13 in early August. The smoothing algorithm will make this rapid decline more gradual, indicating a higher proportion of Skeena fish in Area 1 in early August than may actually be there.

From/To Travel Times

Description of Figures and Tables

The from/to travel times figures are analogous to the from/to routing figures. The incoming arrows on Figure 9 represent the same locations as those on the single incoming arrow on Figure 8. Instead of presenting proportions coming from each location, this figure presents the travel times. For example, it takes fish approximately 12 days to reach Area 3x from Area 1, and about 16 days from Sumner. The outgoing arrows show the travel times to the next location.

Travel times to freshwater counting fences are included because tags were recovered from live fish as they arrived in these systems. The average amount of time that fish remain in the Area 3x fishery is displayed inside the centre circle. The sample size for each travel time estimate is given in brackets. The data used to construct this figure and standard deviation estimates for each travel time are presented in Table 3.

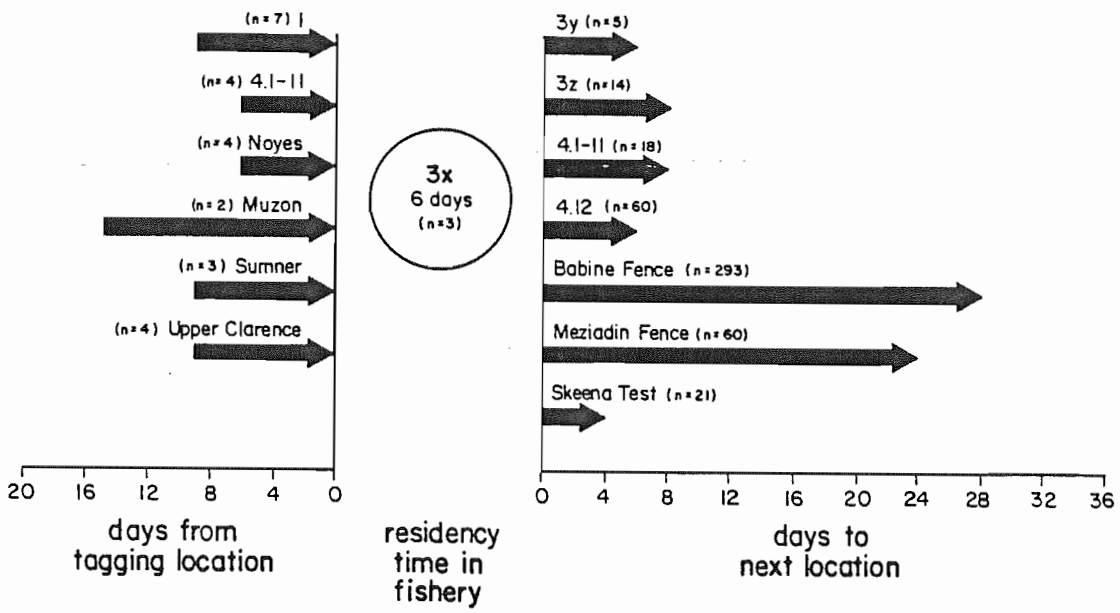


Figure 9. Travel times for sockeye entering and leaving the Area 3x fishery, 1983.

Management Application

Information on travel time is essential for timing the sequence of movements of fish between areas. Travel times could be used with information on run timing and stock composition from preceding fisheries to schedule commercial fisheries for specific stock groupings. The residence time in each fishery could be used to determine the optimum length of openings.

Methods

Each tag record has associated with it a release date and a recovery date. Travel time is the difference in days between release and recovery. The primary source of information for travel times is the random recovery data; that is, tags recovered during stratified random surveys by project personnel. Travel times from tags returned by fishermen and other sources (select recoveries) were compared with those calculated from the random recoveries. In general, addition of the select recoveries to the database increased the sample size (n in Figure 9), but also increased the variance. This is expected due to the uncertainties of the dates in the select recovery data. In those cases where the variance was decreased by the additional information from select recoveries, they were included.

Comments

The major limitation to the travel time information presented in Figure 9 results from the in-season patterns of tagging and recovery dates. Tagging takes place during non-fishing periods, and recovery during commercial openings. The time between release and recovery is a function of how long it takes the fish to swim to the recovery site and when the fishery at that site is open. For example, a fish released in Area 3x on July 12 may only require three days to swim to Area 4-12, but the next opening in 4-12 does not occur until July 18. Since the fish cannot be caught earlier, the implication is that it requires 6 days to move from 3x to 4-12.

Detailed Run Timing by Stock and Area

Description of Figure

Two types of run-timing information are presented for major stocks in Figure 10. The histograms show the number of tags recovered from known stock areas plotted by the week when they were released in the Area 3x fishery. The solid points joined by a solid line represent the product of seine catch per effort data (CPE) and the weekly estimates of stock proportion in the Area 3x fishery. Therefore, all the information in each graph is stock specific. The smooth curve represents the estimated run-timing curve used in the stock harvest summary (Figure 5). Open circles and dashed lines will be used to present stock-specific gillnet CPE data for those fisheries where gillnet catches are significant.

Management Applications

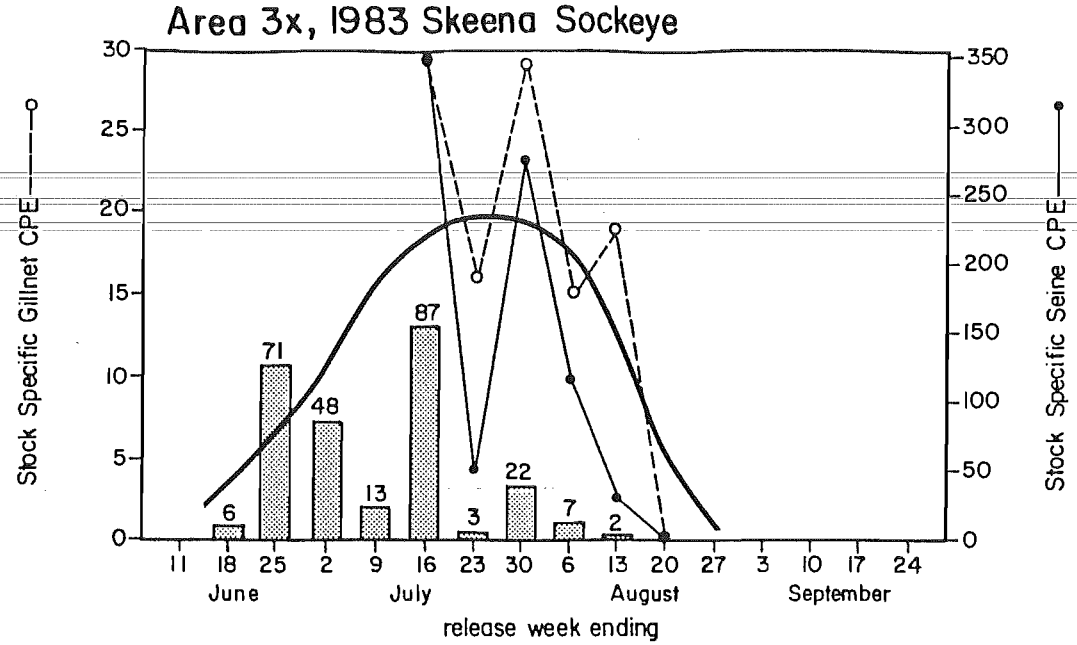
Run-timing information is useful for determining the sequence of abundance of a stock within a fishery. The recoveries by release week clearly depict the presence of a stock in a fishery. The combination of CPE data, interception rates and recoveries by release week provide an estimate for the peak and duration of the run. Run-timing information for all fisheries along with travel time information can be used to plan harvest strategies for major stocks.

Methods

The information presented in Figure 10 consists of three components, each specific to a fishery:

1. stock-specific tag recoveries;
2. catch per effort data; and
3. weekly estimates of stock proportions.

Stock-specific tag recoveries were plotted by the week of release to show the presence of a specific stock in a specific fishery. Weekly estimates of



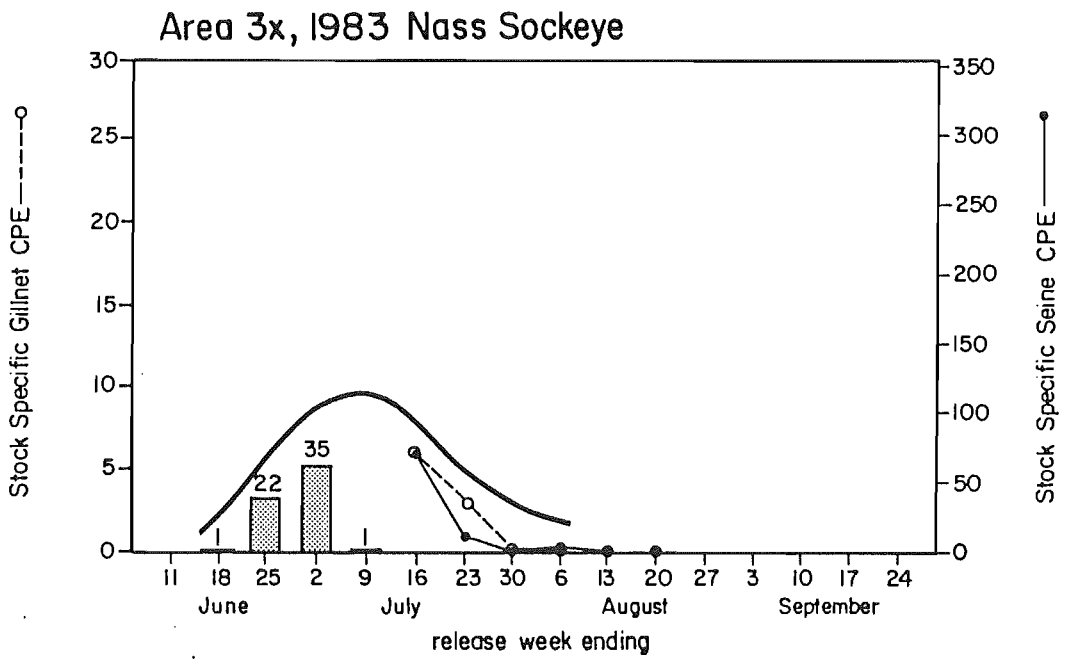


Figure 10. Detailed run timing for Skeena and Nass sockeye through the Area 3x fishery, 1983.

seine, gillnet or troll catch per effort data were obtained from Canadian and Alaskan catch statistics (see Wong 1983 and ADFG 1985). Due to problems with the accuracy of catch areas on sales slips, fisheries officer weekly catch per effort estimates were used for Area 3x, 3y, 3z and 4 fisheries in the 1983 and 1984 analyses (Les Jantz, DFO Prince Rupert, pers. comm. 1985). Weekly estimates of stock proportions were calculated using an interception rate model (Gazey 1983) run with weekly time steps. The numbers used to construct Figure 10 are presented in the following table:

	Week Ending										
	June			July				August			
	11	18	25	2	9	16	23	30	6	13	20	27
Tag Recoveries											
Skeena		6	71	48	13	87	3	22	7	2		
Nass		1	22	35	1							
Catch Per Effort											
Seine						427	62	275	120	34	11	
Gillnet						36	19	29	15	22	4	
Stock Proportion											
Skeena		.94	.85	.73	.73	.82	.83	1.00	.98	.85		
Nass		.06	.14	.22	.13	.17	.17	.00	.02	.00		
Stock Specific Seine CPE											
Skeena						348	51	275	117	29		
Nass						72	10	0	3	0		
Stock Specific Gillnet CPE											
Skeena						29	16	29	15	19		
Nass						6	3	0	0	0		

Note that stock-specific CPE cannot be calculated if either catch per effort data or stock proportion estimates are absent. The detailed run-timing figures presented in the main body of the report do not have accompanying tables.

Comments

The main purpose of this figure is to present the data used to estimate the run timing curves shown in the stock harvest summary. Stock-specific tag recovery data show the minimum duration of a stock presence in a fishery. However, the number of recoveries by release week or the lack of recoveries for a specific week does not reflect the relative weekly abundance. The number of tags applied in each week and the removal of tagged fish by fisheries significantly affects the probability of recovering a tag in a known stock area. The decline in the stock-specific tag recoveries in Figure 10 coincides with the initiation of commercial fishing. The best indicator of relative weekly stock abundance is probably commercial CPE data. However, CPE data are only available for the period when fisheries are open and are not stock specific. Weekly catch per effort data can be made stock specific by using weekly estimates of stock proportions derived from tag recovery data. However, the North Coast Tagging Study was not designed to provide accurate weekly estimates of stock proportions in each fishery. These factors must be kept in mind when using these or any other run-timing figures generated from tag recovery data.

In summary, the tag recovery data and stock-specific CPE data presented in this report provide the best estimate of run timing for northern B.C. stocks through northern B.C. and Alaskan fisheries. Tag recovery data give a clear indication of stock presences in a fishery while stock-specific CPE data provides the best available indicator of relative weekly abundance.

Figure V. 1 **Migration Routes, Nass Sockeye 1982**

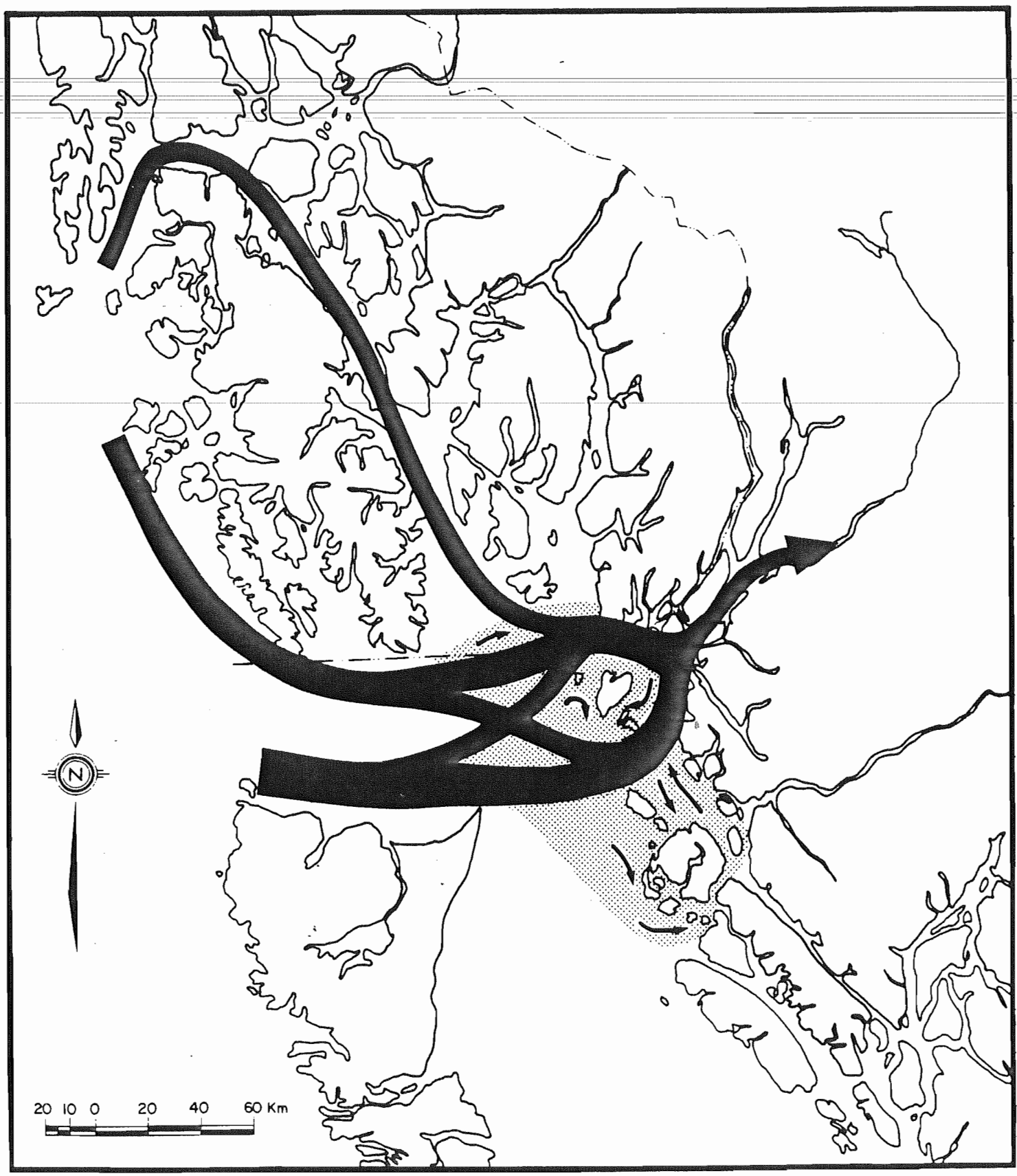


Figure V. 2

Migration Routes, Nass Sockeye 1983

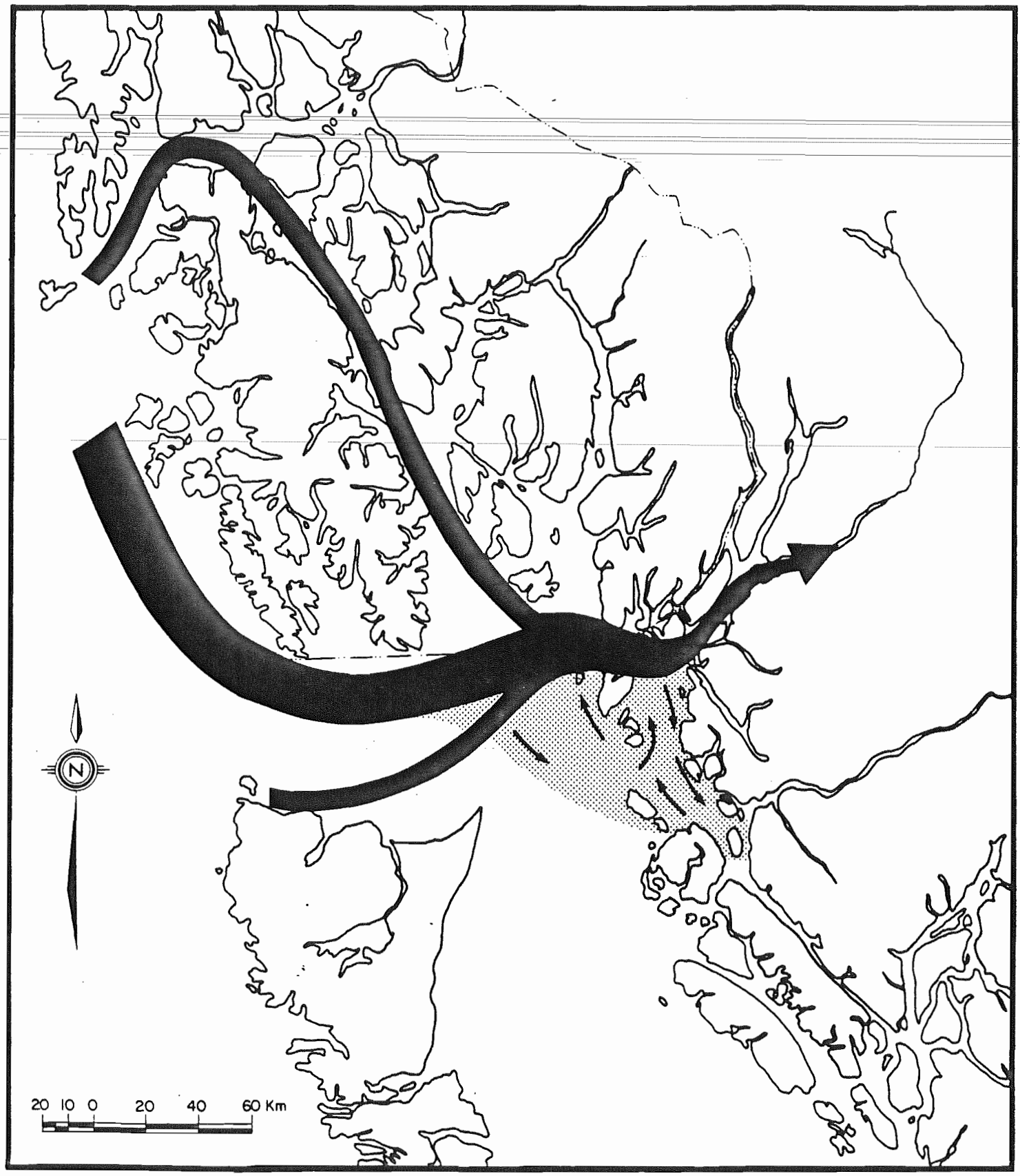


Table V. 1

Adjusted stock-specific recovery distributions for tags released in outside and inside fisheries for Nass sockeye stocks, 1982.

	Observed (%)	Adjusted Stock Specific (%)
Outside Fisheries		
Area 1	73	43
Noyes - Muzon	16	33
Upper Middle Clarence	11	24
Inside Fisheries		
Area 3x	25	5
Area 3y	29	40
Area 3z	3	11
Area 4	30	12
Area 5	2	8
Cordova	4	6
Cape Fox	7	18

Table V. 2

Adjusted stock-specific recovery distributions for tags released in outside and inside fisheries for Nass sockeye stocks, 1983.

	Observed (%)	Adjusted Stock Specific (%)
Outside Fisheries		
Area 1	29	18
Noyes - Muzon	39	57
Sumner - Upper Clarence	32	25
Inside Fisheries		
Area 3x	21	6
Area 3y	22	22
Area 3z	39	17
Area 4	2	6
Area 5	<1	<1
Lower Clarence	6	20
Cape Fox	9	29

Table V. 3

Nass sockeye harvest summary by fishery, 1982.

	Total Catch All Stocks	% Nass Within Fishery	Nass Catch	% of Total Nass Catch
1 net	60,947	19	11,580	1.66
Area 3x	328,467	14	45,000	6.47
Area 3y	125,371	61	75,975	10.92
Area 3z	194,427	61	117,628	16.91
Area 4	1,612,407	16	259,598	37.32
Area 5	70,415	7	5,211	0.75
Noyes	212,523	20	42,292	6.08
Muzon	72,697	18	13,231	1.90
Upper Clarence	387,220	13	50,726	7.29
Mid Clarence	14,150	18	2,476	0.36
Lower Clarence	149,313	5	8,063	1.16
Cordova	1,0589	10	108	0.02
Cape Fox	190,175	34	63,709	9.16
	Total Catch		695,597	
	Escapement		260,307	
	Total Nass Run		955,904	

Table V. 4

Nass sockeye harvest summary by fishery, 1983.

	Total Catch All Stocks	% Nass Within Fishery	Nass Catch	% of Total Nass Catch
Area 1	42,939	23	9,876	2.09
Area 3x	92,989	14	13,018	2.75
Area 3y	154,213	55	84,817	17.91
Area 3z	146,868	40	58,747	12.41
Area 4	326,145	21	68,490	14.46
Area 5	12,185	23	2,803	0.59
Noyes	510,700	19	97,033	20.49
Muzon	149,194	38	56,694	11.97
Sumner	28,550	12	3,426	0.72
Upper Clarence	24,066	15	3,610	0.76
Lower Clarence	71,600	29	20,764	4.38
Fox	135,690	40	54,276	11.46
	Total Catch		473,554	
	Escapement		190,000	
	Total Nass Run		663,554	

