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# STATISTICS FOR SELECTED SPORT FISHERIES ON THE ANCHOR RIVER, ALASKA, DURING 1989 WITH EMPHASIS ON DOLLY VARDEN CHAR[1]

By

L. L. Larson

Alaska Department of Fish and Game
Division of Sport Fish
Anchorage, Alaska

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ABSTRACT

During the period July to November 1989, abundance, composition, and selected fishery statistics were estimated for Dolly Varden char *Salvelinus malma*, steelhead/rainbow trout *Oncorhynchus mykiss*, and coho salmon *Oncorhynchus kisutch*. For Dolly Varden char, a total of 11,384 fish were counted through a weir and an estimated 1,615 fish were harvested primarily in the lower 1.5 kilometers of the Anchor River. Mature Dolly Varden were generally greater than 300 millimeters fork length and exhibited an earlier run timing than immature fish. The sport fishery almost exclusively harvested mature fish greater than 300 millimeters fork length (95 percent) while the immigration through the weir was comprised of a significant fraction of immature fish less than 300 millimeters fork length (24 percent). Tagging, relative maturity, and age-length data support the concept that Dolly Varden that immigrate into the Anchor River are primarily spawning fish of Anchor River origin. The magnitude of historic harvests and 3 consecutive years of declining abundance of immigrating Dolly Varden suggest that the spawning stock of Anchor River Dolly Varden are depressed from historic levels.

Only 769 steelhead/rainbow trout were counted through the weir. Although this is an underestimate due to weir washout, abundance of steelhead/rainbow trout is still not believed to be of sufficient magnitude to support any level of sport harvest. This resource continues to receive heavy fishing pressure in that an estimated 746 fish were caught and released by the sport fishery. The Anchor River sport fishery continues to be closed to the harvest of steelhead/rainbow trout.

KEY WORDS: Anchor River, Kenai Peninsula, anadromous, Dolly Varden char, coho salmon, rainbow trout, steelhead trout, creel survey, harvest, effort, weir, age composition, sex composition, maturity index.

## INTRODUCTION

The Anchor and Ninilchik Rivers and Deep Creek on the lower Kenai Peninsula (Figure 1) support recreational fisheries for chinook salmon *Oncorhynchus tshawytscha*, coho salmon *O. kisutch*, and pink salmon *O. gorbuscha*; Dolly Varden char *Salvelinus malma*; and anadromous (steelhead trout) and resident rainbow trout *O. mykiss*. The downstream sections of each of these streams are crossed by the Sterling Highway, making them easily accessible to the fishing public. Much of the river frontage on these streams is publicly owned, providing ample camping and parking areas. Due to their relatively small size, all fishing in these streams is conducted from the bank. Of the three streams, the Anchor River is the most heavily used, providing an average of 33,042 recreational fishing days (angler-days) annually from 1977 through 1988 (Mills 1979-1989). The Ninilchik River and Deep Creek provided an average of 12,867 and 13,677 angler-days, respectively, over this same period (Mills 1979-1989). The fisheries targeting on chinook salmon, coho salmon, steelhead trout, and Dolly Varden char are of major importance to recreational anglers on the lower Kenai Peninsula, whereas the fisheries targeting on resident rainbow trout and pink salmon are of lesser importance.

The recreational fishery for Dolly Varden char in the Anchor River is one of the largest in Alaska and is of particular concern to resource managers. During the period 1977 to 1983, the harvest from this fishery averaged nearly 15,000 fish annually (Mills 1979-1984). In 1984, regulations for this fishery became more restrictive as the bag and possession limits were reduced from 10 to five fish and the use of bait was prohibited after 16 September. Since these regulations have been in effect, the harvest of Dolly Varden char has averaged approximately 4,000 fish (Table 1). Although a marked decline was observed in the harvest of Dolly Varden char after initiation of the new regulations, concern has been expressed that the decline may reflect a depressed population. During 1989, the bag and possession limit for Dolly Varden was five and the use of bait was prohibited during the period 15 August through 31 December (ADFG 1989).

The recreational fishery for steelhead trout has become increasingly restrictive in recent years. In 1977, the bag and possession limit was two steelhead trout daily, and the season was closed from 1 May to 30 June. In 1984, the bag and possession limit was reduced to one fish daily, a seasonal limit of two fish was imposed, a harvest record was required, fishing was permitted only from 1 July through 31 December, and bait was prohibited after 16 September. Since 6 October 1988, the harvest of steelhead/rainbow trout has been closed by emergency order on Anchor River, Deep Creek, Ninilchik River, and Stariski Creek.

Life history studies of Dolly Varden char and steelhead trout for southwestern Kenai Peninsula streams are limited. Baseline data were first obtained in 1954 and 1957 when a weir was installed on the Anchor River. Since 1979, the Alaska Department of Fish and Game (ADFG) has conducted quantitative assessments of harvest from the statewide mail survey (Mills 1979-1988). Research was initiated in 1986 to determine the stock structure of lower Kenai Peninsula Dolly Varden char. In 1986, angler interviews were conducted on the Anchor River, Deep Creek, and Ninilchik River to estimate catch and harvest

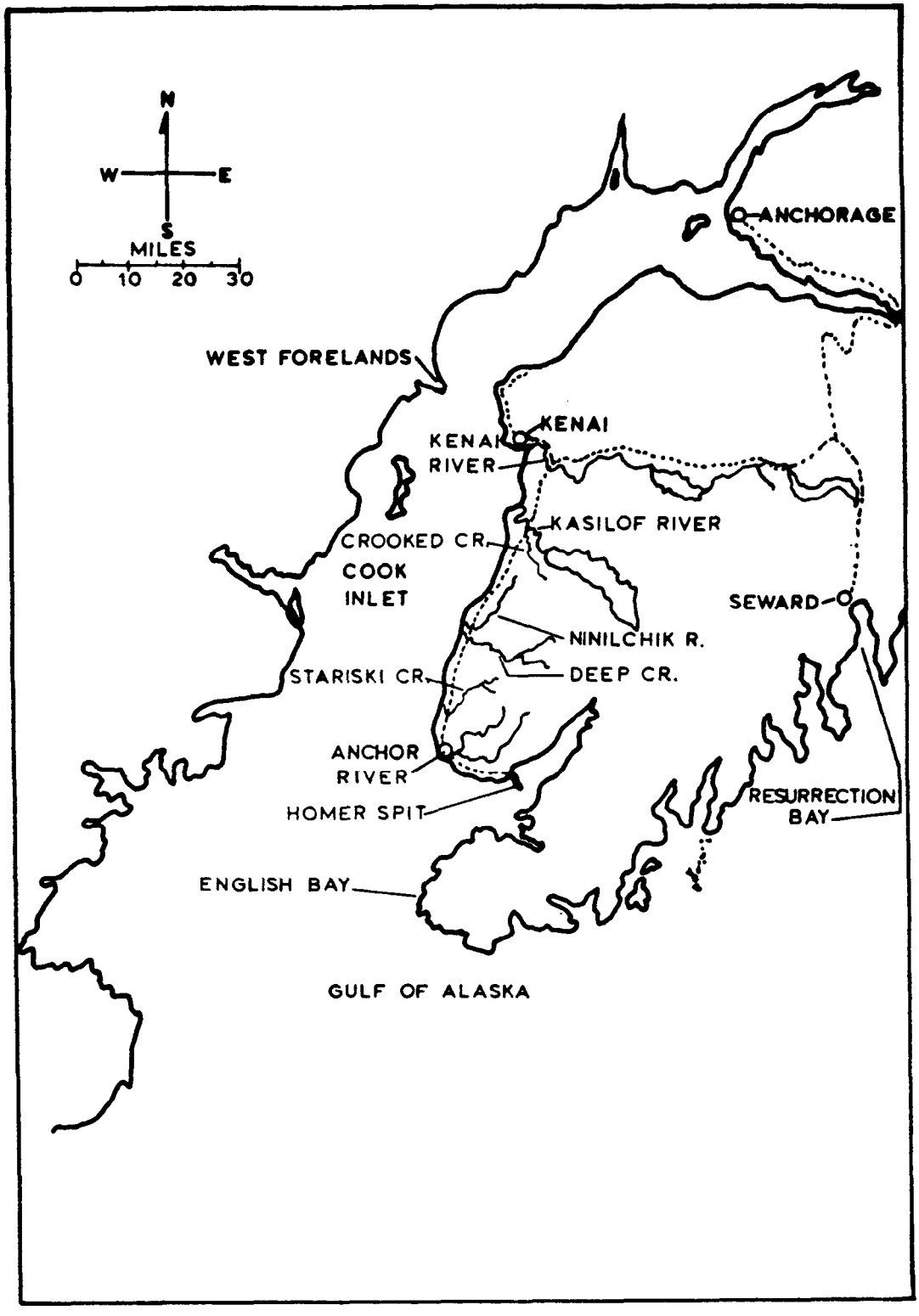


Figure 1. Map of Kenai Peninsula.

