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# YUKON FOUNDATION STUDIES

# SUMMARY REPORT, 1965.

by

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and

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Anchorage, Alaska

September 1965

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Frontispiece. Aerial view of the downstream migrant study area on the Yukon River, looking upstream.

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## INTRODUCTION

During the spring and summer of 1965 the Branch of River Basin Studies continued a study begun in 1964 to determine the timing of the outmigration of juvenile salmon in the Yukon River. The study area was about 12 miles downstream from Beaver, in the Yukon Flats (frontispiece) and figure 1. Project supervisors were Charles D. Evans, Fish and Wildlife Administrator, Donald B. Thurston, Fishery Research Biologist, and Dale R. Evans, Fish and Wildlife Biologist. Fishery Aids were John Gissberg (University of Washington), Douglas S. Benning (University of Maine), and Larry K. Evans (University of Utah). Camp was set up April 23 on the Hodzana River and personnel were in the field until August 28 as follows:

| | |
|---|---|
| Charles D. Evans | April 28 - May 24 |
| Donald B. Thurston | May 20 - June 7 |
| John G. Gissberg | April 28 - August 28 |
| Larry K. Evans | April 28 - July 10 |
| Douglas S. Benning | June 7 - August 28 |
| Dale R. Evans | stationed out of Fairbanks |

The 1964 study[1/] suggested that most outmigrant salmon had already left the area when sampling was begun on July 1. Initial sampling in 1965 on the Yukon began early in May, almost a month prior to breakup which started May 22 in the study area. On May 6, the campsite was relocated to an unoccupied trapper's cabin near the mouth of Hodzana Slough on the Yukon River. This cabin eliminated 4 miles of a 5-mile hike to open leads at the Whirlpool Cut Bank (figure 1).

1/ Gissberg, John G. and Gerald W. Sword
1964. Summary Report of Yukon Foundation Studies 1964. USFWS BS64-1 (typed).

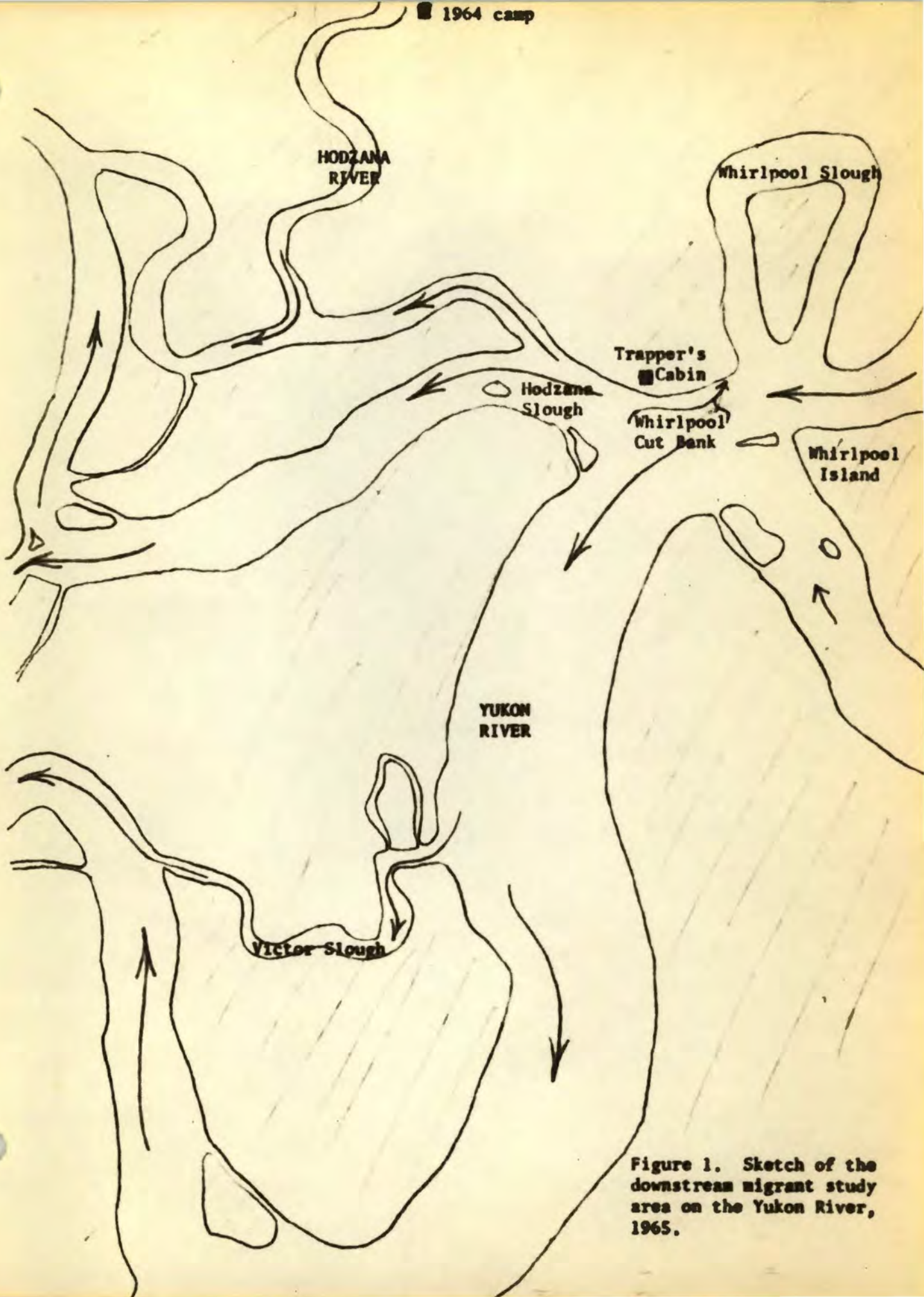



Figure 1. Sketch of the downstream migrant study area on the Yukon River, 1965.

## OBJECTIVES

The specific objective of the downstream migrant project was to determine the timing of the outmigration of young salmon in the Yukon River past the study area.

## METHODS AND MATERIALS

### Migration Indicator

Presence or absence of young salmon in the river was used as a migration indicator. If fish are migrating they should be available to fishing gear and would then be present in catches. Passage of the migration would be shown by a decline in catches.

### Species Present

At least fourteen species of fish are found in the Yukon study area. They are:

1. Lamprey - *Lampetra* sp.
2. Sculpin - *Cottus* sp.
3. Lake chub - *Hybopsis plumbea*
4. Northern pike - *Esox lucius*
5. Burbot - *Lota lota*
6. Trout-perch - *Percopsis omiscomaycus*
7. Longnose sucker - *Catostomus catostomus*
8. Arctic grayling - *Thymallus arcticus*
9. Inconnu - *Stenodus leucichthys*
10. Least cisco - *Coregonus sardinella*
11. Humpback whitefish - *Coregonus pidschian*
12. Round whitefish - *Prosopium cylindraceum*
13. Chum salmon - *Oncorhynchus keta*
14. Chinook salmon - *Oncorhynchus tshawytscha*

## Measurement, Identification, and Collection of Salmon

All salmon were measured to the nearest one millimeter (tip of snout to fork of tail) on a small 30 mm measuring board. The fish were measured fresh, i.e. immediately after cessation of movement when placed in formalin preservative or quinaldine anesthetic. The same individual did all measuring.

If the captured fish were not crushed or mutilated it was very easy to separate the chum and chinook salmon from other species, even whitefishes. Our early intra-species separation of the small (30-50 mm) salmon was based on parr marks. If the parr marks were bisected by the lateral line the specimen was classified as a chinook. Absence of parr marks or lack of bisection keyed the fish as a chum (from a mimeographed paper by Foerster and Pritchard[1/]). Definite bisection was often difficult to determine accurately. Therefore, the final identifying criterion was a comparison pointed out by Burgner[2/] which is a black stippled adipose on chinook and a clear adipose on chum.

Salmon were either preserved in 10 percent formalin and placed in labeled collection bottles or placed in live boxes. Preserved fishes were later transferred to 33 1/3 percent isopropl alcohol solution. Complete collection data are given in appendix I.

## Fishing Gear

Five types of gear were fished during the season. Gear descriptions and fishing techniques follow.

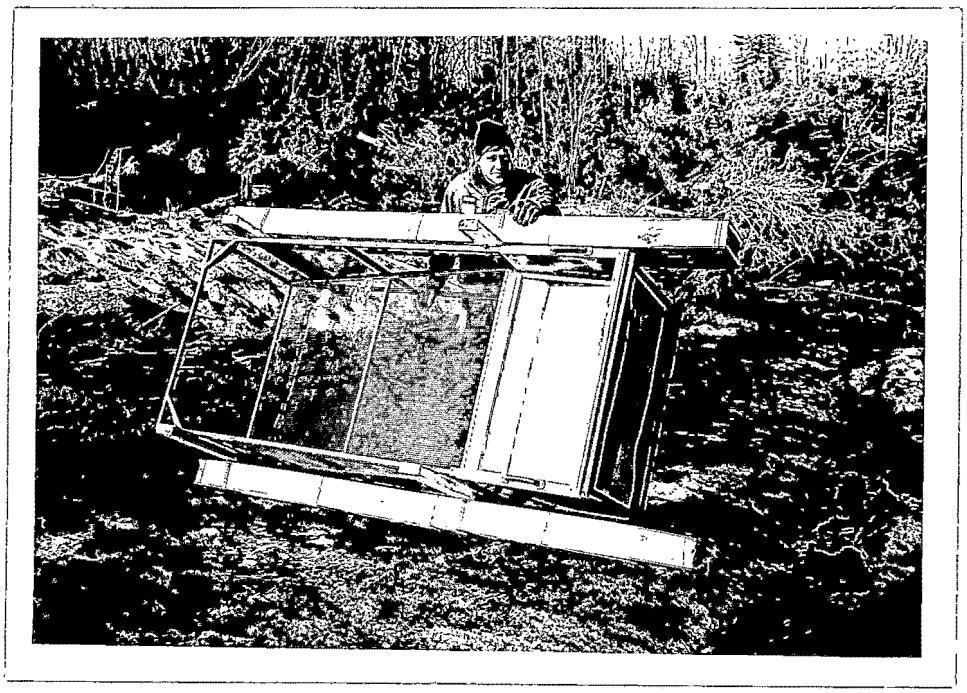
### Modified Inclined Plane Smolt Traps

Large smolt traps have been modified by the Corps of Engineers and the Washington State Department of Fisheries (in the Kray-Meekin trap).

1/ Foerster and Pritchard
1934. A key for the identification of young salmon. Mimeo.

2/ Burgner, R. L.
No Date. Key for identification of salmon fry in fresh water prior to time of scale formation. Mimeo.

Blueprint designs from those organizations were followed in construction of the six traps used for the Yukon River program. The Kray-Meekin smolt trap is referred to in this report as "trap" and is shown in figures 2 and 3. Our trap frames were welded in Anchorage to 2' x 3' x 7' dimensions.



FWS photo by C. Evans

Figure 2. Inclined plane smolt trap being assembled near the banks of the Whirlpool Cut Bank.

Catching boxes and baffle plates were made from 75 ST aircraft aluminum which was pre-formed in Anchorage and riveted together at the study area. A simple hand riveter available at most hardware stores was used. Parts were interchangeable between traps. Metal hardware cloth replaced normal netting material. Trap operation depends on several conditions as discussed in following paragraphs.

Fish enter the mouth of the traps and continue up the incline plane on a flow of water and are spilled onto the baffle screen where they can

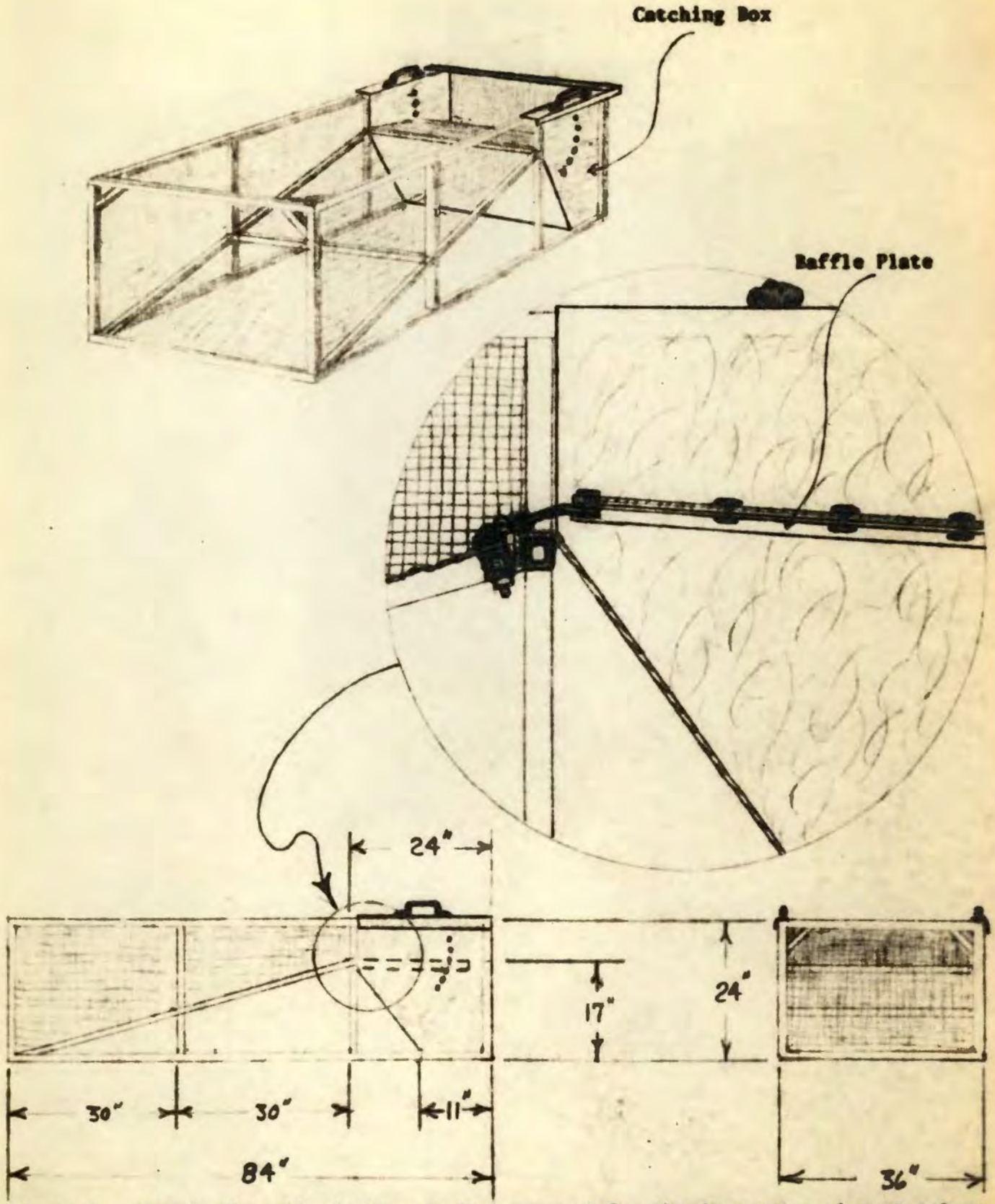
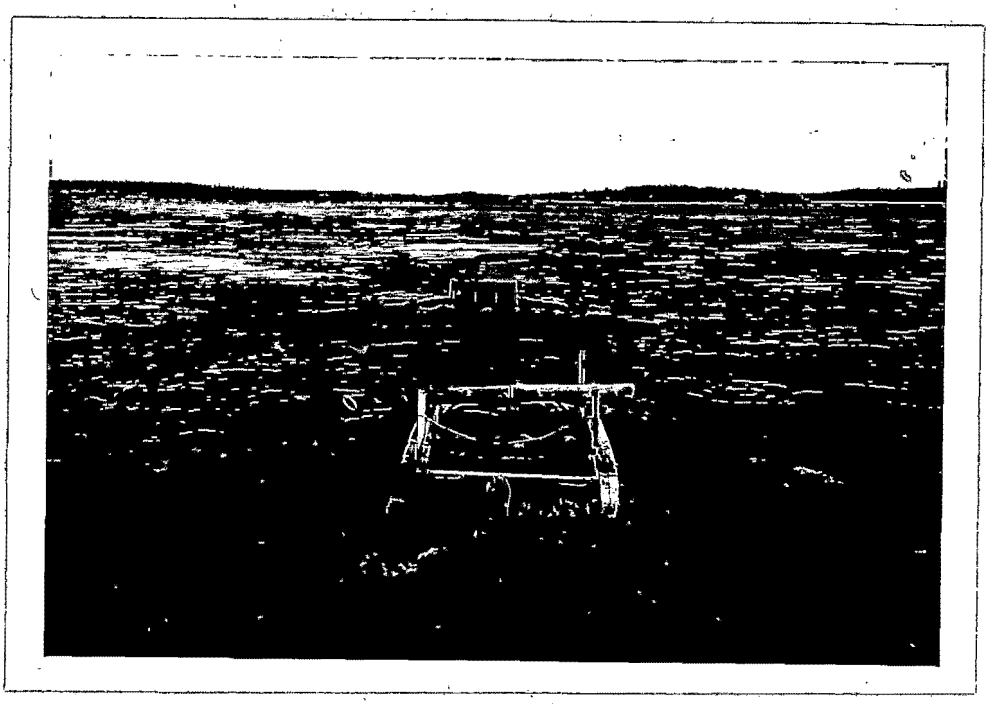



Figure 3. Sketch of inclined plane smolt trap used for the downstream migrant salmon study on the Yukon River, 1965. Blow up is of baffle attachment to the trap frame.

wiggle and flop into the catching box. The angle of the baffle screen (figure 3) needs critical adjustment for each fishing situation to achieve a dry area on the face of the screen which prevents fish from escaping. Often the actual dry area was not achieved. Nevertheless, water dropping rapidly into the catching box prevented even the largest salmon from escaping. As is noted later ("Trap Performance", page 23), retention of fish in the catching box was good. Chum were caught in water as slow as 1.7 feet per second even though water flow through the entire trap was smooth and undisturbed. No retention studies were made on small chum in slow water.

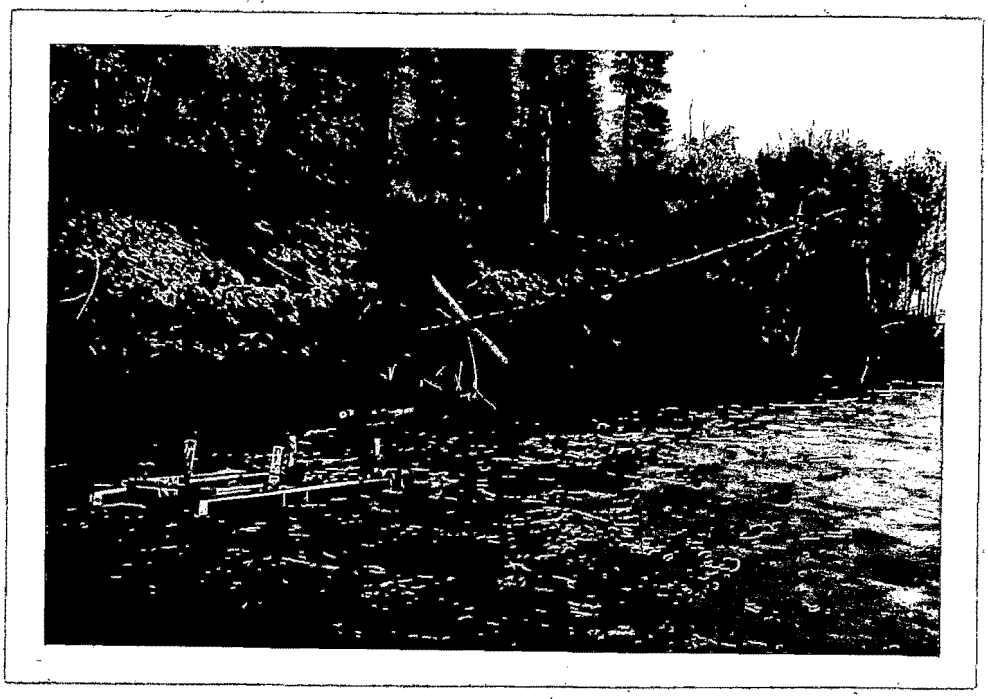
Water level in the trap itself was controlled by adjusting the position of styrofoam floats. A single float consisted of two 2" x 8" x 96" planks of styrofoam sandwiched between 1/4" exterior grade plywood. The floats were held to wood 2 by 4's on the trap frame by plumber's strapping. During the summer, the method of float attachment to the 2 by 4's underwent a steady evolution toward more rapid adjustment. The strapping was originally fastened with screws, then bolts with wing nuts, and finally 5" spikes which were drilled near their point with a cotter pin to hold them in place. A further aid was a "Rube Goldberg" technique which placed watersoaked logs on the trap frame settling it in the water to a desired depth, thus eliminating immediate float rearranging (figure 4).

Bridle attachment to the trap further regulated its fishing attitude. For example, a bridle tied to the lower frame structure served to hold the trap high in the current. This method reduced the tendency of the trap to dive, and was used almost exclusively when fishing was from snags and velocities were greater than 3 feet per second. When the traps were fished from booms, the bridle was fixed to the upper frame (figure 5). A greater variety



FWS photo by J. Gissberg

Figure 4. Yukon trap #12 was temporarily adjusted to a proper fishing level by the weight of a watersoaked log.