Figure V. 3

Harvest Summary, Nass Sockeye 1982

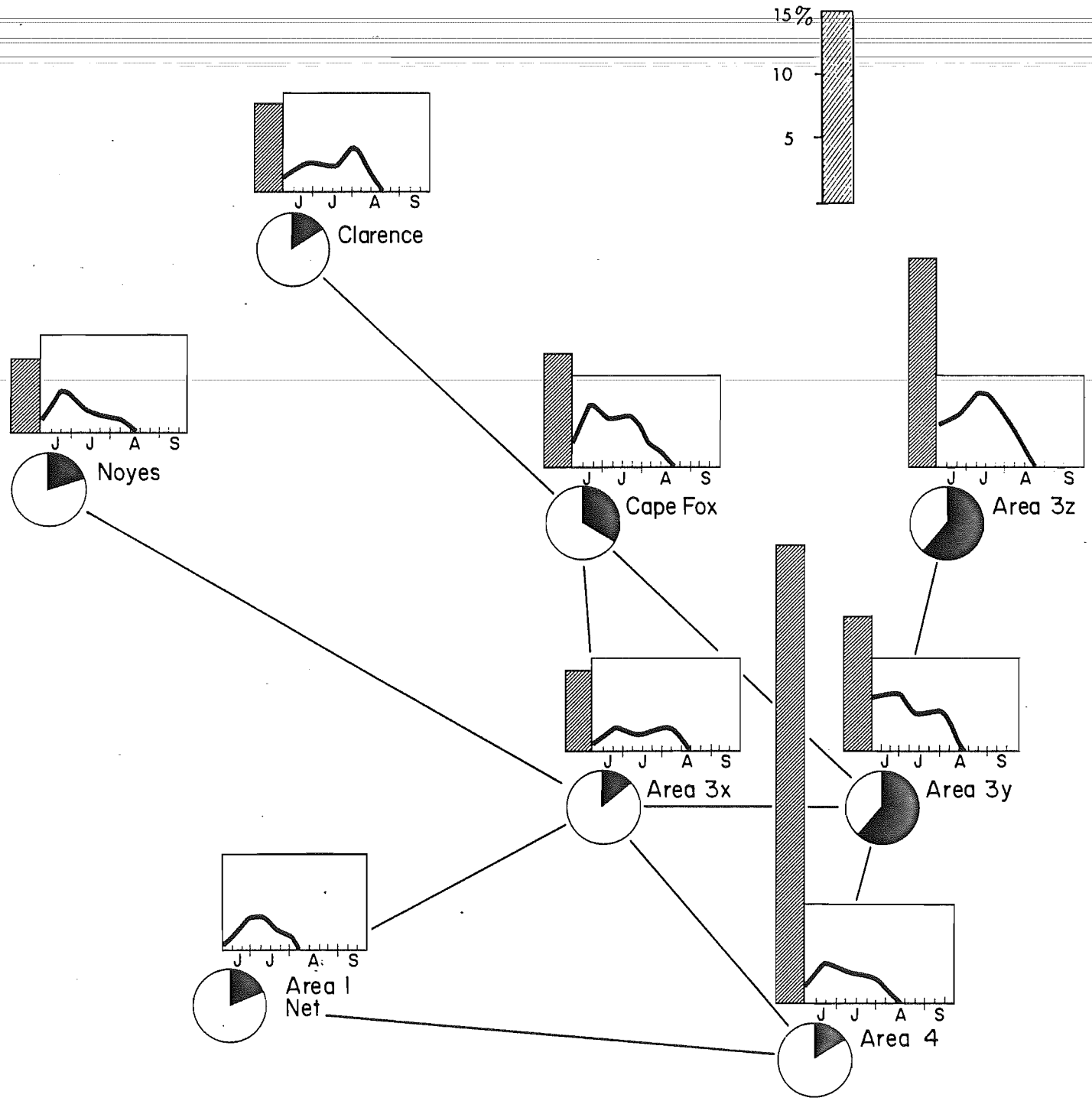


Figure V. 4 Harvest Summary, Nass Sockeye 1983

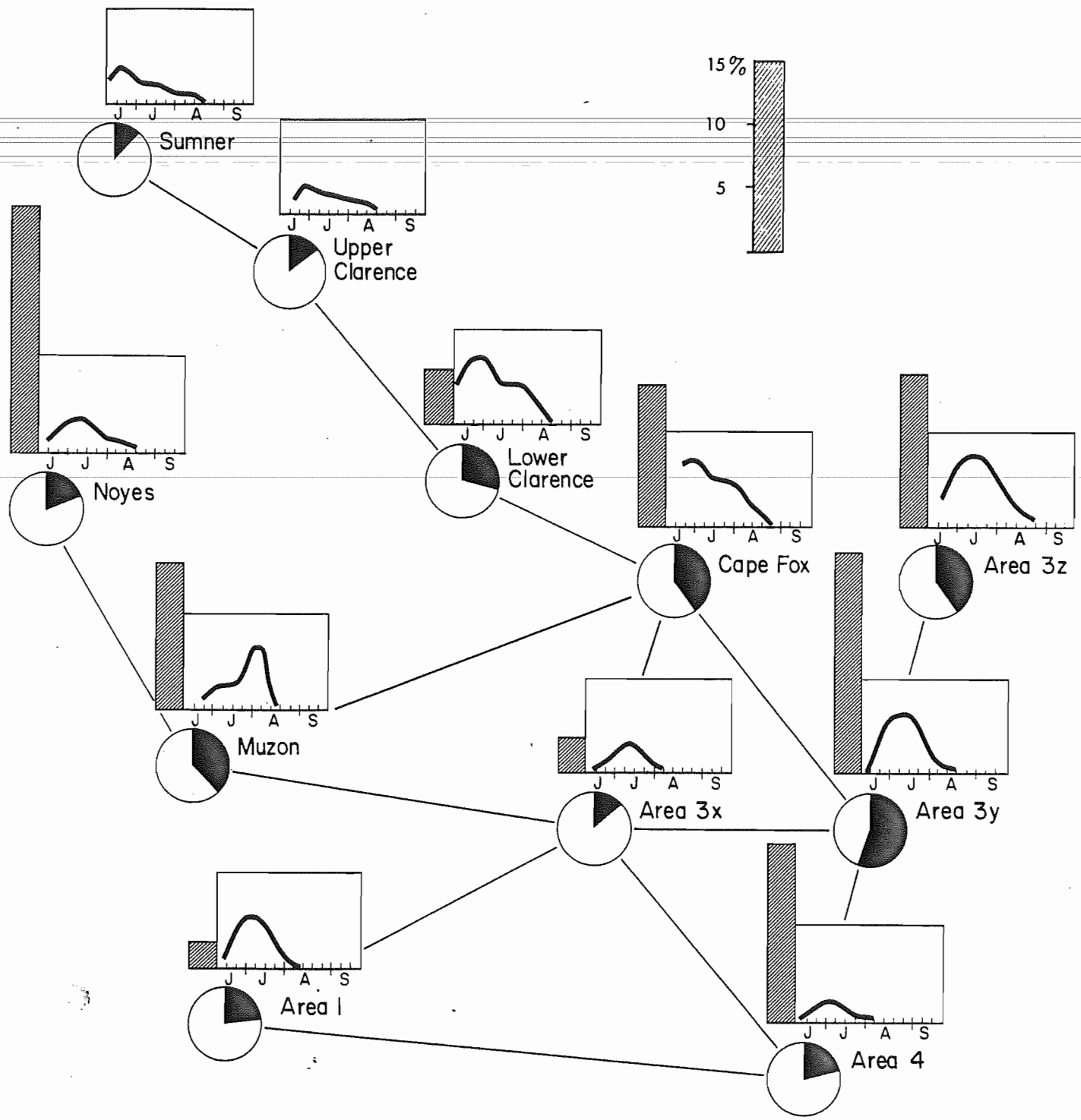


Figure V. 5

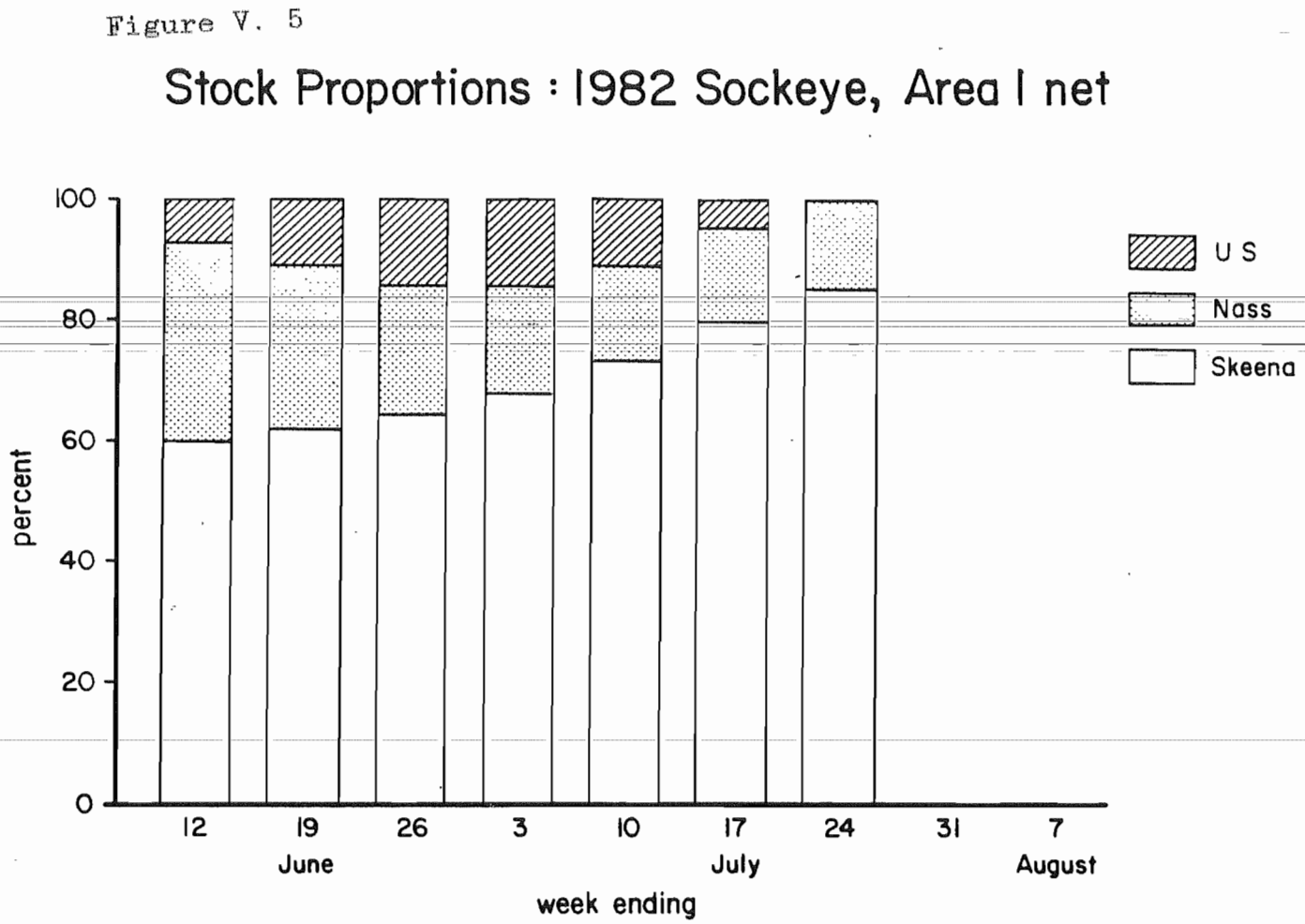


Table V. 5

Stock proportion and smoothed stock proportion for Area 1 net, 1982 sockeye.

	Week Ending								
	June			July					August
	12	19	26	3	10	17	24	31	07
Stock Proportion									
Skeena	0.62	0.84	0.60	0.34	0.86	0.85	0.83		
Nass	0.31	0.13	0.22	0.34	0.03	0.13	0.16		
U.S.	0.07	0.03	0.18	0.32	0.11	0.02	0.01		
Smoothed Stock Proportion									
Skeena	0.60	0.62	0.64	0.68	0.73	0.79	0.85		
Nass	0.32	0.27	0.21	0.17	0.16	0.16	0.15		
U.S.	0.08	0.11	0.15	0.15	0.11	0.05	0.0		

Figure V. 6

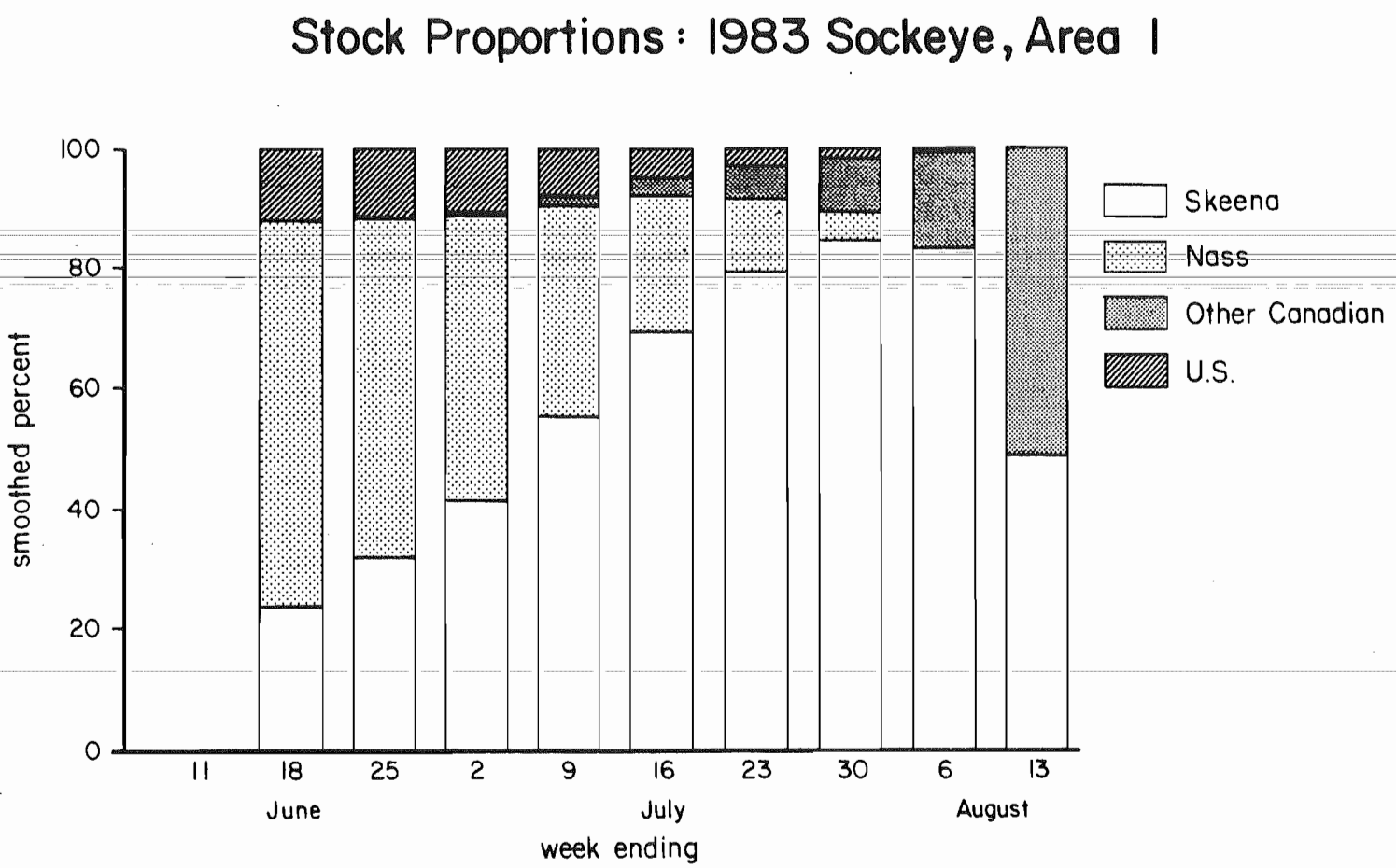


Table V. 6

Stock proportion and smoothed stock proportion for Area 1, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0.33	0.24	0.11	0.58	0.64	0.92	0.79	0.13	0
Nass	0	0.63	0.48	0.76	0.31	0.32	0.07	0.04	0.0	0
Oth Can.	0	0.0	0.0	0.0	0.05	0.02	0.01	0.12	0.87	0
U.S.	0	0.04	0.28	0.13	0.06	0.02	0.0	0.05	0.0	0
Smoothed stock proportion										
Skeena	0	0.24	0.32	0.42	0.55	0.69	0.80	0.85	0.83	0.49
Nass	0	0.64	0.56	0.47	0.35	0.23	0.12	0.05	0.0	0.0
Oth Can.	0	0.0	0.01	0.01	0.02	0.03	0.05	0.09	0.16	0.51
U.S.	0	0.12	0.11	0.10	0.08	0.05	0.03	0.01	0.01	0.0

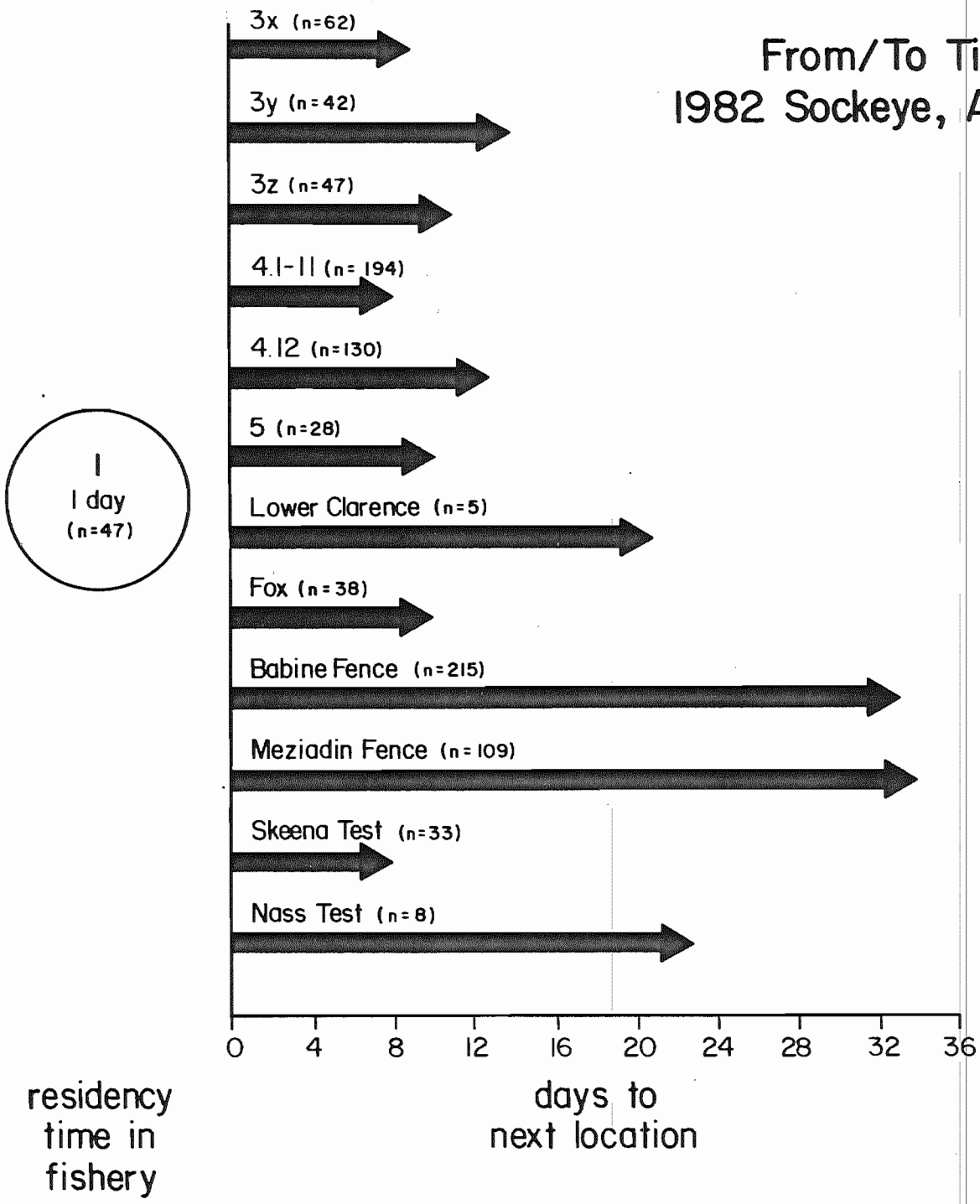

From/To Timing:
1982 Sockeye, Area I net
3x (n=62)
3y (n=42)
3z (n=47)
4.1-11 (n=194)
4.12 (n=130)
5 (n=28)
Lower Clarence (n=5)
Fox (n=38)
Babine Fence (n=215)
Meziadin Fence (n=109)
Skeena Test (n=33)
Nass Test (n=8)
I
I day
(n=47)
0
4
8
12
16
20
24
28
32
36
residency time in fishery
days to next location

Figure V. 7

Figure V. 8

From/To Timing : 1983 Sockeye, Area I

Detailed Run Timing

Figure V. 9

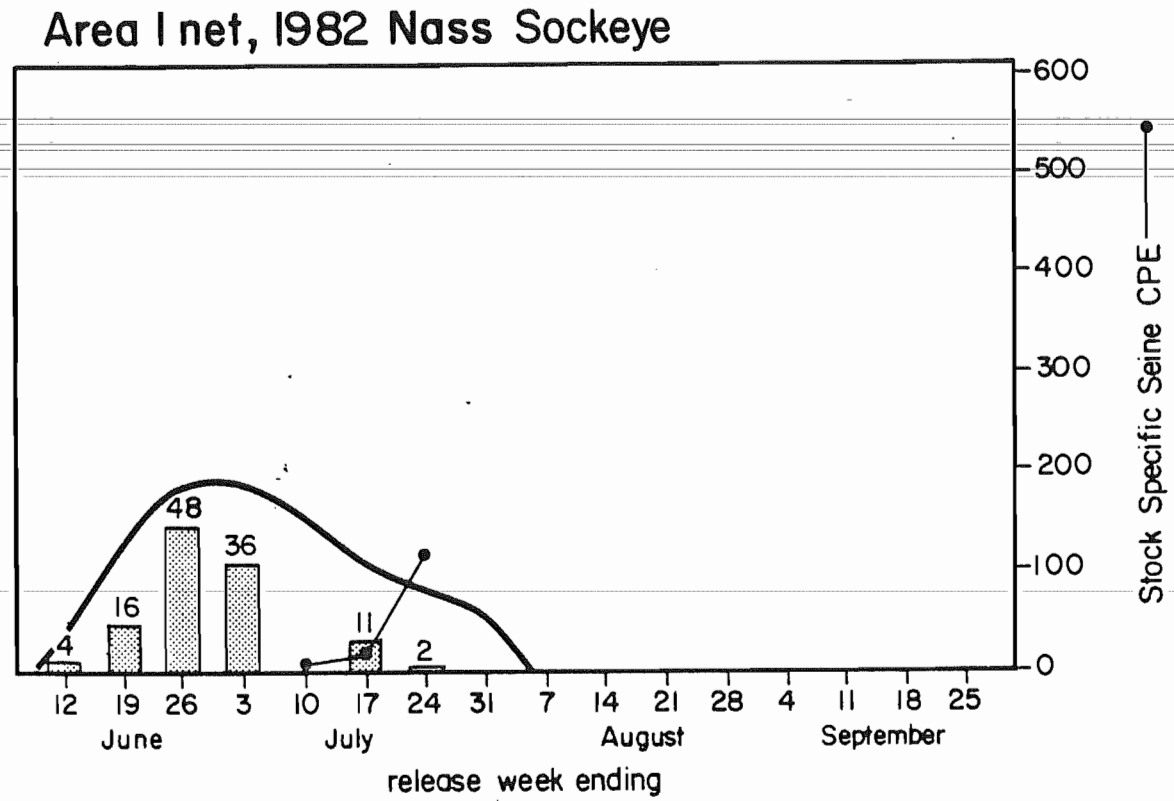


Figure V.10

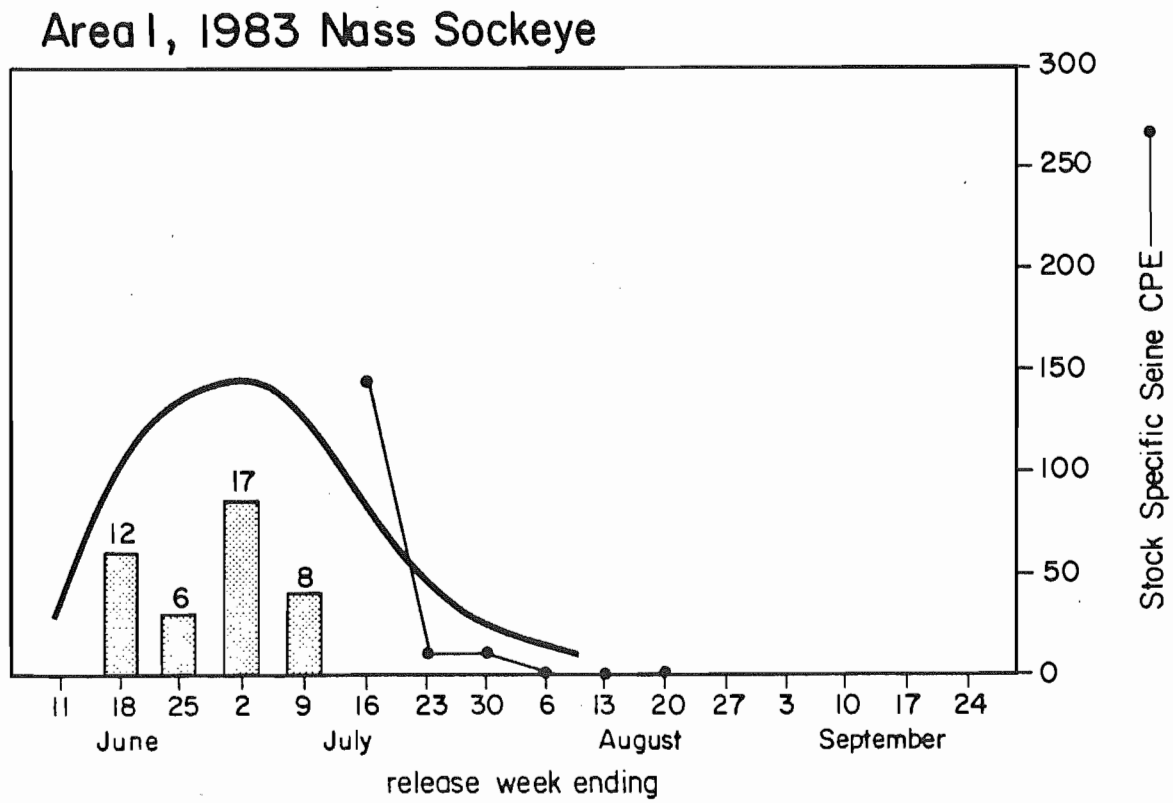


Figure V.11

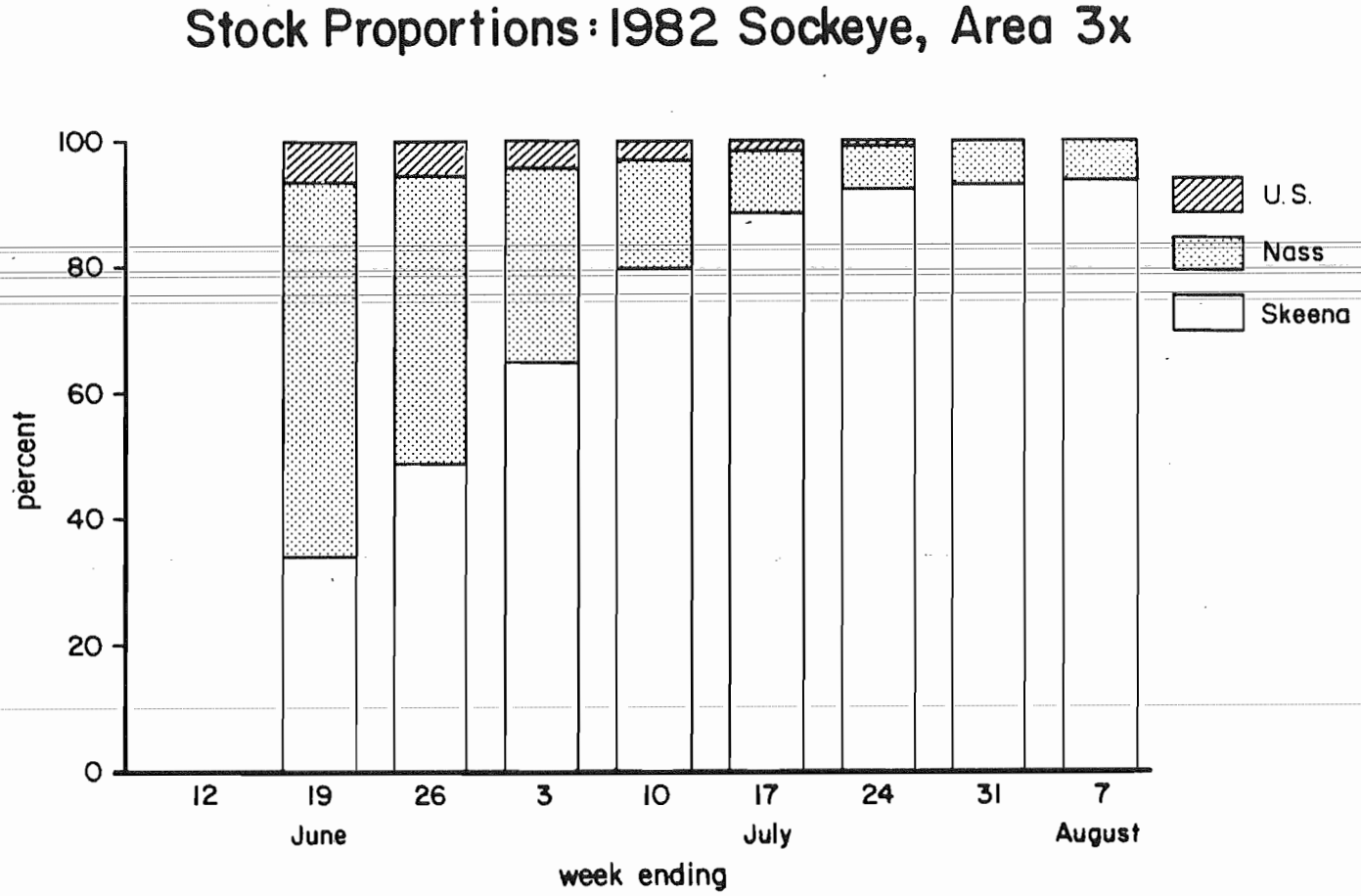


Table V. 7

Stock proportion and smoothed stock proportion for Area 3x, 1982 sockeye.