Table 1. Historical catch and harvest data from the Anchor River Dolly Varden char sport fishery, 1985-1989.

| | Creel Survey | | Statewide Harvest Survey |
|---|---|---|---|
| Year | Catch | Harvest | Harvest |
| 1977 | | | 9,222 |
| 1978 | | | 17,357 |
| 1979 | | | 21,364 |
| 1980 | | | 10,948 |
| 1981 | | | 15,271 |
| 1982 | | | 10,375 |
| 1983 | | | 17,277 |
| 1984 | | | 5,560 |
| 1985 | | | 7,720 |
| 1986 | | | 3,910 |
| 1987 | 9,414 | 2,653 | 2,735 |
| 1988 | 16,854 | 4,078 | 2,746 |
| 1989 | 5,605 | 1,615 | |

rates, an aerial survey was conducted to estimate angler distribution, and Dolly Varden char were tagged to determine migrational patterns among lower Kenai Peninsula streams (Nelson et al. 1987). The program was expanded in 1987 to include: (1) more detailed estimates of effort and harvest in the Anchor River fishery, (2) a census of the Dolly Varden char and steelhead trout immigration and emigration at the Anchor River, (3) a more comprehensive tagging program for Dolly Varden char in the three major streams, and (4) estimation of length and age parameters for both species.

The long-term goal of the program is to build a quantitative database which defines annual survival, mortality, and recruitment rates with which to estimate sustainable yield for Dolly Varden char and steelhead trout. Acquisition of basic population data such as total abundance, harvest, length and age composition, and life histories will determine what methodology will be most effective for estimation of sustainable yield.

During the period July to November 1989, abundance of all adult fish immigrating and emigrating from the Anchor River was censused through a weir. Fishery data were obtained through a roving creel survey. The importance of the Anchor River as an overwintering location for Dolly Varden sub-adults and/or post spawners was investigated. The immigration and harvest of Dolly Varden char and steelhead trout were sampled for length and age data. Fish were captured and tagged in the Anchor River for subsequent capture in future years to investigate migrational patterns.

Information pertaining to the southwestern Kenai Peninsula Dolly Varden char and steelhead/rainbow trout fisheries has been presented by Allin (1954, 1957), Wallis and Hammarstrom (1979-1982), Wallis and Balland (1981-1984), Balland (1985, 1986), Nelson et al. (1987), and Larson et al. (1988-1989). Harvest and effort estimates have been reported by Mills (1979-1989).

## METHODS

### Study Design

This is the fourth year of what is envisioned to be a long-term study of the lower Kenai Peninsula Dolly Varden char resource. Dynamics of large populations of anadromous Dolly Varden (Armstrong 1965) or Arctic char (McBride 1980) are often complex because they typically exhibit complicated migratory and homing patterns. The primary objective of this study is to develop a model that describes stock structure.

This study was designed to provide information to develop a model by censusing the summer and fall immigrants and emigrants, estimating the percent of these that are spawning fish, and examining the patterns of tag returns across years. Acquisition of basic population data such as a total census, harvest, length and age composition and relative maturity, and exploitation and contribution rates to the fishery provide the means to determine stock structure and estimate key population parameters. Since this fishery is complicated by concurrent fisheries for other species, it was also necessary

to acquire specific fisheries information on all species so that additional regulatory measures (if necessary) can be effectively implemented.

Sport Fishery

A roving creel survey was conducted on the Anchor River from 3 July to 7 November 1989. Effort in angler-hours and harvests of Dolly Varden and steelhead/rainbow trout were estimated by weekend/holidays, weekdays, upstream, and downstream of the weir for each calendar month of the fishery.

Aerial surveys conducted in 1986 and creel surveys conducted in 1987 showed that the sport fishery in the Anchor River occurs primarily in the lower 7.5 km of the river where access through public camping facilities and along the State Highway system is accommodating. The North Fork received very little angler participation, as did a relatively inaccessible section of the South Fork (river kilometer 3.0 to 5.5). During 1989, the creel survey program was confined to the most accessible areas (Figure 2).

Angler counts were conducted following a stratified random sampling design. The fishing day was considered 16 hours long (0600-2159 hours) during July and August, 12 hours long (0800-1959 hours) during September, and 8 hours long (1000-1759 hours) during October and November. Each fishing day was stratified into two equal periods.

Counts of anglers took approximately 45 minutes to complete. One count was made during each interview period. A starting time was randomly selected in the first period of a sample day and subsequent counts were spaced a minimum of 4 hours apart. This was done to minimize the covariance between counts in the adjacent periods. Counts were conducted by walking the length of the fishing area as quickly as possible and counting all anglers actively engaged in fishing. Counts were recorded separately for the areas downstream and upstream of the weir. All counts were considered instantaneous (Neuhold and Lu 1957).

Sampling was stratified by weekdays and weekend/holidays. Two sampling times, each 4 hours in duration, were randomly selected from each period on weekend/holidays and three randomly selected weekdays each week.

The creel survey clerk allocated available interview time downstream and upstream of the weir according to the most recent angler count. For example, if one-third of the anglers counted were downstream and two-thirds of the anglers counted were upstream of the weir, then 1 hour was spent in downstream campgrounds and parking areas and 2 hours in campgrounds and parking areas upstream of the weir.

Completed-trip angler interviews were collected from anglers who claimed they were through fishing for the day or had fished the previous day. Information collected during angler interviews consisted of target species, number retained and number released (by species), total hours fished (to the nearest 1/2 hour), terminal gear (bait or artificial; through 15 August only), and residence. Interviews of anglers fishing downstream and/or upstream of the weir were recorded separately.