FWS photo by C. Evans

Figure 5. Yukon trap #1 was fished from a boom along the Whirlpool Cut Bank.

of fishing locations was possible when empty 55-gallon gas barrels were anchored in the river with a 40-lb. Danforth anchor. These anchors held fast in all our attempts to use them. In at least three instances drifting trees ripped into the barrels and in one case the trap was torn loose, but always the anchor and barrel held fast.

Ice, root hairs, leaves, and other debris reduced the effectiveness of traps. While fishing through open leads before breakup the trap was attached to a boom and could be pulled to shore by a safety line when ice flows endangered it. As more ice melted and breakup time approached, a very careful watch was required.

Water was clean in the spring and the hardware cloth did not collect much debris. Traps were generally checked from the boat after breakup. When the water level increased, root hairs and other debris would clog the hardware cloth so rapidly that cleaning was often required at least every 10 minutes to prevent overflow and subsequent sinking of the trap. Figure 6 shows trap #11 after 1 hour of fishing on July 13.

As the water level passed its peak, debris diminished and cleaning was needed less frequently. Checks and cleanings were required only every 2 hours by August 15. Traps fished in fast water needed closer attention than those in slower current.

A sample check from the boat was conducted in the following manner:

1. Boat tied to rear of trap,
2. Inclined plane scrubbed with deck brush,
3. Baffle plate lifted,
4. Catching box removed and cleaned, fish enumerated,
5. Catching box replaced, baffle plate dropped, and fishing resumed.

FWS photo by J. Gissberg

Figure 6. Root hairs and other debris clogged trap #11 and it began to sink after 1 hour of fishing on July 13.

Cleaning the inclined plane as a first step in the check allowed the trap to rise in the water. Then the baffle plate could be lifted easily. When a fishing period was completed the traps were lifted into the boat, untied from the snag or barrel, and taken to shore.

Catch data for traps are organized with respect to the site fished and sites are numbered chronologically as they were fished. Appendix A shows the position of trap sites. Complete catch data are given in appendix B.

Fyke Nets

Fyke nets were fished from booms, snags, and barrels. Some were bridled to a single attachment point but if possible a line from each side of the net was clipped to a different place to prevent twisting. Fyke net #6 fished from a lone snag below camp and is shown in figure 7. Fyke nets were generally

FWS photo by J. Gissberg

Figure 7. Fyke-net #5 was fished from a lone snag below camp.

fished at the surface but they also seemed to fish well when tied to an anchor resting on the river bottom.

Four fyke nets were available. Each fyke net was composed of a series of three metal frames as shown in figure 8. The mouth frame was 24" x 36" and succeeding frames were squares of 23" and 18" respectively. Mesh size of the body netting was 1/4" bar measure and the cod end was 1/8" x 3/16". Three nets with body mesh of 1/2" and cod end of 1/4" were on hand as spares. One such spare was used after an original net was torn by debris. Wings were not used on any of the fyke net sets. Appendix C shows locations of all fishing sites used and appendix D gives catch results.

The cod end was closed with a simple overhand knot using clothes line cord. We could leave fyke nets in the river for any length of time. However, during high water levels they clogged quickly and when not cleaned frequently

their effectiveness was no doubt reduced. Kerns[1/] found fyke nets needed frequent cleaning to be effective. Fyke nets were difficult to clean and most cleanings were after 1 hour fishing periods. More frequent checks would have left little time for actual fishing.

One-Meter (Diameter) Tow Net

Tow nets can be fished without considering permanent attachment points. Our net had a body of 1/4" (bar measure) netting and tapered to a cod end 9 feet further back which was 3 feet long and composed 1/8" mesh. The catch was checked via a zippered opening into the cod end. A spare net was on hand but was not needed. Figure 9 is a sketch of the net we used and figure 10 shows the crew fishing in the Yukon River.

All fishing was from a 23-foot river boat usually powered by a 40-hp Evinrude with an aluminum work prop. The net was fixed to eye-bolts on each side of the craft's stern by two 100-foot lines. A crab pot balloon float was clipped to the net's frame to prevent twisting in the lines. A sample tow was conducted as follows:

1. The boat headed slowly upstream as the net was payed from the boat,
2. When the bridle lines became taut, we began towing under full power,
3. The tow was terminated after 5 or 10 minutes,
4. The net was retrieved with only a single line (by releasing pressure on the other line, the net frame was pulled in sideways and fish in the cod end could not escape).

Towing areas were designated by code numbers as shown in appendix E and appendix F gives complete catch data.

1/ Kerns, Orra E.
1961. Abundance and age of Kvichak River red salmon smolts. FWS Fishery Bulletin #89, Vol. 61.

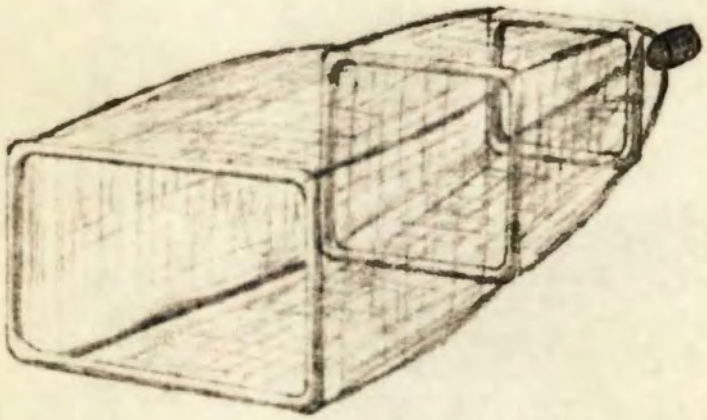


Figure 8. Sketch of fyke net used for the Yukon study, 1965.

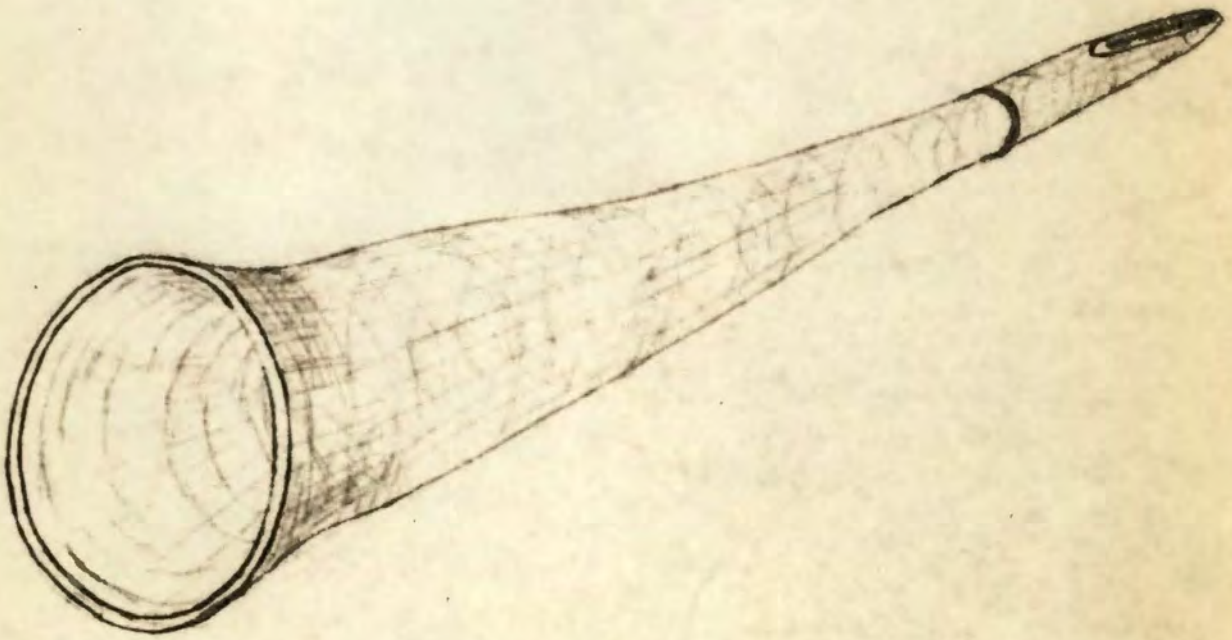


Figure 9. Sketch of the 1-meter tow net used for the Yukon outmigrant salmon study, 1965.

FWS photo by C. Evans

Figure 10. Fishing with the 1-meter tow net on the Yukon River, 1965.

Seine

One beach seine was used regularly. It was 130 feet long, 4 feet deep, and had mesh of 1/4" bar measure. Four beach sites were selected as indicated in appendix E. A 250-foot or 500-foot seine haul was made at least once a week beginning in mid-July. Length of the beach varied with water level. Seining procedure was as follows:

1. The net was piled on shore,
2. A man in waders carried net into the current and downstream,
3. A man on shore walked 250 or 500 feet downstream,
4. The man in waders came ashore near the 250-foot or 500-foot mark to close the seine.

Appendix G gives catch data.

Minnow Traps

Small, wire minnow traps (1/4" mesh bar measure) were fished throughout the summer. We had at least one baited trap fishing from our boat dock at all times.

Live Boxes

During July and August we kept some young salmon in live boxes. The boxes were made with 1/8" hardware cloth or 1/8" mesh netting material. They were placed near the bank at camp. Our purpose was to double check our identification of salmon and to examine any growth of the young fish.

Water Data

Velocity

Water velocity is an important factor in river fishing. Faster currents carry greater volumes of water into the gear and more fish should be caught than in slower water areas. Conversely, if the water velocity is slow, entrapped fish may be able to escape from the gear.

Water velocity at trap and fyke-net sites were measured by determining the average time required for three small sticks to drift from the boat to a balloon float 100 feet away. A stop watch gave time to the nearest second. Determinations of water velocity were made when sites were first fished and were rechecked whenever altering water levels indicated velocity changes. Velocity recorded during tow-net efforts was the effective flow of water past the net, i.e. river velocity plus forward movement of the boat. The time in seconds for several sticks to reach the balloon was used during the tow.

Water Level

The water level was recorded each day at noon. Level zero was the approximate river height on April 27. All readings were adjusted to this level. Calibrated stakes were driven in the bank at camp and read to the nearest inch.

### Water Temperature

Water temperature was taken with a one degree F. pocket thermometer. The reading was made just below the surface at noon.

### Turbidity

Water turbidity was recorded infrequently during the season. We used a U.S. Geological Survey platinum wire turbidity rod and also a black and white 6" diameter Secchi disc.

Complete water data are presented in appendix H.

## Weather Data

### Temperature

Air temperature was read from a Taylor maximum-minimum thermometer. The maximum and minimum readings were made each morning (between 0800 and 1000). The maximum, therefore, would have been the high temperature of the previous day and the minimum would have been the low temperature for the previous evening or present early morning. The air temperature was also recorded and the thermometer was then re-set.

### Incident Light

Incident light intensity was recorded in foot candles each day with a General Electric type PR3 exposure meter. The glass face of the photo-electric cell was aimed directly at the sky for the reading.

### Cloud cover

The cloud cover each day at noon was recorded in percentage symbols.

Complete weather data are given in appendix H.

## RESULTS

### Fishing in Ice Conditions

The Yukon River was largely frozen over in early May. Fishing with fyke nets and traps was possible in open leads along the bank at this time. Breakup was a gradual process consisting mainly of ice slabs breaking off the solid ice areas. When pieces of ice were breaking free, a careful watch of the gear was required. Traps fished from booms could be pulled to shore by a safety line if ice threatened them. From May 6 to May 20 trap #1 was fished in leads at Whirlpool Cut Bank. Ice flows then increased and we depended on the tow net until June 8. The tow net was especially useful on May 21, 22, and 24 while thick ice flows were moving past the study area. The net could be maneuvered to dodge ice chunks and a 5 or 10 minute effort could be achieved most of the time. After May 24, ice flows thinned out and the last large piece of ice was seen in the river on May 26. Figure 11 was taken about 1600 hours on May 22 just after breakup had begun.

### Fishing Effort and Effectiveness

Fishing effectiveness depends on several factors. One of the most important is the volume of water strained which depends on fishing area of the gear and water velocity. Also, disturbance of the water flow in front of gear might reduce its fishing effectiveness.

Traps, fyke nets, and tow nets can be compared with respect to these conditions. The traps usually intercepted about 3' x 1 1/2' = 4 1/2 square feet of water because they did not fish totally submerged (see figures 4 and 5). Fyke nets generally strained 3' x 2' = 6 square feet of water. The one-meter diameter tow net fished 8 1/2 square feet of water and in fishing area

FWS photo by C. Evans

Figure 11. Breakup on the Yukon River near Whirlpool Cut Bank on May 22, 1965.

it was most efficient. When towing, the boat traveled upstream. It was then more effective than stationary gear. However, during some tows we could make no headway and the end point of the tow was downstream from the starting point.

With regard to turbulence the tow net was always behind the boat and in or near the influence of the propwash. Traps and fyke nets fished from booms did not affect water flow but if fished from snags or single barrels there was some disturbance. This effect was reduced by using long (about 50 feet) attachment lines. Conditions of fishing for each type of gear are given in the original site descriptions as presented in appended material.

Only rarely were two or more kinds of gear fished simultaneously. We wanted to be certain that the effectiveness of our efforts was not reduced

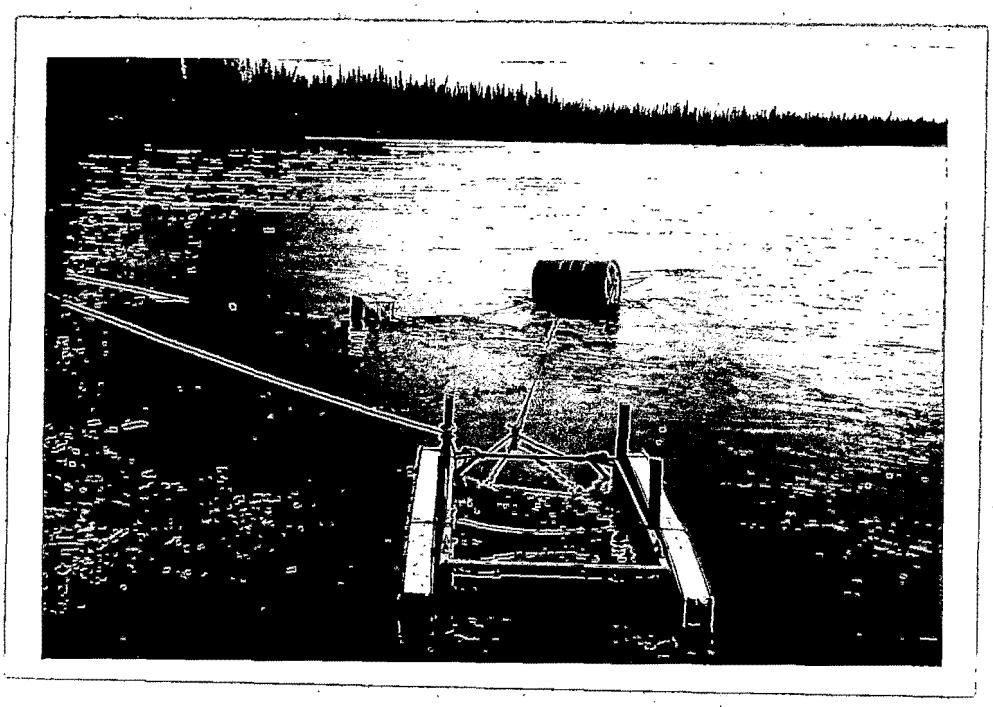
by trying to handle too many fishing situations. For example, installing a trap was at first very time consuming. As we handled them more it was possible to locate good fishing sites and set them up within a few hours. From May 20 until June 5 our tow-net efforts were regularly successful. After June 5 we concentrated on fishing traps because we had not yet caught any salmon in them. From the start they fished well and, once installed, they could be fished at a specific location for periods of several hours, whereas the tow net was constantly moving within a more general area. Therefore, fishing after this date was mainly with traps. During the week of June 11-19 our gas supply was running low and we maintained fyke-net #5 close to camp where it could be checked economically.

When two types of gear were fished simultaneously they generally gave similar results. Examples are given:

1. Fyke net vs trap

   Fyke-net #6 and trap #5 were fished from a snag in slow water (velocity = 1.7 feet per second) for 23 hours on June 13 and 14. Sticks dropped near the fyke net demonstrated that the trap was not straining water that had passed through the fyke net. The fyke net was held near the surface in this slow current by an empty 5-gallon can. Figure 12 shows the fishing setup.

   In 23 hours of fishing the fyke net caught three chum and the trap captured two. In all other instances where fyke nets and traps fished the same area, neither was shown to be more successful in fishing than the other, e.g., fyke-net #7 and trap #9; fyke-net #5 and trap #8.



FWS photo by J. Gissberg

Figure 12. Fyke-net #6 and trap #5 fished slow water (velocity = 1.7 feet per second) on June 13 and 14.

2. Trap vs tow net

On June 11, we towed in code area #5 (see appendix E) near trap site #4. Tow-net velocity was 7.4 feet per second and water velocity at the trap site was 4 feet per second. Four chum were caught in a 30-minute tow or eight per hour. In 6 hours the trap caught 18 chum or 18/6 = 3 per hour. Realizing the trap strained less water than the tow net the catches are not as discrepant as they appear.

3. Fyke net vs tow net

Fyke-net #3 fished Victor Slough (see appendix C) for 1 hour on June 4 and caught five chum salmon. During this time we also made two 5-minute tows, catching two chum. By extrapolation, an hour of towing would have produced (60/10 X 2) = 12 chum, or over twice the

fyke-net catch. This may reflect the larger fishing area of the tow net and its faster fishing speed (7.8 feet per second vs. 4 feet per second for the fyke net).

Fishing effectiveness is not the only factor in determining which kind of gear should be used, but overall ease of handling deserves consideration. Under "Gear Performance", page 23, some other factors are listed.

Even within a single type of gear, fishing effort is not constant. Yukon trap #5 fished where water velocities were only 1.7 feet per second while Yukon trap #7 fished in currents flowing at 6 feet per second. Yukon fyke-net #2 was attached to a boom and fished 40 feet from shore whereas Yukon fyke-net #9 was tied to a barrel in the middle of Hodzana Slough near camp about 300 feet from either shore. Traps fished from booms generally intercepted more water than snag-fished traps because the latter fished higher in the water.

24-Hour Fishing Period

Throughout the season, night catches did not vary significantly from day catches. Normally, our fishing effort was between 0900 to 2400 hours. Round-the-clock checks approximately every 2 weeks failed to show a nocturnal-diurnal variation in catches.

As an example, a 24-hour check from 0930 June 7 to 0945 June 8 at fyke-net site #5 produced 145 fish. No evidence of diurnal or nocturnal peaking was evident. The catch during this period for 4-hour intervals is given in table 1. Available light ranged from 11,200 foot candles at 1200 June 7 to 9 foot candles at 0050 June 8.

Catch Data

Chum

We fished traps and fyke nets in open ice leads from May 6-20 but no chum were caught. Tows from May 25 to June 8 were generally successful in

Table 1. Catch of chum salmon in fyke-net #5 from 0930 June 7 to 0945 June 8 by 4-hour periods, 1965.

| Fishing Period (to nearest hour) | Number of Chums | Incident Light | |
|---|---|---|---|
| | | Time | Foot Candles |
| 0900-1300 | 24 | | |
| 1300-1700 | 27 | 1200 | 11,200 foot candles |
| 1700-2100 | 21 | | |
| 2100-0100 | 25 | | |
| 0100-0500 | 20 | 0050 | 9 foot candles |
| 0500-0900 | 28 | | |
| | 145 | | |

catching chum. Catches ranged from 0 to 6 chum and did not appear to reflect any obvious fluctuations in abundance levels.

The first trap (#2) used since May 20 caught 9 chum in 10 minutes and 100 chum in 2 hours on June 5. The first full week of trap fishing on a regular basis (June 9-15) averaged 7.04 fish per hour. This rate dropped to almost zero per hour in August. Since tow-net data to June 8 did not appear to show changes in relative abundances it may be suspected that good trap catches would have been possible on the days we were tow netting. As discussed under "Fishing Effort and Effectiveness", page 13, the tow-net efforts are not exactly comparable to trap-net efforts so this assumption is subject to that source of error.

Tables 2 and 3 show average number of chum caught in traps and fyke nets per hour by weekly periods throughout the season. The average number of chum (to the nearest .01) was determined by dividing the total number of chum caught during the weekly period by traps or fyke nets by the number of hours

Table 2. Average catch per hour in numbers of fish (to nearest .01) by weekly periods of chum salmon in all smolt traps where velocities were greater than 2 feet per second.[1/]

| Trap No. \ Weekly Fishing Period | April 28-May 4 | May 5-11 | May 12-18 | May 19-25 | May 26-June 1 | June 2-8 | June 9-15 | June 16-22 | June 23-29 | June 30-July 6 | July 7-13 | July 14-20 | July 21-27 | July 28-August 3 | August 4-10 | August 11-17 | August 18-24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | - | - | - | - | - | 48.44 | - | - | - | - | - | - | - | - | - | - | - |
| 3 | - | - | - | - | - | 8.14 | 8.50 | 2.00 | .32 | 0 | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | 2.40 | 0.57 | .24 | .27 | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | .25 | 1.5 | - | - | - | - | - | - | - |
| 8 | - | - | - | - | - | - | - | - | 0 | - | - | - | - | - | - | - | - |
| 9 | - | - | - | - | - | - | - | - | - | .45 | .32 | .68 | 1.43 | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - | - | .40 | 1.67 | .44 | - | - | - | - | - |
| 11 | - | - | - | - | - | - | - | - | - | - | 0 | 0 | - | .09 | 0 | 0 | - |
| 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | .05 | .102 | .03 | .02 |
| Total Hours | - | 15 | 141 | 22 | - | 9.25 | 31.25 | 3.75 | 168.25 | 49.75 | 14.50 | 81.50 | 25.25 | 72.50 | 154 | 77.25 | 65 |
| Total Fish | - | 0 | 0 | 0 | - | 166 | 220 | 5 | 48 | 20 | 8 | 46 | 36 | 5 | 7 | 1 | 1 |
| Grand Average (catch per hour) | - | 0 | 0 | 0 | - | 17.95 | 7.04 | 1.33 | .29 | .40 | .55 | .56 | 1.43 | .07 | .05 | .01 | .02 |

1/ Dash (-) means trap was not fished, zero (0) means trap fished but no catch. Trap #5 not included in "Grand Average".