	Week Ending							
	June			July				August
	12	19	26	3	10	17	24	31	07
Stock Proportion									
Skeena		0.36	0.43	0.46	0.91	0.89	0.82	0.93	0.98
Nass		0.58	0.57	0.30	0.05	0.10	0.17	0.07	0.01
U.S.		0.06	0.0	0.24	0.04	0.01	0.01	0.0	0.01
Smoothed Stock Proportion									
Skeena		0.35	0.49	0.65	0.80	0.88	0.92	0.93	0.94
Nass		0.58	0.45	0.30	0.17	0.10	0.07	0.07	0.06
U.S.		0.07	0.06	0.05	0.03	0.02	0.01	0.0	0.0

Figure V.12

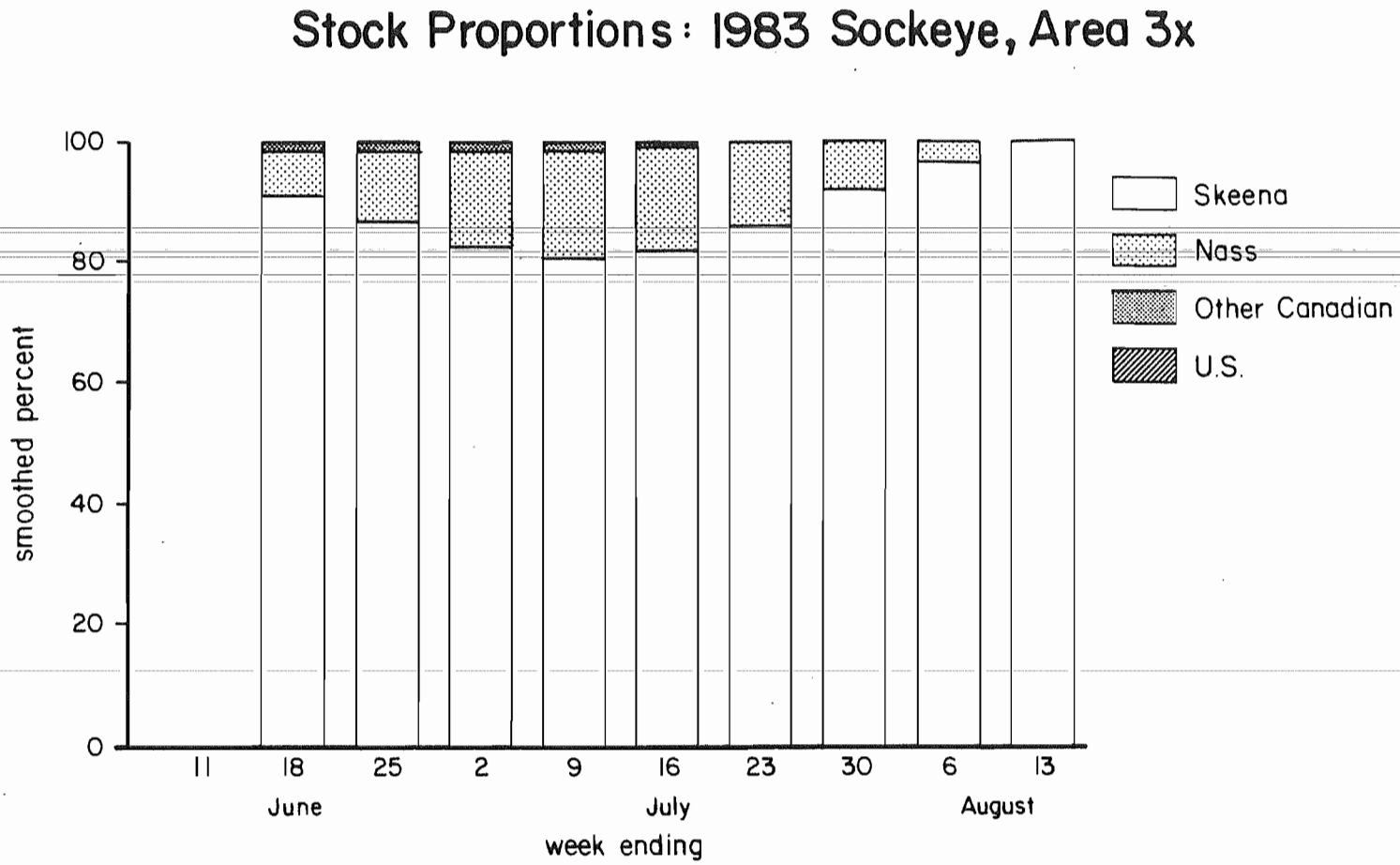
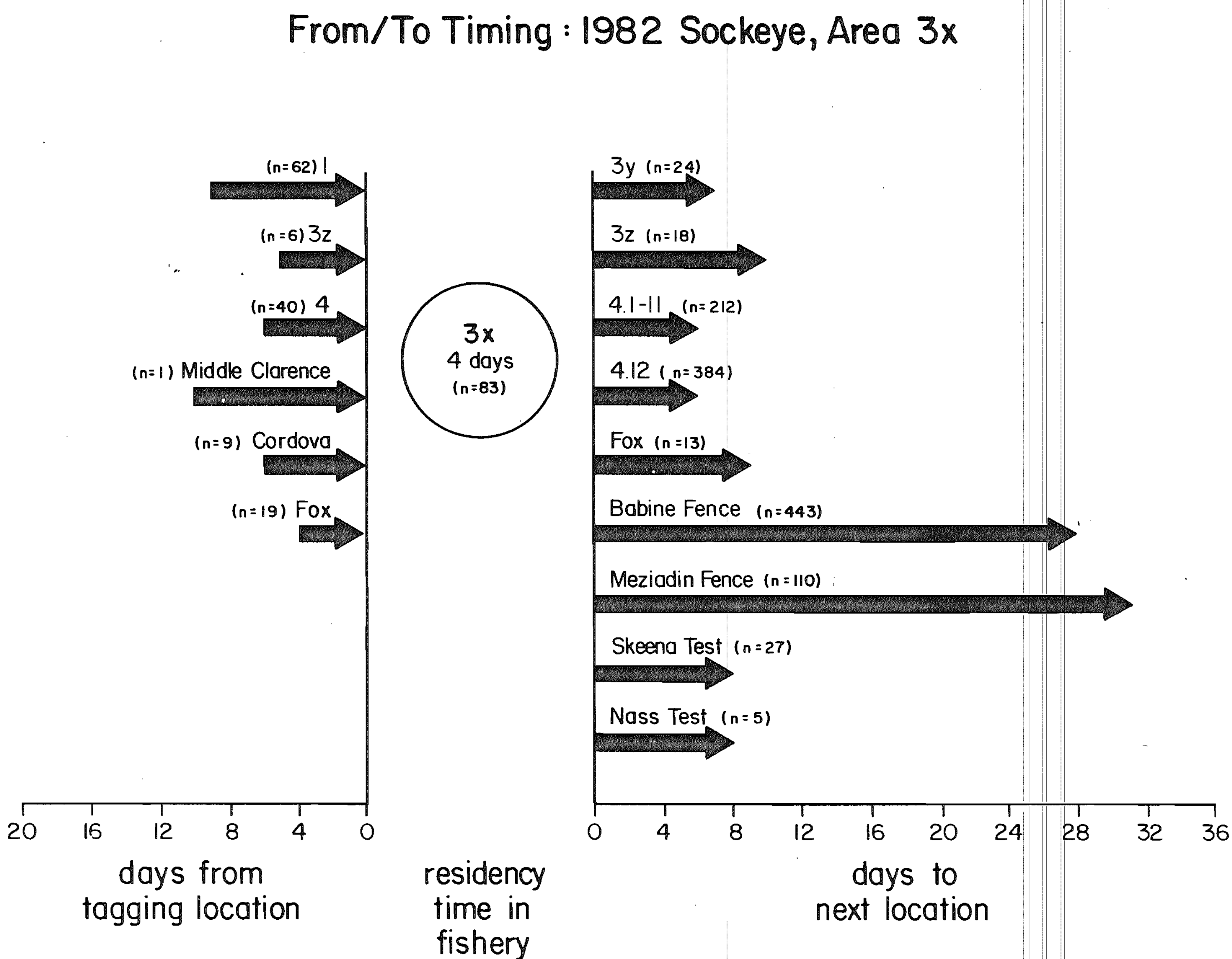


Table V. 8

Stock proportion and smoothed stock proportion for Area 3x, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0.94	0.85	0.73	0.73	0.82	0.83	1.0	0.98	0.85
Nass	0	0.06	0.15	0.22	0.13	0.16	0.17	0.0	0.02	0.0
Oth Can.	0	0.0	0.0	0.03	0.14	0.01	0.0	0.0	0.00	0.10
U.S.	0	0.0	0.0	0.02	0.0	0.01	0.0	0.0	0.00	0.05
Smoothed stock proportion										
Skeena	0	0.91	0.86	0.82	0.80	0.81	0.85	0.92	0.96	0.99
Nass	0	0.07	0.12	0.16	0.18	0.17	0.13	0.08	0.03	0.0
Oth Can.	0	0.01	0.01	0.01	0.01	0.01	0.01	0.0	0.0	0.0
U.S.	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



From/To Timing : 1982 Sockeye, Area 3x
(n=62) 1
(n=6) 3z
(n=40) 4
(n=1) Middle Clarence
(n=9) Cordova
(n=19) Fox
3x
4 days
(n=83)
3y (n=24)
3z (n=18)
4.1-11 (n=212)
4.12 (n=384)
Fox (n=13)
Babine Fence (n=443)
Meziadin Fence (n=110)
Skeena Test (n=27)
Nass Test (n=5)
20 16 12 8 4 0
0 4 8 12 16 20 24 28 32 36
days from tagging location
residency time in fishery
days to next location

Figure V.13

Figure V.14

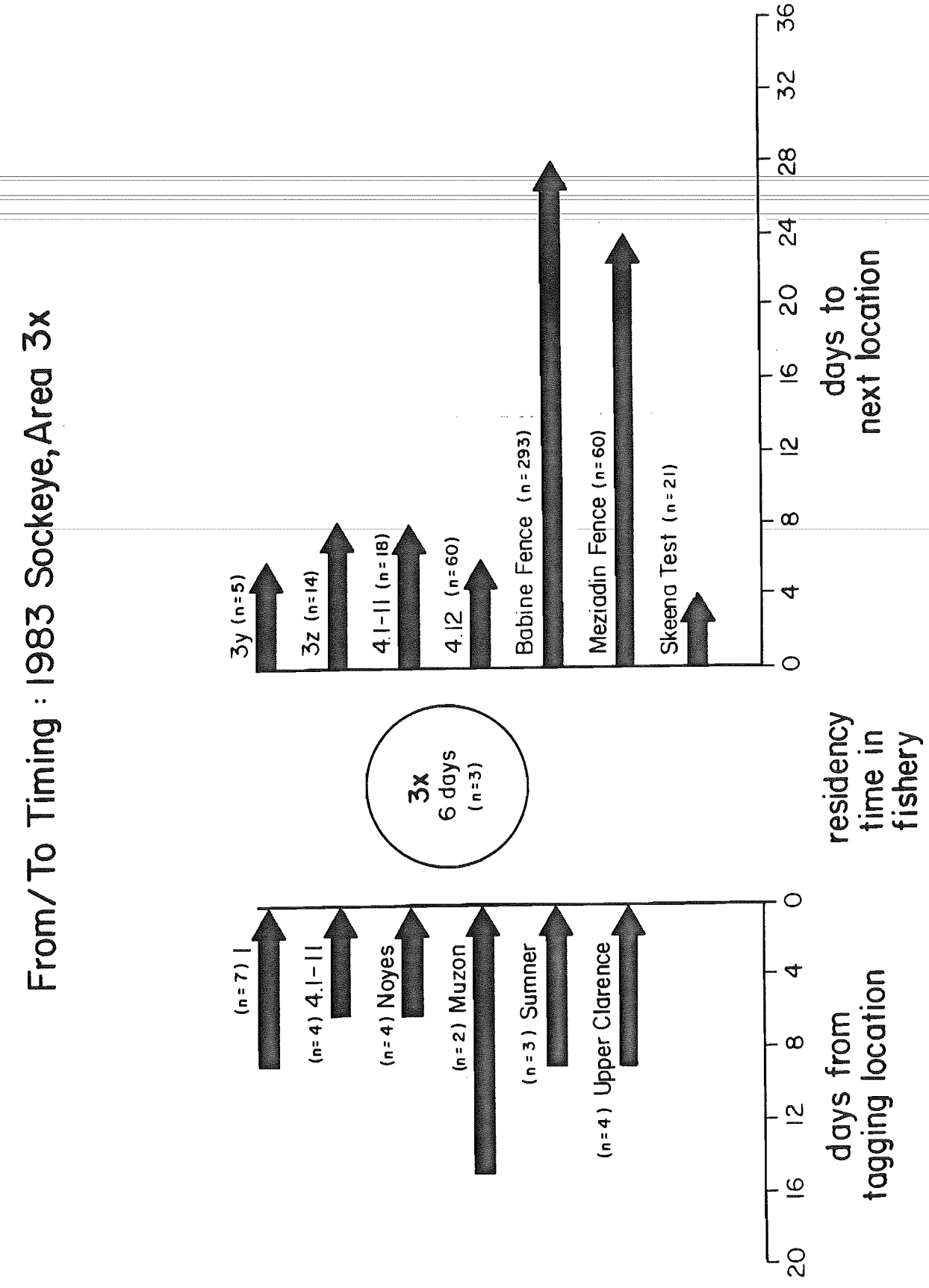

From/To Timing : 1983 Sockeye, Area 3x
(n=7) I
(n=4) 4.1-11
(n=4) Noyes
(n=2) Muzon
(n=3) Sumner
(n=4) Upper Clarence
3x
6 days
(n=3)
3y (n=5)
3z (n=14)
4.1-11 (n=18)
4.12 (n=60)
Babine Fence (n=293)
Meziadin Fence (n=60)
Skeena Test (n=21)
0
4
8
12
16
20
24
28
32
36
days from tagging location
residency time in fishery
days to next location

Figure V.15

Detailed Run Timing

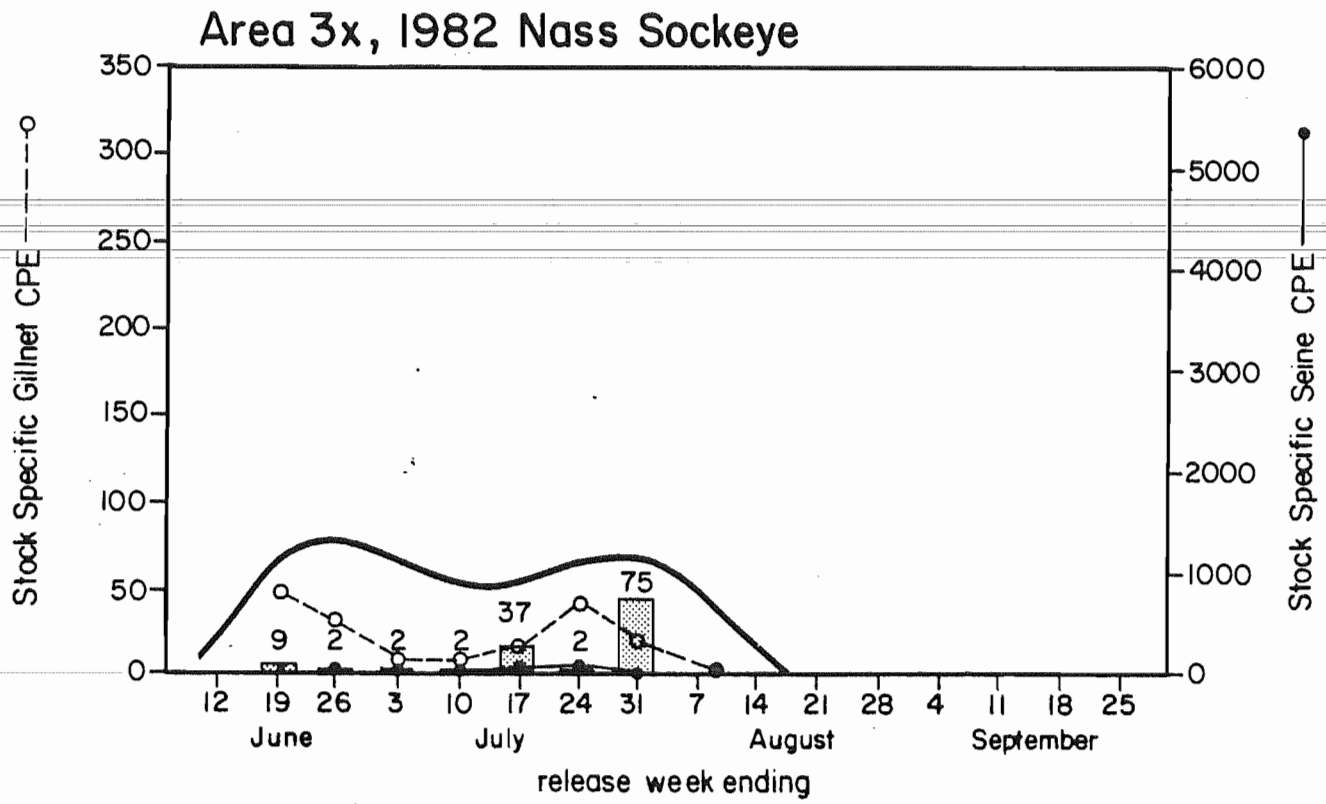


Figure V.16

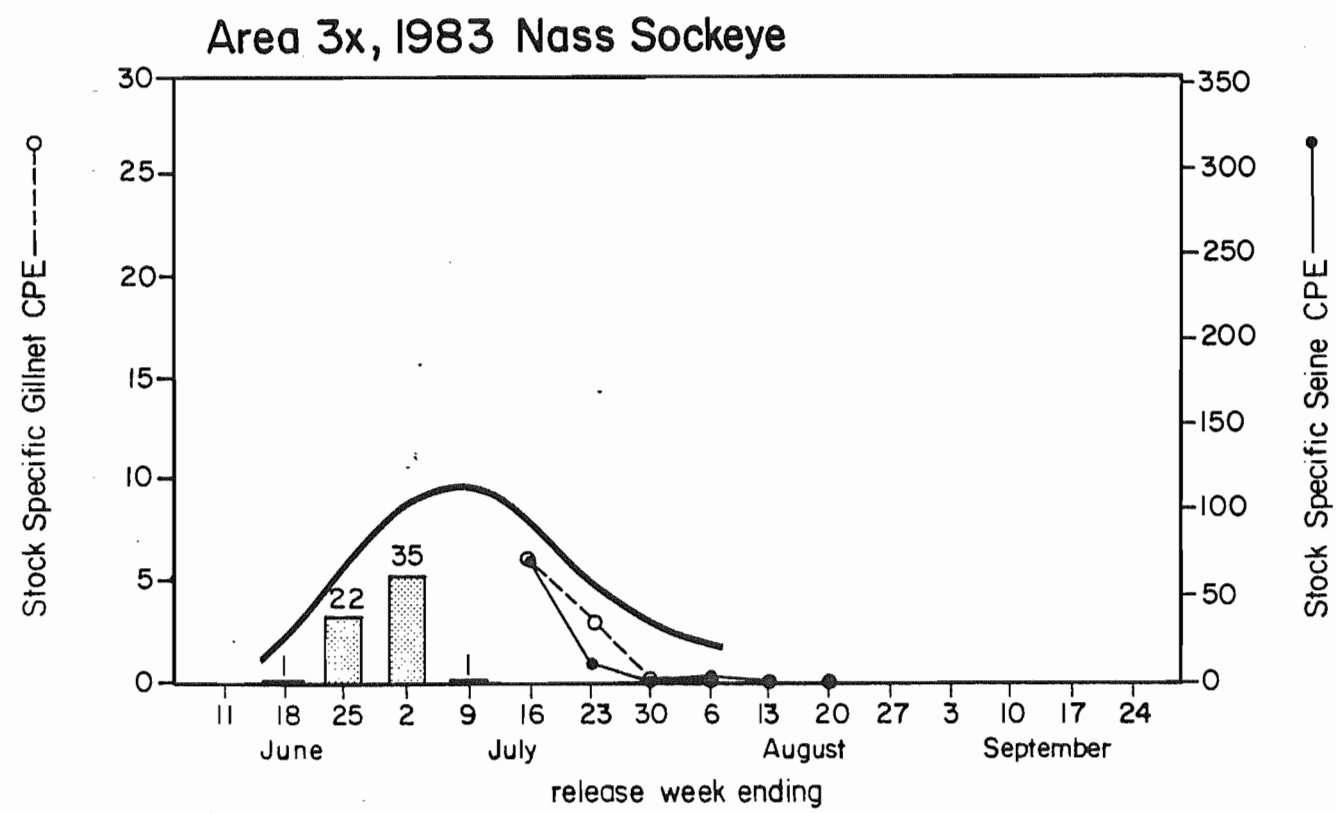


Figure V.17

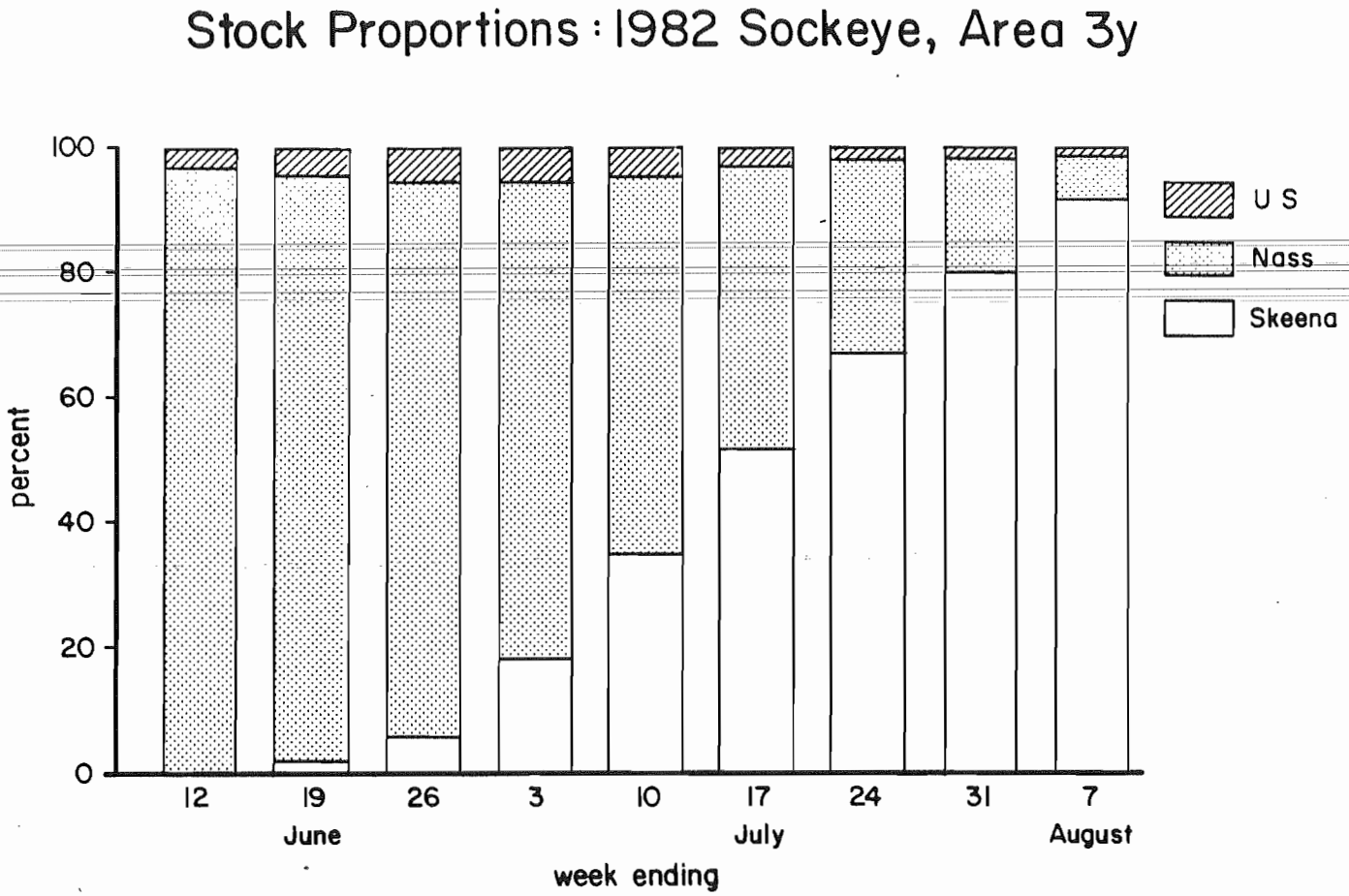


Table V. 9

Stock proportion and smoothed stock proportion for Area 3y, 1982 sockeye.

	Week Ending								
	June			July					August
	12	19	26	3	10	17	24	31	07
Stock Proportion									
Skeena	0.01	0.05	0.05	0.04	0.61	0.62	0.21	0.83	0.85
Nass	0.95	0.94	0.88	0.90	0.33	0.35	0.76	0.17	0.09
U.S.	0.04	0.01	0.07	0.06	0.06	0.03	0.03	0.0	0.06
Smoothed Stock Proportion									
Skeena	0.01	0.03	0.07	0.19	0.36	0.52	0.67	0.79	0.91
Nass	0.96	0.92	0.87	0.75	0.59	0.45	0.31	0.19	0.07
U.S.	0.03	0.05	0.06	0.06	0.05	0.03	0.02	0.02	0.02

Figure V.18

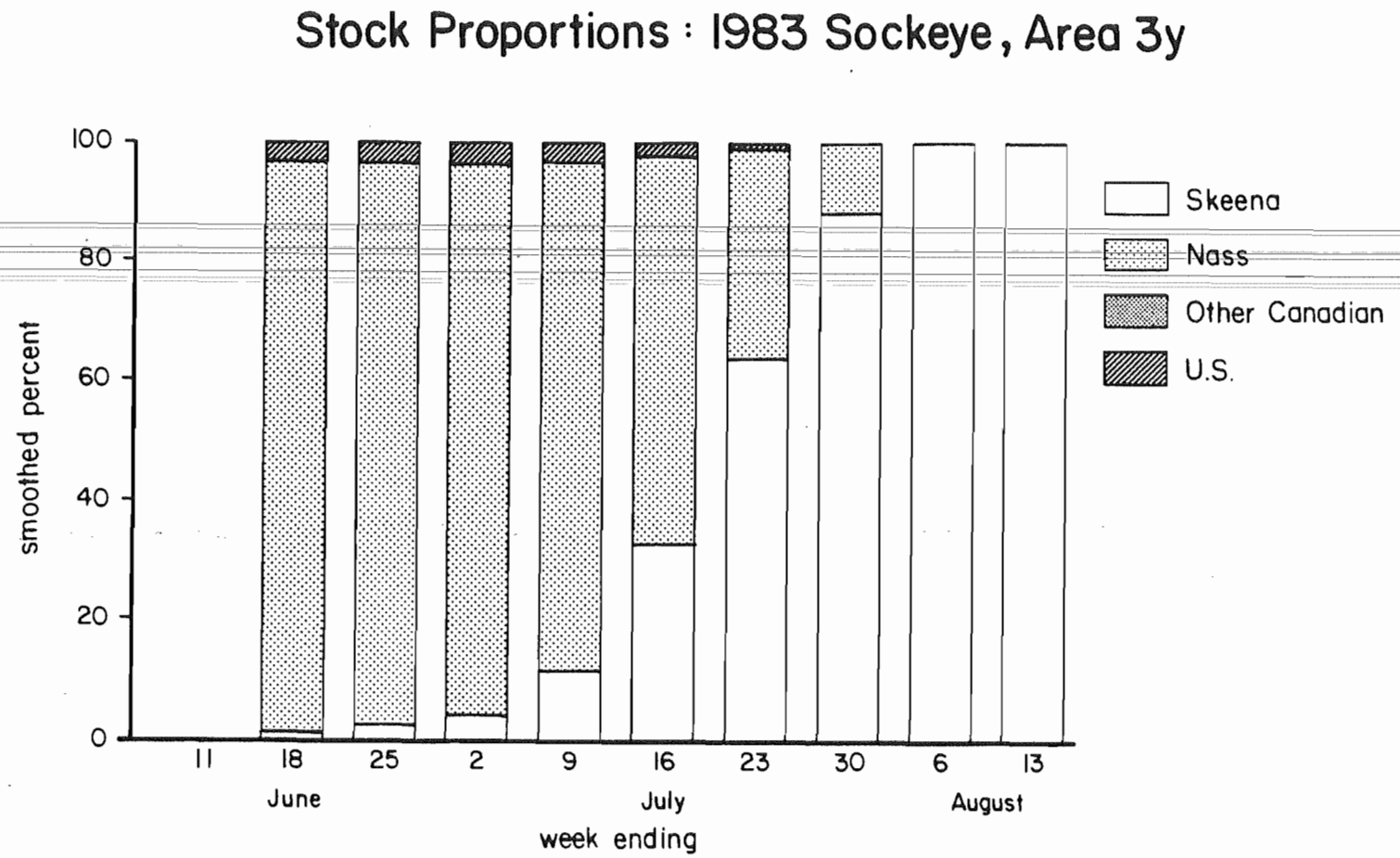


Table V. 10

Stock proportion and smoothed stock proportion for Area 3y, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0.0	0.03	0.05	0.02	0.17	0.73	1.0	0.93	0.85
Nass	0	1.0	0.93	0.89	0.94	0.80	0.27	0.0	0.07	0.0
Oth Can.	0	0.0	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.15
U.S.	0	0.0	0.03	0.06	0.04	0.02	0.0	0.0	0.0	0.0
Smoothed stock proportion										
Skeena	0	0.02	0.03	0.04	0.11	0.33	0.64	0.88	1.0	1.0
Nass	0	0.95	0.94	0.92	0.85	0.65	0.35	0.11	0.0	0.0
Oth Can.	0	0.0	0.0	0.0	0.0	0 0	0.0	0.0	0.0	0.0
U.S.	0	0.03	0.03	0.04	0.04	0.02	0.01	0.01	0.0	0.0