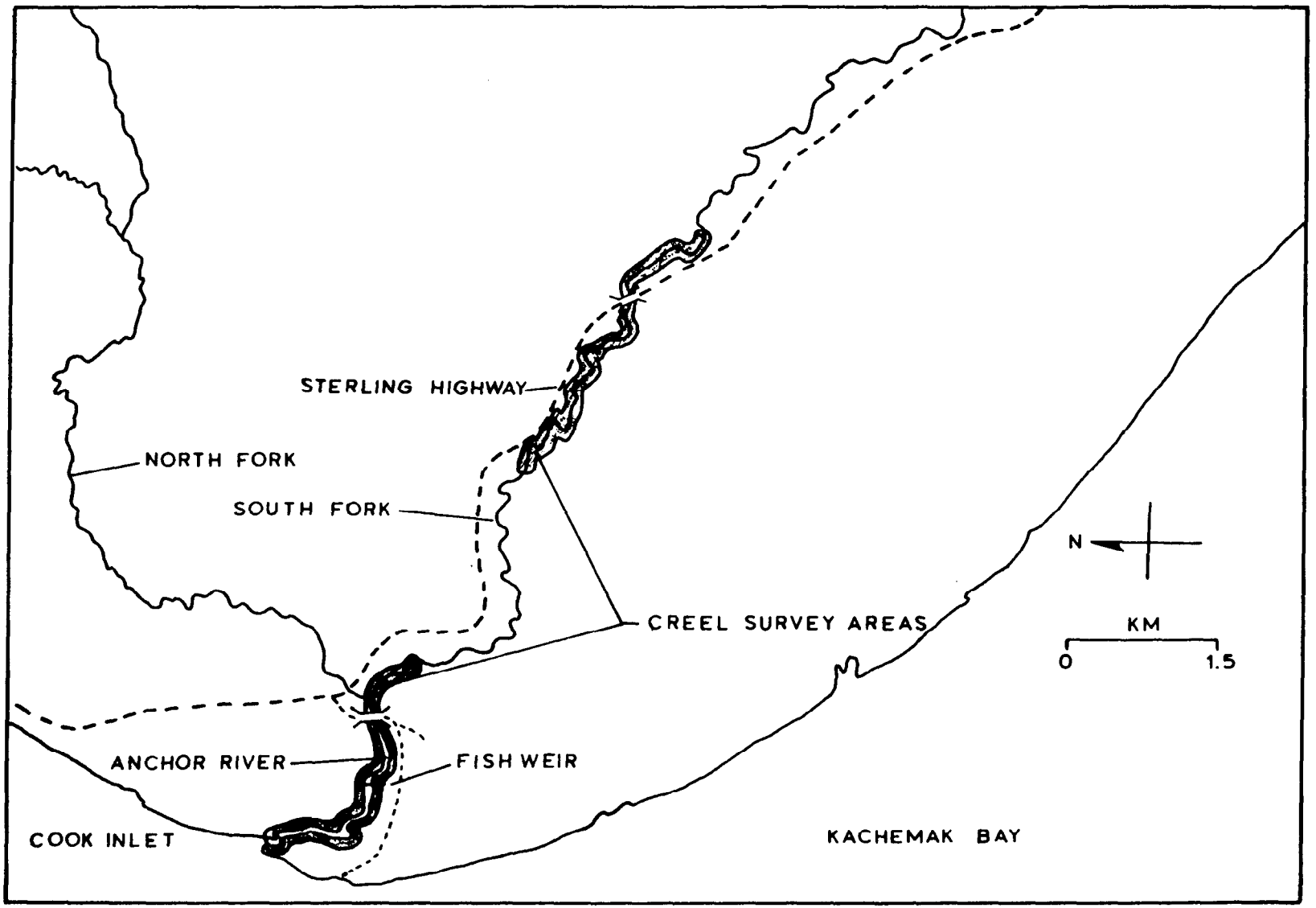


Figure 2. Map of the Anchor River.

Harvest per unit effort (HPUE) was estimated from angler interviews and angler effort (E) was calculated using a stratified random sample design (Scheaffer et al. 1979). Effort in angler-hours and its variance were estimated separately for above and below the weir; weekend/holidays and weekdays; and month as:

$$\hat{E} = \sum_{j=1}^{p} H_j \bar{Y}_j \tag{1}$$

$$V(\hat{E}) = \sum_{j=1}^{p} H_j^2 \, (s_j^2/n_j) \tag{2}$$

where:

| | | |
|---|---|---|
| $\bar{Y}_j$ | = | the mean number of anglers per count in period j, |
| $H_j$ | = | total number of hours fishing possible in period j, |
| p | = | the number of periods per time frame, |
| $s_j^2$ | = | the sample variance for angler counts in period j, and |
| $n_j$ | = | the number of angler counts conducted in period j. |

Mean effort and harvest per angler were calculated for each location and time frame using a two-stage random sample design with days as the primary sample units and anglers as the secondary sample units (Von Geldern and Tomlinson 1973). Arithmetic means were calculated from all completed-trip anglers interviewed at each location and time frame.

The variance of mean effort was estimated as (Sukhatme et al. 1984):

$$V(\bar{f}) = [1-(d/D)]s_B^2/d + [\sum_{i=1}^{d} (s_{wi}^2/m_i)]/dD \tag{3}$$

where:

$$s_{wi}^2 = [\sum_{i=1}^{m_i} (f_{ik}-f_i)^2]/(m_i-1), \tag{4}$$

$$s_B^2 = [\sum_{i=1}^{d} (f_i-\bar{f})^2]/(d-1), \tag{5}$$

and,

| | | |
|---|---|---|
| $\bar{f}$ | = | mean effort per angler during a time frame, |
| d | = | number of days on which sampling was conducted, |
| D | = | number of possible days in a time frame, |

$f_{ik}$ = effort by angler k who fished on day i,

$f_i$ = mean effort for anglers on day i, and

$m_i$ = number of anglers interviewed who fished on day i.

The variance of mean harvest per angler was estimated by substituting individual harvests for efforts in the above formulae.

Harvest per effort, $\bar{h}/\bar{f}$, was computed by weekend/holidays and weekdays for each month.

The variance of harvest per effort is approximated by the variance for a quotient of two random variables (Jessen 1978),

$$\hat{V}(\bar{h}/\bar{f}) = (\bar{h}/\bar{f})^2 \; [(s_h^2/\bar{h}^2) + (s_f^2/\bar{f}^2) - (2rs_hs_f/\overline{hf})] \qquad (6)$$

where:

$\bar{h}$ = mean number of fish harvested per angler,

$\bar{f}$ = as defined previously,

$s_h^2$ = two-stage variance of h,

r = Pearson's correlation coefficient for the $h_{ik}$ and $f_{ik}$, and

$s_f^2$ = two-stage variance of f.

Total harvest (H) and its variance for each location and time frame were computed as (Goodman 1960):

$$\hat{H} = \hat{E}\,(\bar{h}/\bar{f}) \qquad (7)$$

$$\hat{V}(H) = [\hat{E}^2\,\hat{V}\,(\bar{h}/\bar{f})] + [(\bar{h}/\bar{f})^2\,\hat{V}(E)] - [\hat{V}(E)\,\hat{V}(\bar{h}/\bar{f})]. \qquad (8)$$

Major assumptions necessary for the creel survey are:

1. angler counts made during the same day and on consecutive days are independent;

2. no significant fishing effort occurs during the hours not included in the fishing day;

3. interviewed anglers are representative of the total angler population;

4. the number of anglers interviewed during a day is proportional to the effort on that day;

5. fishing effort does not influence catch per unit effort;

6. angler efforts and harvests are normally distributed random variables; and,

7. angler catch and harvest rates do not significantly vary among days within a strata.

Anchor River Weir

A weir was installed approximately 1.5 km upstream from the saltwater terminus of the Anchor River (Figure 2). The weir structure was constructed of both rigid and floating weir panels. The rigid panel pickets were 1.25 cm diameter solid aluminum rods placed in an aluminum channel framework having a 1.25 cm gap between pickets. Channel frames were 3.6 m long by 1.05 m high. The aluminum frames rested against wooden tripods spaced approximately 3.0 m apart. The floating panel pickets were 2.5 cm diameter hollow PVC tubing, capped at each end to provide buoyancy, having a 1.5 cm gap between pickets. Each panel, 4.5 m long, was anchored at one end to a cable and railroad track hinge system laid perpendicular to the stream flow and along the stream bottom. A resistance board fastened to the downstream end of each panel provided the necessary lift to the panels as river water depth varied. Traps were installed to capture both upstream and downstream migrating fish.

All fish passing through the upstream and downstream traps were counted by species and examined for tags. All tagged Dolly Varden char were measured to the nearest 1 millimeter from tip-of-snout to fork-of-tail (fork length). All healthy fish passing through the downstream trap were tagged with Floy FD-68BC anchor tags. Dolly Varden char were anesthetized in a $CO_2$ water bath prior to being tagged or measured.

Biological Sampling

Approximately 5% of the Dolly Varden char immigration were sampled for age (otolith removal), sex, relative maturity (female gonad development), length, weight, and presence of an adipose fin. Relative maturity of each female was determined by using the criteria described by Blackett (1968) (Appendix A1).

Weir samples were chosen randomly by selecting a trap load and sampling all fish from that trap load. Mortalities at the weir and samples from the sport harvest were sampled for age, sex, and length. Age was estimated from otoliths for Dolly Varden and from scales for steelhead/rainbow trout. Three scales were collected from the preferred area[1]. The age of steelhead trout was signified using the European method: 3.2 indicates 3 years of freshwater growth and 2 years of saltwater growth. Occasionally, the freshwater age was not discernible due to the regeneration of a scale, however, the saltwater growth was determinable. In these instances, the letter "R" (signifying

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[1] The left side of the fish approximately three rows above the lateral line and on the diagonal row downward from the posterior insertion of the dorsal fin (Clutter and Whitesel 1956).

regeneration) replaced the freshwater age number. Each spawning check was indicated by the designation "S1" and followed the saltwater age number. Consecutive spawning checks were indicated by "S1S1". Sex determination was based on examination of gonads. Sex was not discernible for live steelhead/rainbow trout. Length was measured as tip-of-snout to fork-of-tail to the nearest 1 millimeter.

These data were used to estimate age composition, sex composition, length frequency, and length-at-age. Age and sex composition were estimated as simple proportions. Letting $P_h$ equal the estimated proportion of age or sex group h, the variance of $P_h$ was estimated by (Scheaffer et al. 1979):

$$\hat{V}(\hat{P}_h) = \hat{P}_h(1-\hat{P}_h)/(n_T-1) \qquad (9)$$

where $n_T$ is the number of otoliths or scales read. Length-frequency was estimated in 50 mm increments.

## RESULTS

### Sport Fishery

A creel survey was conducted in selected areas of the lower 7.5 km of the Anchor River from 3 July to 7 November 1989.