Table 3. Average catch per hour in numbers of fish (to nearest .01) by weekly periods of chum salmon in all fyke nets where stream velocities were greater than 2 feet per second.[1/]

| Trap No. \ Weekly Fishing Period | April 28-May 4 | May 5-11 | May 12-18 | May 19-25 | May 26-June 1 | June 2-8 | June 9-15 | June 16-22 | June 23-29 | June 30-July 6 | July 7-13 | July 14-20 | July 21-27 | July 28-August 3 | August 4-10 | August 11-17 | August 18-24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | - | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | - | - | - | - | - | 4.36 | - | - | - | - | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | 7.73 | 5.69 | 1.55 | .29 | 0 | .20 | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | - | - | - | .05 | .03 | - | - | 0 | - |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | - |
| 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 0 |
| Total Hours | .72 | 220 | 142 | 56 | 0 | 9.25 | 29.50 | 11 | 3.50 | .75 | 15 | 128 | 143.25 | 36 | 24 | 27 | 28 |
| Total Fish | 0 | 0 | 0 | 0 | 0 | 53 | 168 | 17 | 1 | 0 | 3 | 6 | 5 | 0 | 0 | 0 | 0 |
| Grand Average (catch per hour) | 0 | 0 | 0 | 0 | 0 | 5.73 | 5.69 | 1.55 | .29 | 0 | .20 | .05 | .03 | 0 | 0 | 0 | 0 |

1/ Dash (-) means net was not fished, zero (0) means net fished but no catch. Fyke net #6 not included in "Grand Average".

fished by the gear (nearest 1/4 hour). The weekly periods were delimited so May 25, the day the first chum was caught, was the beginning of a weekly period. Trap #5 and fyke-net #6 fished in slow water (velocity = 1.7 feet per second) for one weekly period in June and their catches of chum are much less than catches for gear in faster areas. Fast water areas were fished regularly during the summer. Therefore, hourly catch data is given only for velocities greater than 2 feet per second. Complete daily fishing information for traps and fyke nets are presented in appendixes B and D, respectively.

Catches of trap chum peaked at 17.95 fish per hour during the first week of trap fishing (June 2-8). This rate steadily decreased to .29 fish per hour on June 23-29, then increased to 1.43 fish per hour on July 21-27. After this catches were always below .1 fish per hour. The last chum was caught on August 24 in trap #12. Fishing was terminated for the season on that day.

Chum catches in fyke nets followed an identical pattern as far as peaks are concerned. The second peak for the fyke nets is not as noticeable as the second trap peak (.03 fish per hour vs. 1.43 fish per hour on July 21-27), but this is influenced by the large-meshed fyke net that was used then, i.e., many of the small chum were not retained by this net as the mesh size (1/4") at the cod end was too large to assure retention. We definitely saw young of the year chum insecurely lodged between meshes of the net.

Chum could be caught near shore and in the middle of channels. Traps and fyke nets caught them in water from 1.7 to 6 feet per second. In general, and especially in early June when peak numbers were caught, the chums seemed to be dispersed throughout the width of the Yukon River, both in the main channel and side sloughs.

Chum were caught not only at the surface but also in deeper areas. Fyke nets at sites #5 and #9 were fished below the surface. Net #5 rested on the river bed 6 feet below the surface. In 3 hours fishing on June 19 it caught two young of the year chum and a surface net captured four chum. No salmon were caught at site #9 when it was fished 10 feet deep August 9 and 11. The actual vertical distribution of the migration cannot be determined but at least some of the migrants are using deep areas.

Chums were most abundant during June 2-8 when the water level was highest. The peak height was 217 inches on June 1. Water levels fell to 155 inches by June 8 and continued declining throughout the summer (see appendix H). As indicated above, catches of chum salmon also decreased during the summer. However, after rains water levels often increased as much as 40 inches in 5 days and chum catches do not seem to be related to these fluctuations.

As the water level dropped, velocities decreased. For example, fyke-net #5 on June 8 fished in water of 5.9 feet per second. By July 9 the velocity was only 3 feet per second. The water level had dropped from 155 inches to 130 inches. When velocities decreased we were always careful to keep a net in fast water where the 1964 study had shown best chances of catching fish existed.

During the season 599 chums were caught in traps and 290 in fyke nets in 1830.5 fishing hours. Of these, 474 and 264, respectively, were measured and the average length was 39.21 mm. When this length is compared to weekly averages (where the number of fish is greater than 10) the differences are less than 1.50 mm. The highest average was 40.25 mm during June 2-8 fyke-net catches and the lowest average was 37.73 mm during the July 21-27 trap catches. Weekly average lengths by week of trap and fyke-net fish are given in table 4.

Table 4. Average lengths (mm) by week of chum salmon caught by traps and fyke nets, 1965.

| Week | Traps | | Fyke Nets | |
|---|---|---|---|---|
| | Number of Fish | Average Length | Number of Fish | Average Length |
| June 2-8 | 82 | 38.83 | 53 | 40.25 |
| June 9-15 | 226 | 38.64 | 182 | 39.67 |
| June 16-22 | 5 | 40.40 | 16 | 39.56 |
| June 23-29 | 47 | 39.42 | 1 | 42.00 |
| June 30-July 6 | 20 | 40.00 | 0 | 0 |
| July 7-13 | 7 | 44.71 | 2 | 36.00 |
| July 14-20 | 45 | 39.16 | 6 | 43.50 |
| July 21-27 | 30 | 37.73 | 4 | 37.75 |
| July 28-August 3 | 4 | 37.25 | 0 | 0 |
| August 4-10 | 6 | 37.67 | 0 | 0 |
| August 11-17 | 1 | 36.00 | 0 | 0 |
| August 18-24 | 1 | 41.00 | 0 | 0 |
| Totals | 474 | 470.81 | 264 | 278.73 |
| Grand Average | $\frac{\text{sum of all lengths}}{\text{total number of fish measured}} = \frac{28942 \text{ mm}}{738} = 39.21 \text{ mm}$ | | | |

Forty chum were caught in the tow nets from May 25 to June 8. Their average length was 35.20 mm, 4.01 mm smaller than the average of 39.21 mm found for trap and fyke-net fish. Possibly these were migrants that had hatched near the study area and the larger fish (39.21 mm) may have come from farther upriver and had more time for growth. We doubt that the tow-net fishes selectively for smaller fish because on June 4 a 77 mm chinook was captured and ciscos as large as 330 mm were also caught. The fairly constant size of

fish during June, July, and August corresponds to a situation noticed by Levanidov and Levanidova[1/] on the Amur River in Siberia. They found minimum sized chum present throughout a 2 1/2-month downstream migration and feel that migrating fish are continually replaced by newly-hatched fish. A similar situation may exist in the Yukon River.

Chinook

Traps and fyke nets fished in ice leads caught no chinook even though velocities were as high as 6 feet per second. Kerns[2/] caught red salmon *O. nerka* as large as 130 mm in the Kvichak River where velocities were as low as 3.1 feet per second. Therefore, if large chinook were present we probably would have caught them.

The tow-net effort caught only one chinook (77 mm long on June 4). Fishing with traps and fyke nets during June, July, and August caught 57 chinook. Catch per hour of chinooks by weekly periods for traps and fyke nets is given in tables 5 and 6.

Peak catches of chinook for traps and fyke nets do not correspond as did peak catches for chum by trap and fyke nets. Traps peaked during July 7-13 at .28 fish per hour and fyke nets peaked during June 2-8 at .54 fish per hour. This is probably because so few fish were caught during the year that data on relative abundance are probably misleading.

Length frequency distributions for 57 chinook (only one was not measured) are given in figure 13. The average size is 78.84 mm and the range is 48 mm[3/] to 118 mm. Hatching size is probably less than 30 mm so these fish must have been feeding in the river for several weeks. The complete absence of smaller

1/ Levanidov, V. I. and I. M. Levanidova
1957. Food of young Amur chum salmon in fresh water. Fish. Res. Bd. Can. Translation Series #102.

2/ Kerns, Orra E.
op cit

3/ The largest chum was 56 mm and the smallest chinook was 48 mm. Small chinooks were always fatter than the large chums which were very thin.

Table 5. Average catch per hour in numbers of fish (to nearest .01) by weekly periods of chinook salmon in all smolt traps where velocities were greater than 3 feet per second.[1/]

| Trap No. \ Weekly Fishing Period | April 28-May 4 | May 5-11 | May 12-18 | May 19-25 | May 26-June 1 | June 2-8 | June 9-15 | June 16-22 | June 23-29 | June 30-July 6 | July 7-13 | July 14-20 | July 21-27 | July 28-August 3 | August 4-10 | August 11-17 | August 18-24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | - | - | - | - | - | 0 | - | - | - | - | - | - | - | - | - | - | - |
| 3 | - | - | - | - | - | - | - | - | .01 | - | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | .38 | 0 | - | - | - | - | - | - | - |
| 8 | - | - | - | - | - | - | - | - | 0 | - | - | - | - | - | - | - | - |
| 9 | - | - | - | - | - | - | - | - | - | .15 | .21 | .13 | .20 | - | - | 0 | - |
| 10 | - | - | - | - | - | - | - | - | - | .08 | .67 | .15 | - | - | - | - | - |
| 11 | - | - | - | - | - | - | - | - | - | - | 0 | .33 | - | 0 | 0 | 0 | - |
| 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | .02 | .01 | .03 | 0 |
| Total Hours | 0 | 15 | 141 | 22 | 0 | 2.25 | 7.25 | 1.34 | 58 | 25.50 | 14.50 | 81.50 | 25.25 | 72.50 | 154 | 77.25 | 65 |
| Total Fish | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 4 | 12 | 5 | 1 | 1 | 1 | 0 |
| Grand Average (catch per hour) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .03 | .09 | .28 | .15 | .20 | .01 | .01 | .01 | 0 |

1/ Dash (-) means trap was not fished, zero (0) means trap fished but no catch. Traps #'s 3 and 5 not included in "Grand Average".

Table 6. Average catch per hour in numbers of fish (to nearest .01) by weekly periods of chinook salmon in all fyke nets where velocities were greater than 3 feet per second.1/

| Trap No. \ Weekly Fishing Period | April 28-May 4 | May 5-11 | May 12-18 | May 19-25 | May 26-June 1 | June 2-8 | June 9-15 | June 16-22 | June 23-29 | June 30-July 6 | July 7-13 | July 14-20 | July 21-27 | July 28-August 3 | August 4-10 | August 11-17 | August 18-24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | - | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | - | - | - | - | - | .91 | - | - | - | - | - | - | - | - | - | - | - |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | - | - | - | - | - | 0 | .27 | .27 | 0 | 0 | 0 | - | - | - | - | - | - |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | - | - | - | .03 | .03 | - | - | 1.4 | - |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | - |
| 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 0 |
| Total Hours | 72 | 220 | 142 | 36 | 0 | 9.25 | 29.50 | 11 | 3.5 | .75 | 15 | 128 | 143.75 | 36 | 24 | 20 | 28 |
| Total Fish | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 3 | 0 | 0 | 0 | 4 | 5 | 0 | 0 | 1 | 0 |
| Grand Average (catch per hour) | 0 | 0 | 0 | 0 | 0 | .54 | .27 | .27 | 0 | 0 | 0 | .03 | .03 | 0 | 0 | .05 | 0 |

1/ Dash (-) means net was not fished, zero (0) means net fished but no catch. Fyke nets #'s 4 and 6 not included in "Grand Average".

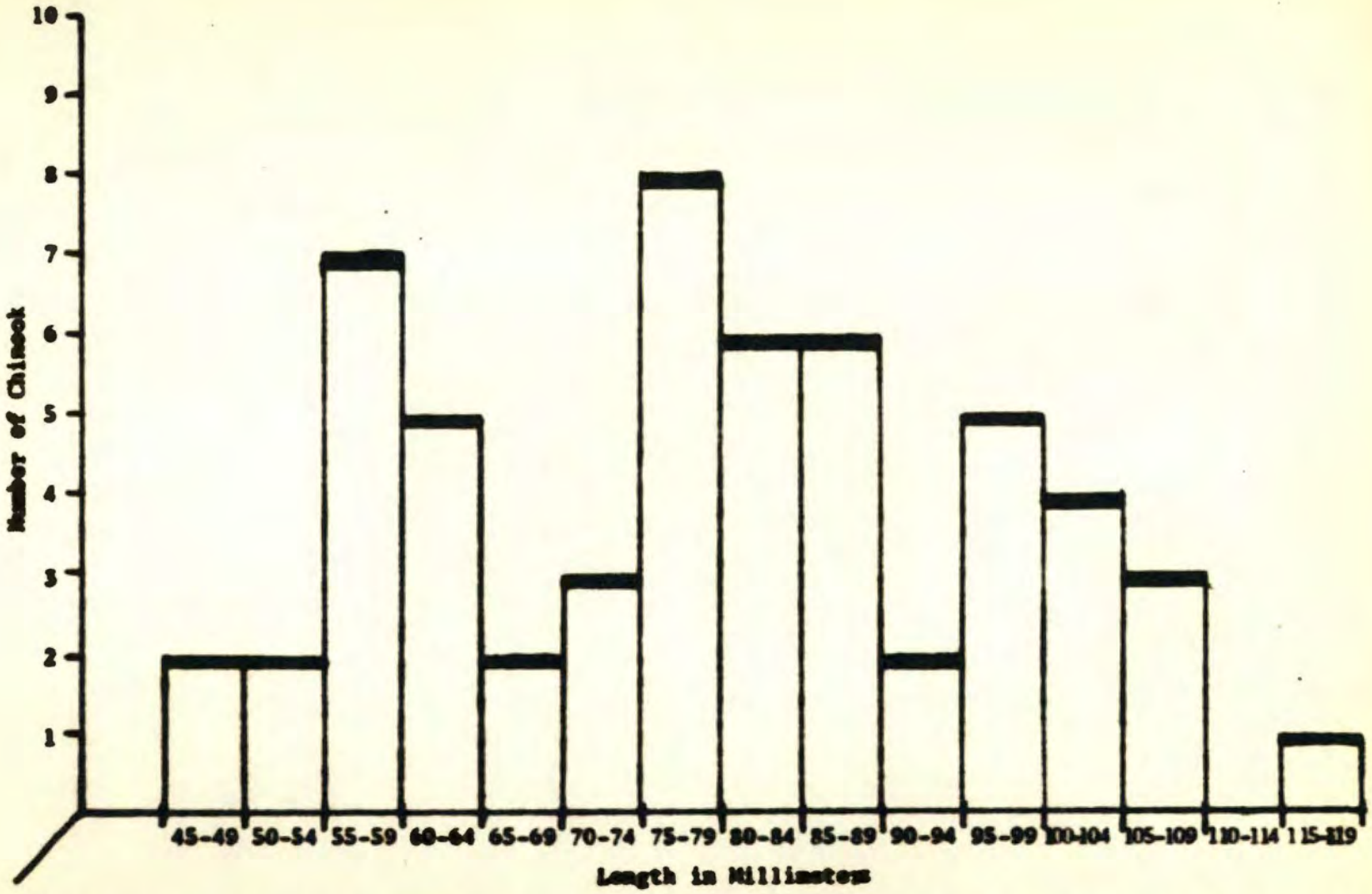



Figure 13. Length frequency distribution for 57 chinook salmon caught by fyke nets and traps in the Yukon study area, 1965.

chinooks may suggest they hatch upriver from the study area. Since we did not investigate spawning habits of adult salmon, no conclusions can be reached at this time.

Only two chinook salmon were captured in seine hauls (on August 1 and 19). The 1964 study found an increase in abundance of salmon in seine hauls as the summer progressed. It was thought that these fish might be taking up residence in rearing areas along the Yukon. Too few salmon were caught this season to clarify this thinking. It may indicate that fewer chinook were in the area this year however. For example, in 1964 from August 11-19, inclusive, 18 seine hauls covering nearly 4,000 feet were made in the Yukon River. Twenty-five chinook were captured or one salmon every 160 feet. Twenty-seven similar hauls in 1965 from July 17 to August 19, inclusive, caught only two chinook in almost 12,000 feet of beach or only one salmon every 6,000 feet. Our seining technique was standardized this year and was much smoother than the first year's efforts. Therefore, we believe the relative scarcity of chinook in seine hauls reflects their actual absence in the river system.

## Gear Performances

### Trap

Performance of smolt traps in Yukon River conditions was excellent.

1. They are sturdy and rugged. Trap #2 was hit by a large ice flow on May 19 and the only damage was a slightly bent lower frame. Trap #9 was jammed by a 12-foot log on July 7 but was unharmed. Hardware cloth withstands twigs and sticks without ripping.
2. Traps preserve the identity of the entrapped fish. The fish are nearly always alive when the catching box is checked and even if dead they have only rarely been multilated.

3. Cleaning and checking is a fast and easy job. The trap does not have to be removed from its fishing location or position for this operation. The hardware cloth can be vigorously brushed without damage or ripping.

4. Traps are adjustable to different fishing conditions. Adjustment of the styrofoam floats properly positions the traps for any current.

5. The traps could be carried to and from sites in either the 23-foot river boat or the small 16-foot Duracraft.

6. The traps floated so even if torn from their fishing position by drifting trees, they could be easily found downstream.

The traps had one drawback. They could fish only on the surface and could not be used to examine the vertical distribution of migrants.

Retention of captured fish in the traps was excellent. An 87 mm chinook was left in trap #7 (velocity = 6 feet per second) for 1 hour 10 minutes and two cleaning checks. A 79 mm chinook remained in trap #12 (velocity = 5 feet per second) for 4 hours and four checks. Neither fish escaped.

If two traps were fished side by side at the same time, catches for each should be similar. Duplicate traps were fished at site #3 (June 24-27, inclusive) and site #9 (July 16-22, inclusive). Table 7 gives results of these fishing efforts.

All catches were similar except chinook at site #9 but this difference (7 chinook for original trap and 1 in the duplicate) may only reflect the low numbers of chinook caught.

Fyke Net

Fyke nets fished as indicated in the 1964 summary report. Debris and root hairs were a major problem in the first few weeks following breakup. Adequate cleaning involved taking the net to shore for drying.

Table 7. Catch data for duplicate traps at two Yukon River sites, 1965.

| Site No. | Total Hours (each trap) | Catch | Original Trap | Duplicate Trap |
|---|---|---|---|---|
| 3 | 37.75 | Chum | 10 | 13 |
| | | Chinook | 1 | 1 |
| | | All species | 284 | 314 |
| 9 | 27.25 | Chum | 24 | 25 |
| | | Chinook | 7 | 1 |
| | | All species | 122 | 122 |

Fyke nets fished well through open leads in the ice during early spring before floating limbs and debris became abundant. One fyke net was lost when a large ice flow smashed it May 19 and a second was lost when a floating tree tore out the net's snag attachment.

Fyke nets with cod end mesh of 1/8" x 3/16" retained small chum migrants. Larger cod ends (1/4") allowed small specimens (40 mm) to slip through but easily held the chinook smolt larger than 50 mm.

Tow Nets

As indicated under "Ice Conditions", page 13, tow nets were used extensively from May 21 to June 8. Catches ranged from zero to six chum for 5 or 10 minute tows. In addition, one large chinook (77 mm) was captured on June 4. Salmon were collected in most code areas. They could be caught not only in fast water areas but also in code areas 10 and 11 where the velocity was very slow (less than 1/2 foot per second).

The method of tow netting was not altered during these efforts. By dodging debris the net remained out of prop-wash turbulence. On June 11, two 10-minute tows were made. During the first, the net was pulled directly in the propwash at all times. For the second tow, zigzagging was done so the net was outside propwash efforts most of the time. Two chums were caught

in the first tow and one chum in the second. Fish could be caught by one boat so we did not attempt to use two boats for towing.

An aluminum work prop seemed to reduce the strain on the motor and no motors failed to function during tows. On June 4, the net frame was bent when a submerged object was struck. The frame was easily reshaped by hand. Tows were always less than 10 minutes and accumulated debris was never a problem. Total time of a 10-minute tow, including setting the net, actual towing, retrieving the net, and checking the catch, usually took about 20 minutes.

Towing in the Yukon River required a constant watch on where the boat was headed. The pull of the net made rapid turning difficult and a strong grip on the throttle was needed. The continual whine and noise of the motor began to wear on the driver's nerves after several 10-minute tows.

Complete catch data are given in appendix F.

Seine Hauls

From July 17 to August 19, seine hauls were made on several representative types of gravel beaches in the study area. No chum and only two chinook were caught. The 1/4" mesh of the seine could not retain chum and the probable significance of low chinook catches has been discussed under "Chinook", page 22. Seine hauls could be completed successfully by using waders as described under "Methods and Materials".