Figure V.19

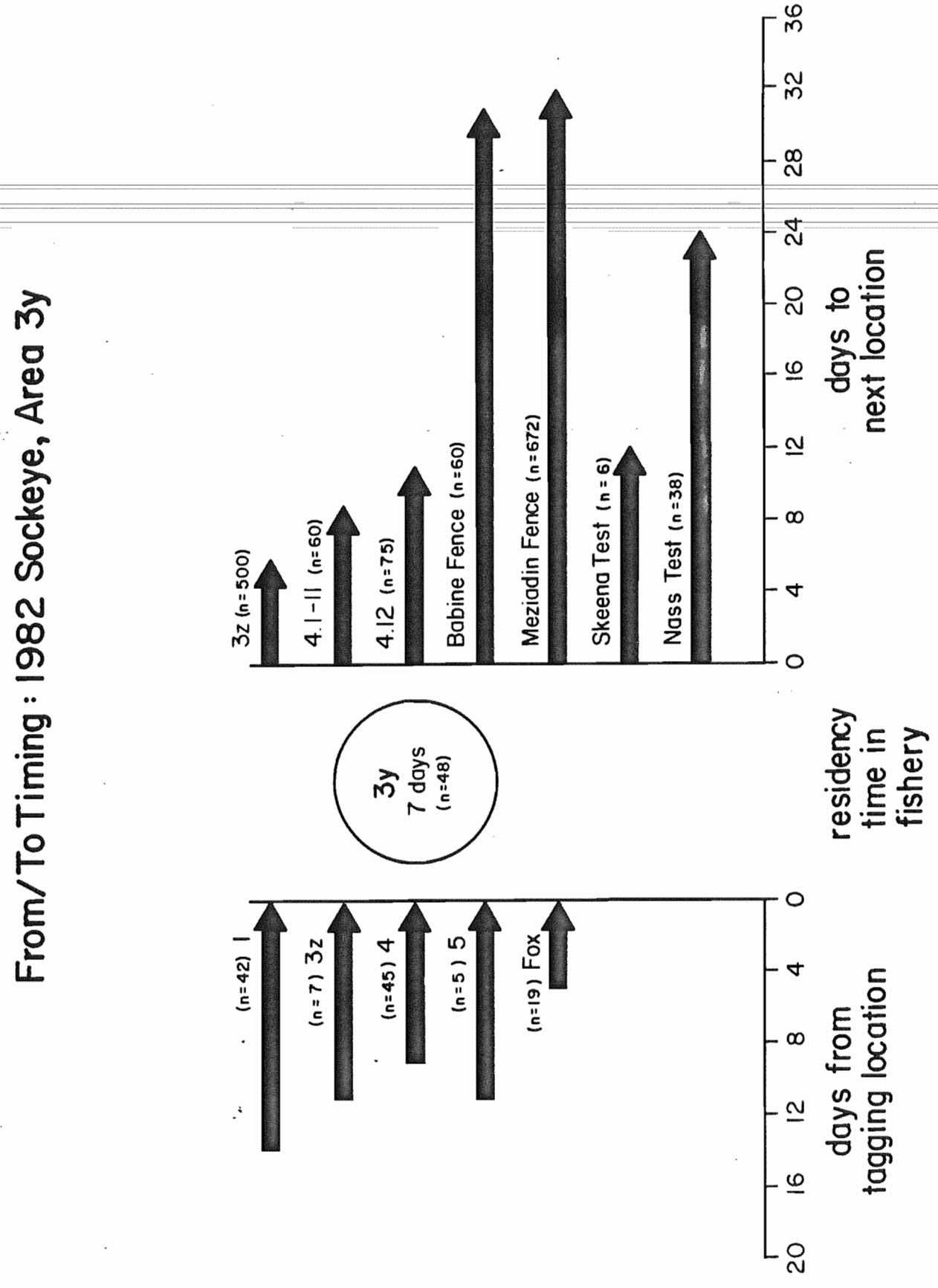

From/To Timing: 1982 Sockeye, Area 3y
(n=42) 1
(n=7) 3z
(n=45) 4
(n=5) 5
(n=19) Fox
3y
7 days
(n=48)
3z (n=500)
4.1-11 (n=60)
4.12 (n=75)
Babine Fence (n=60)
Meziadin Fence (n=672)
Skeena Test (n=6)
Nass Test (n=38)
0 4 8 12 16 20
20 16 12 8 4 0
days from tagging location
residency time in fishery
0 4 8 12 16 20 24 28 32 36
days to next location

Figure V.20

From/To Timing : 1983 Sockeye, Area 3y

Figure V.21

Detailed Run Timing

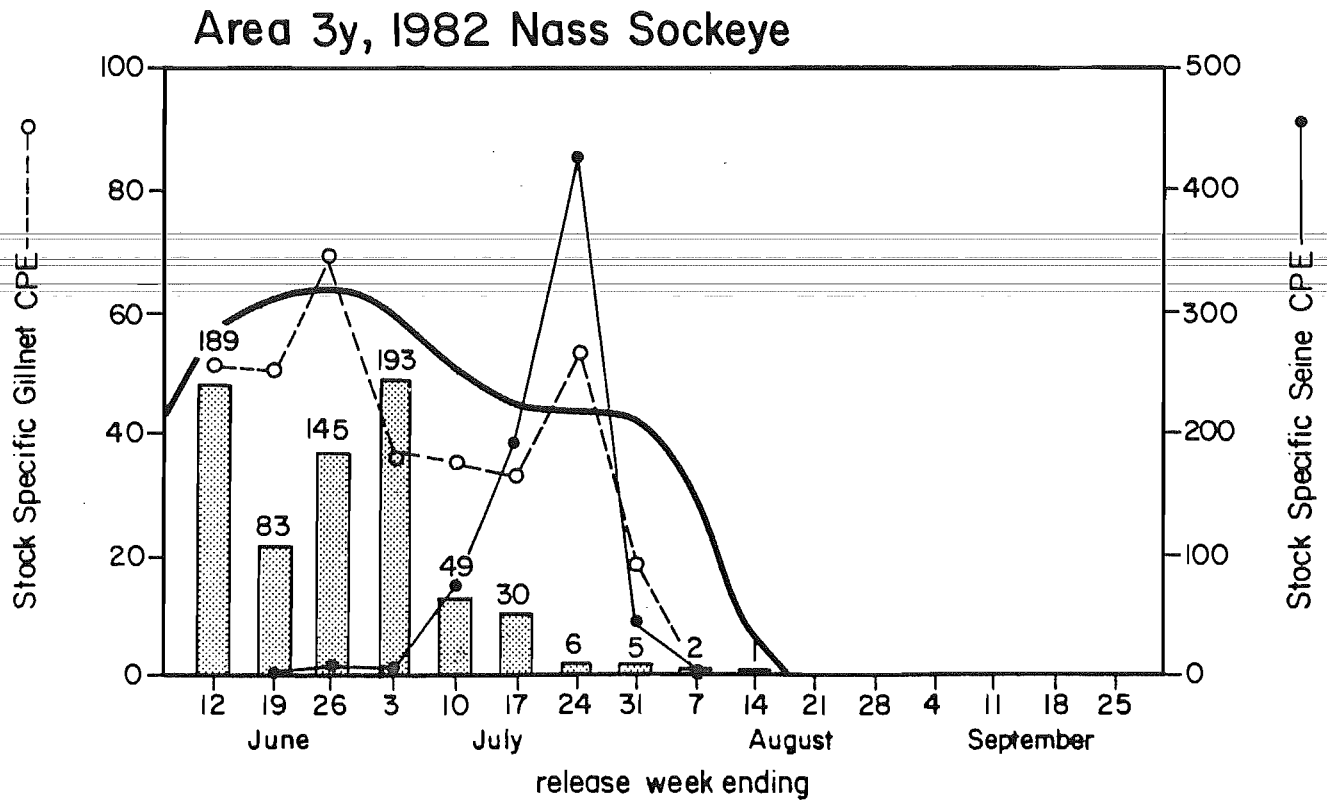


Figure V.22

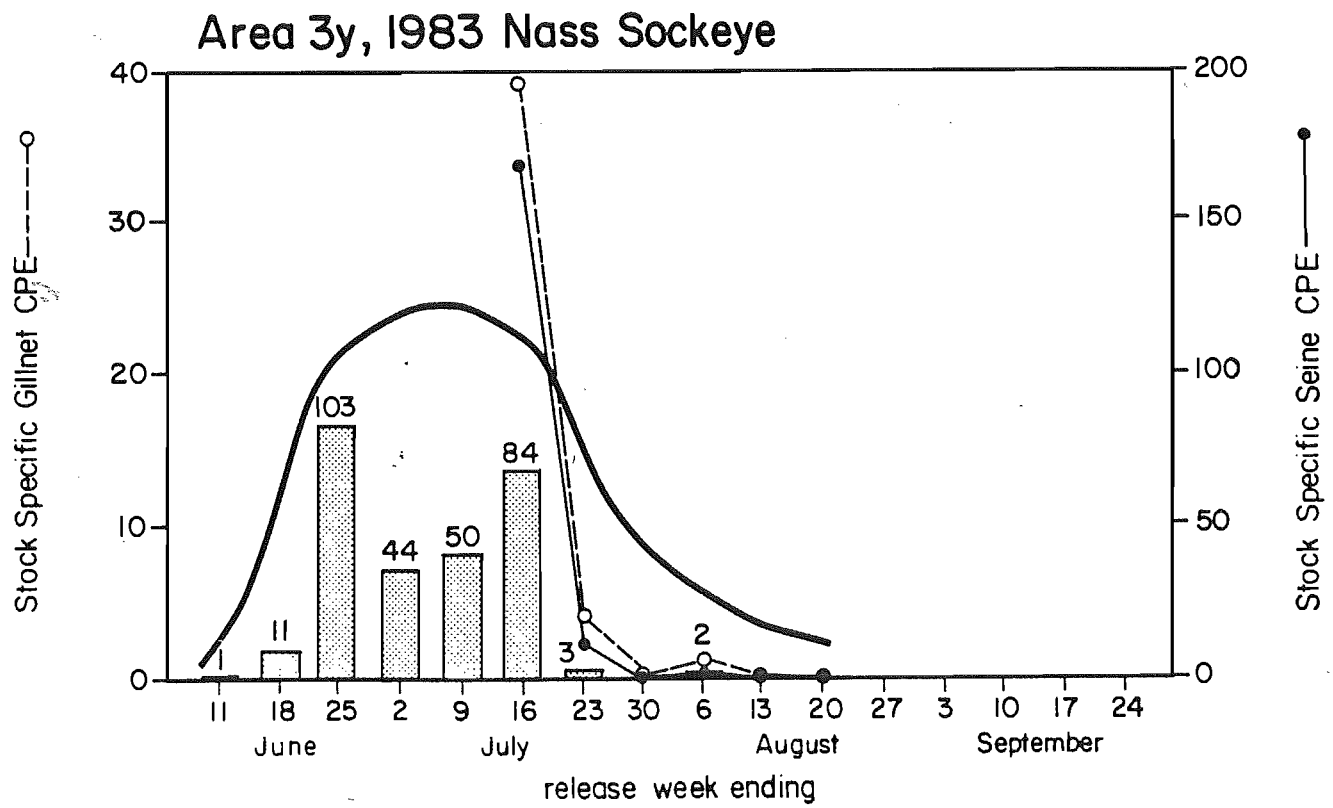


Figure V.23

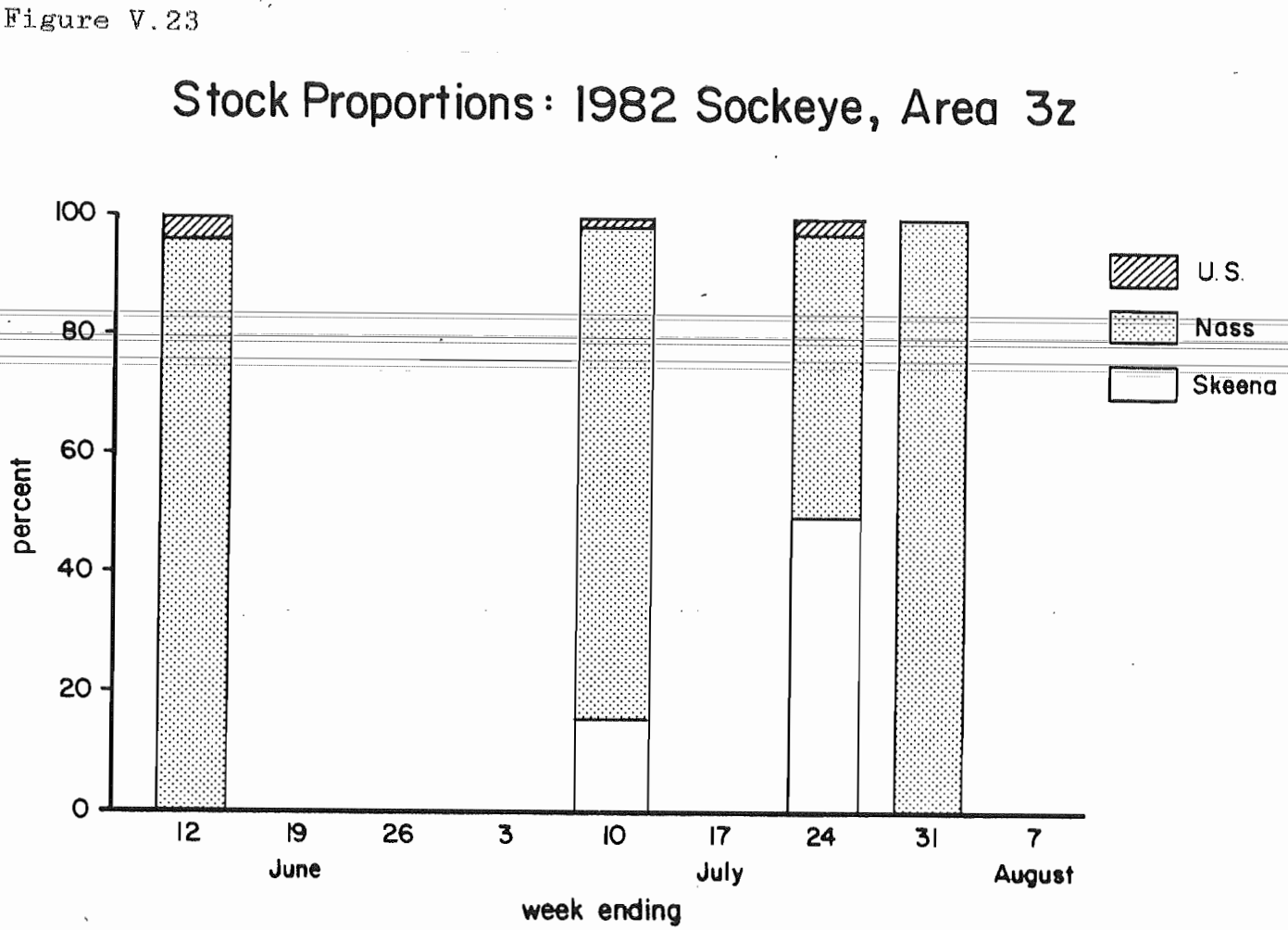


Table V. 11

Stock proportion and smoothed stock proportion for Area 3z, 1982 sockeye.

	Week Ending								
	June			July					August
	12	19	26	3	10	17	24	31	07
Stock Proportion									
Skeena	0.00				0.17		0.50		
Nass	0.96				0.81		0.46		
U.S.	0.04				0.02		0.04		
Smoothed Stock Proportion									
Skeena	0.00				0.17		0.50		
Nass	0.96				0.81		0.46		
U.S.	0.04				0.02		0.04		

Figure V.24

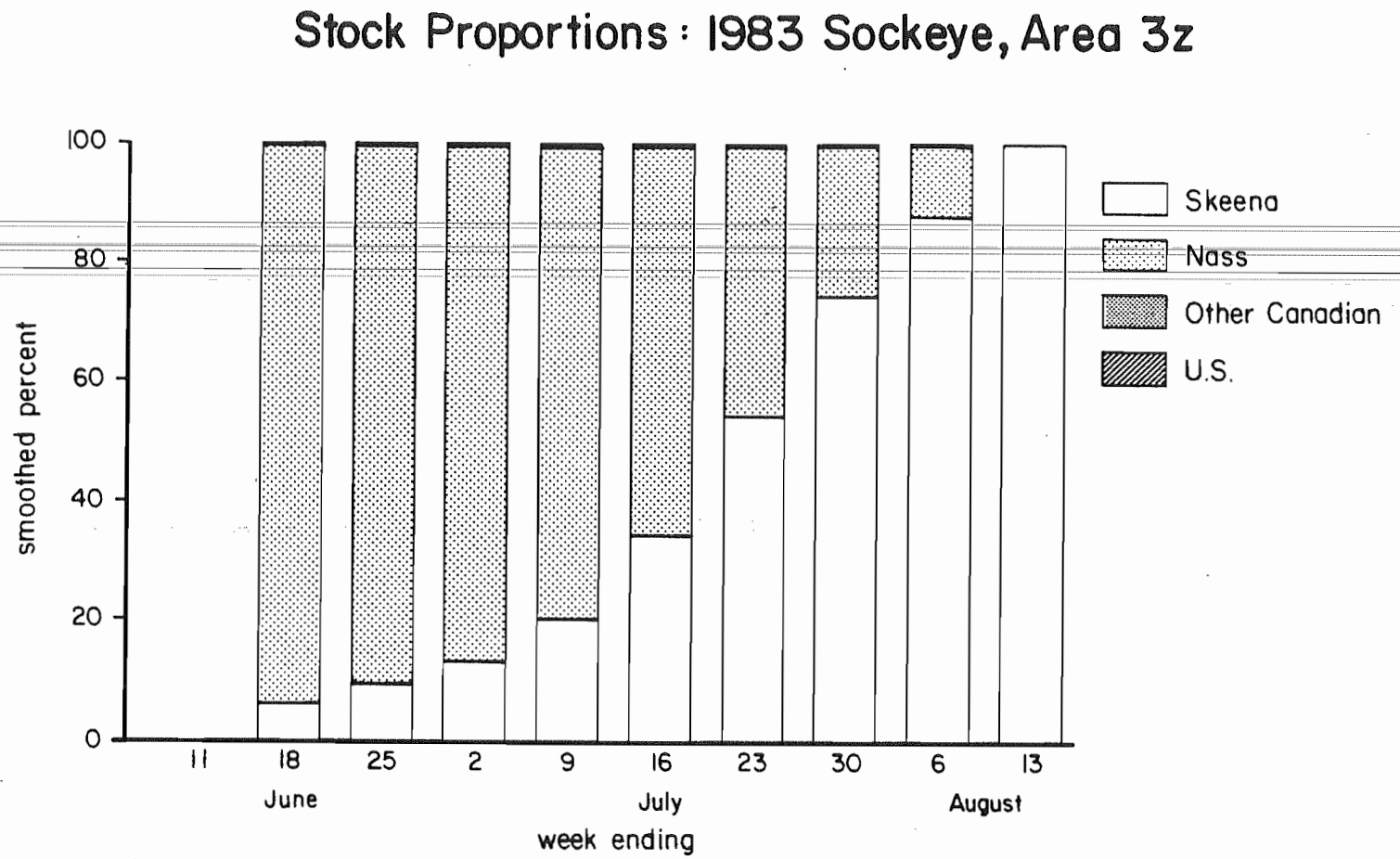


Table V. 12

Stock proportion and smoothed stock proportion for Area 3z, 1983 sockeye.

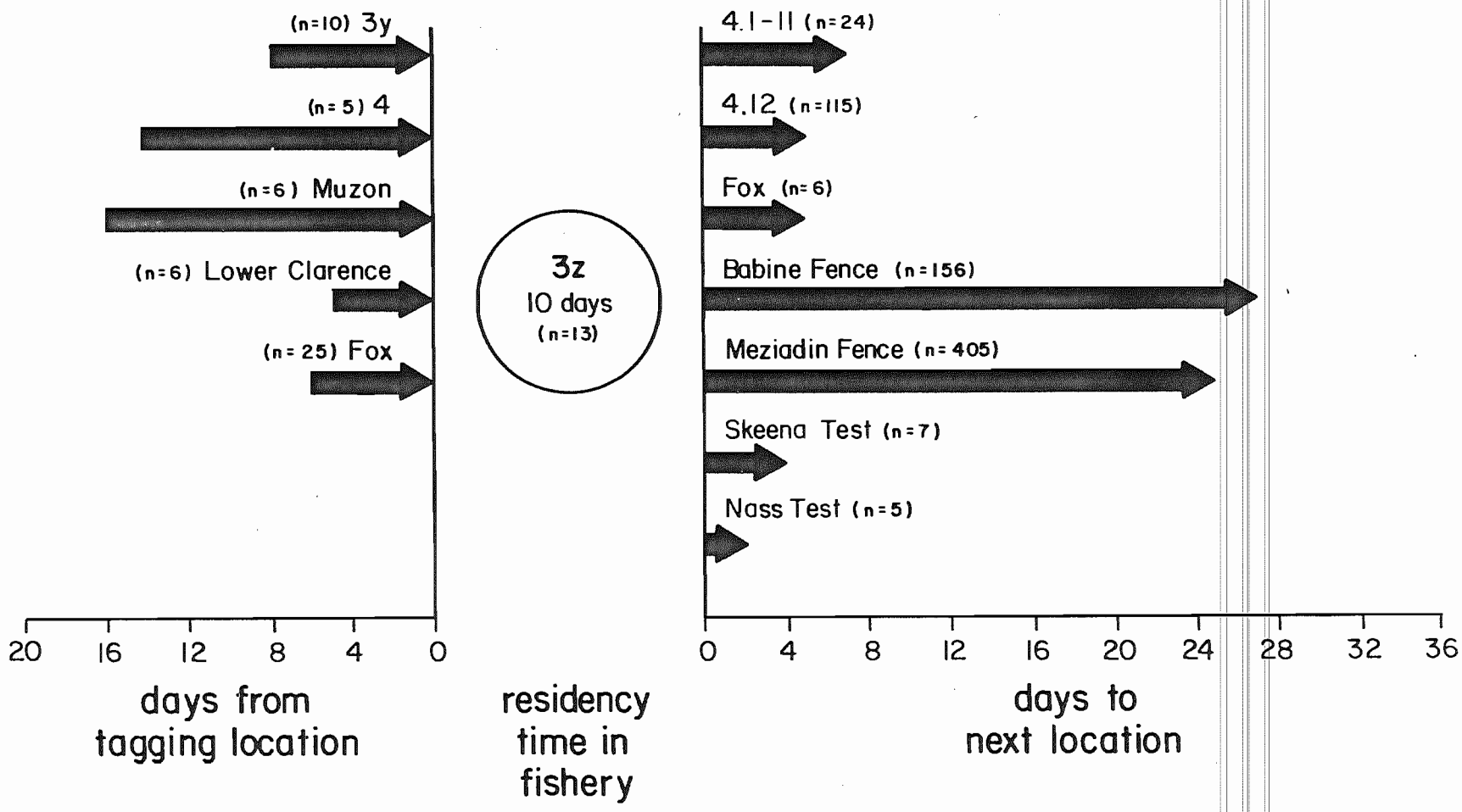
	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0.11	0.06	0.16	0.12	0.47	0.33	0.96	0.92	0.87
Nass	0	0.88	0.94	0.82	0.88	0.50	0.66	0.03	0.08	0.0
Oth Can.	0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.13
U.S.	0	0.01	0.0	0.02	0.0	0.02	0.01	0.01	0.0	0.0
Smoothed stock proportion										
Skeena	0	0.06	0.09	0.13	0.20	0.34	0.54	0.74	0.88	1.00
Nass	0	0.93	0.90	0.86	0.79	0.65	0.45	0.25	0.11	0.0
Oth Can.	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S.	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0