Mean angler counts by period were generally highest during August (Table 2 and Appendix A2). Estimated effort (Table 3) from 3 July through 7 November on the Anchor River was 24,598 angler-hours. Effort peaked during August downstream of the weir and during September upstream of the weir. Over five times as much effort was expended downstream of the weir (20,688 angler hours) as upstream of the weir (3,910 angler-hours).

Daily harvest rates (HPUE) for Dolly Varden char ranged from 0.0 to 0.9 fish per angler-hour (Appendix A3). Monthly harvest rates ranged from 0.0 to 0.6 fish per angler hour (Table 4) with peak harvest and catch rates occurring downstream of the weir during July and upstream of the weir during August. Peak catch rates for steelhead/rainbow trout peaked during October (Table 5).

An estimated 1,615 Dolly Varden char were harvested in the Anchor River from 3 July through 7 November 1989 (Table 6). Most of this harvest occurred during July and August downstream of the weir.

Only 135 of the 1,328 completed trip anglers that were interviewed (10%) harvested Dolly Varden (Table 7). One half of the Dolly Varden harvest was taken by the 25% of the anglers who retained three or more fish (Table 7 and Figure 3).

An estimated 746 steelhead/rainbow trout were caught in the Anchor River from 3 July through 7 November 1989 (Table 6).

Table 2. Summary of mean angler counts, by period, for the sport fishery on the Anchor River, 1 July through 7 November 1989.

| Stratum | July Periods A | July Periods B | August Periods A | August Periods B | September Periods A | September Periods B | October Periods A | October Periods B | November Periods A | November Periods B |
|---|---|---|---|---|---|---|---|---|---|---|
| Below weir weekdays | | | | | | | | | | |
| Number of counts | 12 | 11 | 13 | 13 | 12 | 12 | 13 | 13 | 4 | 4 |
| Mean count | 3.5 | 5.3 | 21.7 | 24.5 | 12.9 | 9.9 | 1.3 | 1.1 | 0.0 | 0.5 |
| Standard error | 1.1 | 1.2 | 4.6 | 3.8 | 4.3 | 2.6 | 0.6 | 0.3 | 0.0 | 0.5 |
| Below weir weekends | | | | | | | | | | |
| Number of counts | 9 | 9 | 8 | 7 | 10 | 10 | 9 | 9 | 2 | 2 |
| Mean count | 3.6 | 8.4 | 28.8 | 34.0 | 22.5 | 22.8 | 2.6 | 3.0 | 1.0 | 1.5 |
| Standard error | 0.8 | 1.5 | 5.9 | 6.1 | 5.5 | 6.8 | 1.0 | 0.7 | 1.0 | 0.5 |
| Above weir weekdays | | | | | | | | | | |
| Number of counts | 11 | 11 | 13 | 13 | 12 | 12 | 13 | 13 | 4 | 4 |
| Mean count | 1.7 | 3.4 | 0.5 | 2.2 | 2.3 | 3.1 | 1.0 | 1.4 | 0.3 | 1.8 |
| Standard error | 0.8 | 0.7 | 0.4 | 0.7 | 1.1 | 1.1 | 0.4 | 0.3 | 0.3 | 0.8 |
| Above weir weekends | | | | | | | | | | |
| Number of counts | 9 | 9 | 8 | 7 | 10 | 10 | 9 | 9 | 2 | 2 |
| Mean count | 0.3 | 2.1 | 2.5 | 5.6 | 5.5 | 8.7 | 2.2 | 1.4 | 2.5 | 0.0 |
| Standard error | 0.2 | 0.8 | 0.9 | 1.2 | 1.1 | 1.7 | 0.8 | 0.6 | 0.5 | 0.0 |

Table 3. Estimated effort (angler-hours) for the sport fishery on the Anchor River, 1 July through 7 November 1989.

| | | | | | | Estimated Effort | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Below Weir | | | Above Weir | | | Total Combined | | |
| Month | We/ Wd[a] | No. Int.[b] | No. Days Pos.[c] | No. Days Smp.[d] | Angler/ Count | Angler Hours | SE[e] | Rel. Prec.[f] | Angler Hours | SE | Rel. Prec. | Angler Hours | SE | Rel. Prec. |
| July | We | 126 | 11 | 9 | 7.2 | 864 | 120 | 27.3% | 176 | 59 | 66.1% | 1,040 | 134 | 25.3% |
| | Wd | 152 | 20 | 12 | 6.8 | 1,404 | 261 | 36.5% | 814 | 168 | 40.4% | 2,218 | 310 | 27.4% |
| | Total | 278 | 31 | 21 | 7.0 | 2,268 | 288 | 24.9% | 990 | 178 | 35.2% | 3,258 | 229 | 13.8% |
| Aug. | We | 217 | 8 | 8 | 35.1 | 4,016 | 545 | 26.6% | 517 | 95 | 36.0% | 4,533 | 553 | 23.9% |
| | Wd | 286 | 23 | 13 | 24.5 | 8,506 | 1,107 | 25.5% | 509 | 143 | 54.9% | 9,015 | 1,116 | 24.3% |
| | Total | 503 | 31 | 21 | 28.5 | 12,522 | 1,234 | 19.3% | 1,026 | 171 | 32.7% | 13,548 | 1,245 | 18.0% |
| Sept. | We | 192 | 10 | 10 | 29.8 | 2,718 | 522 | 37.7% | 852 | 122 | 28.2% | 3,570 | 536 | 29.5% |
| | Wd | 168 | 20 | 12 | 14.1 | 2,740 | 603 | 43.1% | 650 | 179 | 54.0% | 3,390 | 629 | 36.4% |
| | Total | 360 | 30 | 22 | 21.2 | 5,458 | 798 | 28.6% | 1,502 | 217 | 28.3% | 6,960 | 827 | 23.3% |
| Oct. | We | 86 | 9 | 9 | 4.6 | 200 | 43 | 42.4% | 132 | 36 | 54.1% | 332 | 57 | 33.4% |
| | Wd | 67 | 22 | 13 | 2.4 | 210 | 62 | 58.0% | 200 | 44 | 43.3% | 410 | 76 | 36.3% |
| | Total | 153 | 31 | 22 | 3.3 | 410 | 76 | 36.2% | 332 | 57 | 33.8% | 742 | 95 | 25.1% |
| Nov. | We | 16 | 2 | 2 | 2.5 | 20 | 9 | 87.7% | 20 | 4 | 39.2% | 40 | 10 | 48.0% |
| | Wd | 18 | 5 | 4 | 1.3 | 10 | 10 | 196.0% | 40 | 16 | 77.5% | 50 | 19 | 74.0% |
| | Total | 34 | 7 | 6 | 1.7 | 30 | 13 | 87.7% | 60 | 16 | 53.3% | 90 | 21 | 46.0% |
| Total | We | 637 | 40 | 38 | 18.1 | 7,818 | 765 | 19.7% | 1,697 | 169 | 19.4% | 9,515 | 784 | 16.3% |
| | Wd | 691 | 90 | 54 | 11.2 | 12,870 | 1,512 | 23.0% | 2,213 | 288 | 25.5% | 15,083 | 1,320 | 16.8% |
| | Total | 1,328 | 130 | 92 | 14.1 | 20,688 | 1,695 | 16.1% | 3,910 | 334 | 16.7% | 24,598 | 1,536 | 12.2% |

[a] Weekend/Holiday (We) or Weekday (Wd).
[b] Number of completed anglers interviewed.
[c] Number of possible interview days.
[d] Number of interview days sampled.
[e] Standard error.
[f] Relative precision for 95% confidence intervals.