Complete catch data are given in appendix G.

Minnow Traps

Chubs, burbot, and sculpin were commonly caught in minnow traps. Occasionally pike and suckers were caught. No other species were caught. We did not keep accurate records of minnow-trap fishing effort although at least one trap was fished from a dock at camp throughout the summer.

Live Boxes

Our attempt to rear small fish to verify identification when they were larger was not successful. Evidences of growth patterns could not be determined because we were not able to obtain large collections of live fish. Therefore, a single lost fish would significantly affect the average length of the group. Changing water levels and velocities resulted in many overturned live boxes and subsequent losses of fish.

A recognizable chinook salmon was measured on July 29, August 5, and August 12. Its length on these dates (covering 15 days) was 45 mm, 48 mm, and 50 mm. We suspect a good portion of the chinook's sustenance came from caudal fins on the smaller chum salmon.

Weather and Water Notes

1. Water level increased from 0 feet on April 27 to a maximum of 217 inches on June 1! High water cuts under overhanging banks and at least 120 feet of bank was eroded between May 22 and July 2 near the Whirlpool Cut Bank.
2. Yukon water temperature was either 33°F. or 34°F. until breakup started on May 22. The maximum temperature was 64°F. recorded on July 13 and 15.
3. Air temperature varied from 2°F. on April 30 to 77°F. on July 9.
4. Incident light, read at 1200 daily, ranged from 22,400 foot candles on July 6 to 800 foot candles on August 24.
5. Complete data are presented in appendix H.

## CONCLUSIONS

The first chum salmon was caught on May 25 and we were still catching them on August 23, 3 months later. Most of the migrants passed the study area in 2 or 3 weeks following breakup. A small secondary peak was noticed near the end of July. Catches per hour for traps by weekly periods ranged from 17.95 chum per hour on June 2-8 to .02 fish per hour during August 18-24. These fish were dispersed throughout the width of the river system including main sloughs and side channels. Their distribution may have been regular in a vertical direction also. Nine hundred thirty-four chum and 58 chinook were caught during the season by all methods.

Traps, fyke nets, and tow nets catch young salmon effectively on the Yukon River.

1. Traps are rugged and sturdy. They can be cleaned and checked easily and rapidly. Trap caught fish are in good condition and rarely have been multilated. Traps are adjustable to fishing in different water velocities and can be recovered if torn loose. We believe they are best adapted for use on the Yukon River.
2. Fyke nets can be set rapidly in fishing position and they can be fished at any depth. They are bothersome to clean and check. The mesh is easily torn by twigs and debris. They will not float and are sometimes irretrievably lost.
3. Tow nets are easy to clean. They are maneuverable and debris in the river can be avoided. It is difficult to tow for long periods of time and therefore catches are not large.

We believe a nearly constant fishing effort with traps is possible throughout most of the ice-free season on the Yukon. Trap or fyke-net fishing in

April and May could be conducted through open leads from booms on cut banks and later fishing could be from floats or other means of attachment. The times of fishing should be adjusted so the traps could be under constant watch. Fishing areas closest to camp would be most desirable.

Future work might consider a comparison of the relative effectiveness of traps, fyke nets, and tow nets.

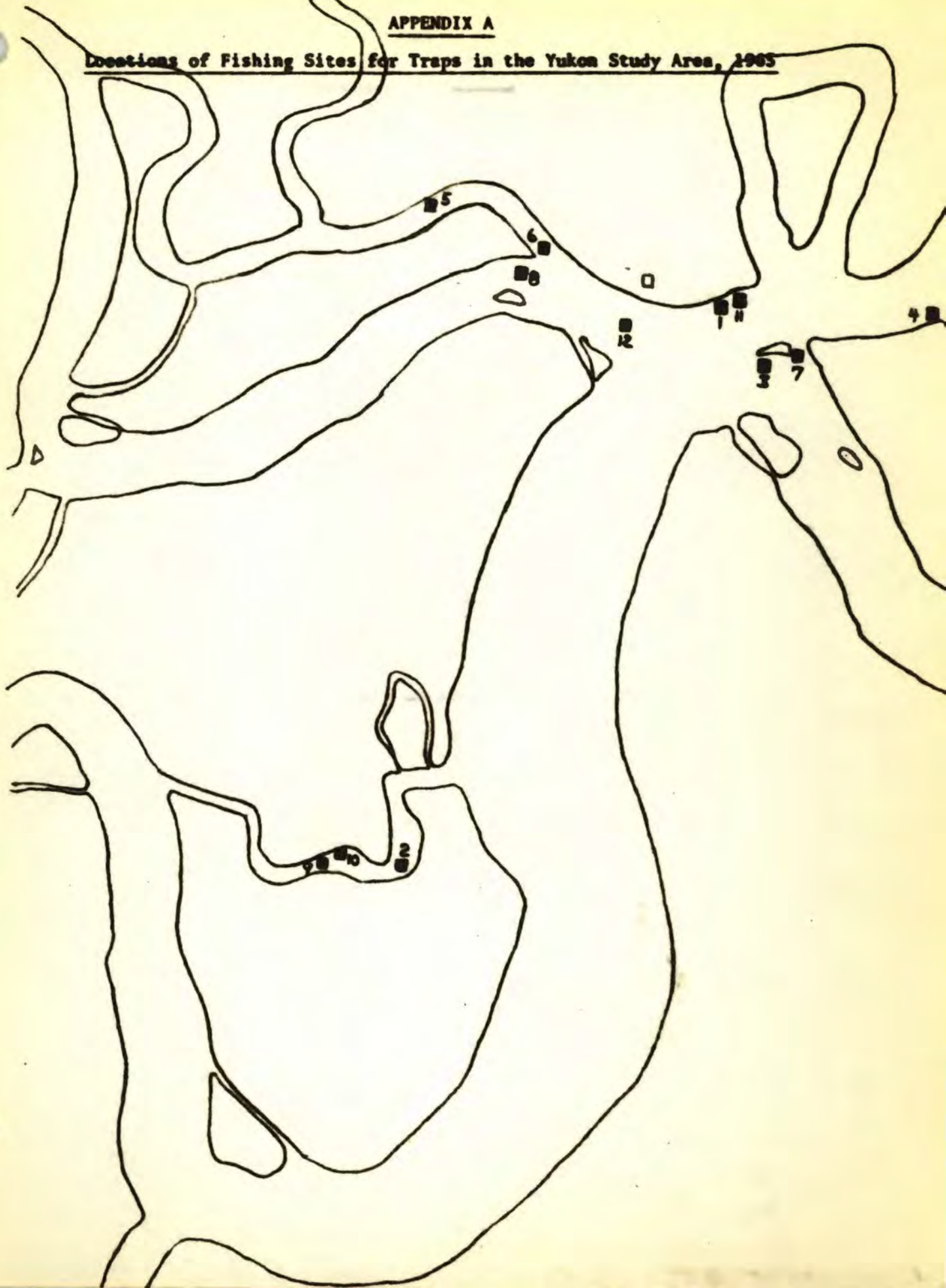
A suggested data sheet for a next season is given in appendix J.

Appendix K lists items to be returned to Hodzana, 1966, if possible.

A proposal for the next season's fishing effort will be offered separately.

## APPENDIX A

**Locations of Fishing Sites for Traps in the Yukon Study Area, 1985**



## APPENDIX B

### Daily Trap Catches at Sites Shown in Appendix A

| Trap Site / Date Checked | Velocity 1/ (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| **Yukon No. 1 2/** | | | | | | | | | | | | | | | | | |
| May 11 | 5 1/2 | 2200 | 0200 | 4 | | | | | | 1 | 5 | | | | | | |
| 11 | | 0905 | 1245 | 3 | 04 | | | | | 1 | | | | | | | |
| 11 | | 1600 | 2000 | 4 | | | | | | | (no catch) | | | | | | |
| 12 | | 2000 | 0000 | 4 | | | | 1 | | | 5 | | | | | | |
| 12 | | 0000 | 0600 | 6 | | | | | | | (no catch) | | | | | | |
| 12 | | 0600 | 1200 | 6 | | | | | | | (no catch) | | | | | | |
| 12 | | 1200 | 1700 | 5 | | | | | | | (no catch) | | | | | | |
| 12 | | 1700 | 2000 | 3 | | | | | | | (no catch) | | | | | | |
| 13 | | 2000 | 0600 | 10 | | | | 1 | | | 4 | | | | | | |
| 13 | | 0600 | 1630 | 7 | 30 | | | | | | (no catch) | | | | | | |
| 13 | | 1700 | 2115 | 4 | 15 | | | | 1 | | | | | | | | |
| 14 | | 2115 | 0000 | 2 | 45 | | | | | | 4 | | | | | | |
| 14 | | 0000 | 0400 | 4 | | | | | | | 6 | | | | | | |
| 14 | | 0400 | 1000 | 6 | | | | | | | 4 | | | | | | |
| 14 | | 1000 | 1600 | 6 | | | | | | | (no catch) | | | | | | |
| 14 | | 1600 | 2000 | 4 | | | | | | | (no catch) | | | | | | |
| 15 | | 2000 | 0400 | 8 | | | | 2 | | | 3 | | | | | | |
| 15 | | 0400 | 1030 | 6 | 30 | | | | | | (no catch) | | | | | | |
| 15 | | 1030 | 1500 | 4 | 30 | | | | | | (no catch) | | | | | | |
| 15 | | 1500 | 1800 | 3 | | | | | | | (no catch) | | | | | | |
| 15 | | 1800 | 2200 | 4 | | | | | | | (no catch) | | | | | | |
| 16 | | 2200 | 0130 | 3 | 30 | | | | | | 1 | | | | | | |

1/ Velocity read on date given and changed only if noted.
2/ Fished from boom at Whirlpool Cut Bank.

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| May 16 | | 0130 | 0600 | 4 | 30 | | | | | | (no catch) | | | | | | |
| 16 | | 0600 | 0730 | 1 | 30 | | | | | | (no catch) | | | | | | |
| 16 | | 1200 | 1500 | 3 | | | | | | | (no catch) | | | | | | |
| 16 | | 1500 | 1800 | 3 | | | | | | | 1 | | | | | | |
| 16 | | 1800 | 2300 | 5 | | | | | | | 1 | | | | | | |
| 17 | | 2300 | 0000 | 1 | | | | | | | (no catch) | | | | | | |
| 17 | | 0000 | 0400 | 4 | | | | | | | (no catch) | | | | | | |
| 17 | | 0800 | 1030 | 2 | 30 | | | 1 | | | | | | | | | |
| 17 | | 1030 | 1500 | 4 | 30 | | | 1 | | | | | | | | | |
| 17 | | 1500 | 1800 | 3 | | | | 1 | | | | | | | | | |
| 17 | | 1800 | 2100 | 3 | | | | 1 | | | | | | | | | |
| 18 | | 2100 | 0000 | 3 | | | | 2 | | | | | | | | | |
| 18 | | 0300 | 0900 | 6 | | | | | | | (no catch) | | | | | | |
| 19 | | 1200 | 1600 | 4 | | | | | 1 | | | | | | | | |
| 19 | | 1600 | 1830 | 2 | 30 | | | 4 | | | | | | | | | |
| 19 | | 1830 | 2230 | 4 | | | | 4 | | | | | | | 2 | | |
| 20 | | 2230 | 0900 | 10 | 30 | | | 1 | | (trap smashed by ice) | | | | | | | |
| **Yukon No. 2 1/** | | | | | | | | | | | | | | | | | |
| June 5 | | 1100 | 1110 | | 10 | 9 | | | | | | | | | | | |
| June 5 | | 1245 | 1445 | 2 | | about 100 | | | | | | | | | | | |

1/ Fished in Victor Slough from Birch tree snag.

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| **Yukon No. 3 1/** | | | | | | | | | | | | | | | | | |
| June 8 | 2.5 | 1155 | 1240 | | 45 | 9 | | | | | | | | | | | |
| 8 | | 1240 | 1340 | 1 | | 10 | | | | | | | | | | | |
| 8 | | 1545 | 1700 | 1 | 15 | 9 | | | | | | | | | | | |
| 8 | | 1700 | 2100 | 4 | | 29 | | | | | | | | | | | |
| 9 | | 0910 | 1150 | 2 | 40 | 22 | | | | | | | | | | | |
| 9 | | 1150 | 1350 | 2 | | 18 | | | | | | | | | | | |
| 9 | | 1350 | 1720 | 4 | 30 | 32 | | | | | | | | | | | |
| 9 | | 1720 | 1920 | 2 | | 28 | | | | | | | | | | | |
| 9 | | 2000 | 2100 | 1 | | 4 | | | | | | | | | | | |
| 9 | | 2100 | 2200 | 1 | | 9 | | | | | | | | | | | |
| 9 | | 2200 | 2300 | 1 | | 8 | | | | | | | | | | | |
| 10 | | 2300 | 0000 | 1 | | 13 | | | | | | | | | | | |
| 10 | | 0000 | 0100 | 1 | | 12 | | | | | | | | | | | |
| 10 | | 0100 | 0155 | | 55 | 5 | | | | | | | | | | | |
| 10 | | 0155 | 0255 | 1 | | 4 | | | | | | | | | | | |
| 10 | | 0255 | 0355 | 1 | | 9 | | | | | | | | | | | |
| 10 | | 0355 | 0455 | 1 | | 12 | | | | | | | | | | | |
| 10 | | 0455 | 0555 | 1 | | 4 | | | | | | | | | | | |
| 10 | | 0620 | 0900 | 2 | 40 | 22 | | | | | | | | | | | |
| 21 | | 1600 | 1750 | 1 | 50 | 4 | | 8 | | | | | | | | | |
| 23 | | 1130 | 1230 | 1 | | 3 | | 8 | | | | | | | | | |
| 23 | | 1230 | 1500 | 2 | 30 | 5 | | 25 | | | | | | | | | |
| 23 | | 1500 | 1700 | 2 | | 3 | | 4 | | | | | | | | | |
| 24 | | 1300 | 1430 | 1 | 30 | 1 | | 12 | | | | | | | | | |
| 24* | | 1300 | 1430 | 1 | 30 | 2 | | 15 | | | | | | | | | |

1/ Fished from log snag between code area #3 and #7 below Whirlpool Island.

* Duplicate trap as described in "Results" section.

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| June 24 | | 1430 | 1800 | 3 | 30 | 2 | | 8 | | | | | | | | | |
| 24* | | 1430 | 1800 | 3 | 30 | 4 | | 52 | | | | | | | | | |
| 24 | | 1800 | 2215 | 4 | 15 | | | 37 | | | | | | | | | |
| 24* | | 1800 | 2215 | 4 | 15 | | | 55 | | | | | | | | | |
| 25 | | 2215 | 0815 | 10 | | 3 | | 150 | | | | | | | | | |
| 25* | | 2215 | 0800 | 9 | 45 | 2 | | 110 | | | | | | | | | |
| 25 | | 0800 | 1115 | 3 | 15 | 2 | | 27 | | | | | | | | | |
| 25* | | 0815 | 1115 | 3 | | 1 | | 23 | | | | | | | | | |
| 25 | | 1145 | 1530 | 3 | 45 | 2 | | 27 | | | | | | | | | |
| 25* | | 1115 | 1530 | 4 | 15 | 1 | | | | | | | | | | | |
| 26* | 3 | 1030 | 1330 | 3 | | 2 | 1 | 15 | | | | | | | | | |
| 26 | | 1030 | 1330 | 3 | | | | | | | (no catch) | | | | | | |
| 26 | | 1330 | 1900 | 5 | 30 | | | | | | (no catch) | | | | | | |
| 26* | | 1330 | 1900 | 5 | 30 | 1 | | 17 | | | | | | | | | |
| 27 | | 1245 | 1545 | 3 | | | | 12 | | | | | | | | | |
| 27* | | 1245 | 1545 | 3 | | | | 13 | | | | | | | | | |
| 28 | 1.5 | 1445 | 1755 | 3 | 10 | | | 10 | | | | | | | | | |
| 28 | | 1755 | 2030 | 3 | 35 | | | 14 | | | | | | | | | |
| 28 | | 2030 | 2310 | 2 | 40 | | | | | | (no catch) | | | | | | |
| 29 | | 2310 | 1130 | 12 | 20 | 1 | | 4 | | | | | | | 1 | | |
| 29 | 1.1 | 1130 | 1855 | 7 | 25 | | | 9 | | | | | | | | | |
| 30 | | 1855 | 2315 | 4 | 20 | | | | 2 | | | | | | | | |
| Yukon No. 4 1/ | | | | | | | | | | | | | | | | | |
| June 11 | 4 | 1035 | 1135 | 1 | | 5 | | | | | | | | | | | |
| 11 | | 1130 | 1305 | 1 | 35 | 4 | | | | | | | | | | | |

1/ Fished from Spruce boom on point at upper end of Whirlpool Island. Net about 30 feet from shore.

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| June 11 | | 1305 | 1500 | 1 | 55 | 4 | | | | | | | | | | | |
| 11 | | 1500 | 1600 | 1 | | 2 | | | | | | | | | | | |
| 11 | | 1600 | 1700 | 1 | | 1 | | | | | 1 | | | | | | |
| 11 | | 1700 | 1800 | 1 | | 2 | | | | | | | | | | | |
| 21 | | 1615 | 1800 | 1 | 45 | 1 | | | | | | | | | | | |
| 24 | | 1315 | 1445 | 1 | 30 | | | | | | (no catch) | | | | | | |
| 24 | | 1445 | 1900 | 4 | 15 | 3 | | 5 | | | | | | | | | |
| 24 | | 1900 | 2230 | 3 | 30 | | | 4 | | | | | | | | | |
| 25 | | 1200 | 1550 | 3 | 50 | 1 | | 1 | | | | | | | | | |
| 26 | | 1045 | 1345 | 3 | | 2 | | 1 | | | | | | | | | |
| 26 | | 1345 | 1920 | 5 | 35 | 1 | | 14 | | | | | | | | | |
| 28 | | 1515 | 1800 | 2 | 45 | | | 3 | 1 | | | | | | | | |
| 28 | | 1800 | 2100 | 3 | | | | 2 | | | | | | | | | |
| 28 | | 2100 | 2330 | 2 | 30 | | | 12 | | | | | | | | | |
| 29 | | 1225 | 1630 | 4 | 05 | 2 | | 6 | 1 | | | | | | | | |
| 30 | | 1215 | 1420 | 2 | 05 | | | 13 | | | | | | | | | |
| 30 | | 1420 | 2310 | 8 | 50 | 3 | | 25 | | | | | | | | | |
| Yukon No. 5 1/ | | | | | | | | | | | | | | | | | |
| June 13 | 1.7 | 1045 | 1150 | 1 | 05 | 2 | | | | | | | | | | | |
| 13 | | 1150 | 1600 | 4 | 10 | | | | | | (no catch) | | | | | | |
| 14 | | 1600 | 1000 | 18 | | 1 | | | | | | | | | | | |

1/ Fished from barrel tied to snag about 30 feet from shore in Hodzana Slough and 1/2 mile above mouth of Hodzana River.

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| **Yukon No. 6 1/** | | | | | | | | (no catch) | | | | | | | | | |
| **Yukon No. 7 2/** | | | | | | | | | | | | | | | | | |
| June 28 | 6 | 1935 | 1945 | | 10 | | 1 | 12 | | | 1 | | | | | | |
| 28 | | 1945 | 2045 | 1 | | 2 | 1 | 12 | 1 | | 1 | | | | | | |
| 28 | | 2045 | 2315 | 2 | 30 | | | 3 | | | | | | | | | |
| 28 | | 1150 | 1250 | 1 | | 1 | | 12 | 1 | | | | | | | | |
| 29 | 5 | 1255 | 1355 | 1 | | | | 15 | | | | | | | | | |
| 29 | | 1355 | 1425 | | 30 | 1 | | 12 | 1 | | | | | | | | |
| 29 | | 1425 | 1555 | 1 | 30 | | | 3 | | (catch box over flowing) | | | | | | | |
| 29 | | 1555 | 1655 | 1 | | | | (no catch) | | (catch box over flowing) | | | | | | | |
| 29 | | 1704 | 1719 | | 15 | | | (no catch) | | | | | | | | | |
| 29 | | 1719 | 1734 | | 15 | | | 4 | | | | | | | | | |
| 29 | | 1734 | 1745 | | 11 | | | 3 | | | | | | | | | |
| 29 | | 1745 | 1755 | | 10 | 1 | | 10 | | | | | | | | | |
| 29 | | 1815 | 1830 | | 15 | | | 9 | | | | | | | | | |
| 29 | | 1830 | 1850 | | 20 | 1 | | 8 | | | | | | | | | |
| 29 | | 1850 | 1910 | | 20 | | | 3 | | | | | | | | | |
| 30 | | 1140 | 1155 | | 15 | | | 12 | | | | | | | | | |
| 30 | 3.9 | 1156 | 1211 | | 15 | 1 | | 3 | | | | | | | | | |
| 30 | | 1214 | 1230 | | 16 | | | 6 | | | | | | | | | |
| 30 | | 1233 | 1248 | | 15 | | | 9 | | | | | | | | | |

1/ Trap was placed on snag 1/4 mile below camp on June 2nd and sunk immediately. It was retrieved on June 8.

2/ Fished on snag below Whirlpool Cut between sand bar and Whirlpool Island.