From/To Timing : 1982 Sockeye, Area 3z

Figure V.25

Figure V.26

From/To Timing : 1983 Sockeye, Area 3z



Detailed Run Timing

Figure V.27

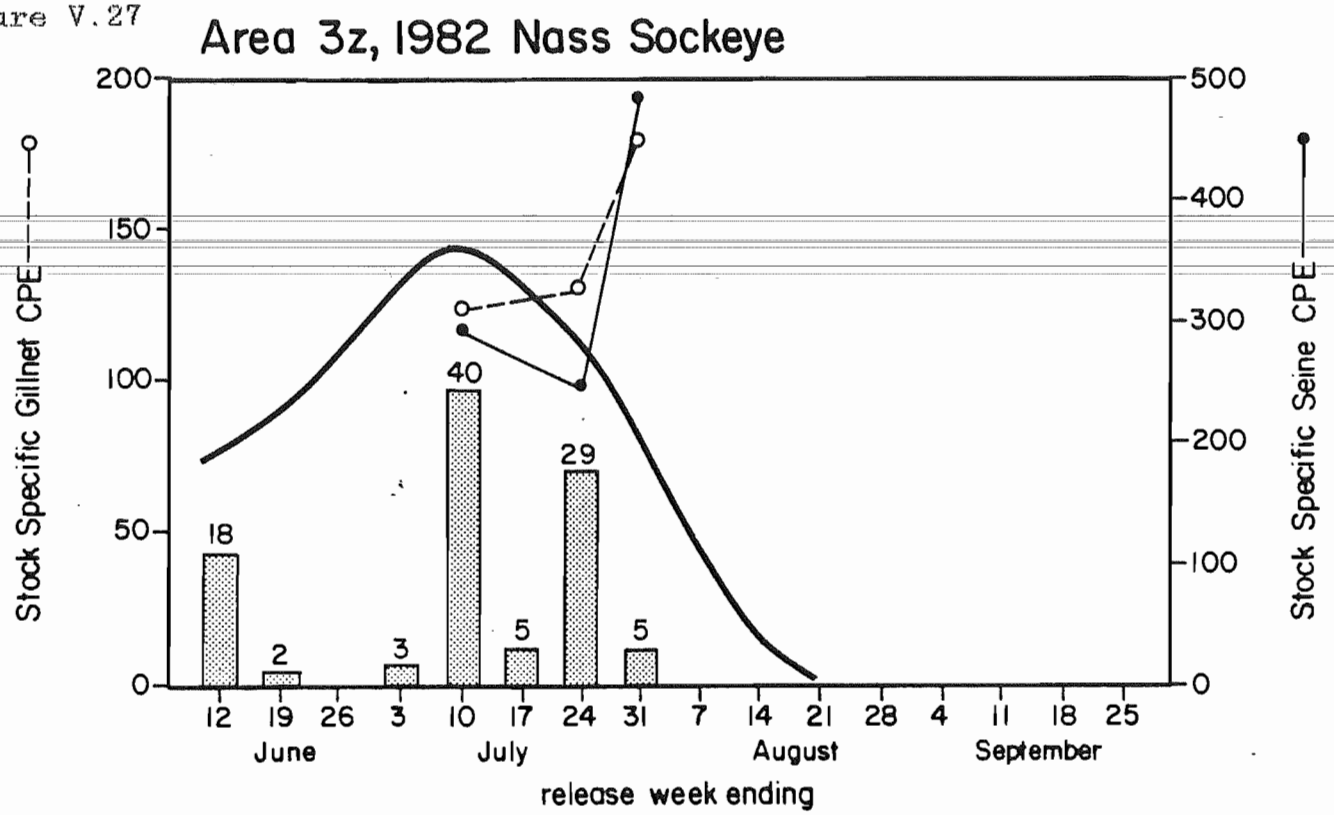


Figure V.28

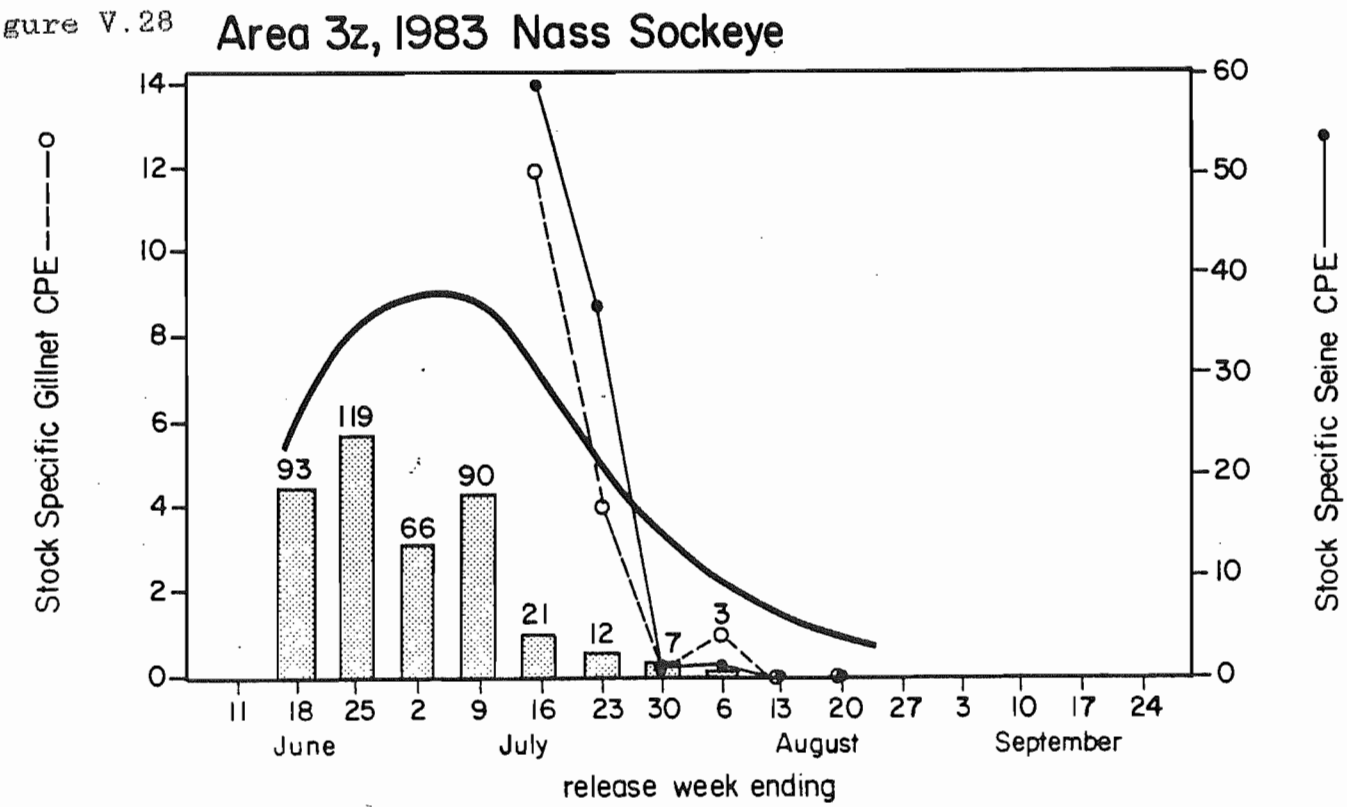


Figure V.29

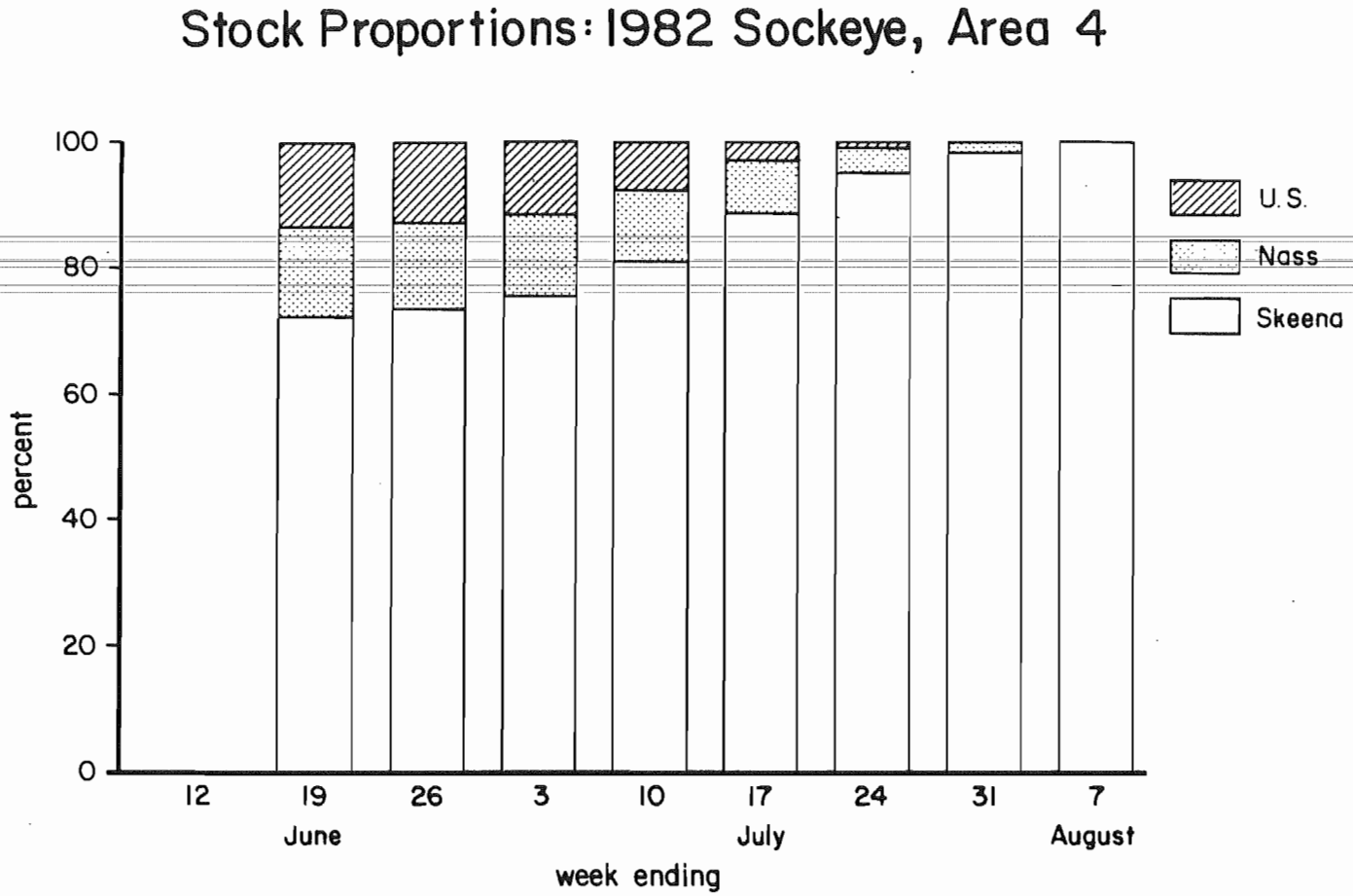


Table V. 13

Stock proportion and smoothed stock proportion for Area 4, 1982 sockeye.

	Week Ending								
	June			July					August
	12	19	26	3	10	17	24	31	07
Stock Proportion									
Skeena		0.88	0.61	0.28	0.93	0.93	0.79	0.99	1.0
Nass		0.11	0.21	0.37	0.04	0.06	0.20	0.01	0.0
U.S.		0.01	0.18	0.35	0.03	0.01	0.01	0.0	0.0
Smoothed Stock Proportion									
Skeena		0.72	0.73	0.75	0.80	0.88	0.95	0.98	1.0
Nass		0.14	0.14	0.13	0.12	0.09	0.05	0.02	0.0
U.S.		0.14	0.13	0.12	0.08	0.03	0.0	0.0	0.0

Figure V.30 **Stock Proportions: 1983 Sockeye, Area 4**

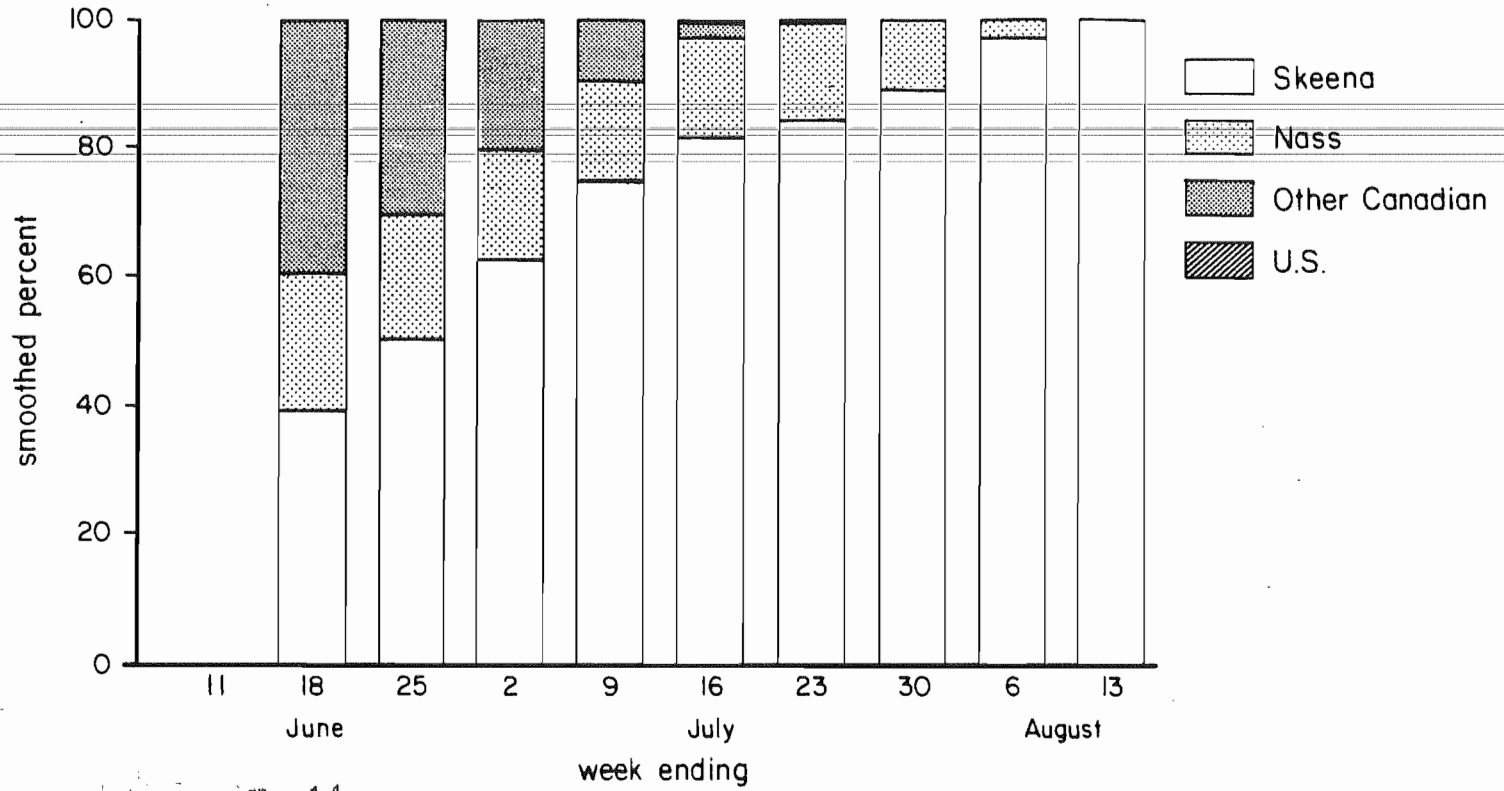


Table V. 14

Stock proportion and smoothed stock proportion for Area 4, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0.47	0.19	0.0	1.0	0.63	0.86	0	0	0.85
Nass	0	0.18	0.62	0.0	0.0	0.31	0.14	0	0	0.0
Oth Can.	0	0.35	0.19	1.0	0.0	0.04	0.0	0	0	0.15
U.S.	0	0.0	0.0	0.0	0.0	0.02	0.0	0	0	0.0
Smoothed stock proportion										
Skeena	0	0.40	0.51	0.63	0.75	0.82	0.84	0.89	0.97	1.0
Nass	0	0.21	0.19	0.17	0.15	0.15	0.15	0.10	0.02	0
Oth Can.	0	0.39	0.30	0.20	0.09	0.02	0.005	0.005	0.0	0
U.S.	0	0.0	0.0	0.0	0.01	0.01	0.005	0.01	0.01	0

Figure V.31

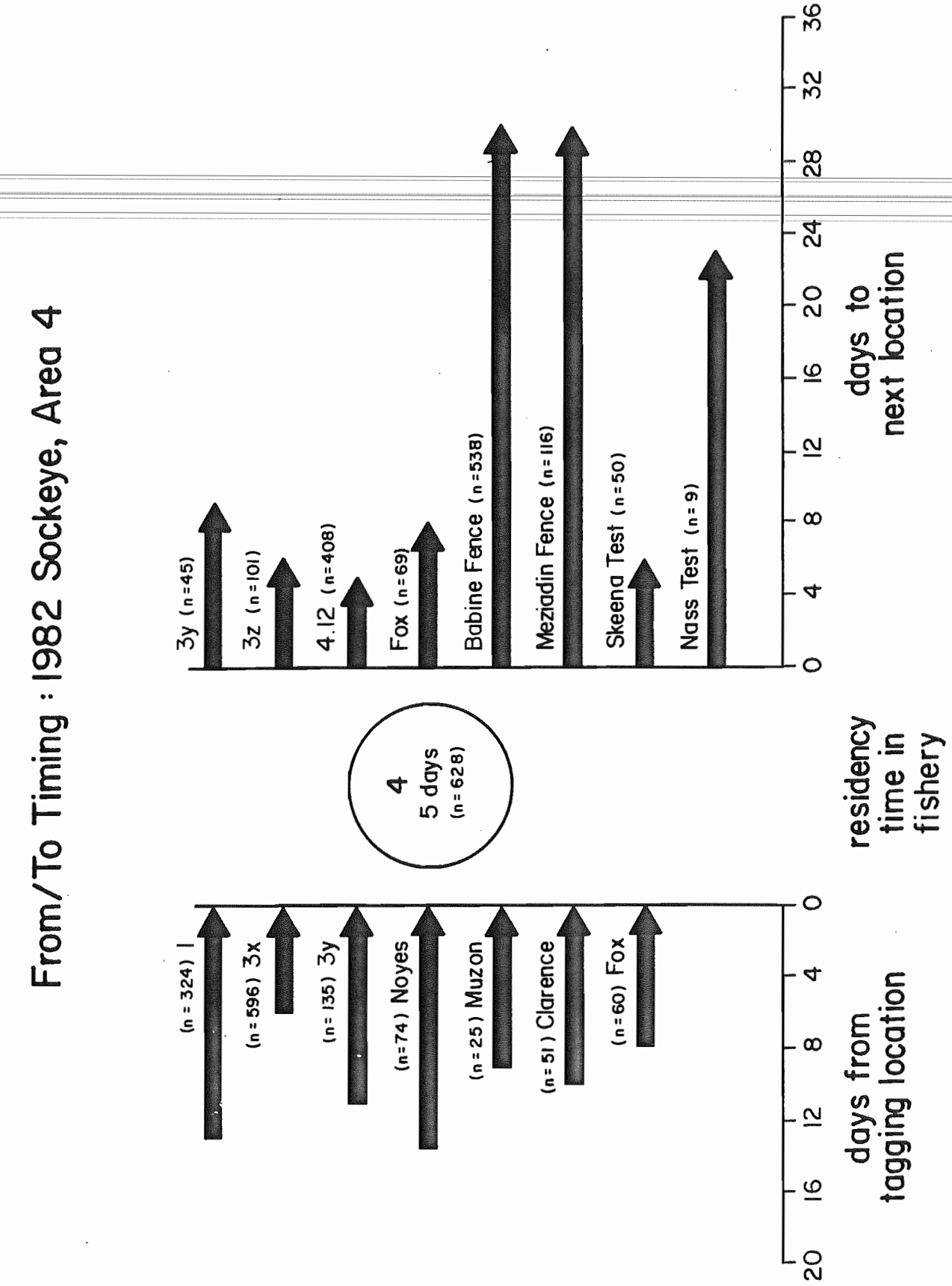
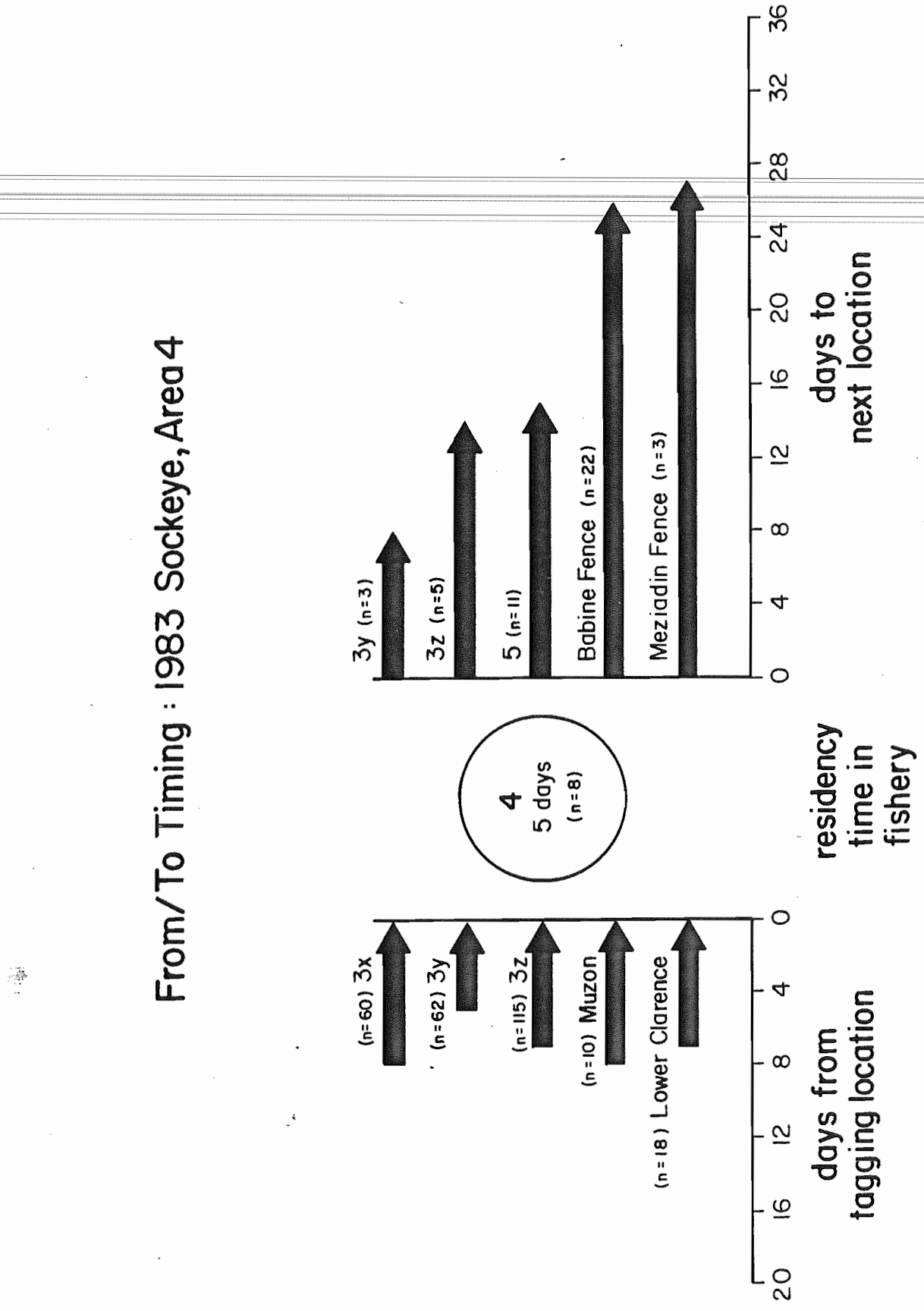

From/To Timing : 1982 Sockeye, Area 4
4
5 days
(n=628)
(n=324) 1
(n=596) 3x
(n=135) 3y
(n=74) Noyes
(n=25) Muzon
(n=51) Clarence
(n=60) Fox
3y (n=45)
3z (n=101)
4.12 (n=408)
Fox (n=69)
Babine Fence (n=538)
Meziadin Fence (n=116)
Skeena Test (n=50)
Nass Test (n=9)
20 16 12 8 4 0
0 4 8 12 16 20 24 28 32 36
days from tagging location
residency time in fishery
days to next location

Figure V.32


From/To Timing : 1983 Sockeye, Area 4
(n=60) 3x
(n=62) 3y
(n=115) 3z
(n=10) Muzon
(n=18) Lower Clarence
20 16 12 8 4 0
days from tagging location
4
5 days
(n=8)
residency time in fishery
3y (n=3)
3z (n=5)
5 (n=11)
Babine Fence (n=22)
Meziadin Fence (n=3)
0 4 8 12 16 20 24 28 32 36
days to next location

Detailed Run Timing

Figure V.33 Area 4, 1982 Nass Sockeye

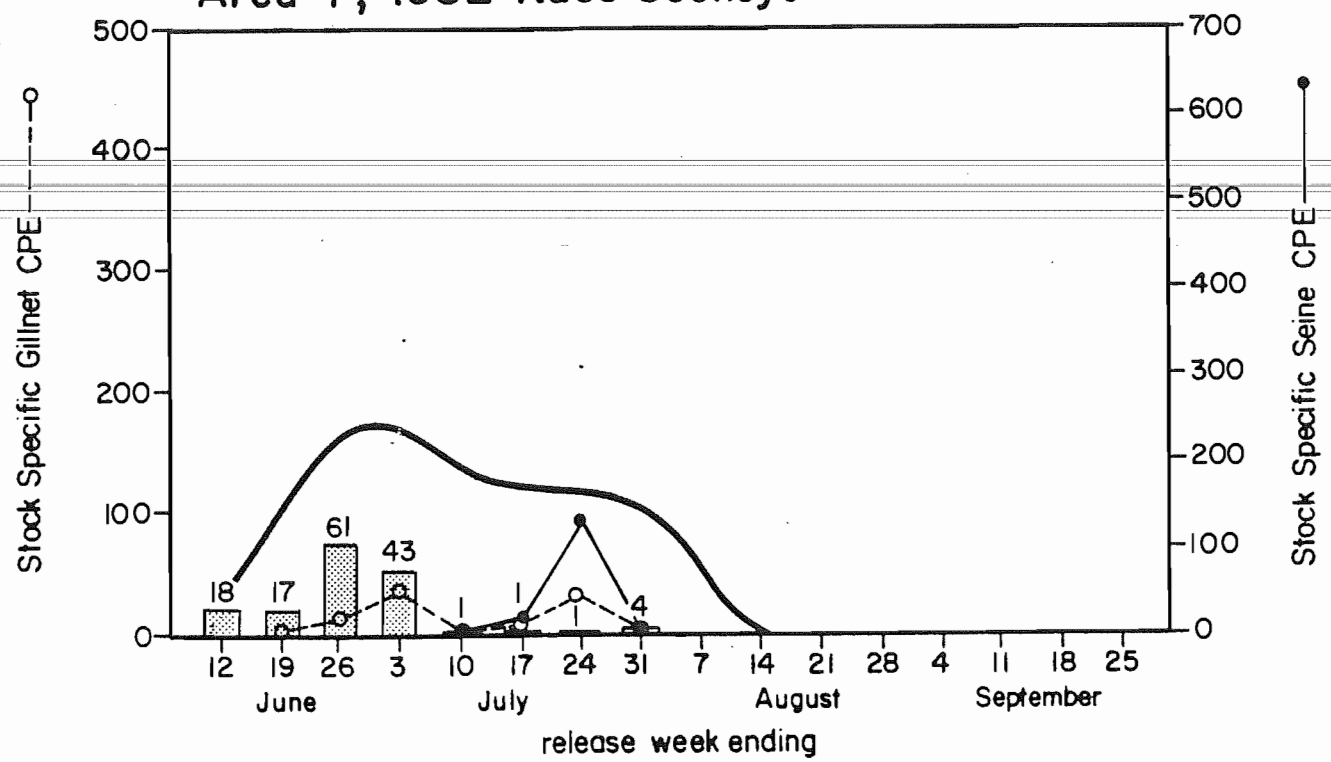


Figure V.34 Area 4, 1983 Nass Sockeye

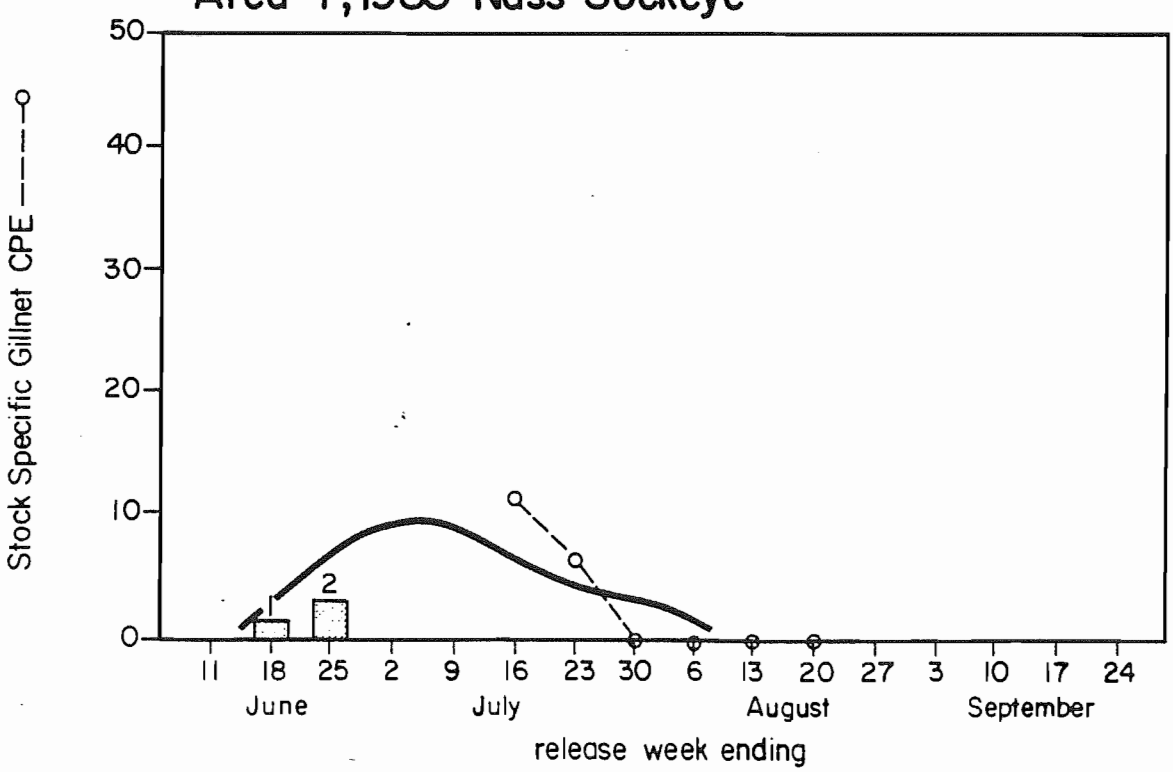


Figure V.35 **Stock Proportions: 1982 Sockeye, Noyes**

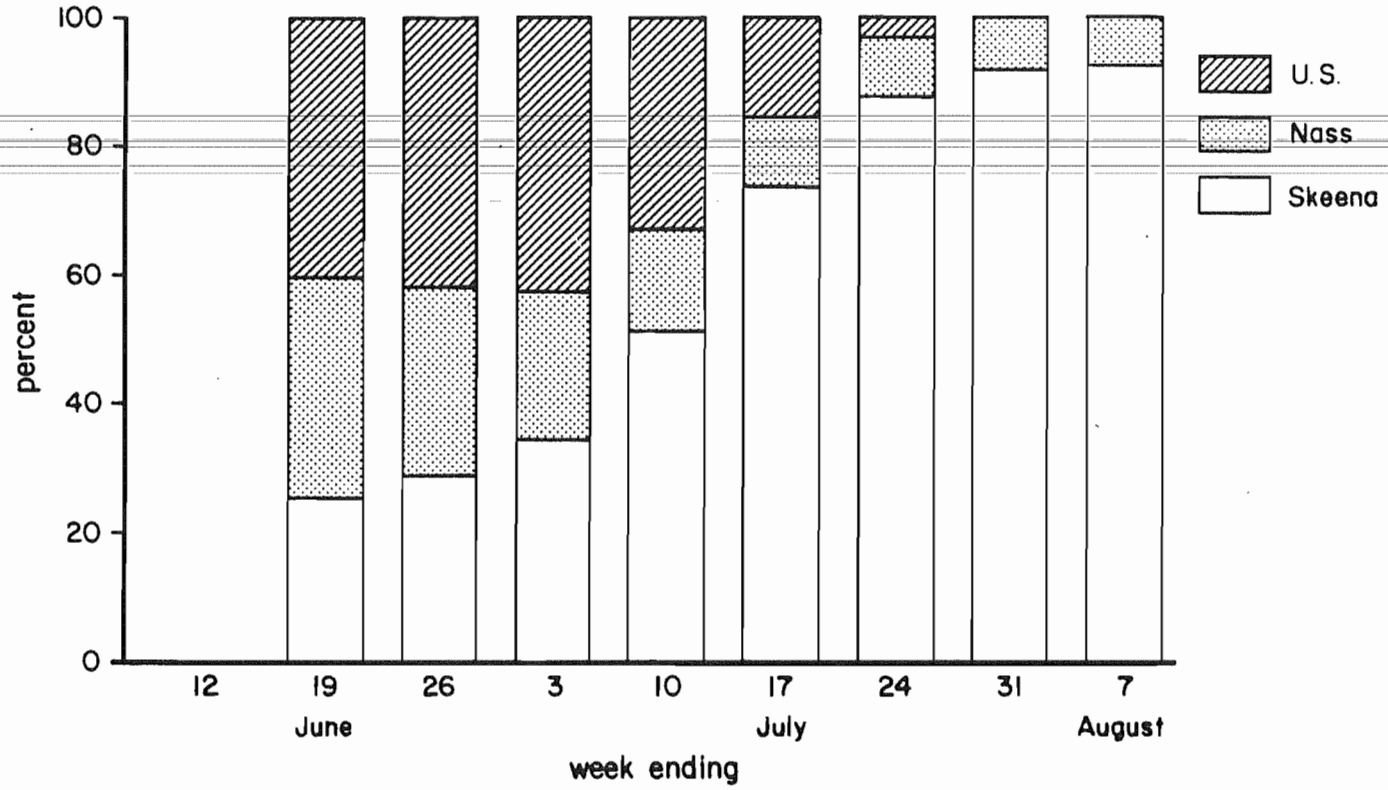


Table V. 15

Stock proportion and smoothed stock proportion for Noyes, 1982 sockeye.