Table 4. Effort and catch (CPUE) and harvest (HPUE) rates (fish per hour), by month, for Dolly Varden char during the sport fishery on the Anchor River, 1 July through 7 November 1989.

| | Effort (hrs)[a] | | Catch | | | | Harvest | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Month Fishery | Mean | SE[b] | Mean | SE | CPUE | SE | Mean | SE | HPUE | SE |
| July | | | | | | | | | | |
| Wkend Above | 2.32 | 0.5835 | 0.727 | 0.5151 | 0.3137 | 0.2287 | 0.212 | 0.1162 | 0.0915 | 0.0556 |
| Wkend Below | 1.87 | 0.0989 | 2.441 | 0.2149 | 1.3027 | 0.1055 | 0.527 | 0.0636 | 0.2812 | 0.0316 |
| Wkend Total | 1.97 | 0.1725 | 1.961 | 0.1786 | 0.9950 | 0.1082 | 0.438 | 0.0543 | 0.2220 | 0.0303 |
| Wkday Above | 2.05 | 0.1969 | 0.219 | 0.1047 | 0.1065 | 0.0531 | 0.109 | 0.0709 | 0.0532 | 0.0352 |
| Wkday Below | 1.98 | 0.1588 | 2.000 | 0.6526 | 1.0086 | 0.3215 | 0.489 | 0.1100 | 0.2464 | 0.0554 |
| Wkday Total | 1.97 | 0.1165 | 1.234 | 0.2970 | 0.6260 | 0.1503 | 0.316 | 0.0773 | 0.1605 | 0.0394 |
| Total | 1.97 | 0.1015 | 1.559 | 0.2107 | 0.7911 | 0.1063 | 0.371 | 0.0539 | 0.1880 | 0.0276 |
| August | | | | | | | | | | |
| Wkend Above | 1.97 | 0.2771 | 1.500 | 0.6582 | 0.7606 | 0.3121 | 0.444 | 0.3982 | 0.2254 | 0.1947 |
| Wkend Below | 3.36 | 0.1510 | 0.191 | 0.0788 | 0.0568 | 0.0234 | 0.045 | 0.0455 | 0.0134 | 0.0135 |
| Wkend Total | 3.24 | 0.1411 | 0.315 | 0.0723 | 0.0973 | 0.0226 | 0.078 | 0.0349 | 0.0240 | 0.0108 |
| Wkday Above | 1.83 | 0.3493 | 2.522 | 1.8569 | 1.3810 | 0.8950 | 1.043 | 1.0582 | 0.5714 | 0.5471 |
| Wkday Below | 3.24 | 0.1647 | 0.350 | 0.1566 | 0.1079 | 0.0490 | 0.141 | 0.0626 | 0.0434 | 0.0196 |
| Wkday Total | 3.11 | 0.1621 | 0.536 | 0.1881 | 0.1725 | 0.0615 | 0.211 | 0.0794 | 0.0679 | 0.0260 |
| Total | 3.16 | 0.1221 | 0.441 | 0.1127 | 0.1393 | 0.0361 | 0.154 | 0.0483 | 0.0485 | 0.0154 |
| September | | | | | | | | | | |
| Wkend Above | 2.53 | 0.3012 | 0.079 | 0.0458 | 0.0313 | 0.0190 | 0.026 | 0.0145 | 0.0104 | 0.0060 |
| Wkend Below | 3.90 | 0.1992 | 0.045 | 0.0238 | 0.0117 | 0.0061 | 0.019 | 0.0148 | 0.0050 | 0.0038 |
| Wkend Total | 3.76 | 0.1835 | 0.132 | 0.0671 | 0.0351 | 0.0176 | 0.028 | 0.1689 | 0.0075 | 0.0045 |
| Wkday Above | 2.10 | 0.5603 | 0.583 | 0.5838 | 0.2772 | 0.2127 | 0.083 | 0.1114 | 0.0396 | 0.0469 |
| Wkday Below | 3.85 | 0.2936 | 0.138 | 0.1001 | 0.0360 | 0.0257 | 0.038 | 0.0183 | 0.0100 | 0.0047 |
| Wkday Total | 3.52 | 0.2577 | 0.095 | 0.0718 | 0.0270 | 0.0020 | 0.038 | 0.0127 | 0.0108 | 0.0035 |
| Total | 3.66 | 0.1592 | 0.116 | 0.0543 | 0.0318 | 0.0147 | 0.032 | 0.0103 | 0.0089 | 0.0028 |

-Continued-

Table 4. (Page 2 of 2).

| | Effort (hrs)[a] | | Catch | | | | Harvest | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Month Fishery | Mean | SE[b] | Mean | SE | CPUE | SE | Mean | SE | HPUE | SE |
| October | | | | | | | | | | |
| Wkend Above | 2.30 | 0.3364 | 2.025 | 0.5017 | 0.8804 | 0.2221 | 0.475 | 0.2202 | 0.2065 | 0.0987 |
| Wkend Below | 2.29 | 0.2345 | 0.435 | 0.3915 | 0.1896 | 0.1624 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Total | 2.30 | 0.2070 | 1.174 | 0.3413 | 0.5114 | 0.1422 | 0.221 | 0.1260 | 0.0962 | 0.0552 |
| Wkday Above | 2.52 | 0.3981 | 1.405 | 0.4755 | 0.5566 | 0.1391 | 0.333 | 0.1503 | 0.1321 | 0.0612 |
| Wkday Below | 2.62 | 0.5828 | 0.440 | 0.7992 | 0.1679 | 0.2792 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Total | 2.50 | 0.2994 | 0.972 | 0.3712 | 0.3889 | 0.1206 | 0.194 | 0.1078 | 0.0778 | 0.0043 |
| Total | 2.39 | 0.1903 | 1.082 | 0.2539 | 0.4530 | 0.0951 | 0.209 | 0.0800 | 0.0874 | 0.0338 |
| November | | | | | | | | | | |
| Wkend Above | 1.79 | 0.4492 | 1.167 | 0.6009 | 0.6512 | 0.1914 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Below | 1.50 | 0.2041 | 0.500 | 0.3536 | 0.3333 | 0.2128 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Total | 1.79 | 0.3820 | 1.647 | 0.8630 | 0.9180 | 0.3708 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Above | 3.07 | 0.2480 | 1.600 | 0.4980 | 0.5217 | 0.1591 | 0.533 | 0.2954 | 0.1739 | 0.1024 |
| Wkday Below | 0.83 | 0.1179 | 0.000 | 0.0000 | 0.0000 | 0.0000 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Total | 2.69 | 0.6365 | 1.333 | 0.4330 | 0.4948 | 0.1664 | 0.444 | 0.2333 | 0.1649 | 0.1032 |
| Total | 2.26 | 0.3370 | 1.486 | 0.4597 | 0.6582 | 0.1810 | 0.229 | 0.1341 | 0.1013 | 0.0628 |

[a] Effort in angler-hours.
[b] Standard Error.

Table 5. Effort and catch (CPUE) and harvest (HPUE) rates (fish per hour), by month, for steelhead/rainbow trout during the sport fishery on the Anchor River, 1 July through 7 November 1989.

| | Effort (hrs)[a] | | Catch | | | | Harvest | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Month Fishery | Mean | SE[b] | Mean | SE | CPUE | SE | Mean | SE | HPUE | SE |
| July | | | | | | | | | | |
| Wkend Above | 2.32 | 0.5835 | 1.242 | 0.5845 | 0.5359 | 0.3088 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Below | 1.87 | 0.0989 | 0.000 | 0.0000 | 0.0000 | 0.0000 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Total | 1.97 | 0.1725 | 0.320 | 0.1349 | 0.1625 | 0.0714 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Above | 2.05 | 0.1969 | 0.031 | 0.0260 | 0.0152 | 0.0129 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Below | 1.98 | 0.1588 | 0.068 | 0.0520 | 0.0344 | 0.0266 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Total | 1.97 | 0.1165 | 0.051 | 0.0299 | 0.0257 | 0.0153 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 1.97 | 0.1015 | 0.171 | 0.0651 | 0.0869 | 0.0337 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| August | | | | | | | | | | |
| Wkend Above | 1.97 | 0.2771 | 0.444 | 0.4875 | 0.2254 | 0.2533 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Below | 3.36 | 0.1510 | 0.015 | 0.0098 | 0.0045 | 0.0029 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Total | 3.24 | 0.1411 | 0.050 | 0.0230 | 0.0155 | 0.0072 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Above | 1.83 | 0.3493 | 0.130 | 0.0956 | 0.0714 | 0.0537 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Below | 3.24 | 0.1647 | 0.004 | 0.0048 | 0.0012 | 0.0015 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Total | 3.11 | 0.1621 | 0.014 | 0.0085 | 0.0045 | 0.0028 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 3.16 | 0.1221 | 0.030 | 0.0097 | 0.0093 | 0.0031 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| September | | | | | | | | | | |
| Wkend Above | 2.53 | 0.3012 | 0.132 | 0.0525 | 0.0521 | 0.0222 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Below | 3.90 | 0.1992 | 0.065 | 0.0324 | 0.0167 | 0.0068 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Total | 3.76 | 0.1835 | 0.137 | 0.0445 | 0.0364 | 0.0119 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Above | 2.10 | 0.5603 | 0.208 | 0.1721 | 0.0990 | 0.0821 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Below | 3.85 | 0.2936 | 0.177 | 0.1051 | 0.0460 | 0.0270 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Total | 3.52 | 0.2577 | 0.114 | 0.0537 | 0.0324 | 0.0151 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 3.66 | 0.1592 | 0.127 | 0.0379 | 0.0347 | 0.0104 | 0.000 | 0.0000 | 0.0000 | 0.0000 |