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| June 30 | | 1251 | 1305 | | 14 | 1 | | 8 | | | | | | | | | |
| 30 | | 1309 | 1324 | | 15 | | | 2 | | | | | | | | | |
| 30 | | 1325 | 1340 | | 15 | 1 | | 13 | | | | | | | | | |
| 30 | | 1345 | 1355 | | 10 | | | 10 | | | | | | | | | |
| Yukon No. 8 1/ | | | | | | | | | | | | | | | | | |
| June 28 | 4 | 1725 | 2035 | 3 | | | | 5 | 2 | | | | | | | | |
| 28 | | 2025 | 2250 | 2 | 25 | | | 15 | 1 | | | | | | | | |
| 29 | | 1115 | 1915 | 8 | | | | 9 | | (trap had sunk) | | | | | | | |
| Yukon No. 9 2/ | | | | | | | | | | | | | | | | | |
| July 2 | 5.9 | 1200 | 1220 | | 20 | 2 | | 26 | | | | | | | | | |
| 3 | | 1710 | 1740 | | 30 | 2 | | 55 | | | | | | | | | |
| 3 | | 1740 | 1840 | 1 | | | | 85 | | | | | | 1 | | | |
| 4 | | 1800 | 1900 | 1 | | | | 8 | 1 | | | | 2 | | | | |
| 6 | | 0545 | 0655 | 1 | 10 | | | 14 | | | | | | | | | |
| 6 | | 0700 | 0800 | 1 | | 1 | | 13 | | | | | | | | | |
| 6 | | 0805 | 0905 | 1 | | 1 | | 12 | 1 | | | | | | | | |
| 6 | | 0910 | 1010 | 1 | | | | 20 | 1 | | | | | | | | |
| 6 | | 1015 | 1115 | 1 | | | | 12 | | | | | | 1 | | | |
| 6 | | 1120 | 1220 | 1 | | | | 16 | | | | | | | | | |
| 6 | | 1223 | 1323 | 1 | | | 1 | 13 | | | | | | | | | |

1/ Fished from snag in Hodzana Slough about 1/4 mile below camp.
2/ Fished from snag half way down Victor Slough in middle of channel.

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| July 6 | | 1325 | 1425 | 1 | | | | 14 | | | | | | | | | |
| 6 | | 1428 | 1528 | 1 | | | | 21 | | | | | | | 1 | | |
| 6 | | 1530 | 1630 | 1 | | | | 15 | 1 | | | | | | | | |
| 6 | | 1633 | 1733 | 1 | | | 1 | 19 | 1 | | | | | | | | |
| 6 | | 1735 | 1835 | 1 | | | | 17 | 1 | | | | | | | | |
| 6 | | 1837 | 1937 | 1 | | 2 | 1 | 15 | | | | | | | | | |
| 6 | | 1941 | 2041 | 1 | | 2 | | 20 | | | | | | | | | |
| 6 | | 2045 | 2245 | 1 | | | | 16 | | | | | | | | | |
| 6 | | 2149 | 2249 | 1 | | | | 16 | 1 | 1 | | | | | | | |
| 6 | | 2253 | 2353 | 1 | | | | 23 | 3 | | | | | | | | |
| 7 | | 2357 | 0057 | 1 | | 1 | | 14 | 2 | | | | | | | | |
| 7 | | 0103 | 0203 | 1 | | | | 16 | 4 | | | | | | | | |
| 7 | | 0207 | 0307 | 1 | | | | 36 | | | | | | | | | |
| 7 | | 0311 | 0426 | 1 | 15 | 2 | | 48 | 2 | | | | | | | | |
| 7 | | 0430 | 0530 | 1 | | | | 33 | 3 | | | | | | | | |
| 9 | | 1530 | 1630 | 1 | | | | 17 | 1 | | | | | | | | |
| 12 | | 1550 | 1650 | 1 | | | | 9 | | | | | | | | | |
| 12 | | 1655 | 1755 | 1 | | | 1 | 13 | | | | | | | | | |
| 12 | | 1758 | 1858 | 1 | | | | 12 | 2 | | | | | | | | |
| 12 | | 1900 | 1920 | | 20 | | 1 | 4 | | | | | | | | | |
| 14 | | 1152 | 1322 | 1 | 30 | | | 15 | | | | | | | | | |
| 14 | | 1325 | 1425 | 1 | | | | 7 | | | | | | | | | |
| 14 | | 1427 | 1527 | 1 | | | 1 | 10 | | | | | | | | | |
| 14 | 5.5 | 1530 | 1630 | 1 | | 2 | | 10 | | | | | | | | | |
| 14 | | 1640 | 1740 | 1 | | | | 10 | | | | | | | | | |
| 14 | | 1743 | 1843 | 1 | | | | 6 | | | | | | | | | |

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| July 14 | | 1846 | 1930 | | 44 | | | 12 | | | | | 1 | | | | |
| 15 | | 1110 | 1210 | 1 | | | | 3 | | | | | | | | | |
| 15 | | 1212 | 1312 | 1 | | | | 4 | | | | | | | | | |
| 15 | | 1318 | 1418 | 1 | | | 1 | 1 | | | | | | | | | |
| 15 | | 1422 | 1522 | 1 | | | | 1 | | | | | | | | | |
| 15 | | 1525 | 1625 | 1 | | | 1 | 3 | | | | | | | | | |
| 15 | | 1630 | 1730 | 1 | | 2 | | 2 | | | | | 1 | | | | |
| 16* | | 1210 | 1215 | | 05 | | | 2 | | | | | | | | | |
| 16 | | 1315 | 1345 | | 30 | | | 1 | | 1 | | | | | | | |
| 16* | | 1347 | 1447 | 1 | | 1 | | 6 | | | | | | | | | |
| 16 | | 1350 | 1450 | 1 | | | | 7 | | | | 1 | 1 | | | | |
| 16* | | 1450 | 1550 | 1 | | 2 | | 4 | | | | | 1 | | | | |
| 16 | | 1455 | 1553 | | 58 | | | 4 | | | | | | | | | |
| 16* | | 1552 | 1652 | 1 | | 2 | | 2 | | | 1 | | | | | | |
| 16 | | 1556 | 1666 | 1 | | 3 | 1 | 4 | | | | | | 1 | | | |
| 16* | | 1653 | 1754 | 1 | 01 | 1 | | 4 | | | | | | | | | |
| 16 | | 1656 | 1756 | 1 | | 1 | | 4 | | | | | | | | | |
| 16* | | 1754 | 1854 | 1 | | 1 | | 2 | | | | | | | | | |
| 16 | | 1757 | 1857 | 1 | | 2 | | 4 | | | | | | | | | |
| 16* | | 1854 | 1912 | | 18 | | | | | | (no catch) | | | | | | |
| 16 | | 1857 | 1914 | | 17 | | | | | | (no catch) | | | | | | |
| 20* | | 0625 | 0749 | 1 | 24 | 4 | | 1 | 1 | 1 | | 1 | 1 | 1 | | | |
| 20 | | 0645 | 0757 | 1 | 12 | 1 | | 5 | 1 | | | 3 | | | | | |
| 20* | | 0752 | 0852 | 1 | | 1 | | | 1 | | | 1 | | | | | |
| 20 | | 0757 | 0857 | 1 | | 1 | 1 | 1 | | | | | | | | | |
| 20* | | 0854 | 0954 | 1 | | | | | | | | 2 | | | | | |
| 20 | | 0858 | 0958 | 1 | | 2 | | | | | | | | | | | |

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| July 20* | | 0957 | 1057 | 1 | | | | 1 | | 1 | | 1 | | | | | |
| 20 | | 1000 | 1100 | 1 | | | | | | | (no catch) | | | | | | |
| 20* | | 1059 | 1159 | 1 | | | | | | | | 1 | 1 | | | | |
| 20 | | 1103 | 1203 | 1 | | | | 2 | | 1 | | | | | | | |
| 20* | | 1200 | 1300 | 1 | | | | 1 | | | | | 1 | | | | |
| 20 | | 1204 | 1304 | 1 | | | | 2 | | | | | | | | | |
| 20* | | 1303 | 1403 | 1 | | 2 | | | | | | | 1 | | | | |
| 20 | | 1308 | 1408 | 1 | | | 1 | | 2 | 1 | | | | | | | |
| 20* | | 1405 | 1505 | 1 | | 1 | | | 1 | | | | | | | | |
| 20 | | 1410 | 1510 | 1 | | | | 2 | | | | | | | | | |
| 20* | | 1508 | 1608 | 1 | | 1 | | 1 | | | | | | | | | |
| 20 | | 1513 | 1613 | 1 | | 2 | | | | | | | | | | | |
| 20* | | 1610 | 1710 | 1 | | | | 4 | | 1 | | | | | | | |
| 20 | | 1615 | 1715 | 1 | | | | 1 | | 1 | | 1 | | | | | |
| 20* | | 1712 | 1812 | 1 | | | | 3 | | | | 1 | 1 | | | | |
| 20 | | 1717 | 1817 | 1 | | | | | | 1 | | 1 | | | | | |
| 21 | | 1810 | 1910 | 1 | | | 1 | | | | | | 2 | 1 | | | |
| 21* | | 1815 | 1915 | 1 | | | | 1 | 2 | 1 | | 1 | | | | | |
| 21 | 5 | 1915 | 2015 | 1 | | 2 | | | 2 | | | | 1 | 1 | | | |
| 21* | | 1920 | 2020 | 1 | | 2 | | 2 | | | | | | | | | |
| 21 | | 2017 | 2117 | 1 | | 1 | | | | | | 1 | | 1 | | | |
| 21* | | 2020 | 2120 | 1 | | 2 | | 3 | | | | | | | | | |
| 21 | | 2119 | 2219 | 1 | | 1 | | 1 | 1 | | | 1 | | | | | |
| 21* | | 2122 | 2222 | 1 | | | 1 | | 1 | | | 1 | | | | | |
| 21 | | 2222 | 2322 | 1 | | 4 | 1 | 5 | | | | | 1 | | | | |
| 21* | | 2225 | 2325 | 1 | | 4 | | 4 | | 1 | | 3 | | | | | |

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time In | Time Out | Total Time Hrs. | Total Time Min. | Salmon Chum | Salmon King | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July 22 | | 2326 | 0026 | 1 | | 6 | | 3 | | | | 1 | 1 | | | | |
| 22* | | 2330 | 0030 | 1 | | 2 | | 3 | | 1 | | | | | | | |
| 22 | | 0030 | 0130 | 1 | | 4 | | 2 | | | | 1 | | | | | |
| 22* | | 0038 | 0138 | 1 | | | | 4 | | | | | | | | | |
| 22 | | 0135 | 0235 | 1 | | 2 | | 2 | | 5 | | | | | | | |
| 22* | | 0142 | 0242 | 1 | | 2 | | 3 | | 5 | | 1 | | | | | |
| 22 | | 0241 | 0341 | 1 | | | 1 | 4 | 2 | 2 | | | | | | | |
| 22* | | 0250 | 0350 | 1 | | | | 1 | | 1 | | 1 | | | | | |
| 22 | | 0345 | 0445 | 1 | | 1 | | | | | | 1 | 1 | | | | |
| 22* | | 0353 | 0453 | 1 | | | | | | 2 | | | 1 | | | | |
| 22 | | 0450 | 0550 | 1 | | | | | 2 | 2 | | 1 | 1 | | | | |
| 22* | | 0500 | 0600 | 1 | | | | 3 | 1 | 3 | | | | | | | |
| 22 | | 1800 | 1900 | 1 | | 2 | 1 | | | | 1 | | | | | | |
| 22* | | 1800 | 1900 | 1 | | 1 | | 1 | | | | 1 | | | | | |
| 22* | | 1905 | 2020 | 1 | 15 | | | 1 | | | | | | | | | |
| Aug. 13 | | 1250 | 1640 | 3 | 50 | | | | (no catch--box sunk) | | | | | | | | |
| 13 | | 1645 | 1830 | 1 | 45 | | | | | 1 | | | | | | | |
| 13 | | 1835 | 2115 | 2 | 40 | | | 1 | | (box sunk) | | | | | | | |
| 13 | | 2120 | 2345 | 2 | 25 | | | | (no catch--box sunk) | | | | | | | | |
| Yukon No. 10 1/ | | | | | | | | | | | | | | | | | |
| July 3 | 5.9 | 1730 | 1830 | 1 | | | 1 | 75 | | | | | | | | | |
| 4 | | 1815 | 1915 | 1 | | 2 | | 25 | 1 | | | | | 1 | | | |

1/ Fished from boom 150 feet upstream from Yukon trap #9, 15 feet from shore in Victor Slough.

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| July 6 | | 0550 | 0750 | 2 | | | | 26 | | | | | | | | | |
| 6 | | 0655 | 0755 | 1 | | | | 28 | | | 1 | | | | | | |
| 6 | | 0757 | 0857 | 1 | | | | 30 | | | | | | | | | |
| 6 | | 0903 | 1003 | 1 | | | | 37 | 1 | | | | | | | | |
| 6 | | 1005 | 1105 | 1 | | 2 | | 34 | | | | | | | | | |
| 6 | | 1108 | 1208 | 1 | | | | 24 | 1 | | | | | | | | |
| 6 | | 1215 | 1310 | | 55 | 1 | | 26 | | | | | | | | | |
| 6 | | 1315 | 1355 | | 40 | | | 12 | | | | | | | | | |
| 6 | | 1415 | 1515 | 1 | | | | 29 | 2 | | | | | | | | |
| 6 | | 1518 | 1618 | 1 | | | | 28 | 1 | | | | | | | | |
| 12 | | 1600 | 1700 | 1 | | 1 | | 13 | | | | | | | | | |
| 12 | | 1703 | 1803 | 1 | | 3 | 1 | 12 | | | | | | | | | |
| 12 | | 1805 | 1905 | 1 | | 1 | 1 | 12 | | | | | | | | | |
| 14 | | 1147 | 1347 | 2 | | | | 32 | | | | | | | | | |
| 14 | | 1351 | 1451 | 1 | | 3 | 1 | 21 | | | | | | | | | |
| 14 | | 1457 | 1557 | 1 | | | 1 | 19 | | 1 | | | | | | | |
| 14 | | 1557 | 1657 | 1 | | 1 | | 29 | | 1 | | | | | | | |
| 14 | | 1701 | 1801 | 1 | | 1 | | 65 | | 1 | | | | | | | |
| 14 | | 1806 | 1906 | 1 | | 1 | | 46 | | 1 | | | | | | | |
| 15 | | 1115 | 1215 | 1 | | | | 18 | | | | | | | | | |
| 15 | | 1218 | 1318 | 1 | | 2 | 1 | 18 | | | | | | | | | |
| 15 | | 1322 | 1422 | 1 | | 2 | 1 | 13 | | | | | | | | | |
| 15 | | 1430 | 1530 | 1 | | 2 | | 14 | 1 | | | | | | | | |
| 15 | | 1535 | 1635 | 1 | | | 1 | 7 | | 1 | | | 1 | | | | |
| 15 | | 1640 | 1740 | 1 | | | | 15 | 2 | 1 | | | | | | | |
| 16 | | 1230 | 1355 | 1 | 25 | | | 23 | | 1 | | 1 | | | | | |
| 16 | | 1400 | 1500 | 1 | | 1 | | 8 | | | | | 1 | | | | |

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| July 16 | | 1502 | 1602 | 1 | | | | 15 | | 1 | | | | | | | |
| 16 | | 1602 | 1702 | 1 | | | | 15 | | | | | | | | | |
| 16 | | 1707 | 1807 | 1 | | | | 10 | | 2 | | | | | | | |
| 16 | | 1808 | 1908 | 1 | | | | 16 | | 2 | | | | | | | |
| 16 | | 1908 | 1920 | | 12 | | | 3 | | | | | | | | | |
| 20 | | 0610 | 0700 | | 50 | | | 3 | | 2 | | 1 | | | | | |
| 20 | | 0700 | 0800 | 1 | | | | 4 | | 2 | | 3 | 1 | | | | |
| 20 | | 0803 | 0905 | 1 | 02 | | | 1 | | 5 | | 2 | | | | | |
| 20 | | 0905 | 1005 | 1 | | | | 1 | | 1 | | | | | | | |
| 20 | | 1006 | 1106 | 1 | | 1 | | | 3 | 5 | | 1 | | | | | |
| 20 | | 1107 | 1207 | 1 | | | | 1 | | 1 | | 2 | | | | | |
| 20 | | 1208 | 1308 | 1 | | | | 1 | 1 | 1 | | 2 | 1 | | | | |
| 20 | | 1315 | 1415 | 1 | | | | 1 | 1 | 2 | | 1 | | | | | |
| 20 | | 1420 | 1520 | 1 | | | | 2 | 2 | 1 | | | | | | | |
| 20 | 3 | 1525 | 1625 | 1 | | | | 2 | | | | 1 | | | | | |
| 20 | | 1620 | 1720 | 1 | | | | 1 | | 1 | | 1 | | | | | |
| 20 | | 1722 | 1822 | 1 | | 1 | | 3 | | | | 1 | | | | | |
| **Yukon No. 11 1/** | | | | | | | | | | | | | | | | | |
| July 13 | 4.3 | 1700 | 1730 | | 30 | | | 5 | | 1 | | | | | | | |
| 13 | | 1736 | 1840 | 1 | 04 | | | 12 | | | | | | | | | |
| 13 | | 1848 | 1920 | | 32 | | | 7 | | | | | | | | | |
| 16 | | 1600 | 1700 | 1 | | | 1 | 25 | | | | 1 | | | | | |
| 16 | | 1705 | 1805 | 1 | | | | 15 | | | | | | | | | |
| 16 | | 1810 | 1910 | 1 | | | | 12 | | | | | | | | | |

1/ Fished from boom at Whirlpool Cut Bank (same site as Yukon trap #1).

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Incomm | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| July 31 | | 1510 | 1710 | 2 | | | | 5 | | 2 | | | | | | | |
| 31 | | 1715 | 1815 | 1 | | | | 3 | | 3 | | | | | | | |
| 31 | | 1818 | 1918 | 1 | | | | 2 | | 2 | | | | | | | |
| 31 | | 1920 | 2020 | 1 | | | | 2 | | 2 | 1 | | | | | | |
| 31 | | 2022 | 2122 | 1 | | | | 4 | | 3 | | | | | | | |
| Aug. 2 | | 1145 | 1245 | 1 | | | | 4 | | 2 | | | 1 | | | | |
| 2 | | 1250 | 1350 | 1 | | | | 2 | | 1 | | | | | | | |
| 2 | | 1355 | 1555 | 2 | | 1 | | 3 | | 5 | | 2 | | | | | |
| 2 | | 1605 | 1805 | 2 | | | | 6 | | 1 | | 2 | 1 | | | | |
| 2 | | 1815 | 2045 | 2 | 30 | 2 | | 4 | | 2 | | | | | | | |
| 2 | | 2100 | 2300 | 2 | | | | 4 | | | 2 | 1 | | | | | |
| 3 | | 2300 | 0100 | 2 | | | | 9 | 1 | 3 | | | | | | | |
| 3 | | 1020 | 1320 | 3 | | | | 2 | | | | | 2 | | | | |
| 3 | | 1325 | 1730 | 4 | 05 | | | 1 | | 1 | | | | | | | |
| 3 | | 1733 | 2133 | 4 | | | | 1 | | 3 | 2 | | | | | | |
| 3 | | 2135 | 2345 | 2 | 10 | | | 7 | | 2 | 1 | | | | | | |
| 4 | | 0845 | 1215 | 3 | 30 | | | 1 | | 1 | | | | | | | |
| 4 | | 1217 | 1715 | 4 | 58 | | | 7 | | 2 | | | | | | | |
| 4 | | 1745 | 2145 | 4 | | | | 3 | | 2 | 1 | | | | | | |
| 5 | | 2150 | 0100 | 3 | 10 | | | 2 | 5 | 2 | 2 | | | | | | |
| 5 | | 1130 | 1420 | 2 | 50 | | | | | 1 | 2 | | | | | | |
| 5 | | 1423 | 1823 | 4 | | | | 2 | | 2 | 2 | | | | | | |
| 5 | 4.3 | 1825 | 2145 | 3 | 20 | | | 1 | | | 1 | | | | | | |
| 6 | | 2150 | 0100 | 3 | 10 | | | 5 | 3 | 3 | 3 | | | | | | |
| 6 | | 1145 | 1445 | 3 | | | | 2 | 1 | 2 | | | | | | | |
| 6 | | 1450 | 1750 | 3 | | | | 1 | | | | | | | | | |
| 6 | | 1755 | 2110 | 3 | 15 | | | 2 | | 3 | | | | | | | |