	Week Ending								
	June			July					August
	12	19	26	3	10	17	24	31	07
Stock Proportion									
Skeena		0.51	0.35	0.21	0.33	0.80	0.84	0.92	0.91
Nass		0.35	0.25	0.44	0.01	0.08	0.14	0.08	0.09
U.S.		0.14	0.40	0.35	0.66	0.12	0.02	0.00	0.00
Smoothed Stock Proportion									
Skeena		0.26	0.30	0.35	0.52	0.73	0.87	0.91	0.92
Nass		0.33	0.28	0.22	0.15	0.11	0.09	0.09	0.08
U.S.		0.41	0.42	0.43	0.33	0.16	0.04	0.00	0.00

Figure V.36 **Stock Proportions: 1983 Sockeye, Noyes**

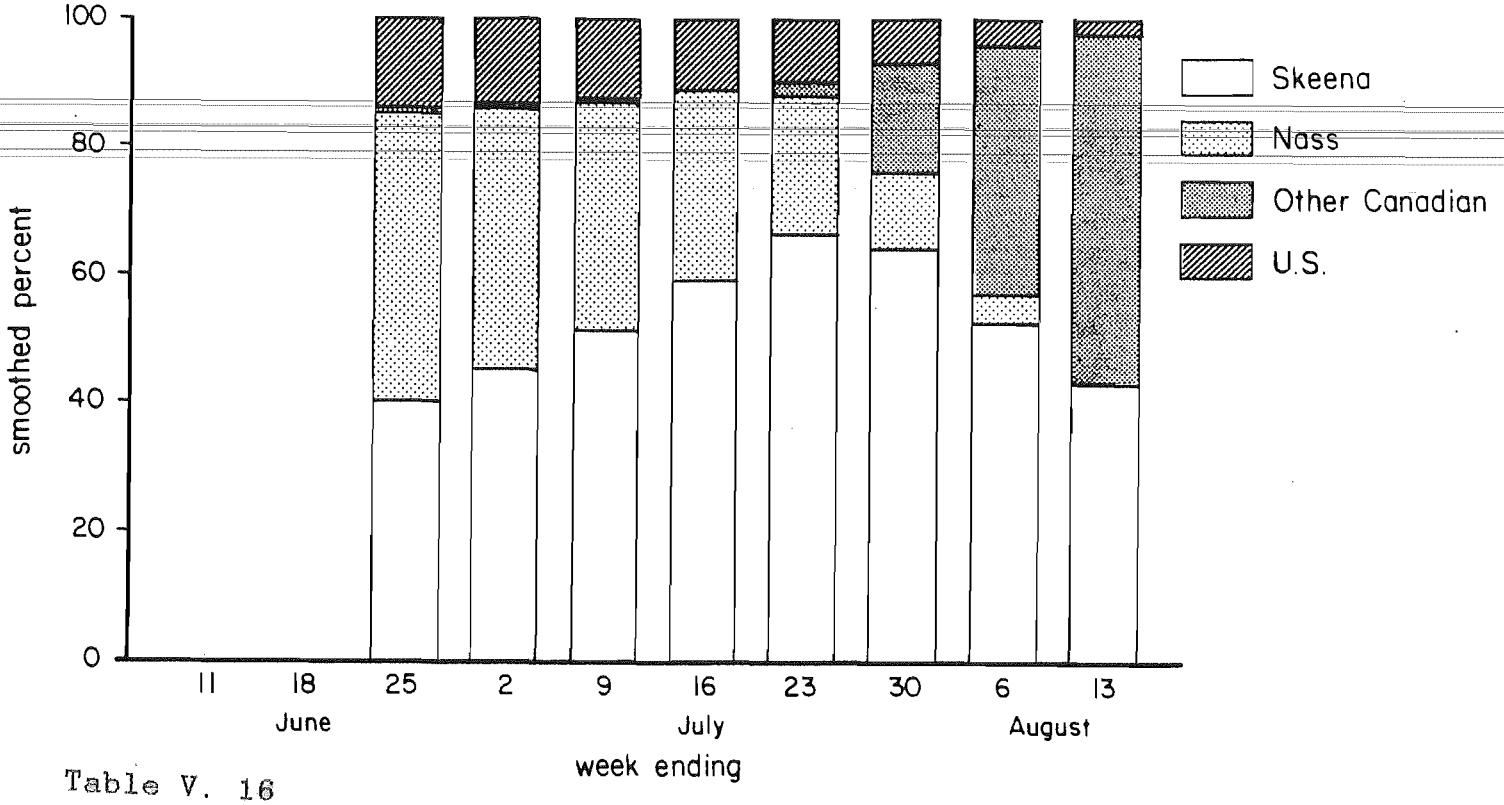


Table V. 16

Stock proportion and smoothed stock proportion for Noyes, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0	0.34	0.66	0.53	0.40	0.84	0	0.39	0.43
Nass	0	0	0.51	0.21	0.33	0.29	0.11	0	0.08	0.01
Oth Can.	0	0	0.0	0.13	0.01	0.01	0.0	0	0.47	0.53
U.S.	0	0	0.15	0.0	0.13	0.30	0.05	0	0.06	0.03
Smoothed stock proportion										
Skeena	0	0	0.41	0.45	0.52	0.59	0.66	0.64	0.53	0.43
Nass	0	0	0.44	0.40	0.35	0.29	0.22	0.12	0.04	0.0
Oth Can.	0	0	0.01	0.01	0.01	0.0	0.02	0.17	0.39	0.54
U.S.	0	0	0.14	0.14	0.12	0.12	0.10	0.07	0.04	0.03

From/To Timing:
1982 Sockeye, Noyes
3x (n=12)
3y (n=10)
3z (n=13)
4.1-11 (n=42)
4.12 (n=32)
5 (n=5)
Lower Clarence (n=4)
Babine Fence (n=72)
Meziadin Fence (n=58)
Skeena Test (n=7)
Nass Test (n=6)
Noyes
0
4
8
12
16
20
24
28
32
36
residency time in fishery
days to next location

Figure V.37

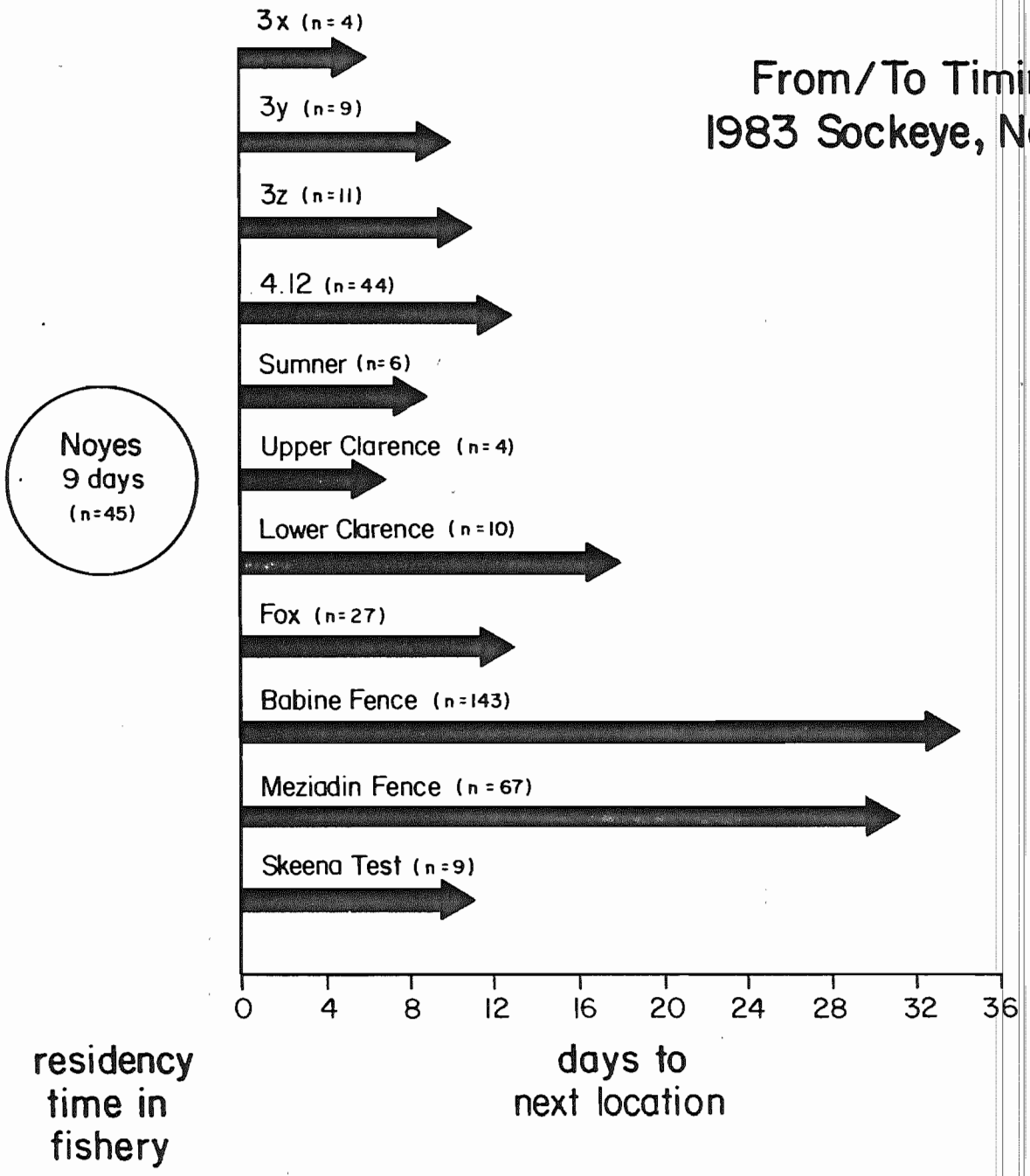

From/To Timing:
1983 Sockeye, Noyes
3x (n=4)
3y (n=9)
3z (n=11)
4.12 (n=44)
Sumner (n=6)
Upper Clarence (n=4)
Lower Clarence (n=10)
Fox (n=27)
Babine Fence (n=143)
Meziadin Fence (n=67)
Skeena Test (n=9)
Noyes
9 days
(n=45)
0 4 8 12 16 20 24 28 32 36
residency time in fishery
days to next location

Figure V.38

Detailed Run Timing

Figure V.39

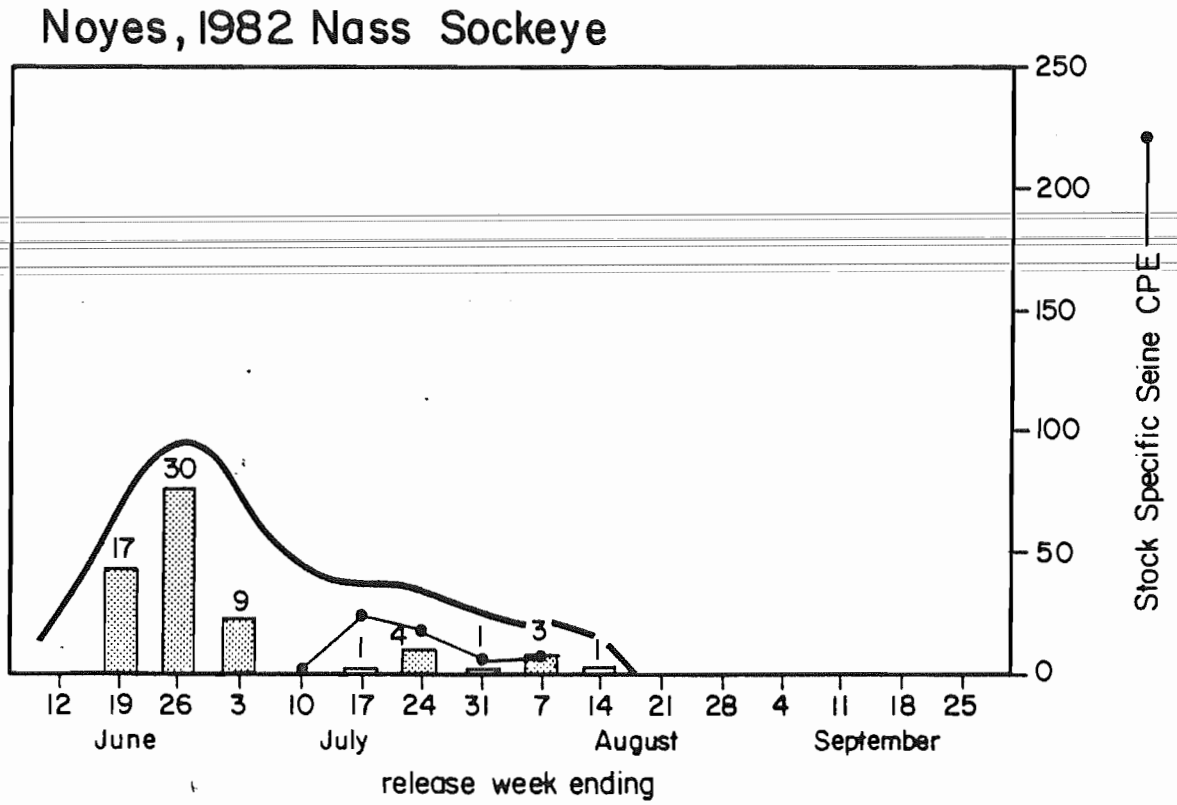


Figure V.40

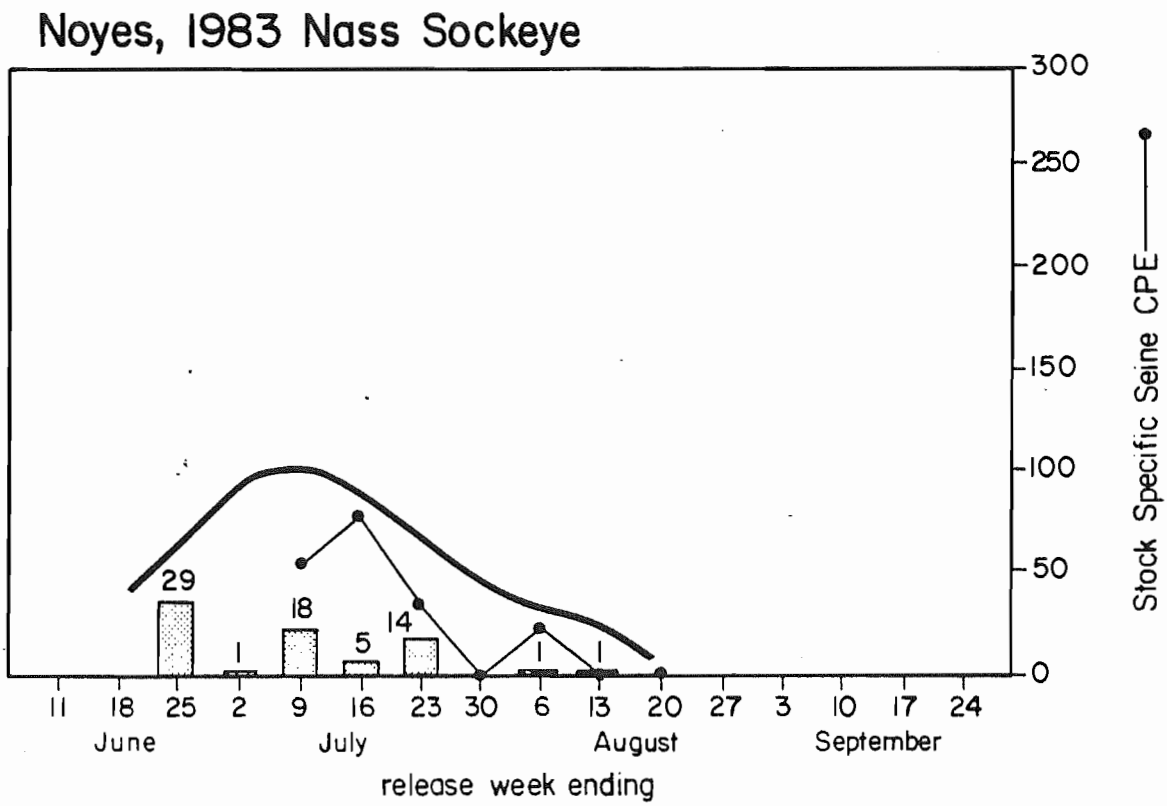


Figure V.41 **Stock Proportions: 1983 Sockeye, Muzon**

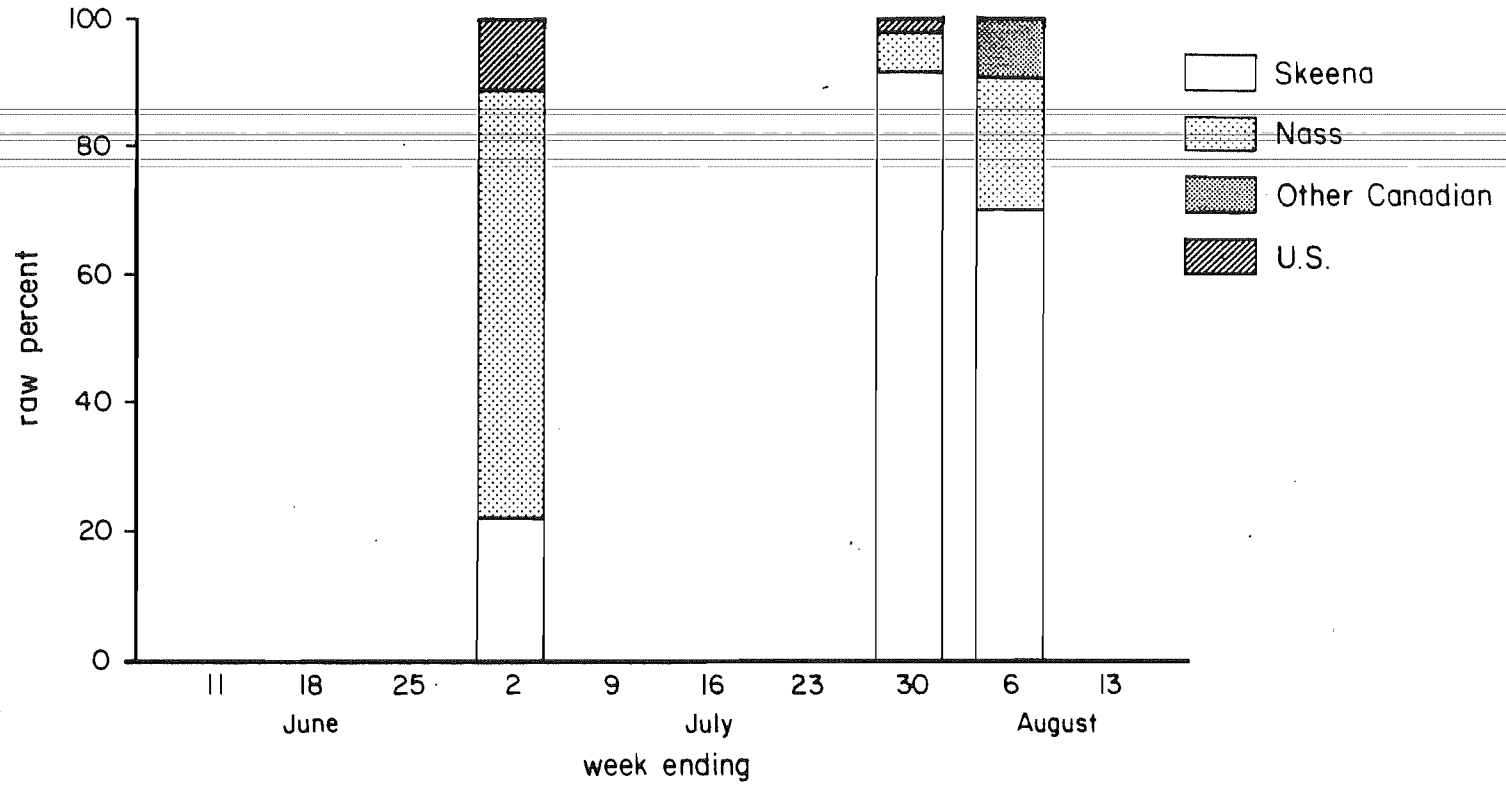


Table V. 17

Stock proportion and smoothed stock proportion for Muzon, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0	0	0.22	0	0	0	0.91	0.70	0
Nass	0	0	0	0.67	0	0	0	0.06	0.21	0
Oth Can.	0	0	0	0.0	0	0	0	0.0	0.09	0
U.S.	0	0	0	0.11	0	0	0	0.03	0.0	0
Smoothed stock proportion										
Skeena	0	0	0	0.22	0	0	0	0.91	0.70	0
Nass	0	0	0	0.66	0	0	0	0.06	0.20	0
Oth Can.	0	0	0	0.01	0	0	0	0.0	0.09	0
U.S.	0	0	0	0.11	0	0	0	0.03	0.01	0

From/To Timing : 1982 Sockeye, Muzon

Figure V.42

From/To Timing : 1983 Sockeye, Muzon

Figure V.43

Figure V.44

Detailed Run Timing

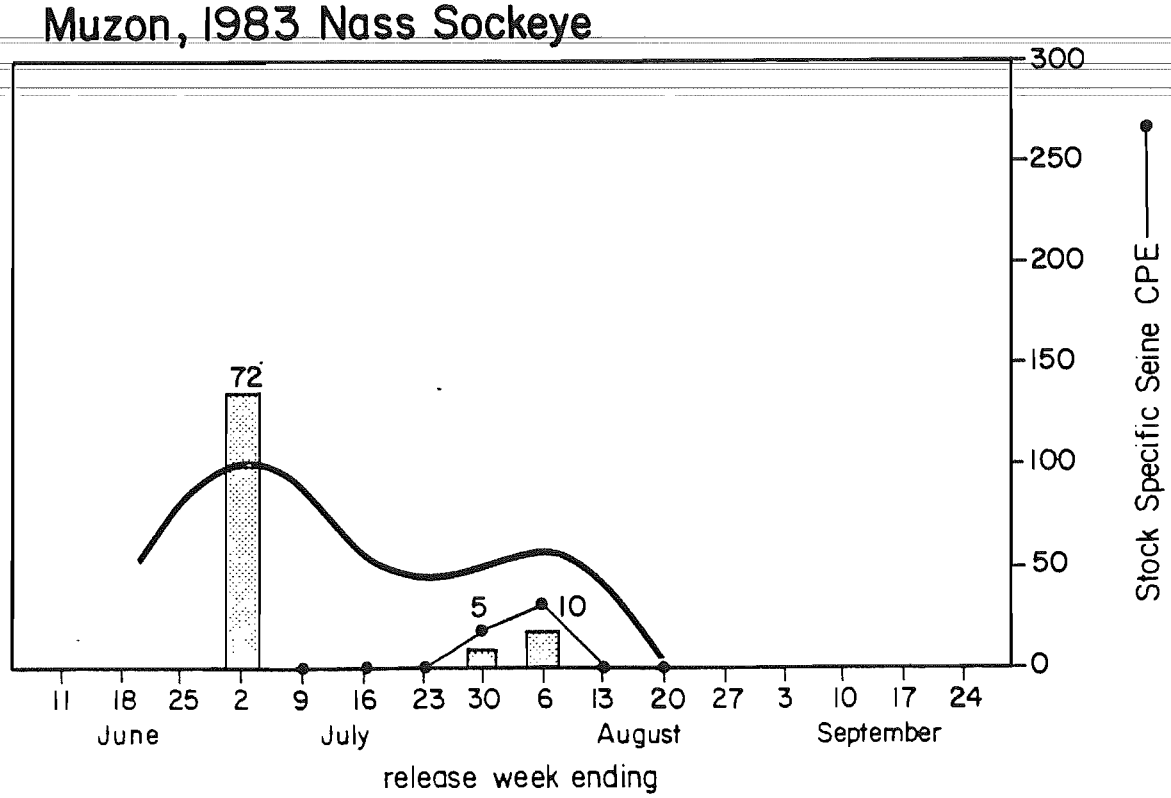


Figure V.45 **Stock Proportions: 1983 Sockeye, Sumner**

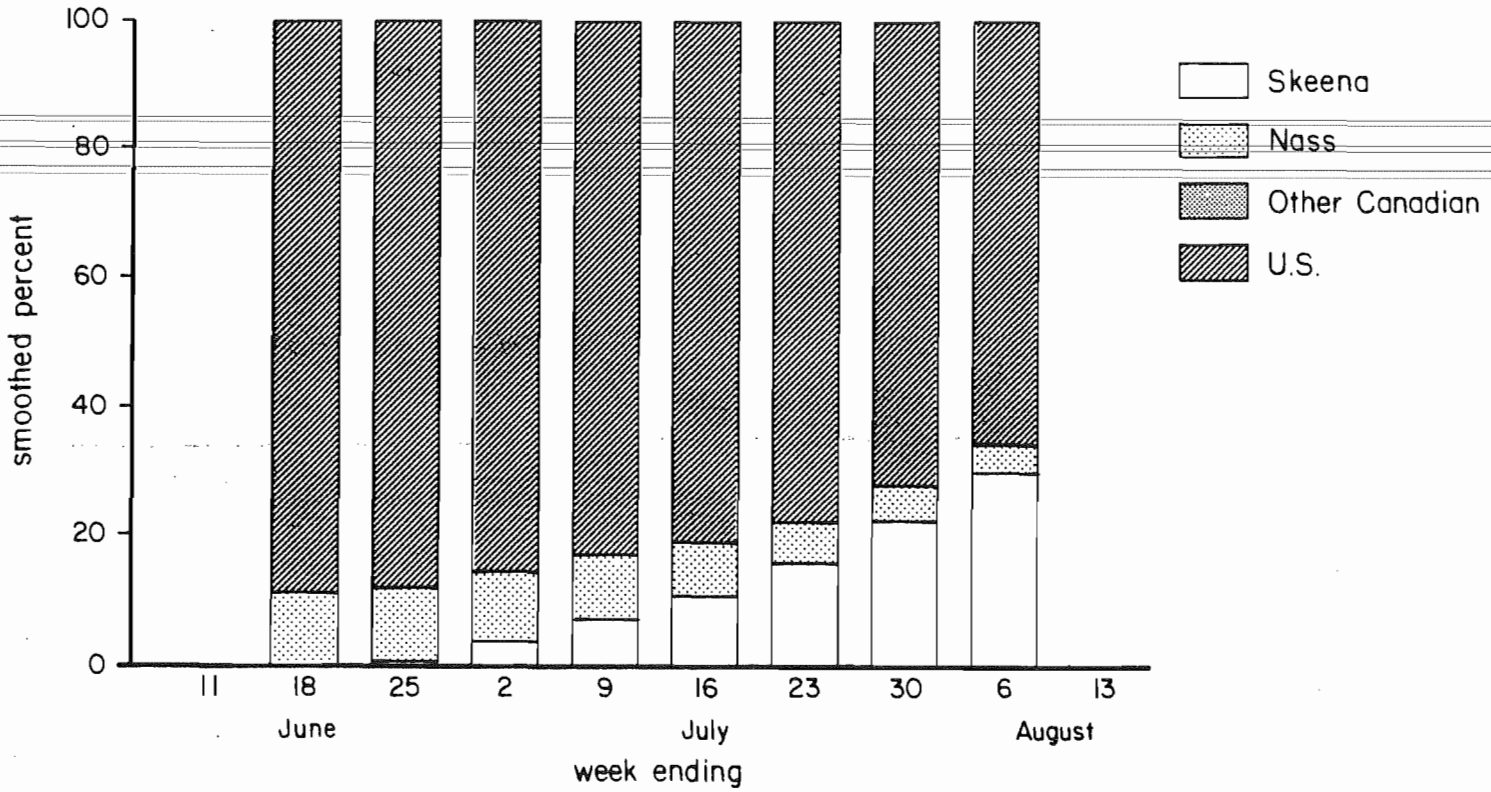


Table V. 18

Stock proportion and smoothed stock proportion for Sumner, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0.0	0.0	0.02	0.08	0.28	0.13	0.10	0.32	0
Nass	0	0.09	0.26	0.12	0.08	0.14	0.02	0.05	0.05	0
Oth Can.	0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.03	0
U.S.	0	0.91	0.74	0.82	0.84	0.58	0.85	0.85	0.60	0
Smoothed stock proportion										
Skeena	0	0.0	0.01	0.03	0.07	0.10	0.15	0.22	0.30	0
Nass	0	0.11	0.11	0.11	0.09	0.08	0.06	0.05	0.04	0
Oth Can.	0	0.0	0.0	0.01	0.01	0.01	0.01	0.01	0.01	0
U.S.	0	0.89	0.88	0.85	0.83	0.81	0.78	0.72	0.65	0