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Table 5. (Page 2 of 2).

| | Effort (hrs)[a] | | Catch | | | | Harvest | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Month Fishery | Mean | SE[b] | Mean | SE | CPUE | SE | Mean | SE | HPUE | SE |
| October | | | | | | | | | | |
| Wkend Above | 2.30 | 0.3364 | 0.525 | 0.2093 | 0.2283 | 0.0851 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Below | 2.29 | 0.2345 | 0.348 | 0.1686 | 0.1517 | 0.0657 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Total | 2.30 | 0.2070 | 0.430 | 0.1566 | 0.1873 | 0.0643 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Above | 2.52 | 0.3981 | 0.167 | 0.0818 | 0.0660 | 0.0328 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Below | 2.62 | 0.5828 | 0.840 | 0.6719 | 0.3206 | 0.2131 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Total | 2.50 | 0.2994 | 0.389 | 0.1089 | 0.1556 | 0.0412 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 2.39 | 0.1903 | 0.411 | 0.0900 | 0.1722 | 0.0354 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| November | | | | | | | | | | |
| Wkend Above | 1.79 | 0.4492 | 0.417 | 0.1863 | 0.2326 | 0.0671 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Below | 1.50 | 0.2041 | 0.000 | 0.0000 | 0.0000 | 0.0000 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkend Total | 1.79 | 0.3820 | 0.471 | 0.2239 | 0.2623 | 0.0978 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Above | 3.07 | 0.2480 | 0.333 | 0.1606 | 0.1087 | 0.0517 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Below | 0.83 | 0.1179 | 0.000 | 0.0000 | 0.0000 | 0.0000 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Wkday Total | 2.69 | 0.6365 | 0.278 | 0.1105 | 0.1031 | 0.0426 | 0.000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 2.26 | 0.3370 | 0.371 | 0.1235 | 0.1646 | 0.0508 | 0.000 | 0.0000 | 0.0000 | 0.0000 |

[a] Effort in angler-hours.
[b] Standard Error.

Table 6. Estimated catch and harvest, by species, for the sport fishery on the Anchor River, 1 July through 7 November 1989.

| | | We/ | Dolly Varden Char | | | | Coho Salmon | | | | Steelhead/Rainbow Trout | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Month | Fishery | Wd[a] | Catch | SE[b] | Harvest | SE | Catch | SE | Harvest | SE | Catch | SE | Harvest | SE |
| July | | | | | | | | | | | | | | |
| | Below Weir | We | 1,126 | 180.6 | 243 | 43.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| | | Wd | 1,416 | 515.8 | 346 | 99.9 | 0 | 0.0 | 0 | 0.0 | 48 | 37.8 | 0 | 0.0 |
| | Above Weir | We | 55 | 42.2 | 16 | 10.7 | 0 | 0.0 | 0 | 0.0 | 94 | 60.2 | 0 | 0.0 |
| | | Wd | 87 | 45.9 | 43 | 29.4 | 0 | 0.0 | 0 | 0.0 | 12 | 10.6 | 0 | 0.0 |
| | Total | | 2,684 | 550.1 | 648 | 113.3 | 0 | 0.0 | 0 | 0.0 | 154 | 71.9 | 0 | 0.0 |
| August | | | | | | | | | | | | | | |
| | Below Weir | We | 228 | 98.1 | 54 | 54.4 | 582 | 112.9 | 498 | 89.8 | 18 | 11.8 | 0 | 0.0 |
| | | Wd | 918 | 430.3 | 369 | 171.9 | 1,495 | 263.1 | 1,326 | 221.6 | 10 | 12.5 | 0 | 0.0 |
| | Above Weir | We | 393 | 174.3 | 117 | 101.2 | 0 | 0.0 | 0 | 0.0 | 117 | 130.5 | 0 | 0.0 |
| | | Wd | 703 | 479.6 | 291 | 279.4 | 36 | 26.6 | 36 | 26.6 | 36 | 28.2 | 0 | 0.0 |
| | Total | | 2,242 | 674.7 | 831 | 347.6 | 2,113 | 287.5 | 1,860 | 240.6 | 181 | 134.6 | 0 | 0.0 |
| September | | | | | | | | | | | | | | |
| | Below Weir | We | 32 | 17.5 | 14 | 10.4 | 448 | 100.7 | 308 | 68.8 | 45 | 23.7 | 0 | 0.0 |
| | | Wd | 99 | 72.0 | 27 | 13.8 | 564 | 148.8 | 345 | 89.8 | 129 | 77.3 | 0 | 0.0 |
| | Above Weir | We | 27 | 16.4 | 9 | 5.2 | 98 | 29.5 | 71 | 24.0 | 44 | 21.5 | 0 | 0.0 |
| | | Wd | 180 | 141.9 | 26 | 30.2 | 90 | 76.8 | 13 | 17.3 | 64 | 54.3 | 0 | 0.0 |
| | Total | | 338 | 160.9 | 76 | 35.2 | 1,200 | 197.6 | 737 | 116.9 | 279 | 99.8 | 0 | 0.0 |
| October | | | | | | | | | | | | | | |
| | Below Weir | We | 38 | 32.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 30 | 14.4 | 0 | 0.0 |
| | | Wd | 35 | 57.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 67 | 47.2 | 0 | 0.0 |
| | Above Weir | We | 116 | 42.7 | 27 | 14.6 | 0 | 0.0 | 0 | 0.0 | 30 | 14.1 | 0 | 0.0 |
| | | Wd | 111 | 36.6 | 26 | 13.3 | 0 | 0.0 | 0 | 0.0 | 13 | 7.0 | 0 | 0.0 |
| | Total | | 300 | 86.5 | 53 | 19.8 | 0 | 0.0 | 0 | 0.0 | 140 | 51.8 | 0 | 0.0 |

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Table 6. (Page 2 of 2).

| Month | Fishery | We/ Wd[a] | Dolly Varden Char Catch | SE[b] | Harvest | SE | Coho Salmon Catch | SE | Harvest | SE | Steelhead/Rainbow Trout Catch | SE | Harvest | SE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| November | | | | | | | | | | | | | | |
| | Below Weir | We | 7 | 4.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| | | Wd | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| | Above Weir | We | 13 | 4.6 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 5 | 1.6 | 0 | 0.0 |
| | | Wd | 21 | 10.1 | 7 | 4.7 | 0 | 0.0 | 0 | 0.0 | 4 | 2.6 | 0 | 0.0 |
| | Total | | 41 | 12.1 | 7 | 4.7 | 0 | 0.0 | 0 | 0.0 | 9 | 3.0 | 0 | 0.0 |
| Season Total | | | | | | | | | | | | | | |
| | Below Weir | We | 1,431 | 208.9 | 311 | 70.3 | 1,030 | 151.3 | 806 | 113.1 | 93 | 30.1 | 0 | 0.0 |
| | | Wd | 2,468 | 441.2 | 742 | 199.3 | 2,059 | 302.3 | 1,671 | 239.1 | 254 | 98.9 | 0 | 0.0 |
| | Above Weir | We | 604 | 185.1 | 169 | 102.9 | 98 | 29.5 | 71 | 24.0 | 290 | 146.0 | 0 | 0.0 |
| | | Wd | 1,102 | 504.1 | 393 | 282.9 | 126 | 81.3 | 49 | 31.7 | 129 | 62.5 | 0 | 0.0 |
| | Total | | 5,605 | 725.7 | 1,615 | 367.8 | 3,313 | 348.9 | 2,597 | 267.5 | 746 | 189.5 | 0 | 0.0 |

[a] Weekend/holiday (We) or Weekday (Wd).
[b] Standard Error.

Table 7. Harvest of Dolly Varden from completed-trip anglers during the period 3 July through 7 November 1989.

| Daily Harvest | Anglers Interviewed | | Harvest | | Cumulative Harvest (%) |
|---|---|---|---|---|---|
| | No. | Percent | No. | Percent | |
| 0 | 1,193 | 89.8 | 0 | 0.0 | 0.0 |
| 1 | 68 | 5.1 | 68 | 25.6 | 25.6 |
| 2 | 33 | 2.5 | 66 | 24.8 | 50.4 |
| 3 | 8 | 0.6 | 24 | 9.0 | 59.4 |
| 4 | 10 | 0.8 | 40 | 15.0 | 74.4 |
| 5 | 10 | 0.8 | 50 | 18.8 | 93.2 |
| 6[a] | 6 | 0.5 | 18 | 6.8 | 100.0 |
| Total: | 1,328 | | 266 | | |

[a] The daily bag limit for Dolly Varden on the Anchor River is only five fish.