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| Aug. 7 | | 2115 | 0100 | 3 | 45 | | | 5 | | 2 | | | | | | | |
| 7 | | 0930 | 1130 | 2 | | | | 8 | | | | | | | | | |
| 7 | | 1135 | 0405 | 2 | 30 | | | 7 | | | | | | | | | |
| 7 | | 1410 | 2100 | 6 | 50 | | | 3 | | 1 | (catch box sunk) | | | | | | |
| 8 | | 2103 | 0303 | 6 | | | | 10 | 2 | | (catch box over flowing) | | | | | | |
| 8 | | 1020 | 1420 | 4 | | | | 18 | | 2 | 1 | 1 | | | | | |
| 8 | | 1425 | 1625 | 2 | | | | 8 | | 3 | | | | | | | |
| 8 | | 1630 | 1830 | 2 | | | | 9 | | 2 | | | | | | | |
| 8 | | 1834 | 2034 | 2 | | | | 12 | | 2 | | | | | | | |
| 8 | | 2040 | 2240 | 2 | | | | 13 | | 2 | 2 | | | | | | |
| 9 | | 2245 | 0045 | 2 | | | | 6 | | 5 | | 1 | | | | | |
| 9 | | 0050 | 0250 | 2 | | | | 3 | 1 | 4 | 1 | | | | | | |
| 9 | | 0255 | 0455 | 2 | | | | 4 | | 2 | 2 | | | | | | |
| 9 | | 0500 | 0700 | 2 | | | | 5 | 1 | 3 | 3 | | | | | | |
| 9 | | 0705 | 0905 | 2 | | | | 5 | | 2 | | | | | | | |
| 10 | | 1530 | 1930 | 4 | | | | 13 | | 4 | 1 | | | | | | |
| 11 | | 1040 | 1510 | 4 | 30 | | | 6 | 1 | 1 | | 1 | | | | | |
| 11 | | 1515 | 1810 | 2 | 55 | | | 4 | | 1 | | | | | | | |
| 11 | | 1815 | 2150 | 3 | 35 | | | 7 | | | | 1 | 1 | (box sunk) | | | |
| 12 | | 2155 | 0045 | 2 | 50 | | | 8 | | 2 | 1 | | | | | | |
| 13 | | 2015 | 0045 | 4 | 30 | | | 7 | | 4 | 4 | 2 | | 1 | | | |
| 13 | 4.0 | 1130 | 1545 | 4 | 15 | | | 4 | 1 | | 1 | | | | | | |
| 13 | | 1550 | 1900 | 3 | 10 | | | 5 | | | 1 | | | | | | |
| 13 | | 1905 | 0030 | 5 | 25 | | | 5 | 1 | 1 | | | 1 | (box sunk) | | | |

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Incommu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| **Yukon No. 12** | | | | | | | | | | | | | | | | | |
| July 28 | 5 | 1425 | 1510 | | 45 | | | 3 | | | | | | | | | |
| 28 | | 1610 | 1700 | 1 | | | | | | | (no catch) | | | | | | |
| 28 | | 1715 | 1815 | 1 | | | | 4 | | | | | | | | | |
| 28 | | 1817 | 1917 | 1 | | | | 1 | | | | | | | | | |
| 28 | | 1920 | 2020 | 1 | | | | | | | (no catch) | | | | | | |
| 28 | | 2025 | 2125 | 1 | | 1 | | | | | | | | | | | |
| 28 | | 2130 | 2230 | 1 | | | | | 1 | | | 1 | | | | | |
| 28 | | 2240 | 2340 | 1 | | | | 1 | | | | | | | | | |
| 29 | | 2340 | 0040 | 1 | | | | 1 | | | | | | | | | |
| 29 | | 0930 | 1030 | 1 | | | | 1 | | | | | | | | | |
| 29 | | 1040 | 1140 | 1 | | | | 1 | | | | | | | | | |
| 29 | | 1145 | 1245 | 1 | | | | 1 | | 2 | | | | | | | |
| 29 | | 1250 | 1350 | 1 | | | | | | | | | 1 | | | | |
| 29 | | 1355 | 1455 | 1 | | | | 1 | | | | | | | | | |
| 29 | | 1500 | 1600 | 1 | | | | 2 | | | | | | | | | |
| 29 | | 1605 | 1705 | 1 | | | | 4 | | | | | | | | | |
| 29 | | 1715 | 1815 | 1 | | | | 1 | | | | | | | | | |
| 29 | | 1820 | 1920 | 1 | | | | 1 | | | | | | | | | |
| 29 | | 1930 | 2030 | 1 | | | | 4 | | | | | | | | | |
| 29 | | 2035 | 2135 | 1 | | | | | | | (no catch) | | | | | | |
| 29 | | 2140 | 2240 | 1 | | | | 3 | | | | | | | | | |
| 29 | | 2245 | 2345 | 1 | | 1 | | 1 | 1 | | | | | | | | |
| 30 | | 2350 | 0050 | 1 | | | | | | | (no catch) | | | | | | |
| 30 | | 0940 | 1040 | 1 | | | 1 | 1 | | | | | | | | | |
| 30 | | 1050 | 1150 | 1 | | | | | | | (no catch) | | | | | | |

1/ Fished from barrels in middle of channel of Hodzana Slough in front of camp about 300 feet from either shore.

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| July 30 | | 1151 | 1251 | 1 | | | | | 1 | | | | | | | | |
| 30 | | 1252 | 1352 | 1 | | | | | | | (no catch) | | | | | | |
| 30 | | 1353 | 1453 | 1 | | | | 2 | | 1 | | | | | | | |
| 30 | | 1500 | 1600 | 1 | | | | | | | (no catch) | | | | | | |
| 30 | | 1603 | 1703 | 1 | | | | | | | (no catch) | | | | | | |
| 30 | | 1705 | 1805 | 1 | | | | | | | | 1 | | | | | |
| 30 | | 1806 | 1906 | 1 | | | | | | | (no catch) | | | | | | |
| 31 | | 1055 | 1255 | 2 | | | | | | | (no catch) | | | | | | |
| 31 | | 1300 | 1400 | 1 | | | | | | | (no catch) | | | | | | |
| 31 | | 1502 | 1602 | 1 | | | | | | | (no catch) | | | | | | |
| 31 | | 1605 | 1705 | 1 | | | | 2 | | | | | | | | | |
| 31 | | 1708 | 1808 | 1 | | | | 2 | | | | | | | | | |
| 31 | | 1810 | 1910 | 1 | | | | 1 | | | | | | | | | |
| 31 | | 1911 | 2011 | 1 | | | | 2 | | | | | | | | | |
| 31 | | 2013 | 2113 | 1 | | | | 1 | | | | | | | | | |
| Aug. 4 | | 1230 | 1730 | 5 | | 1 | | 1 | | | | | | | | | |
| 4 | | 1730 | 2130 | 4 | | 1 | | 5 | | | | | | | | | |
| 5 | | 2135 | 0120 | 3 | 45 | 1 | 1 | 1 | | | | | | | | | |
| 5 | | 1215 | 1425 | 2 | 10 | | | | | | (no catch) | | | | | | |
| 5 | | 1428 | 1810 | 3 | 42 | | | 2 | | | | | | | | | |
| 5 | | 1815 | 2125 | 3 | 10 | 1 | | | 1 | | | | | | | | |
| 6 | | 2130 | 0110 | 3 | 40 | | | 1 | 1 | | | 1 | | | | | |
| 6 | | 1130 | 1430 | 3 | | | | | | 2 | | | | | | | |
| 6 | | 1435 | 1800 | 3 | 25 | | | | | | (no catch) | | | | | | |
| 6 | | 1805 | 2100 | 2 | 55 | | | | | | (no catch) | | | | | | |

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| Aug. 7 | | 2105 | 0115 | 4 | 10 | 1 | | 3 | | | 1 | | | | | | |
| 7 | | 1115 | 1400 | 2 | 45 | | | 1 | | | | | | | | | |
| 7 | | 1400 | 2045 | 6 | 45 | | | 7 | | | | | | | | | |
| 7 | | 2050 | 2300 | 2 | 10 | | | 2 | | | | | | | | | |
| 8 | | 1400 | 1600 | 2 | | | | 2 | | 1 | | 1 | | | | | |
| 8 | | 1610 | 1810 | 2 | | | | 5 | | | | | | | | | |
| 8 | | 1825 | 2025 | 2 | | | | 7 | | | | | | | | | |
| 8 | | 2030 | 2230 | 2 | | | | 5 | | | 1 | | | | | | |
| 9 | | 2235 | 0035 | 2 | | | | 3 | | 1 | 1 | | | | | | |
| 9 | | 0040 | 0240 | 2 | | | | 3 | | | | | | | | | |
| 9 | | 0240 | 0445 | 2 | 05 | 1 | | 2 | | | | | | | | | |
| 9 | | 0450 | 0650 | 2 | | | | | | | 1 | | | | | | |
| 9 | | 0655 | 0855 | 2 | | | | 3 | | | 1 | | | | | | |
| 11 | | 1030 | 1500 | 4 | 30 | | | 1 | | 2 | 1 | | | | | | |
| 11 | | 1505 | 1800 | 2 | 55 | | | | 1 | | | | | | | | |
| 11 | | 1805 | 2140 | 3 | 35 | 1 | | 3 | 1 | | | | | | | | |
| 12 | | 2145 | 0100 | 3 | 15 | | | 5 | 1 | | 4 | | | | | | |
| 13 | | 1120 | 1420 | 3 | | | | 1 | | | | | | | | | |
| 13 | | 1425 | 1730 | 3 | 05 | | | 4 | | | | | | | | | |
| 13 | | 1735 | 2135 | 4 | | | | 4 | 1 | | | | | | | | |
| 14 | | 2140 | 0100 | 3 | 20 | | | 1 | 1 | | | | | | | | |
| 15 | 5.8 | 1615 | 1800 | 1 | 45 | | | | | 1 | | | | | | | |
| 15 | | 1805 | 1835 | | 30 | | 1 | | | | | | | | | | |
| 15 | | 1840 | 1940 | 1 | | | | | 1 | | | | | | | | |
| 15 | | 1945 | 2105 | 1 | 20 | | | | | | (no catch) | | | | | | |
| 15 | | 2110 | 2300 | 1 | 50 | | | (no catch--box sunk) | | | | | | | | | |
| 16 | | 2305 | 0015 | 1 | 10 | | | (no catch--box sunk) | | | | | | | | | |

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

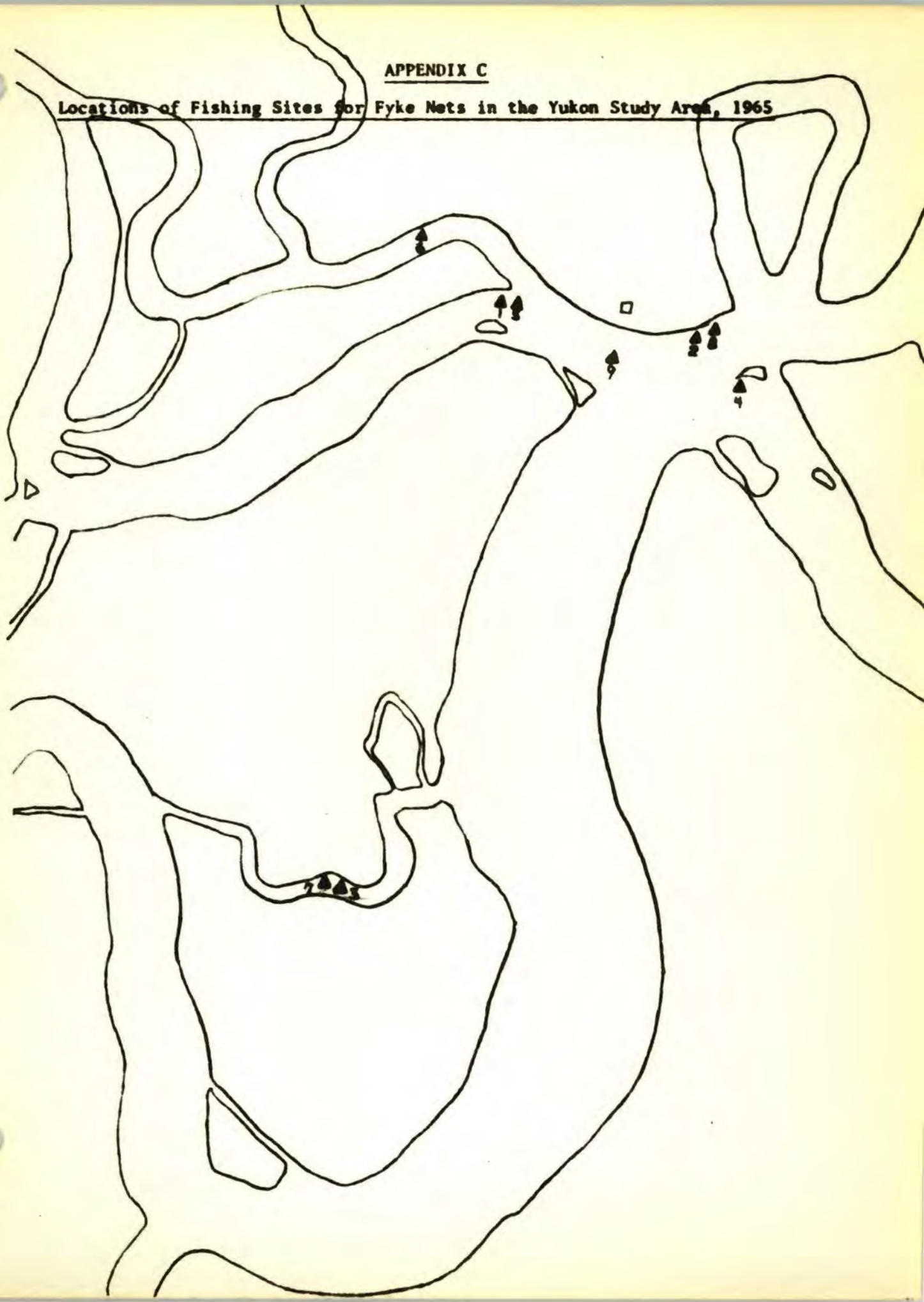
| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| Aug. 18 | | 1200 | 1330 | 1 | 30 | | | | | | 1 | | | | | | |
| 18 | | 1335 | 1435 | 1 | | | | | | | (no catch) | | | | | | |
| 18 | | 1440 | 1540 | 1 | | | | | | 1 | | | | | | | |
| 18 | | 1545 | 1645 | 1 | | | | | | | (no catch) | | | | | | |
| 18 | | 1650 | 2100 | 4 | 10 | | | 2 | | | (box sunk) | | | | | | |
| 18 | | 2105 | 2235 | 1 | 30 | | | | | | (no catch) | | | | | | |
| 19 | | 1130 | 1300 | 1 | 30 | | | | | | (no catch) | | | | | | |
| 19 | | 1305 | 1435 | 1 | 30 | | | | | | (no catch) | | | | | | |
| 19 | | 1440 | 1625 | 1 | 45 | | | | | | (no catch) | | | | | | |
| 19 | | 1630 | 1730 | 1 | | | | | | | (no catch) | | | | | | |
| 19 | | 1735 | 1900 | 1 | 25 | | | | | | | | 1 | | | | |
| 19 | | 1905 | 2020 | 1 | 15 | | | 1 | | | | | | | | | |
| 19 | | 2025 | 2206 | 1 | 35 | | | | | | (no catch) | | | | | | |
| 20 | | 1540 | 1640 | 1 | | | | | | | (no catch) | | | | | | |
| 20 | | 1645 | 1730 | | 45 | | | | | | (no catch) | | | | | | |
| 20 | | 1730 | 1930 | 2 | | | | | | | (no catch) | | | | | | |
| 20 | | 1935 | 2100 | 1 | 25 | | | 1 | | | | | | | | | |
| 20 | | 2105 | 2230 | 1 | 25 | | | | | | (no catch) | | | | | | |
| 21 | | 2235 | 0045 | 2 | 10 | | | 1 | | | | | | | | | |
| 21 | | 1000 | 1100 | 1 | | | | | | | (no catch) | | | | | | |
| 21 | | 1100 | 1200 | 1 | | | | | | | (no catch) | | | | | | |
| 21 | | 1200 | 1300 | 1 | | | | | | 1 | | | | | | | |
| 21 | | 1300 | 1500 | 2 | | | | | | | (no catch) | | | | | | |
| 21 | | 1500 | 1700 | 2 | | | | | | | (no catch) | | | | | | |
| 21 | | 1700 | 1930 | 2 | 30 | | | | | | (no catch) | | | | | | |
| 21 | | 1930 | 0030 | 5 | | | | | | | 2 | | 1 | | | | |

Appendix B - Daily Trap Catches at Sites Shown in Appendix A (continued)

| Trap Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| Aug. 22 | | 1520 | 1620 | 1 | | | | | | | (no catch) | | | | | | |
| 22 | | 1620 | 1720 | 1 | | | | | | | (no catch) | | | | | | |
| 22 | | 1720 | 1920 | 2 | | | | | (no catch) | | (under water part of time) | | | | | | |
| 22 | | 1920 | 2050 | 1 | 30 | | | | | | (no catch) | | | | | | |
| 22 | | 2050 | 2330 | 2 | 40 | | | | 1 | | 2 | | | | | | |
| 23 | | 1100 | 1200 | 1 | | | | 1 | | | | | | | | | |
| 23 | | 1230 | 1400 | 1 | 30 | | | | | | (no catch) | | | | | | |
| 23 | | 1400 | 1600 | 2 | | | | | | | (no catch) | | | | | | |
| 23 | | 1600 | 1800 | 2 | | | | | | | (no catch) | | | | | | |
| 23 | | 1800 | 2000 | 2 | | | | 1 | | | | | | | | | |
| 23 | | 2000 | 2200 | 2 | | | | 1 | 1 | | | | | | | | |
| 24 | | 2200 | 0000 | 2 | | 1 | | 1 | | | | | | | | | |
| 24 | | 0000 | 0100 | 1 | | | | | 1 | 1 | | | | | | | |

## APPENDIX C

**Locations of Fishing Sites for Fyke Nets in the Yukon Study Area, 1965**



## APPENDIX D

### Daily Fyke-Net Catches at Sites Given in Appendix C

| Fyke-net Site / Date Checked | Velocity 1/ (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| **Yukon No. 1 2/** | | | | | | | | | | | | | | | | | |
| May 4 | 6 | 1100 | 1100 | 72 | | | | | | | (no catch) | | | | | | |
| 6 | | 1100 | 1330 | 50 | 30 | | | | | | (no catch) | | | | | | |
| 7 | | 1330 | 1030 | 21 | | | | | | | (no catch) | | | | | | |
| 8 | | 1030 | 1100 | 24 | 30 | | | | | | (no catch) | | | | | | |
| **Yukon No. 2 3/** | | | | | | | | | | | | | | | | | |
| May 7 | 3.5 | 1500 | 1200 | 21 | | | | | 1 | | | | | | | | |
| 8 | | 1200 | 1500 | 27 | | | | 1 | | | 1 | | | | | | |
| 9 | | 1500 | 1400 | 23 | | | | | | | 4 | | | | | | |
| 10 | | 1500 | 1100 | 20 | | | | | | | 1 | | | | | | |
| 10 | | 1100 | 1700 | 6 | | | | | | | (no catch) | | | | | | |
| 10 | | 1700 | 2000 | 3 | | | | | | | (no catch) | | | | | | |
| 11 | | 2000 | 0200 | 6 | | | | | | | (no catch) | | | | | | |
| 11 | | 0200 | 0940 | 7 | 40 | | | | | | (no catch) | | | | | | |
| 11 | | 0940 | 1230 | 2 | 50 | | | | | | 1 | | | | | | |
| 11 | | 1230 | 2000 | 7 | 30 | | | | | | (no catch) | | | | | | |
| 12 | | 2000 | 0000 | 4 | | | | | | | (no catch) | | | | | | |
| 12 | | 0000 | 0600 | 6 | | | | | | | (no catch) | | | | | | |
| 12 | | 0600 | 0700 | 1 | | | | | | | (no catch) | | | | | | |
| 12 | | 0700 | 1000 | 3 | | | | | | | (no catch) | | | | | | |
| 13 | | 1000 | 1500 | 29 | | | | | | | (no catch) | | | | | | |
| 13 | 5.5 | 1630 | 1745 | 1 | 15 | | | | | | (no catch) | | | | | | |

1/ Velocity read on date given and changed only if noted.
2/ Fished at open lead 1/4 mile below trapper's cabin at mouth of Hodzana Slough.
3/ Fished from 40-foot spruce tree boom at Whirlpool Cut Bank.