Figure V.46

Detailed Run Timing

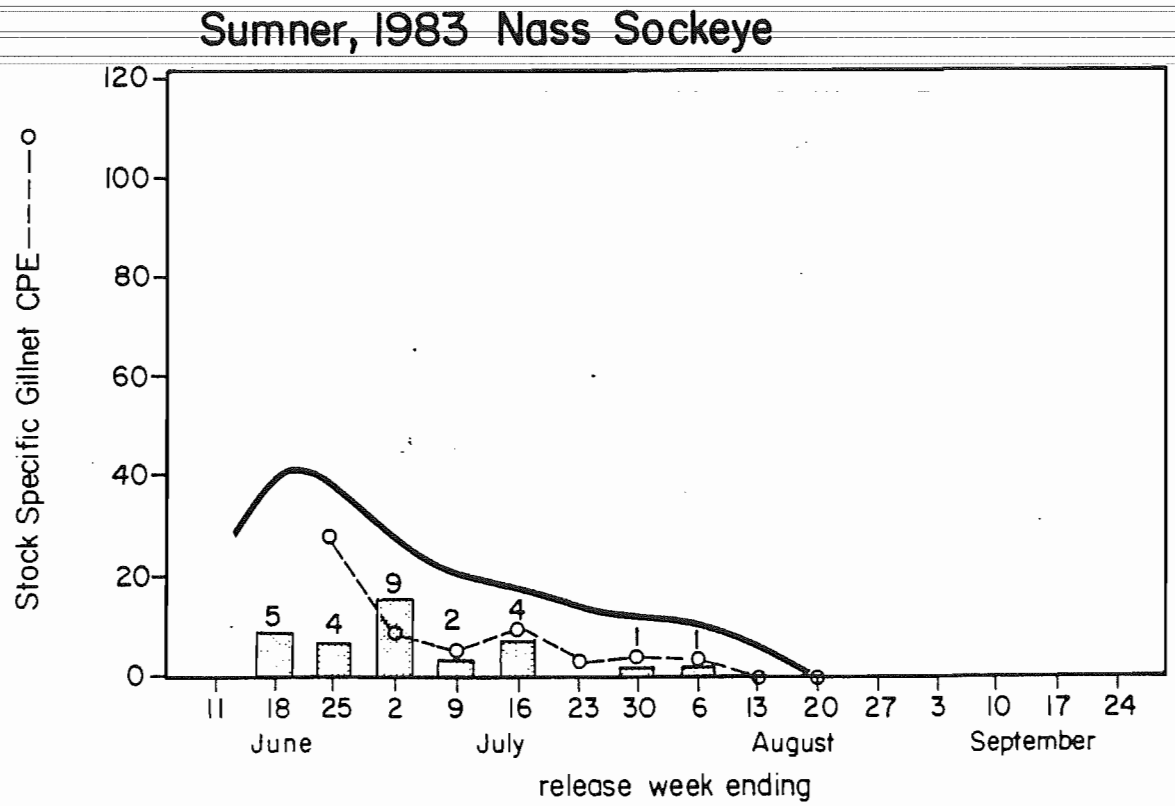


Figure V.47

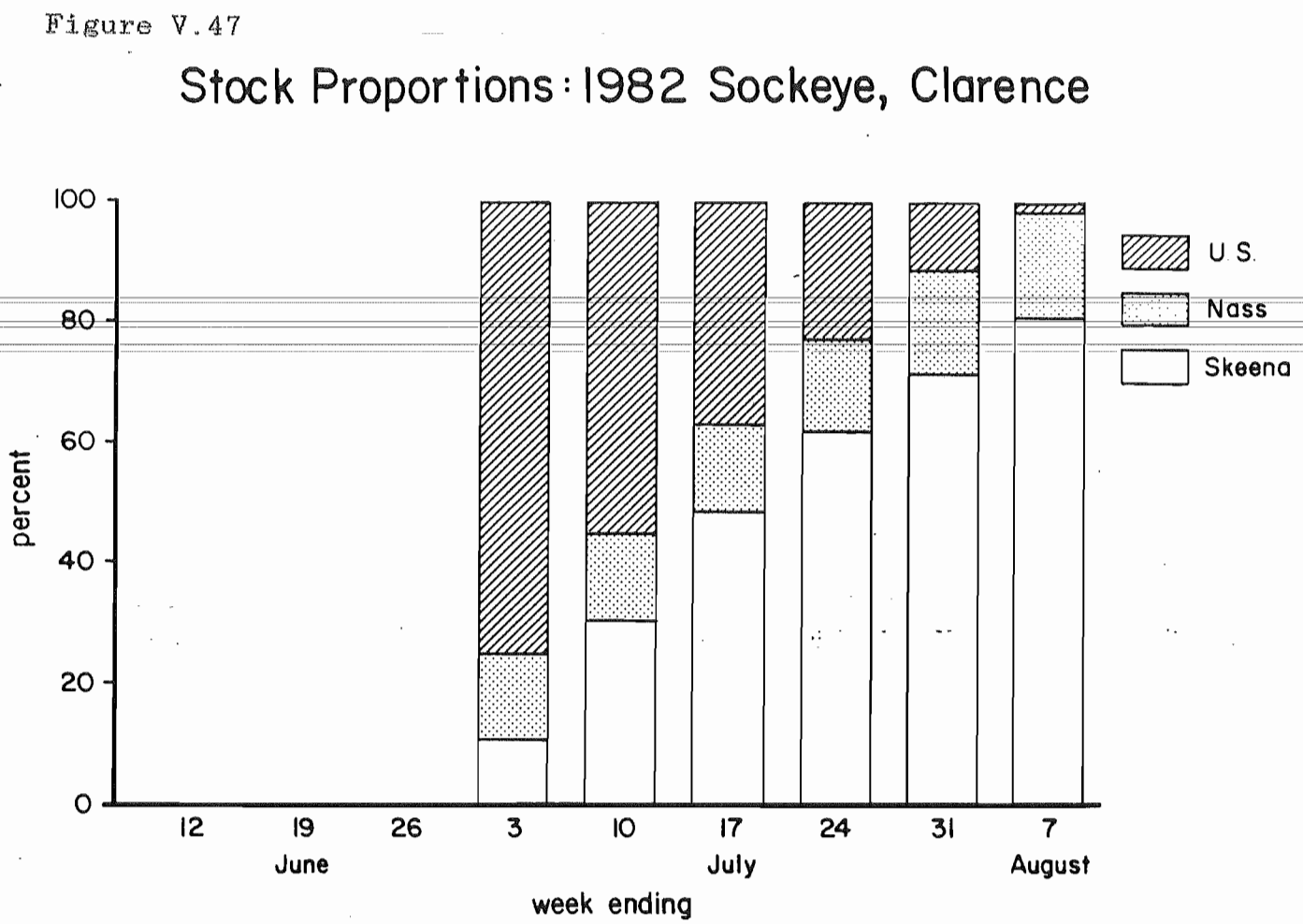


Table V. 19

Stock proportion and smoothed stock proportion for Clarence, 1982 sockeye.

	Week Ending								
	June			July					August
	12	19	26	3	10	17	24	31	07
Stock Proportion									
Skeena				0.03	0.36	0.48	0.68	0.80	0.61
Nass				0.18	0.15	0.08	0.15	0.20	0.18
U.S.				0.79	0.49	0.44	0.17	0.00	0.21
Smoothed Stock Proportion									
Skeena				0.12	0.31	0.49	0.62	0.71	0.80
Nass				0.14	0.14	0.14	0.15	0.17	0.18
U.S.				0.74	0.55	0.37	0.23	0.12	0.02

Figure V.48

Detailed Run Timing

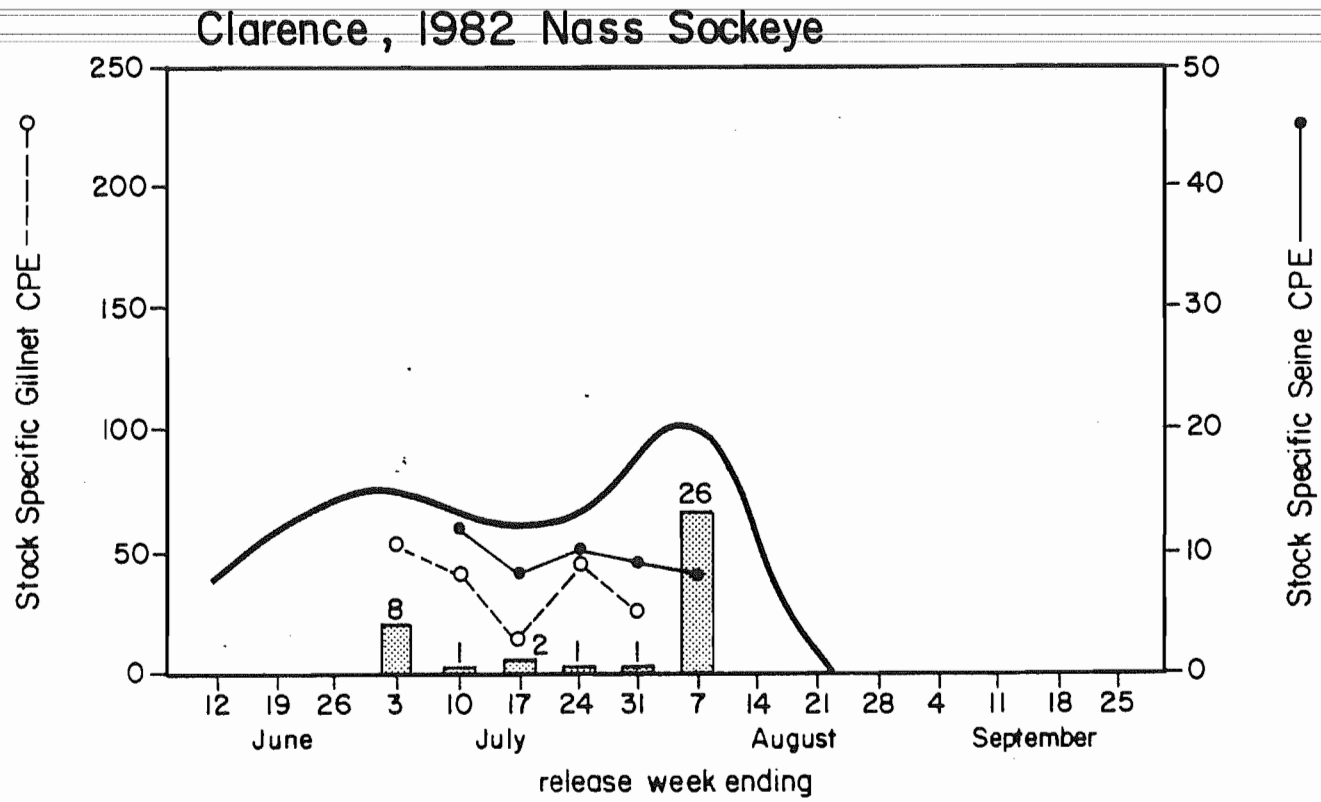


Figure V.49

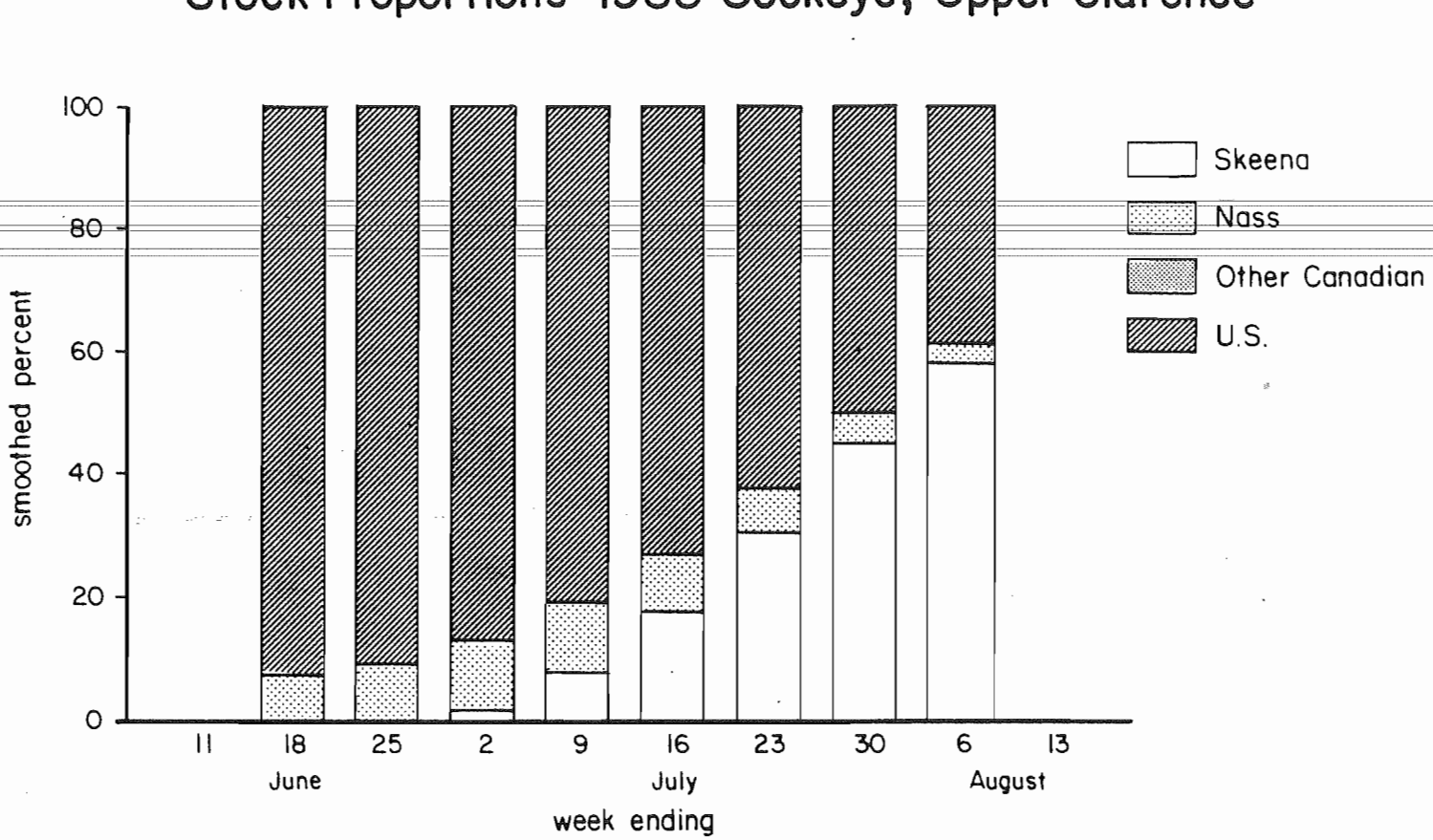


Table V. 20

Stock proportion and smoothed stock proportion for Upper Clarence, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0.0	0.0	0.0	0.07	0.25	0.18	0.50	0.54	0
Nass	0	0.0	0.11	0.29	0.09	0.22	0.05	0.03	0.05	0
Oth Can.	0	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0
U.S.	0	1.0	0.89	0.71	0.83	0.52	0.77	0.47	0.41	0
Smoothed stock proportion										
Skeena	0	0.0	0.0	0.02	0.08	0.17	0.31	0.45	0.58	0
Nass	0	0.07	0.09	0.11	0.11	0.09	0.06	0.05	0.03	0
Oth Can.	0	0.0	0.0	0.01	0.01	0.01	0.01	0.01	0.0	0
U.S.	0	0.93	0.91	0.87	0.80	0.73	0.62	0.50	0.39	0

From/To Timing: 1983 Sockeye, Upper Clarence

Figure V.50

Figure V.51

Detailed Run Timing

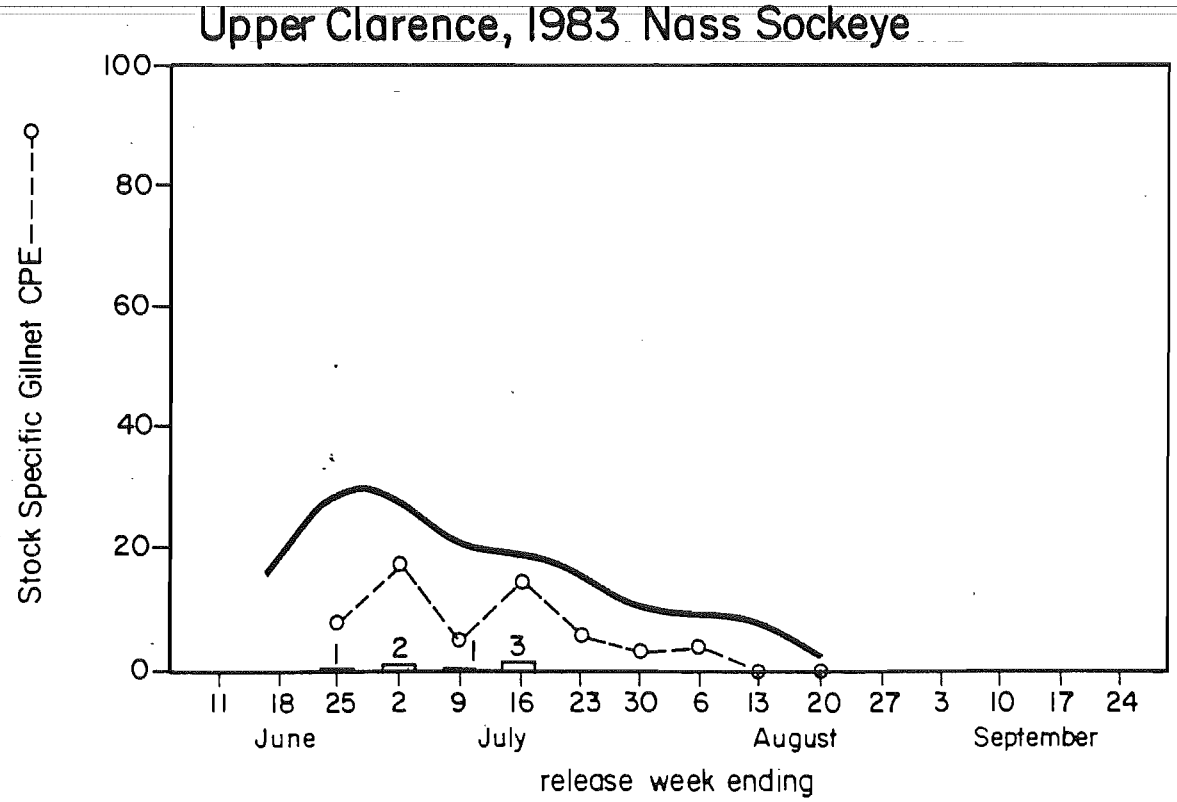


Figure V.52

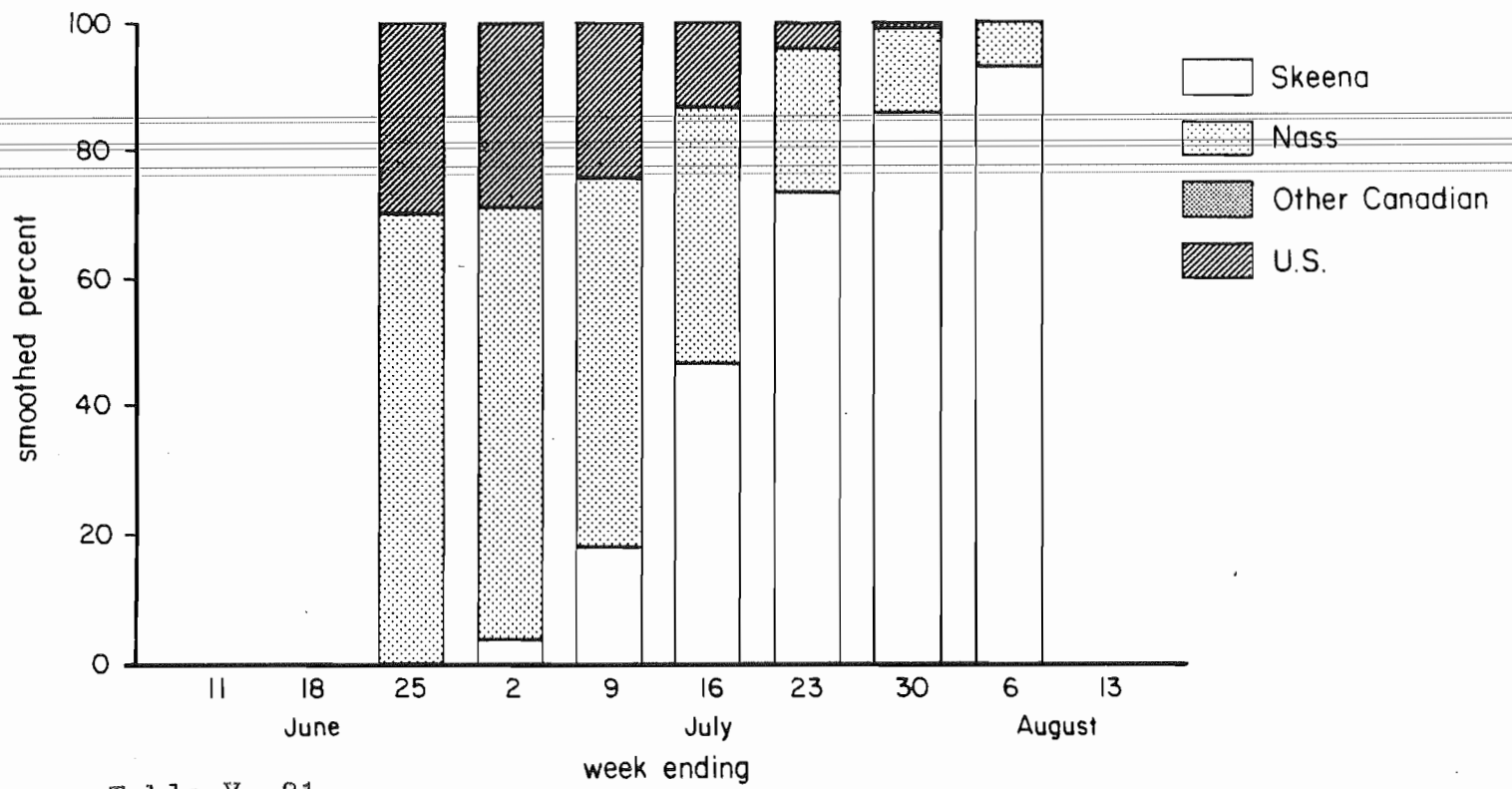


Table V. 21

Stock proportion and smoothed stock proportion for Lower Clarence, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0	0.0	0.0	0.24	0	0.69	0.91	0.90	0
Nass	0	0	0.85	0.56	0.47	0	0.28	0.09	0.07	0
Oth Can.	0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0
U.S.	0	0	0.15	0.44	0.29	0	0.03	0.0	0.03	0
Smoothed stock proportion										
Skeena	0	0	0.0	0.04	0.19	0.47	0.73	0.86	0.93	0
Nass	0	0	0.70	0.67	0.57	0.40	0.23	0.13	0.07	0
Oth Can.	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
U.S.	0	0	0.30	0.29	0.24	0.13	0.04	0.01	0.0	0