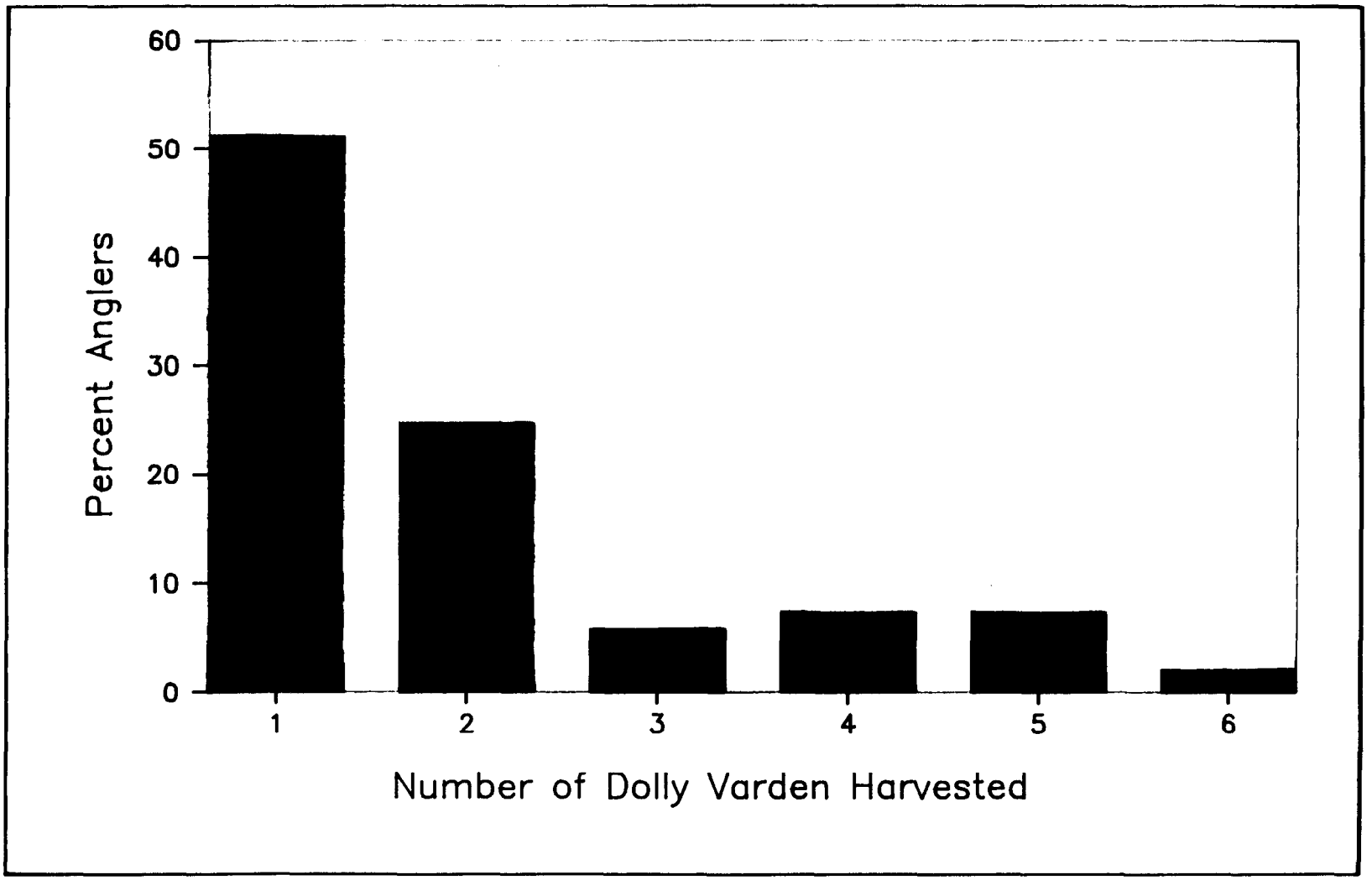


Figure 3. Percentage of Anchor River anglers harvesting from one to six Dolly Varden during the period 3 July through 7 November.

Demographic data collected during angler interviews (Appendix A4 and Table 8) indicated that 58% of all anglers were residents. Of these resident anglers, 45% lived within 35 km of Anchor Point. Of the anglers interviewed during the time bait was an option, 89% did not use bait.

Anchor River Weir

The Anchor River weir was in continual operation from 4 July through 17 September 1989. On 17 September, high river water levels submerged the floating weir panels and occasionally exceeded the tops of the rigid panels. Rigid pickets were removed from their frameworks on several occasions to minimize structural damage. Fish migration counts both upstream and downstream were compromised a total of 26 days from 17 September through 6 November and fish counts after 17 September are biased low. The weir was dismantled on 7 November.

A total of 11,384 Dolly Varden char approximately 200 mm or greater in length were passed upstream of the Anchor River weir (Appendix A5). The peak of the immigration occurred in late July, with 50% of the run having passed the weir by 27 July (Figure 4). Significant immigration of potential spawners had concluded well before 17 September and the abundance of immigrating fish is accurate. The timing of immigrating Dolly Varden during 1989 was consistent with the timing of the 1988 immigration (Larson and Balland 1989), and in both years, the immigration had essentially concluded by mid August.

A total of 314 live Dolly Varden char 200 mm or greater migrated through the downstream trap of the Anchor River weir. Of these, 267 fish were tagged (Appendix A6). Ninety-six percent of all tagged fish were less than 350 mm in length (Table 9).

A total of 170 Dolly Varden char were found dead in the downstream trap or along the upstream side of the weir face (Table 9). Some fish exhibited no external or internal injuries to adduce a cause of death, however, most displayed apparent hook wounds from the sport fishery.

A total of 46 Dolly Varden char tagged from 1987 through 1988 were recovered at the Anchor River weir (Appendix A7) in 1989. One fish was originally tagged on the Ninilchik River while all others were tagged on the Anchor River.

A total of 769 steelhead/rainbow trout were counted passing upstream of the Anchor River weir from 4 July through 7 November (Appendix A5). This count does not accurately reflect the total adult population returning to the Anchor River. High river water conditions prevented the upstream trap from intercepting all immigrating fish after 17 September.

Biological Data

Dolly Varden Char:

A total of 655 fish were sampled during the immigration through the weir. None of these fish were missing an adipose fin.

Table 8. Summary of completed angler responses to questions on the use of terminal tackle and residency, 1989.

| | Terminal Tackle Used by Interviewed Anglers | | | | Residency | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Resident | | | Non Resident |
| | Bait[a] Only | Lures Only | Both Bait and Lures | Total | Local[b] | Non Local[c] | Total | Total |
| Responses: | 98 (7%) | 1,209 (89%) | 55 (4%) | 1,362 | 351 (45%) | 430 (55%) | 781 (58%) | 572 (42%) |

[a] Use of bait prohibited from 15 August through 31 December.
[b] Resident angler living less than 35 km from Anchor Point.
[c] Resident angler living greater than 35 km from Anchor Point.