Appendix D - Daily Fyke-Net Catches at Sites Given in Appendix C (continued)

| Fyke-net Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| May 14 | | 2115 | 0000 | 2 | 45 | | | 1 | | | 1 | | | | | | |
| 14 | | 0000 | 0400 | 4 | | | | | | | 1 | | | | | | |
| 14 | | 0400 | 1000 | 6 | | | | | | | 1 | | | | | | |
| 14 | | 1000 | 1600 | 6 | | | | | | | 2 | | | | | | |
| 14 | | 1600 | 2000 | 4 | | | | | | | (no catch) | | | | | | |
| 15 | | 2000 | 0400 | 8 | | | | 3 | | 1 | 2 | | | | | | |
| 15 | | 0400 | 1030 | 6 | 30 | | | | | | | | | | 1 | | |
| 15 | | 1030 | 1500 | 4 | 30 | | | | | | (no catch) | | | | | | |
| 15 | | 1500 | 1800 | 3 | | | | 1 | | | | | | | | | |
| 15 | | 1800 | 2200 | 4 | | | | | | | (no catch) | | | | | | |
| 16 | | 2200 | 0130 | 3 | 30 | | | 2 | 1 | | 1 | | | | | | |
| 16 | | 0130 | 0600 | 4 | 30 | | | | | | 2 | | | | | | |
| 16 | | 0600 | 0730 | 1 | 30 | | | | | | (no catch) | | | | | | |
| 16 | | 0730 | 1200 | 4 | 30 | | | 2 | | | | | | | | | |
| 16 | | 1200 | 1800 | 6 | | | | 3 | | | | | | | | | |
| 16 | | 1800 | 2300 | 5 | | | | 4 | | | 2 | | | | | | |
| 17 | | 2300 | 0000 | 1 | | | | 2 | | | | | | | | | |
| 17 | | 0000 | 0400 | 4 | | | | | | | (no catch) | | | | | | |
| 17 | | 0400 | 0800 | 4 | | | | 1 | | | | | | | | | |
| 17 | | 0800 | 1200 | 4 | | | | | | | 2 | | | | | | |
| 17 | | 1200 | 1500 | 3 | | | | 2 | | | 1 | | | | | | |
| 17 | | 1500 | 2100 | 6 | | | | 8 | | | | | | | | | |
| 18 | | 2100 | 0000 | 3 | | | | 7 | | | 1 | | | | 1 | | |
| 18 | | 0000 | 0300 | 3 | | | | 2 | | | | | | | | | |
| 19 | | 0300 | 1500 | 36 | | | | 8 | | 3 | 2 | | | | | | |
| 20 | | 1500 | 0900 | 18 | | | | | | (net lost with ice flow) | | | | | | | |

Appendix D - Daily Fyke-Net Catches at Sites Given in Appendix C (continued)

| Fyke-net Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| **Yukon No. 3 1/** | | | | | | | | | | | | | | | | | |
| June 4 | 4.3 | 1500 | 1600 | 1 | | 5 | | | 2 | | 3 | | | | | | |
| 4 | | 1600 | 1730 | 1 | 30 | 6 | 1 | | | | 3 | | | | | | |
| 4 | | 1730 | 1900 | 1 | 30 | 5 | 1 | | | | | | | | | | |
| 4 | | 1900 | 2030 | 1 | 30 | 8 | 3 | | | | 8 | | | | | | |
| **Yukon No. 4 2/** | | | | | | | | | | | | | | | | | |
| June 8 | 2.5 | 1340 | 1440 | 1 | | | | | | (cod end undone) | | | | | | | |
| **Yukon No. 5 3/** | | | | | | | | | | | | | | | | | |
| June 8 | 5.9 | 1510 | 1600 | | 50 | 6 | | | | | | | | | | | |
| 8 | | 1600 | 1745 | 1 | 45 | 8 | | | | | | | | | | | |
| 8 | | 2045 | 2200 | 1 | 15 | 15 | | | | | | | | | | | |
| 9 | | 0930 | 1030 | 1 | | 6 | | 1 | | | | | | | | | |
| 9 | | 1035 | 1135 | 1 | | 4 | | 1 | | 1 | | | | | | | |
| 9 | | 1135 | 1235 | 1 | | 4 | 1 | 1 | | | | | | | | | |
| 9 | | 1235 | 1335 | 1 | | 10 | | | | | | | | | | | |
| 9 | | 1335 | 1435 | 1 | | 4 | | | | | | | | | | | |
| 9 | | 1440 | 1540 | 1 | | 8 | | 1 | | | | | | | | | |
| 9 | | 1540 | 1640 | 1 | | 6 | 1 | | 1 | | | | | | | | |
| 9 | | 1640 | 1740 | 1 | | 9 | 1 | | | | | | | | | | |

1/ Set in Victor Slough off snag 40 feet from shore.
2/ Fished from log snag between code area #3 and #7 below Whirlpool Island.
3/ Fished from snag in Hodzana Slough about 1/4 mile below camp.

Appendix D - Daily Fyke-Net Catches at Sites Given in Appendix C (continued)

| Fyke-net Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| June 9 | | 1740 | 1840 | 1 | | 2 | | 5 | | | | | | | | | |
| 9 | | 1840 | 1940 | 1 | | 4 | | | | | | | | | | | |
| 9 | | 1940 | 2040 | 1 | | 3 | | | | | | | | | | | |
| 9 | | 2040 | 2140 | 1 | | 12 | | | | | | | | | | | |
| 9 | | 2140 | 2240 | 1 | | 9 | 1 | 1 | | | | | | | 1 | | |
| 9 | | 2240 | 2340 | 1 | | 6 | 1 | 2 | | | | | | | | | |
| 10 | | 2340 | 0040 | 1 | | 4 | | 1 | | | | | | | | | |
| 10 | | 0040 | 0140 | 1 | | 7 | | 2 | | | | | | | | | |
| 10 | | 0140 | 0240 | 1 | | 3 | | | | | | | | | | | |
| 10 | | 0240 | 0340 | 1 | | 9 | | 1 | | | | | | | | | |
| 10 | | 0340 | 0440 | 1 | | 2 | 2 | | | | | | | | | | |
| 10 | | 0440 | 0540 | 1 | | 6 | | | | | 1 | | | | | | |
| 10 | | 0540 | 0640 | 1 | | 4 | | 1 | | | | | | | | | |
| 10 | | 0645 | 0745 | 1 | | 6 | | 1 | | | | | | | | | |
| 10 | | 0745 | 0845 | 1 | | 9 | | | | | | | | | | | |
| 10 | | 0845 | 0945 | 1 | | 9 | 1 | 1 | | | | | | | | | |
| 11 | | 1530 | 1700 | 1 | 30 | 4 | | 1 | | | | | | | | | |
| 12 | | 1400 | 1500 | 1 | | 5 | | 2 | | | | | | | | | |
| 13 | | 1040 | 1140 | 1 | | 4 | | 1 | | | 1 | | | | | | |
| 14 | | 1950 | 2050 | 1 | | 4 | | 2 | | | | | | | | | |
| 15 | | 1350 | 1450 | 1 | | 5 | | 1 | | | | | | | | | |
| 16 | | 1140 | 1340 | 2 | | 6 | 3 | 2 | | | | | | | | | |
| 18 | | 1700 | 1830 | 1 | 30 | 5 | | 1 | | | 1 | | | | | | |
| 19 | | 1125 | 1425 | 3 | | 4 | | 2 | | | | | | | | | |
| 19 1/ | | 1130 | 1430 | 3 | | 2 | | 2 | | | | | | | | | |
| 22 | | 2130 | 2300 | 1 | 30 | | | 4 | | | | | | | | | |

1/ Fished 6 feet deep.

Appendix D - Daily Fyke-Net Catches at Sites Given in Appendix C (continued)

| Fyke-Net Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| June 24 | | 1530 | 1730 | 2 | | | | 2 | | | | | | | | | |
| 25 | | 1120 | 1250 | 1 | 30 | 1 | | 3 | | | | | | | | | |
| 30 | 3.1 | 1040 | 1125 | | 45 | | | 1 | | | | | | | | | |
| July 9 | | 1130 | 1255 | 1 | 25 | 1 | | 12 | 2 | | | | | | | | |
| 11 | | 1200 | 1330 | 1 | 30 | | | 9 | | | | | | | | | |
| 12 | | 1130 | 2330 | 12 | | 2 | | 73 | | | | | | | | | |
| Yukon No. 6 1/ | | | | | | | | | | | | | | | | | |
| June 12 | 1.7 | 1140 | 1410 | 2 | 30 | 1 | | 2 | | 1 | | | | | | | |
| 13 | | 1410 | 1050 | 20 | 40 | 8 | | 5 | | 1 | 1 | | | | | | |
| 13 | | 1050 | 1150 | 1 | | | | | | 2 | | | | | | | |
| 13 | | 1150 | 1550 | 4 | | 1 | | 1 | | 2 | | | | | | | |
| 13 | | 1550 | 1710 | 1 | 20 | 1 | | | | | | | | | | | |
| 14 | | 1710 | 1000 | 16 | 50 | | | 2 | | 2 | 2 | | | | | | |
| Yukon No. 7 2/ | | | | | | | | | | | | | | | | | |
| July 14 | 5.5 | 1708 | 1910 | 2 | 02 | | | 13 | | | | | | | | | |
| 15 | | 1910 | 1045 | 15 | 35 | 1 | | 12 | | | | | | | | | |
| 15 | | 1045 | 1735 | 6 | 50 | 4 | | 11 | | | | | 1 | | | | |
| 16 | | 1735 | 1145 | 14 | 10 | 1 | 2 | 45 | 1 | 1 | | | 2 | 1 | | | |
| 17 | | 1200 | 1415 | 26 | 15 | | | 86 | | 2 | | 1 | 2 | | | 1 | |
| 18 | | 1430 | 1400 | 23 | 30 | | | 53 | 3 | | | 7 | 7 | | 1 | 1 | |
| 19 | | 1400 | 1200 | 22 | | | 2 | 37 | 2 | 7 | | 2 | 3 | | | 1 | |

1/ Fished 1/2 mile above Hodzana River in Hodzana Slough between shore and snag about 30 feet from bank.

2/ Large mesh net (cod end = 1/4" bar measure) fished in Victor Slough on snag in middle of channel near Yukon trap #9 snag.

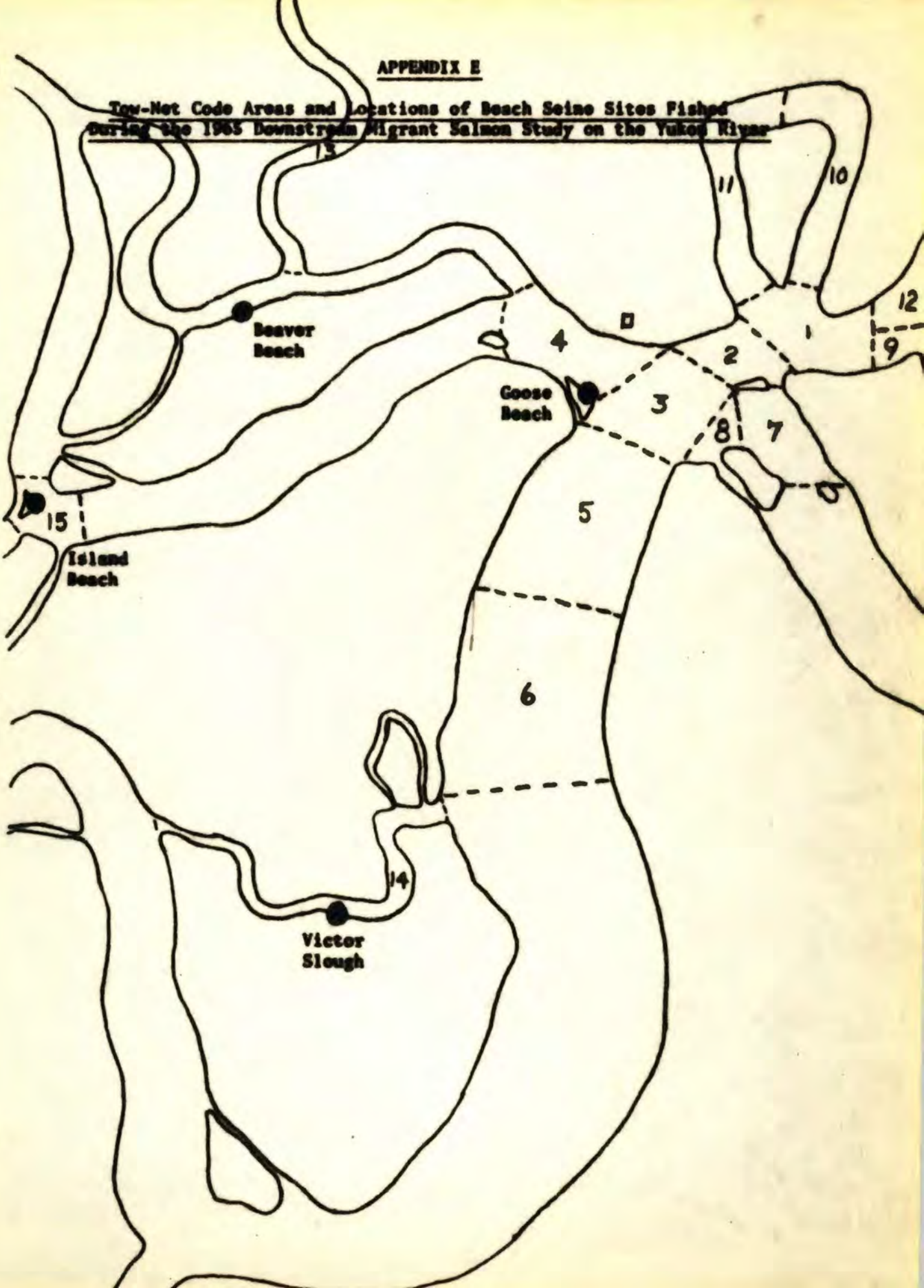
Appendix D - Daily Fyke-Net Catches at Sites Given in Appendix C (continued)

| Fyke-Net Site / Date Checked | Velocity (ft. per sec.) | Time | | Total Time | | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chum | King | | | | | | | | | | |
| July 20 | | 1200 | 0530 | 17 | 30 | | | 25 | 7 | 17 | | 1 | 1 | 1 | | | |
| 21 | | 1830 | 1800 | 23 | 30 | | 2 | 3 | 3 | | 2 | | 3 | | | | |
| 22 | | 2000 | 0530 | 9 | 30 | 1 | | 4 | 3 | | | | | | | | |
| 22 | | 0615 | 1730 | 11 | 15 | | 2 | 2 | 3 | | | | 1 | | | | |
| 23 | | 1800 | 1730 | 23 | 30 | 3 | | 14 | 10 | | | | 1 | | | | |
| 24 | | 1815 | 1200 | 17 | 45 | 1 | 1 | 22 | 4 | | | | 1 | 2 | | | |
| 25 | | 1245 | 1900 | 30 | 15 | | | 2 | | (cod end open) | | | | | | | |
| 26 | | 2030 | 1030 | 14 | | | | | (no catch--cod end open) | | | | | | | | |
| 26 1/ | | 2045 | 1045 | 14 | | | | 2 | | | | | | | | | |
| Aug. 14 | | 1700 | 0000 | 7 | | | 1 | 1 | | | | | 1 | 1 | | | |
| **Yukon No. 8 2/** | | | | | | | | | | | | | | | | | |
| July 31 | 4.3 | 1800 | 1200 | 18 | | | | 65 | 5 | | 1 | 1 | | | | | |
| 31 | | 1800 | 1200 | 18 | | | | 69 | | 10 | 2 | | | 1 | | | |
| **Yukon No. 9 3/** | | | | | | | | | | | | | | | | | |
| Aug. 9 | 5 | 1930 | 1930 | 24 | | | | | | | | | | | | 1 | |
| 11 | | 1500 | 1100 | 20 | | | | | | | | | | | | 1 | |
| 23 | | 2330 | 1200 | 12 | 30 | | | 1 | | | | | | | | | |
| 24 | | 2130 | 0100 | 3 | 30 | | | 1 | | | 2 | | | | | | |
| 24 | | 0100 | 1300 | 12 | | | | | (net ripped and not fishing properly) | | | | | | | | |

1/ Small mesh fyke net used this time period only.
2/ Fished from spruce boom at Whirlpool Cut Bank (same place as trap #11).
3/ Fished from barrel in front of camp 300 feet from either shore (same as trap #12 site). Not fished 10 feet deep and rested on bottom.

## APPENDIX E

**Tow-Net Code Areas and Locations of Beach Seine Sites Fished During the 1985 Downstream Migrant Salmon Study on the Yukon River**



## APPENDIX F

**Catch Results for Tows With Hoopes' 1-Meter Tow Net in Code Areas as Shown in Appendix E**

| Date | Duration of Tow (min.) | Code Area | Velocity (ft. per second) | Salmon: Chum | Salmon: King | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| May 21 | 3 | 4 | 6 | | | | | | 5 | | | | | | |
| 21 | 5 | 4 | 6 | | | | | | 2 | | | | | | |
| 21 | 5 | 4 | 6 | | | | | | (no catch) | | | | | | |
| 21 | 3 | 4 | 6 | | | | | | (no catch) | | | | | | |
| 22 | 5 | 7 | 6 | | | 1 | | | | | | | | | |
| 22 | 10 | 7 | 6 | | | | | | (no catch) | | | | | | |
| 22 | 10 | 7 | 6 | | | | | | (no catch) | | | | | | |
| 24 | 3 | 4 | 6 | | | 1 | | | | | | | | | |
| 24 | 1 | 4 | 6 | | | | | | (no catch) | | | | | | |
| 24 | 6 | 4 | 6 | | | 1 | | | | | | | | | |
| 24 | 3 | 2 | 6 | | | | | | (no catch) | | | | | | |
| 25 | 8 | 1 | 6 | | | | | | (no catch) | | | | | | |
| 25 | 10 | 3 | 6 | 1 | | | | | 1 | | | | | | |
| 25 | 10 | 2 | 6 | | | | 1 | | 1 | | | | | | |
| 25 | 10 | 1 | 6 | | | | | | 1 | | | | | | |
| 25 | 10 | 2 | 6 | 6 | | | | | | | | | | | |
| 25 | 10 | 3 | 6 | 2 | | | | | | | | | | | |
| 25 | 10 | 4 | 6 | | | | | | 2 | | | | | | |
| 25 | 10 | 1 | 6 | | | | | | (no catch) | | | | | | |
| 25 | 10 | 2 | 6 | 2 | | | 1 | | 1 | | | | | | |
| 25 | 5 | 7 | 6 | | | | | | 1 | | | | | | |
| 25 | 10 | 7 | 6 | 1 | | | | | | | | | | | |
| 25 | 10 | 3 | 6 | 1 | | | | | 1 | | | | | | |
| 26 | 10 | 3 | 6 | 1 | | | | | 1 | | | | | | |
| 26 | 10 | 9 | 6 | 2 | | | | | | | | | | | |
| 26 | 5 | 1 | 6 | 3 | | | | | | | | | | | |
| 26 | 10 | 4 | 6 | 2 | | | | | | | | | | | |
| 28 | 10 | 4 | 6 | 1 | | | | | | | | | | | |

Appendix F - Catch Results for Tows With Hoopes' 1-Meter Tow Net in Code Areas as Shown in Appendix E (continued)

| Date | Duration of Tow (min.) | Code Area | Velocity (ft. per second) | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Incomm | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Chum | King | | | | | | | | | | |
| May 28 | 5 | 1 | 6 | 1 | | 1 | | | | | | | | | |
| 28 | 10 | 10 | 6 | 1 | | 3 | | | | | | | | | |
| 28 | 10 | 10 & 11 | 6 | 5 | | 13 | | | | | | | | | |
| 28 | 10 | 11 | 6 | 1 | | 4 | | | | | | | | | |
| 28 | 10 | 4 | 6 | | | | | | (no catch) | | | | | | |
| 29 | 10 | 13 | 6 | | | | | | (no catch) | | | | | | |
| 31 | 10 | 10 | 6 | 2 | | | | | | | | | | | |
| June 1 | 10 | 15 | 6 | | | | | | (no catch) | | | | | | |
| 3 | 10 | 10 | 7.4 | | | 1 | | | | | | | | | |
| 3 | 10 | 4 | 7.4 | 1 | | | | | | | | | | | |
| 3 | 10 | 5 | 7.4 | | | | | | (no catch) | | | | | | |
| 4 | 5 | 1 | 7.4 | 1 | 1 | | | | 1 | | | | | | |
| 4 | 5 | 2 | 7.4 | | | | | | (no catch) | | | | | | |
| 4 | 5 | 5 | 7.4 | | | | | | (no catch) | | | | | | |
| 4 | 5 | 14 | 7.4 | | | | | | 2 | | | | | | |
| 4 | 5 | 14 | 7.4 | 2 | | | | | | | | | | | |
| 4 | 5 | 14 | 7.4 | 2 | | | | | 1 | | | | | | |
| 4 | 5 | 14 | 7.4 | 2 | | | | | | | | | | | |
| 11 | 10 | 5 | 7.4 | 2 | | | | | | | | | | | |
| 11 | 10 | 5 | 7.4 | 1 | | | | | | | | | | | |
| 11 | 10 | 13 | 7.4 | 1 | | | | | | | | | | | |
| 30 | 5 | 12 | 7.5 | | | 8 | 3 | | | | | | | | |
| 30 | 5 | 1 | 7.5 | | | 2 | | | | | | | | | |
| 30 | 10 | 10 | 7.5 | | | 13 | | | | | | | | | |
| 30 | 9 | 2 | 7.5 | | | 20 | 1 | | | | | | | | |
| 30 | 5 | 2 | 7.5 | 1 | | 8 | | | | | | | | | |
| July 1 | 10 | 4 | 7.5 | | | | | | (no catch) | | | | | | |
| 1 | 8 | 2 | 7.5 | | | 14 | | | | | | | | | |

## APPENDIX G

### Catch Results for Beach Seines at Sites Shown in Appendix E

| Date | Time | Site | Length of Haul (feet) | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Chum | King | | | | | | | | | | |
| May 28 | 1730 | Whirlpool Beach | 40 | | | 27 | | 3 | | | 1 | | | 4 | |
| 28 | 1800 | Whirlpool Beach | 40 | | | 13 | | 2 | | | 1 | | 1 | 2 | |
| 28 | 1830 | Whirlpool Beach | 40 | | | 21 | | 7 | | | 2 | | 4 | | |
| July 6 | 1200 | Victor Slough 1/ | 200 | | | | | | | 1 | 1 | | 12 | | |
| 17 | 1200 | Island Beach | 500 | | | 1 | | 4 | | | | | 4 | | |
| 17 | 1430 | Victor Slough | 500 | | | 3 | | | | | 3 | | 7 | 1 | 2 |
| 22 | 1500 | Goose Beach | 500 | | | 11 | 2 | 16 | | | 6 | 6 | 33 | | |
| 22 | 1640 | Island Beach | 500 | | | 1 | 5 | | | | | | 11 | | |
| 22 | 1540 | Beaver Beach | 500 | (adult) 1 | | 15 | 15 | 80 | | 3 | 1 | 3 | 27 | 1 | 3 |
| 22 | 1830 | Victor Slough | 500 | | | 2 | 8 | 12 | | | 2 | | 16 | 8 | 7 |
| 27 | 1230 | Goose Beach | 250 | | | 2 | | 5 | | | 1 | | 9 | 1 | 3 |
| 27 | 1930 | Beaver Beach | 500 | | | 13 | 1 | 63 | | 7 | 2 | 2 | 18 | 3 | 10 |
| 27 | 2000 | Island Beach | 250 | | | | | | | | 1 | | 2 | | 8 |
| 27 | 2145 | Victor Slough | 500 | | | | 3 | 4 | | 2 | 1 | | 4 | | |
| 27 | 2245 | Whirlpool Island | 500 | | | 3 | | 15 | | 1 | | | 9 | 1 | 2 |
| Aug. 1 | 1600 | Goose Beach | 250 | | | 3 | | 2 | | | | | | | 1 |
| 1 | 1645 | Island Beach | 450 | | | 1 | 1 | 3 | | | | | 9 | | 8 |
| 1 | 1715 | Beaver Beach | 500 | | 1 | 2 | | 145 | | 2 | | 1 | 35 | 5 | 7 |
| 1 | 2330 | Victor Slough | 500 | | | 3 | 7 | 2 | | 4 | 1 | | 14 | 2 | 19 |
| 6 | 1630 | Goose Beach | 250 | | | 4 | | 3 | | | 1 | | 2 | | 1 |
| 6 | 1700 | Victor Slough | 500 | | | 2 | 10 | 16 | | 2 | 2 | | 8 | 4 | 24 |
| 6 | 1900 | Island Beach | 500 | | | 1 | 11 | 8 | | | | 1 | 10 | | 7 |
| 6 | 1930 | Hodzana Slough | 500 | | | 165 | | 17 | | 18 | | | | | 12 |
| 6 | 2000 | Beaver Beach | 500 | | | 10 | 8 | 15 | | | 9 | | 22 | 36 | 8 |

1/ Bar opposite Yukon trap #9. All seines at Victor Slough after this date made on beach shown in Appendix E.