From/To Timing : 1983 Sockeye, Lower Clarence

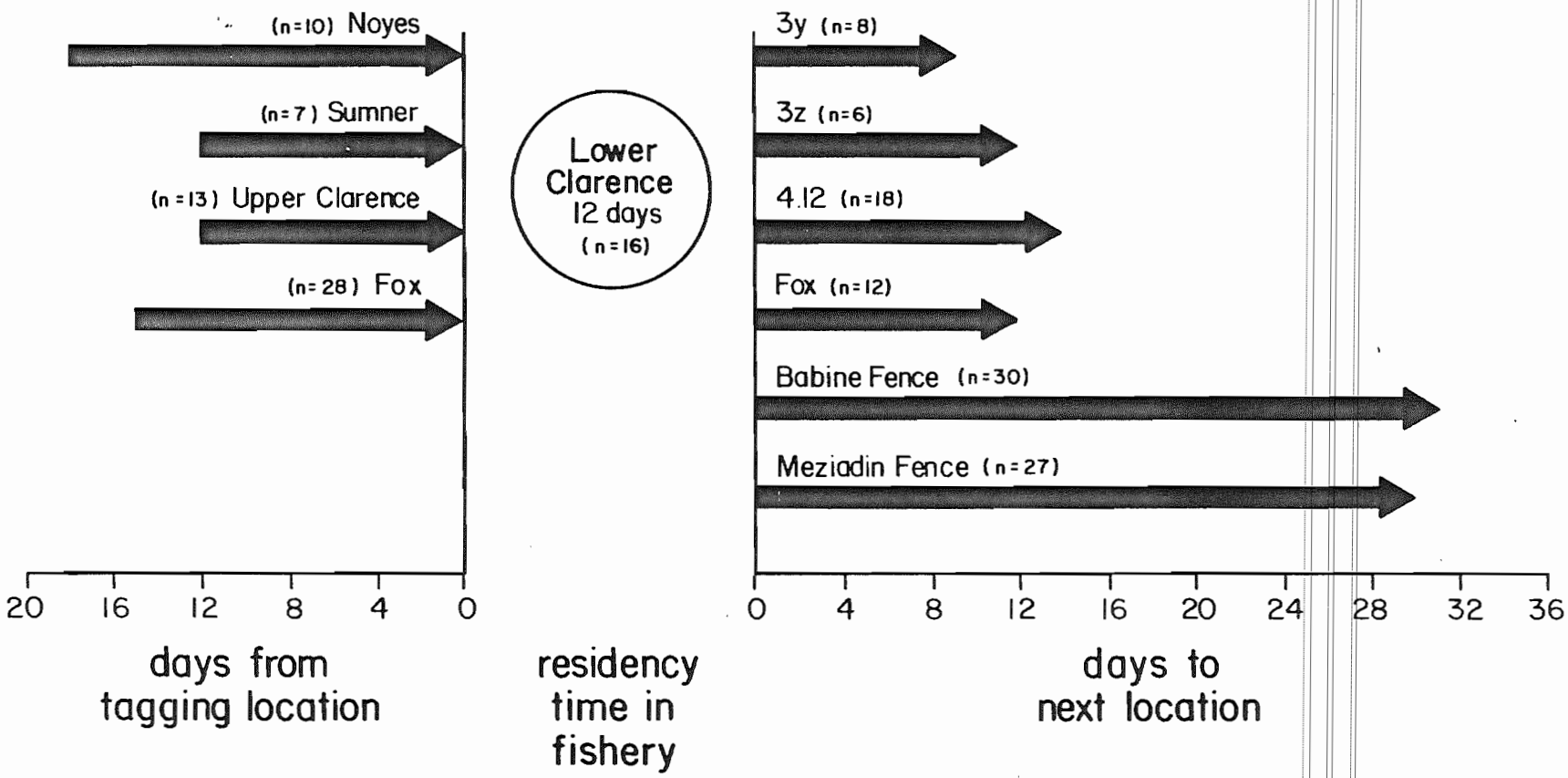
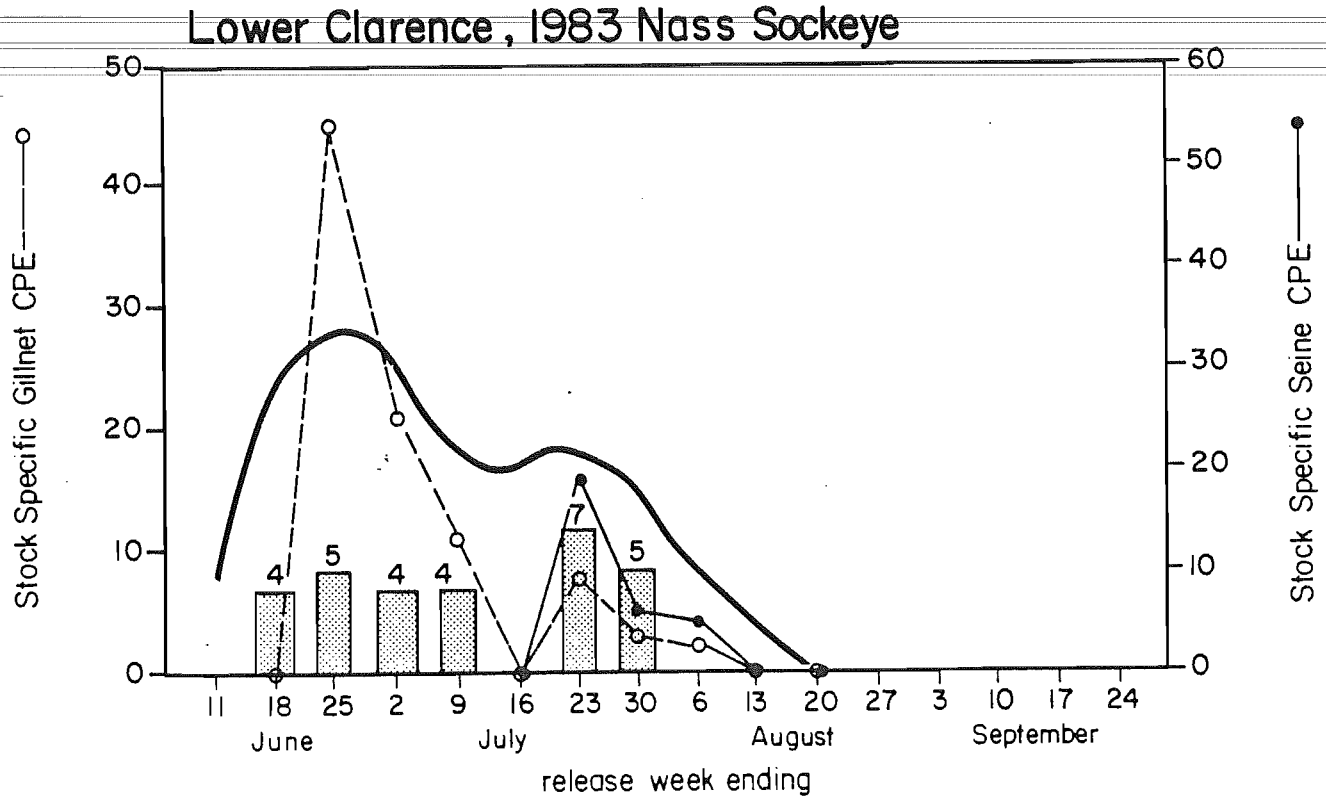


Figure V.53

Figure V.54

Detailed Run Timing



From/To Timing : 1982 Sockeye, Cordova

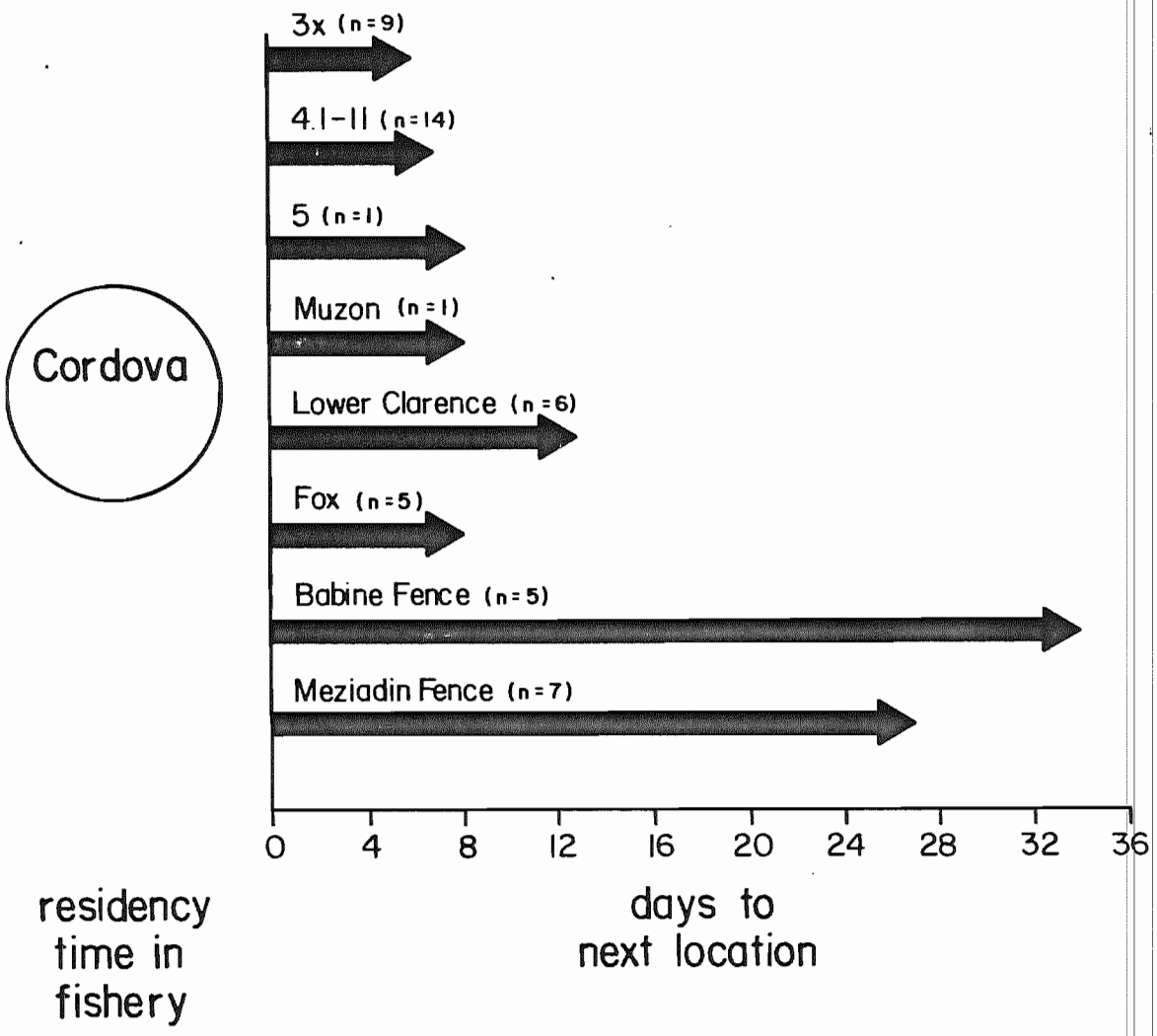


Figure V.55

Figure V.56

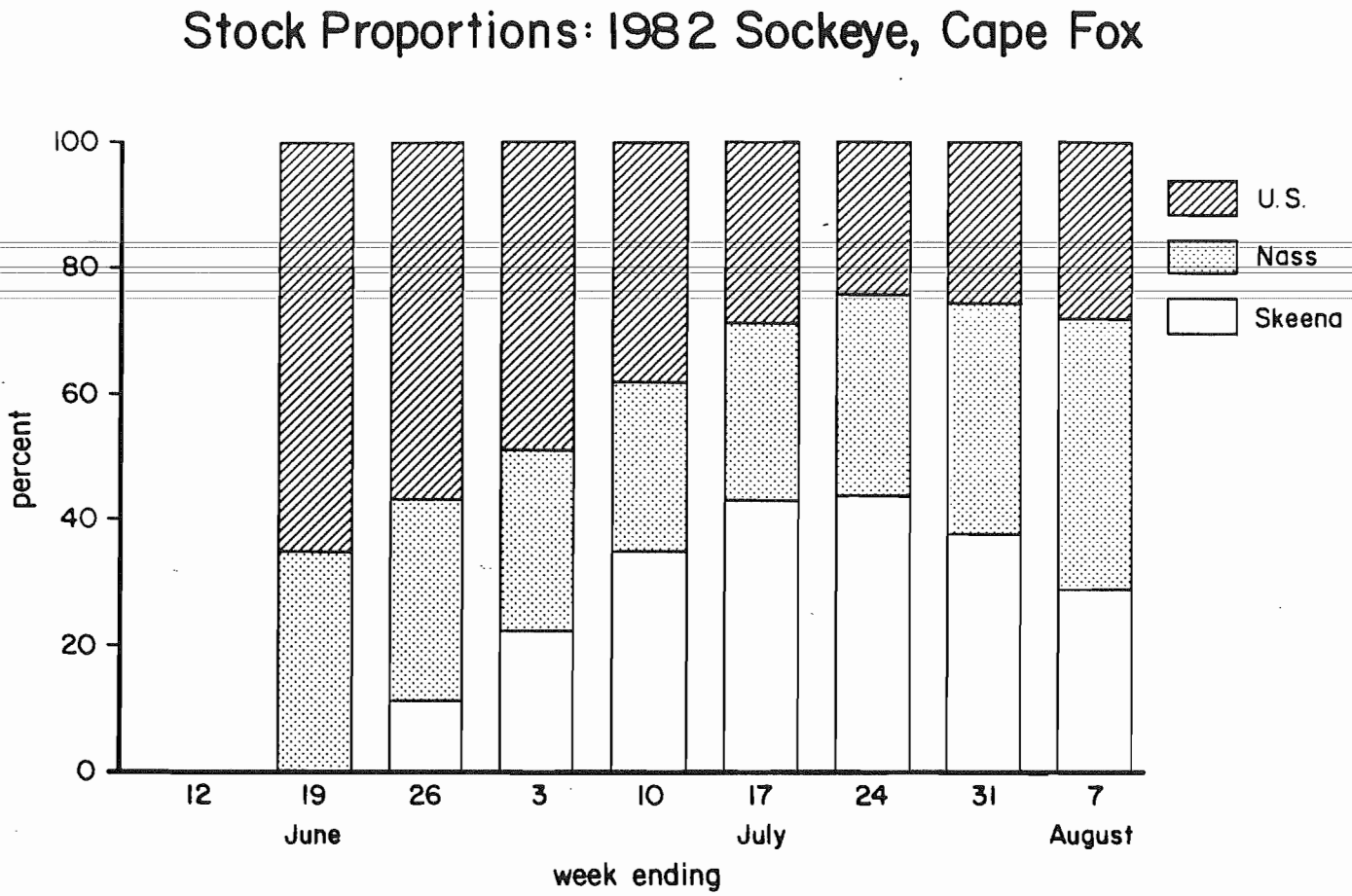


Table V. 22

Stock proportion and smoothed stock proportion for Cape Fox, 1982 sockeye.

	Week Ending								
	June			July					August
	12	19	26	3	10	17	24	31	07
Stock Proportion									
Skeena	0.06	0.08	0.06	0.44	0.67	0.45	0.37		0.17
Nass	0.81	0.12	0.46	0.09	0.23	0.42	0.24		0.46
U.S.	0.13	0.80	0.48	0.47	0.10	0.13	0.39		0.37
Smoothed Stock Proportion									
Skeena	0.01	0.12	0.23	0.35	0.43	0.44	0.38		0.30
Nass	0.35	0.31	0.28	0.27	0.28	0.31	0.36		0.42
U.S.	0.64	0.57	0.49	0.38	0.29	0.25	0.26		0.28

Figure V.57

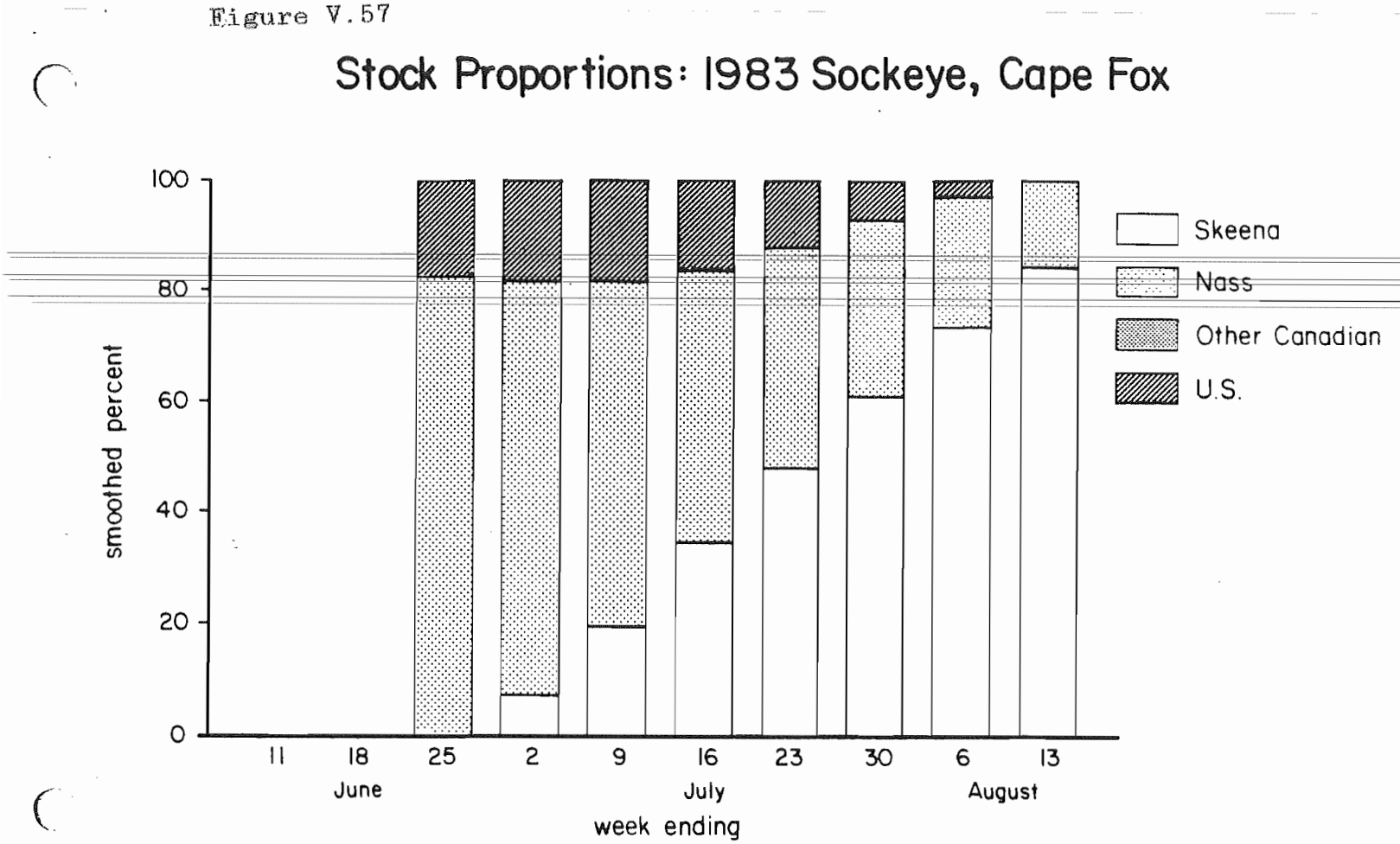


Table V. 23

Stock proportion and smoothed stock proportion for Cape Fox, 1983 sockeye.

	Week Ending									
	June			July					August	
	11	18	25	2	9	16	23	30	6	13
Stock proportion										
Skeena	0	0	0.0	0.02	0.04	0.42	0.52	0.49	0.80	0.73
Nass	0	0	0.86	0.75	0.60	0.46	0.43	0.26	0.18	0.16
Oth Can.	0	0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.11
U.S.	0	0	0.14	0.23	0.36	0.11	0.05	0.25	0.02	0.0
Smoothed stock proportion										
Skeena	0	0	0.0	0.08	0.20	0.35	0.48	0.61	0.73	0.84
Nass	0	0	0.82	0.74	0.62	0.49	0.40	0.32	0.24	0.16
Oth Can.	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S.	0	0	0.18	0.18	0.18	0.16	0.12	0.07	0.03	0.0

From/To Timing : 1982 Sockeye, Cape Fox

Figure V.58

From/To Timing : 1983 Sockeye, Cape Fox

Figure V.59

Detailed Run Timing

Figure V.60

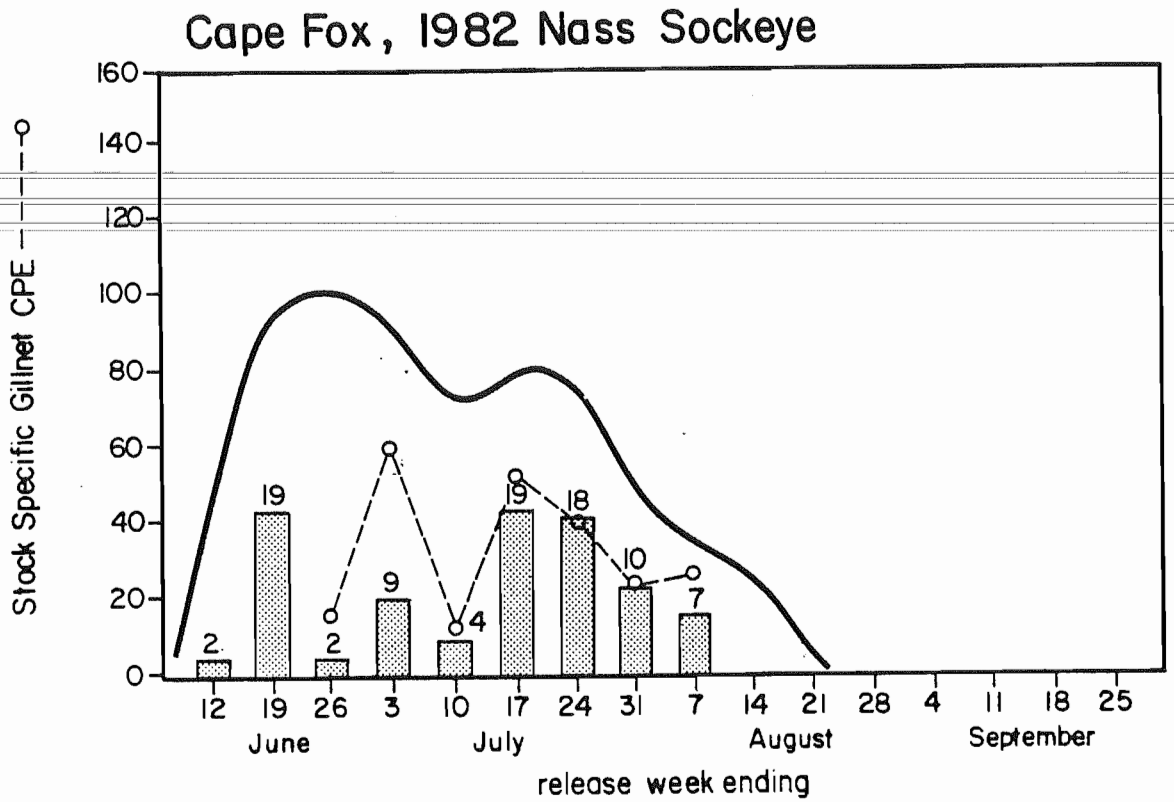


Figure V.61

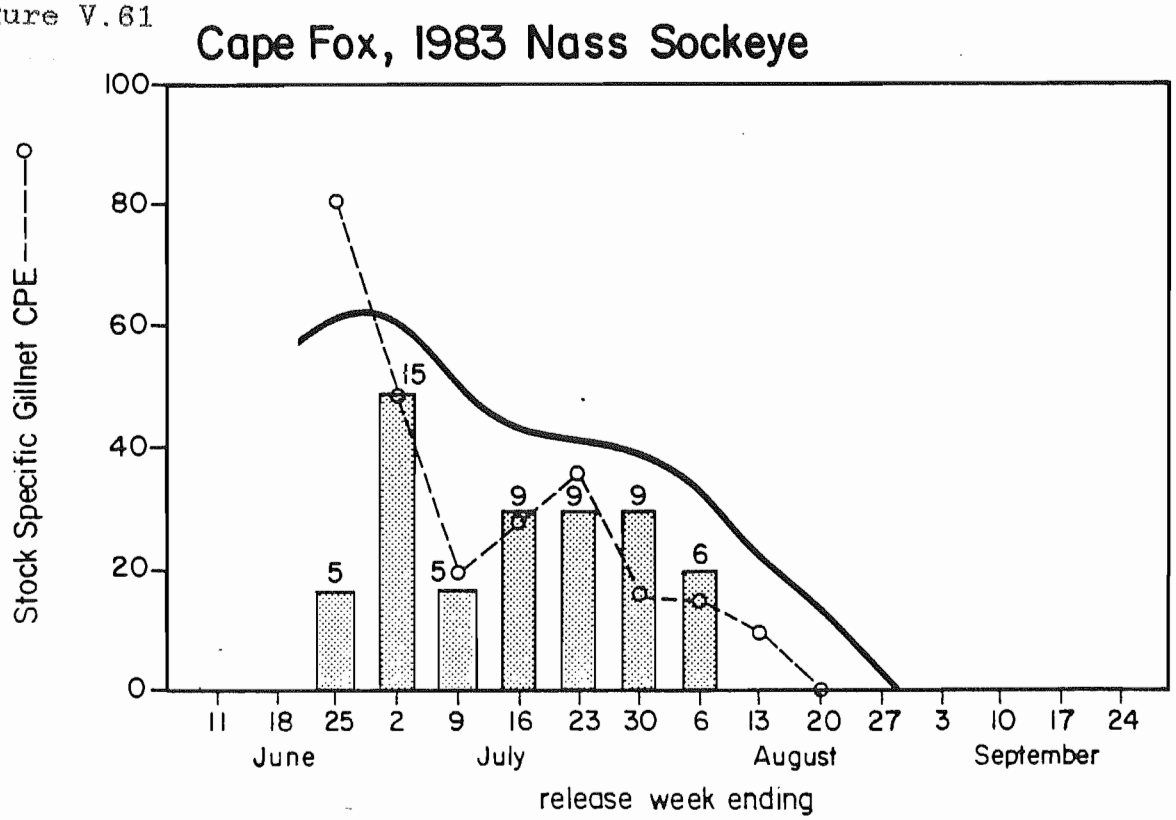


Table V. 24 NASS RIVER FISHWHEEL TAGGING 1957

TAGGING DATE	# OF TAGS APPLIED	RECOVERY LOCATIONS					
		MEZIADIN	HANNA	TINTINA	DANDOCHAX	KWINA	GINGIT
JUNE 19	3						
20	16	1					
21	10	2	1				
22	19	1					
23	19	5					
24	14	3					
25	58	12	2		1		
26	12						
27	86	22					
28	190	42	9				
29	280	69	5				
30	78	13	4				
JULY 1	136	28	1	1			
2	130	21	3				
3	133	21	6				
4	172	24	2			1	
5	138	23	6				
6	127	23	2			1	
7	161	19	2		1		1
8	93	17			1		
9	117	18					
10	132	14	5		1		
11	85	9	2				
12	70	5	1				
13	103	8	1		1		
14	110	13	1				
15	98	12	1				
16	86	8				1	
17	96	4					
18	66	1	1				
19	25						
20	13						
21	23					1	
22	22						
23	30	2					
24	24					1	
25	36						
26	40						
27	38	1					
28	14						
29	11						
30	2						
31	14	1					
AUG 1	21	1					
2	18						
3	12						
4	10						
5	12						
6	5						

Table V. 24 cont'd. NASS RIVER FISHWHEEL TAGGING 1957

TAGGING DATE	# OF TAGS APPLIED	RECOVERY LOCATIONS					
		MEZIADIN	HANNA	TINTINA	DAMDOCHAX	KWINA	GINGIT
AUG 7	9	1					
8	4						
9	10						
10	5						
11	8						
12	8						
13	16						
14	6						
15	6						
16	6						
17	8						
18	12						
19	11						
20	9						
21	0						
22	0						
23	2						
24	7						
25	6						
26	1						
27	1						
28	0						
29	0						
30	0						
31	0						
SEPT 1	0						
2	0						
3	0						
4	0						
5	0						
6	3						
7	1						
8	0						
9	0						
10	2						
11	2						

Table V. 25 NASS RIVER FISHWHEEL TAGGING 1959

TAGGING DATE	# OF TAGS APPLIED	MEZIADIN	HANNA	TINTINA	KWINAGEESE
JUNE 22	1				
23	3				
24	0				
25	0				
26	0				
27	0				
28	0				
29	1				
30	0				
JULY 1	1				
2	2				
3	5	1			
4	11		1		
5	9		1		
6	27		1	3	
7	57	5			
8	60	6			1
9	41	5		2	
10	19	1	1	1	
11	22	1			1
12	9				
13	16	3			
14	15	1			
15	11				
16	24	5	2		
17	46	2		2	3
18	53	7		1	
19	21	3		1	1
20	11				2
21	14	4			1
22	17	2			2
23	14	2		1	1
24	12	1		1	1
25	27	4	1		1
26	39	4	1	1	4
27	35	2			2
28	46	3	3		2
29	42	2			4
30	37	4			2
31	31	2	1		4
AUG 1	28				3
2	27	2			2
3	41	5	1		2
4	44	4			1
5	20	1			
6	30	3			
7	29				
8	12				
9	6	1			

Table V. 25 cont'd.

NASS RIVER FISHWHEEL TAGGING 1959

TAGGING DATE	# OF TAGS APPLIED	MEZIADIN	HANNA	TINTINA	KWINAGEESE
AUG 10	3				
11	6				
12	6				
13	9				
14	10				
15	17				
16	9				