Appendix G - Catch Results for Beach Seines at Sites Shown in Appendix E

| Date | Time | Site | Length of Haul (feet) | Salmon | | Whitefish | Burbot | Sucker | Lamprey | Grayling | Pike | Inconnu | Chub | Trout Perch | Sculpin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Chum | King | | | | | | | | | | |
| Aug. 11 | 1230 | Victor Slough | 500 | | | 3 | 2 | 17 | | 7 | | | 3 | 2 | 12 |
| 11 | 1330 | Goose Beach | 250 | | | | 2 | | | 1 | | | 4 | 3 | 4 |
| 11 | 1630 | Island Beach | 250 | | | 1 | 2 | 14 | | 1 | | | 3 | | |
| 18 | 2000 | Beaver Beach | 500 | | | 34 | 1 | 58 | | 68 | | 1 | 2 | 3 | 5 |
| 18 | 1900 | Island Beach | 500 | | | 5 | 2 | 5 | | 1 | | | 1 | | |
| 18 | 1100 | Goose Beach | 250 | | | 17 | 3 | 16 | | | 1 | | 22 | 1 | |
| 19 | 1200 | Victor Slough | 500 | | 1 | 4 | 2 | 31 | | | 1 | 1 | 12 | 8 | 6 |

## APPENDIX H

### Daily Weather and Water Data, Yukon Study, 1965

| Date | | Air Min | Air 0800-1000 | Air Max | Yukon River Temperature (°F.) | Yukon River Water Level (inches) | Incident Light EV[1/] | Incident Light Foot Candles | Incident Light Cloud[2/] |
|---|---|---|---|---|---|---|---|---|---|
| April | 27 | 32 | 38 | 42 | | 0 | | | |
| | 28 | 21 | 26 | 38 | | | | | |
| | 29 | 15 | 21 | 37 | | | | | |
| | 30 | 2 | 25 | 33 | | | | | |
| May | 1 | 24 | 37 | 39 | | | | | |
| | 2 | 31 | 36 | 41 | | | | | |
| | 3 | 13 | 17 | 41 | | | | | |
| | 4 | 11 | 17 | 21 | | | | | |
| | 5 | 5 | 25 | 27 | | | | | |
| | 6 | 23 | 32 | 40 | 34 | | | | |
| | 7 | 29 | 43 | 51 | 34 | | | | |
| | 8 | 28 | 40 | 54 | 34 | | | | |
| | 9 | 24 | 33 | 44 | 34 | | | | 0 |
| | 10 | | | | 34 | 27 | | | 0 |
| | 11 | 26 | 46 | 49 | 34 | 33 | | | 0+- |
| | 12 | 24 | 40 | 50 | 33 | 37 | | | 0- |
| | 13 | 26 | 37 | 49 | 34 | 38 | | | 0+ |
| | 14 | 29 | 40 | 51 | 34 | 40 | | | 0+ |
| | 15 | | | | 34 | 45 | | | |
| | 16 | 27 | 40 | 57 | 34 | 48 | | | 0 |
| | 17 | 25 | 49 | 55 | 34 | 58 | | | |
| | 18 | 28 | 53 | 62 | 34 | 60 | | | 0 |
| | 19 | 36 | 50 | 61 | 34 | 58 | | | 0/ |
| | 20 | 35 | 52 | 63 | | 56 | | | 0 |
| | 21 | 33 | 48 | 65 | 34 | | | | 0 |
| | 22 | 37 | 50 | 73 | 33 | | | | 0# |
| | 23 | 33 | 58 | 60 | | 99 | | | 0/ |
| | 24 | 39 | 57 | 62 | 35 | 114 | | | 0 |
| | 25 | 44 | 59 | 64 | 37 | 121 | 5.50 | 2,400 | 0# |
| | 26 | 46 | 57 | 67 | 39 | 130 | 7.75 | 11,200 | 0# |
| | 27 | 49 | 69 | 75 | 39 | 152 | 7.50 | 9,600 | 0/ |
| | 28 | 44 | 48 | 73 | 40 | 178 | 7.75 | 11,200 | 0+ |
| | 29 | 41 | 53 | 65 | 41 | 199 | 7.75 | 11,200 | 0+ |
| | 30 | 29 | 31 | 68 | 41 | 208 | 5.75 | 2,800 | 0+ |
| | 31 | 29 | 34 | 37 | 41 | 214 | 5.75 | 2,800 | 0+ |
| June | 1 | 29 | 35 | 45 | 41 | 217 | 7.50 | 9,600 | 0+ |
| | 2 | 33 | 40 | 45 | 42 | 216 | 5.50 | 2,400 | 0+ |
| | 3 | 43 | 44 | 55 | 42 | 207 | 5.50 | 2,400 | 0+ |
| | 4 | 43 | 50 | 60 | 45 | 199 | 5.75 | 2,800 | 0+- |
| | 5 | 42 | 58 | 63 | 46 | 188 | 7.75 | 11,200 | 0/ |
| | 6 | 36 | 59 | 64 | 48 | 174 | 6.00 | 3,200 | 0+- |

1/ Exposure value (EV) at high range setting.

2/ Cloud cover designation:
- 0 = clear - less than 0.1 sky cover
- 0/ = scattered - 0.1 to less than 0.6 sky cover
- 0# = broken - 0.6 to 0.9 sky cover
- 0+ = overcast - more than 0.9 sky cover
- \- = thin

Appendix H - Daily Weather and Water Data, Yukon Study, 1965 (continued)

| Date | | Air Min | Air 0800-1000 | Air Max | Yukon River Temperature (°F.) | Yukon River Water Level (inches) | Incident Light EV[1] | Incident Light Foot Candles | Incident Light Cloud[2] |
|---|---|---|---|---|---|---|---|---|---|
| June | 7 | 46 | 55 | 62 | 48 | 167 | | | 0#- |
| | 8 | 43 | 52 | 63 | 49 | 155 | 6.75 | 5,600 | 0/- |
| | 9 | 44 | 58 | 63 | 50 | 157 | 7.75 | 11,200 | 0/- |
| | 10 | 49 | 56 | 60 | 51 | 155 | | | 0#- |
| | 11 | 38 | 60 | 64 | 52 | 156 | 6.75 | 5,600 | 0+- |
| | 12 | 49 | 54 | 67 | 52 | 154 | 4.50 | 1,200 | 0# |
| | 13 | 48 | 58 | 62 | 53 | 144 | 7.75 | 11,200 | 0/ |
| | 14 | 46 | 56 | 64 | 53 | 144 | 6.50 | 4,800 | 0/ |
| | 15 | 41 | 70 | 74 | 54 | 146 | 7.75 | 11,200 | 0# |
| | 16 | 43 | 57 | 71 | 54 | 151 | 6.00 | 3,200 | 0# |
| | 17 | 45 | 54 | 62 | 54 | 156 | 7.00 | 6,400 | 0+ |
| | 18 | 49 | 49 | 60 | 54 | 166 | 6.00 | 3,200 | 0+ |
| | 19 | 38 | 72 | 74 | 54 | 166 | 6.75 | 5,600 | 0+ |
| | 20 | 48 | 56 | 70 | 54 | 177 | 6.25 | 4,000 | 0+ |
| | 21 | 46 | 54 | 72 | 54 | 166 | 5.50 | 2,400 | 0+ |
| | 22 | 41 | 64 | 72 | 55 | 150 | 5.50 | 2,400 | 0+ |
| | 23 | 48 | 58 | 68 | 55 | 148 | 6.75 | 5,600 | 0+ |
| | 24 | 50 | 59 | 72 | 55 | 142 | 5.50 | 2,400 | 0+ |
| | 25 | 44 | 68 | 73 | 56 | 140 | 6.75 | 5,600 | 0+ |
| | 26 | 49 | 69 | 75 | 57 | 137 | 7.50 | 9,600 | 0/ |
| | 27 | 44 | 67 | 72 | 58 | 137 | 7.50 | 9,600 | 0# |
| | 28 | 46 | 59 | 73 | 59 | 125 | 7.00 | 6,400 | 0+- |
| | 29 | 52 | 61 | 65 | 59 | 117 | 7.50 | 9,600 | 0/ |
| | 30 | 45 | 65 | 70 | 60 | 114 | 7.50 | 9,600 | 0/ |
| July | 1 | 55 | 68 | 71 | 60 | 114 | 8.00 | 12,800 | 0 |
| | 2 | 51 | 56 | 70 | 60 | 110 | 6.25 | 4,000 | 0+ |
| | 3 | 41 | 67 | 74 | 61 | 107 | 7.25 | 8,000 | 0/ |
| | 4 | 50 | 60 | 72 | 61 | 105 | 7.25 | 8,000 | 0/ |
| | 5 | 58 | 67 | 75 | 61 | 101 | 8.00 | 12,800 | 0/ |
| | 6 | 52 | 60 | 70 | 60 | 107 | 8.75 | 22,400 | 0/ |
| | 7 | 54 | 68 | 72 | 62 | 120 | 8.33 | 17,024 | 0 |
| | 8 | 55 | 67 | 73 | 61 | 134 | 6.33 | 4,256 | 0+- |
| | 9 | 56 | 65 | 77 | 60 | 130 | 5.66 | 2,656 | 0+ |
| | 10 | 55 | 62 | 67 | 60 | 124 | 7.66 | 10,624 | 0 |
| | 11 | 56 | 68 | 70 | 62 | 120 | 7.66 | 10,624 | 0 |
| | 12 | 54 | 66 | 74 | 62 | 119 | 7.66 | 10,624 | 0 |
| | 13 | 48 | 68 | 75 | 64 | 112 | 7.66 | 10,624 | 0 |
| | 14 | 49 | 69 | 74 | 63 | 103 | 6.33 | 4,256 | 0+ |
| | 15 | 55 | 55 | 67 | 64 | 096 | 7.66 | 10,624 | 0/ |
| | 16 | 47 | 69 | 72 | 62 | 091 | 6.66 | 5,312 | 0+ |
| | 17 | 52 | 61 | 70 | 62 | 096 | 7.33 | 8,512 | 0/ |
| | 18 | 54 | 63 | 69 | 62 | 100 | 6.33 | 4,256 | 0+ |
| | 19 | 52 | 55 | 68 | 62 | 109 | 8.00 | 12,800 | 0/- |
| | 20 | 44 | 55 | 56 | 60 | 107 | 7.00 | 6,400 | 0/ |
| | 21 | 33 | 56 | 60 | 60 | 102 | 7.00 | 6,400 | 0/ |
| | 22 | 43 | 62 | 67 | 59 | 101 | 7.33 | 8,512 | 0/ |
| | 23 | 37 | 58 | 69 | 59 | 097 | 6.00 | 3,200 | 0+ |

Appendix H - Daily Weather and Water Data, Yukon Study, 1965 (continued)

| Date | | Air Min | Air 0800-1000 | Air Max | Yukon River Temperature (°F.) | Yukon River Water Level (inches) | Incident Light EV | Incident Light Foot Candles | Incident Light Cloud |
|---|---|---|---|---|---|---|---|---|---|
| July | 24 | 49 | 53 | 70 | 60 | 097 | 5.50 | 2,400 | 0+ |
| | 25 | 45 | 58 | 65 | 59 | 102 | 5.50 | 2,400 | 0+ |
| | 26 | 46 | 60 | 64 | 60 | 104 | 7.66 | 10,624 | 0 |
| | 27 | 40 | 60 | 67 | 61 | 107 | 7.66 | 10,624 | 0 |
| | 28 | 40 | 65 | 68 | 61 | 111 | 7.75 | 11,200 | 0 |
| | 29 | 57 | 67 | 73 | 61 | 111 | 6.33 | 4,256 | 0+ |
| | 30 | 48 | 63 | 74 | 61 | 108 | 7.66 | 10,624 | 0 |
| | 31 | 42 | 65 | 76 | 62 | 111 | 7.66 | 10,624 | 0 |
| Aug. | 1 | 48 | 63 | 74 | 62 | 112 | 7.33 | 8,512 | 0 |
| | 2 | 57 | 62 | 72 | 62 | 108 | 5.66 | 2,656 | 0+ |
| | 3 | 48 | 60 | 69 | 59 | 97 | 6.33 | 4,256 | 0/ |
| | 4 | 43 | 60 | 62 | 58 | 91 | 6.00 | 3,200 | 0# |
| | 5 | 53 | 58 | 64 | 58 | 85 | 5.66 | 2,656 | 0+ |
| | 6 | 52 | 58 | 60 | 59 | 82 | 6.50 | 4,800 | 0+- |
| | 7 | 48 | 58 | 62 | 58 | 81 | 4.75 | 1,400 | 0+ |
| | 8 | 44 | 53 | 54 | 59 | 79 | 5.25 | 2,000 | 0+ |
| | 9 | 50 | 54 | 59 | 60 | 72 | 4.66 | 1,328 | 0+ |
| | 10 | 48 | 56 | 62 | 60 | 65 | 4.75 | 1,400 | 0/ |
| | 11 | 45 | 55 | 62 | 60 | 63 | 5.33 | 2,128 | 0+- |
| | 12 | 40 | 54 | 64 | 58 | 61 | 7.00 | 6,400 | 0/ |
| | 13 | 33 | 54 | 58 | 56 | 63 | 5.50 | 2,400 | 0+ |
| | 14 | 47 | 54 | 56 | 57 | 77 | 5.00 | 1,600 | 0+ |
| | 15 | 44 | 52 | 56 | 57 | 97 | 5.25 | 2,000 | 0+ |
| | 16 | 48 | 54 | 58 | 56 | 103 | 5.00 | 1,600 | 0+ |
| | 17 | 44 | 56 | 59 | 55 | 102 | 5.50 | 2,400 | 0 |
| | 18 | 36 | 58 | 62 | 55 | 95 | 6.50 | 4,800 | 0/- |
| | 19 | 35 | 58 | 61 | 56 | 92 | 7.00 | 6,400 | 0 |
| | 20 | 46 | 62 | 64 | 57 | 92 | 6.75 | 5,600 | 0/- |
| | 21 | 48 | 63 | 68 | 57 | 90 | 6.75 | 5,600 | 0 |
| | 22 | 32 | 56 | 60 | 57 | 87 | 4.75 | 1,400 | 0+ |
| | 23 | 50 | 54 | 66 | 57 | 82 | 4.50 | 1,200 | 0/- |
| | 24 | 41 | 51 | 56 | 56 | 79 | 4.00 | 800 | 0/ |
| | 25 | 38 | 48 | 52 | 54 | 76 | 4.50 | 1,200 | 0/- |

## APPENDIX I

Data Pertaining to Fish Collected During the Outmigrant Salmon Study, 1965

| Collection Number | Date | Chum | Chinook | Whitefish | Total | Disposition |
|---|---|---|---|---|---|---|
| RBS-F65-26 | May 25 | 13 | | | 13 | ANC |
| RBS-F65-27 | May 26 | 8 | | | 8 | ANC |
| RBS-F65-28 | May 28 | 9 | | | 9 | ANC |
| RBS-F65-29 | June 4 | 30 | 5 | | 35 | FAI |
| RBS-F65-30 | June 5 | 24 | | | 24 | ANC |
| RBS-F65-31 | June 8 | 85 | | | 85 | FAI |
| RBS-F65-32 | June 3,4 | 4 | 1 | | 5 | FAI |
| RBS-F65-33 | June 9 | 175 | 3 | | 178 | FAI |
| RBS-F65-34 | June 9,10 | 171 | 5 | | 176 | FAI |
| RBS-F65-35 | June 11 | 26 | | | 26 | FAI |
| RBS-F65-36 | June 12-16,18-19 | 46 | 3 | | 49 | FAI |
| RBS-F65-37 | June 21, 23-24 | 24 | | | 24 | FAI |
| RBS-F65-38 | June 21,23 | | | 39 | 39 | FAI |
| RBS-F65-39 | June 28-29, July 2 | 4 | 1 | | 5 | FAI |
| RBS-F65-40 | July 12 | 7 | 4 | | 11 | FAI |
| RBS-F65-41 | July 6-7 | 10 | 4 | | 14 | FAI |
| RBS-F65-42 | July 14 | 5 | 3 | | 8 | FAI |
| RBS-F65-43 | July 15 | 7 | 4 | | 11 | FAI |
| RBS-F65-44 | July 16 | 14 | 2 | | 16 | FAI |
| RBS-F65-45 | July 19 | | 2 | | 2 | FAI |
| RBS-F65-46 | July 20 | 10 | 1 | | 11 | FAI |
| RBS-F65-47 | July 21-22 | 30 | 4 | | 34 | FAI |
| RBS-F65-48 | July 23-24 | 4 | 1 | | 5 | FAI |
| RBS-F65-49 | July 30 | | 1 | | 1 | FAI |
| RBS-F65-50 | Aug. 2, 4-5 | 6 | 1 | | 7 | FAI |
| RBS-F65-51 | Aug. 11 | 1 | | | 1 | FAI |
| RBS-F65-52 | Aug. 13 | | 1 | | 1 | FAI |
| RBS-F65-54 | Aug. 15 | | 1 | | 1 | FAI |
| RBS-F65-55 | Aug. 19 | | 1 | | 1 | FAI |
| RBS-F65-56 | Aug. 1 | | 1 | | 1 | FAI |
| RBS-F65-57 | Aug. 23 | 1 | | | 1 | FAI |

## APPENDIX J - Suggested Data Sheet

### FISHING EFFORT AND CATCH

River: _____ Site Location: _____ Gear: _____ Personnel: _____

| Date | Velocity | Time | | Total Time | | Salmon | | Whitefish | | | | Miscellaneous Fish | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | In | Out | Hrs. | Min. | Chinook | Chum | Whitefish | Cisco | Round | Other | Inconnu | Sucker | Lamprey | Burbot | Grayling | Pike | Chub | Trout Perch | Sculpin | |
| | | | | | | | | | | | | | | | | | | | | | |
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APPENDIX K

## Items Needed at Yukon Outmigrant Project, 1966

1. 2 each fyke-net frames and bodies; 2 spare bodies (cod ends should be 1/8" or 1/[illegible]" x 3/16" bar measure)
2. 2 each 40-hp Evinrude motors to exchange with 2 motors that spent the winter at the camp
3. 2 each 18-hp motors
4. Tool kit (check for spark plugs)
5. Hand tools (left in blaze box in Fairbanks)
6. Sleeping bags
7. 2 each fine-mesh dip nets
8. 2 each dishwashing pans
9. Liquid aluminum repair glue
10. Fish keys (in Anchorage data)
11. Data sheets and length frequency sheets
12. Strong safety pins for cotter keys on floats
13. Extra parts for riveter (Dale sent for them in September)
14. 1-gallon of Fiberglas resin; sufficient catalyst and glass
15. First aid kits need neosporin and chloromycetin
16. Binocular microscope
17. Binoculars (9 x 35)
18. 2 each 40-lb. Danforth anchors
19. 200 feet 1/4" polyethylene line and 500 feet 7/16" rotproof line
20. Fire extinguisher
21. Radio battery and antenna (radio and battery in FAI, antenna in ANC)
22. Light meter
23. Generator
24. Batteries and flashlights
25. Rifle
26. Max-min thermometer and pocket thermometer
27. Stop watch
28. Beach seine, 60 feet x 4 feet, 1/8" bar measure
29. Ice saw

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