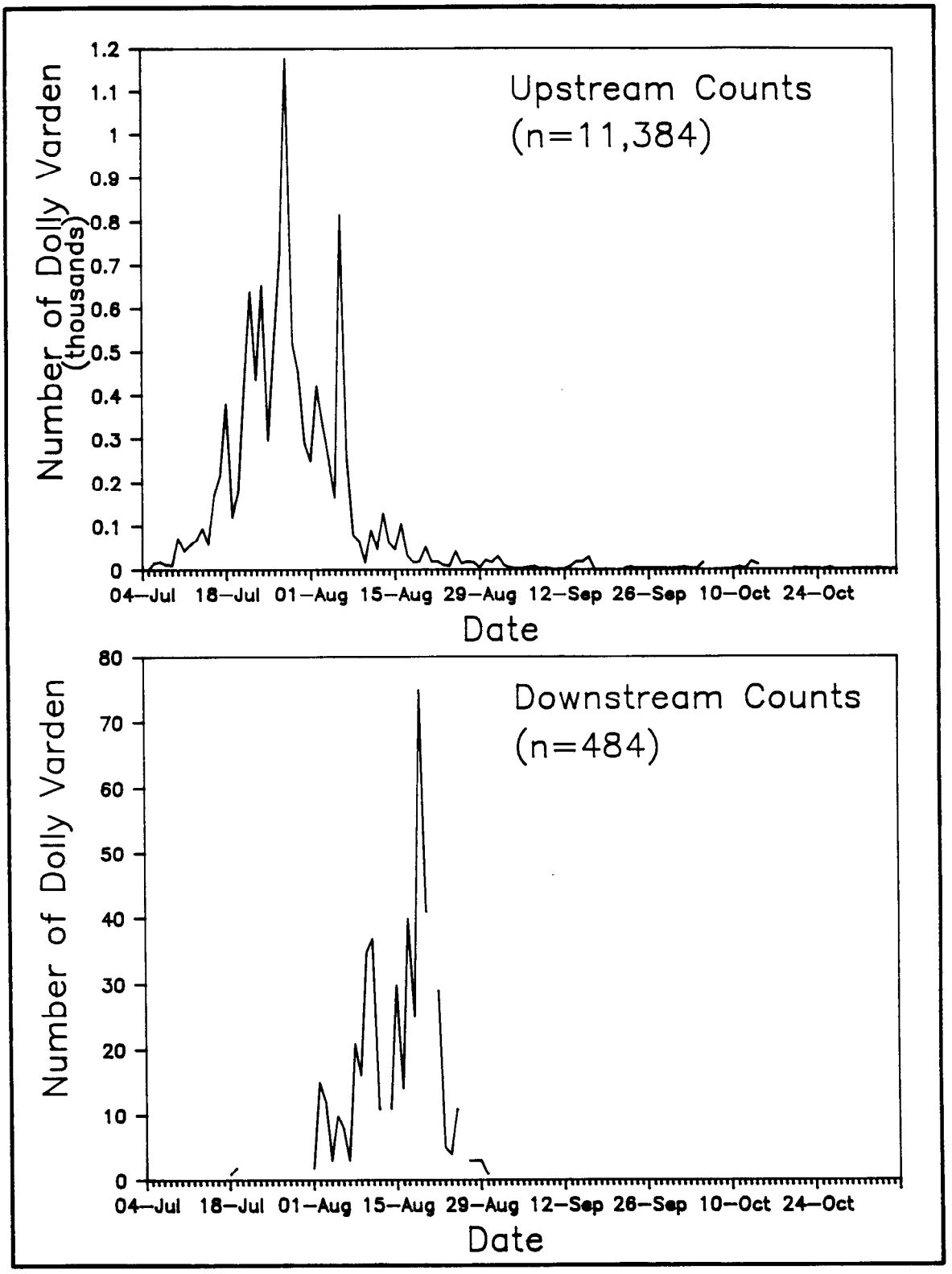


Figure 4. Counts of Dolly Varden char passing the Anchor River weir, 1989.

Table 9. Length frequency comparison of Dolly Varden char sampled passing upstream of the Anchor River weir, in the sport harvest, from fish mortalities accumulated along the weir face, and from fish tagged passing downstream of the weir, 1989.

| Length Range | Upstream Trap | | Sport Harvest | | Mortalities | | Tagged Fish | |
|---|---|---|---|---|---|---|---|---|
| | count | % | count | % | count | % | count | % |
| <200 | 2 | 0 | 0 | 0 | 3 | 2 | 0 | 0 |
| 200-249 | 67 | 10 | 1 | 2 | 31 | 18 | 119 | 44 |
| 250-299 | 92 | 14 | 2 | 3 | 27 | 16 | 73 | 28 |
| 300-349 | 215 | 33 | 28 | 44 | 88 | 52 | 64 | 24 |
| 350-399 | 98 | 15 | 13 | 21 | 11 | 6 | 7 | 3 |
| 400-449 | 109 | 17 | 10 | 16 | 9 | 5 | 3 | 1 |
| 450-499 | 53 | 8 | 6 | 10 | 1 | 1 | 1 | 0 |
| 500> | 19 | 3 | 3 | 4 | 0 | 0 | 0 | 0 |
| Totals: | 655 | 100% | 63 | 100% | 170 | 100% | 267 | 100% |

Dolly Varden char analyzed for age from the immigration through the weir (625 fish) and sport fishery (60 fish) ranged in age from 2 to 11 years (Appendix A8 and Table 10). The age composition between weir and sport fishery samples was not significantly different ($P > 0.10$). Age 6 fish were most common in both the sport harvest and in the weir samples. Dolly Varden sampled from the weir indicated that there are three major age groups represented by each 50 mm length interval (Table 11). Fish in the 350-399 mm length interval were scarce, particularly age 6 and 7 fish. Male Dolly Varden char were predominantly age 4 and females predominantly age 6 (Figure 5).

Sex was determined on 632 immigrating Dolly Varden char (Appendix A9). A total of 401 fish were females and 231 males. The ratio of females to males did not change significantly ($P > 0.05$) over time.

The predominant 50 mm length range for Dolly Varden sampled from the sport harvest, mortalities collected at the weir, and immigrants collected in the upstream trap was 300-349 mm, while the 200-249 mm length range was most representative of fish tagged while passing downstream of the weir (Figure 6). Although age composition between the sport harvest and immigration through the weir (Table 10) did not significantly vary, length composition did significantly vary (Kolmogorov-Smirnov statistic: $D = 0.24$ and $P < 0.01$) (Figure 6 and Table 9). Virtually the entire sport harvest (95%) consisted of fish greater than 300 mm fork length, while fish greater than 300 mm fork length comprised only 76% of the total immigration through the weir. Individual fish lengths varied significantly ($P < 0.01$) by period during immigration (upstream trap) and emigration (downstream trap, tagged), but not in the sport harvest or with injured fish recovered on the weir from upstream (Appendix A10 and Figure 7). Of the 170 injured fish returning downstream to the weir, 103 (61%) were diagnosed as having hook wounds, 19 (11%) predator injuries, and 46 (27%) died from unknown causes.

The mean length of immigrating Dolly Varden char sampled (655 fish) at the weir changed significantly (ANOVA: $F = 30.5$, $P < 0.001$) over time (Figure 8). The mean length decreased each week from the first week of July through 18 August and then increased from 19 August through 4 November. The increase in mean length during the last period (26 August-4 November) was the result of post spawners appearing at the weir. These fish may be Anchor River spawners that had immigrated upstream of the weir at an earlier time and later washed downstream of the weir during a high water period, ultimately passing through the upstream trap once again. Or, these fish may be spawners from other river systems and were immigrating to the Anchor River to overwinter.

Mean length-at-age between immigrating spawners and nonspawners was significantly different ($P < 0.05$), spawners being larger than nonspawners (Table 12). The proportion of immigrating Dolly Varden nonspawners (female maturity index code 1) and spawners (female maturity index code 2) changed significantly ($P < 0.05$) over time (Table 13 and Figures 8 through 10). Nonspawners increased in abundance while spawners decreased each week through 25 August. From 26 August through 4 November, the number of nonspawners decreased while spawners increased. Virtually all fish greater than 360 mm in fork length were spawners, and fish less than 290 mm were nonspawners. Most fish between 290 mm and 360 mm were spawners (Table 14).

Table 10. Age and sex compositions of Dolly Varden char collected at the weir site and in the sport harvest on the Anchor River during 1989.

| Component | Age Group 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Weir Samples (Upstream Trap) | | | | | | | | | | |
| Male | | | | | | | | | | |
| Percent | 0.9 | 9.1 | 31.0 | 26.3 | 25.4 | 6.0 | 1.3 | 0.0 | 0.0 | 41.1 |
| Sample Size | 2 | 21 | 72 | 61 | 59 | 14 | 3 | 0 | 0 | 232 |
| Female | | | | | | | | | | |
| Percent | 0.5 | 5.9 | 20.6 | 24.9 | 34.1 | 10.9 | 2.5 | 0.3 | 0.3 | 59.0 |
| Sample Size | 2 | 23 | 81 | 98 | 134 | 43 | 10 | 1 | 1 | 393 |
| Sexes Combined | | | | | | | | | | |
| Percent | 0.6 | 7.0 | 24.5 | 25.4 | 30.9 | 9.1 | 2.1 | 0.2 | 0.2 | 100.0 |
| Sample Size | 4 | 44 | 153 | 159 | 193 | 57 | 13 | 1 | 1 | 625 |
| Sport Harvest | | | | | | | | | | |
| Male | | | | | | | | | | |
| Percent | 0.0 | 3.5 | 34.5 | 37.9 | 24.1 | 0.0 | 0.0 | 0.0 | 0.0 | 48.3 |
| Sample Size | 0 | 1 | 10 | 11 | 7 | 0 | 0 | 0 | 0 | 29 |
| Female | | | | | | | | | | |
| Percent | 0.0 | 9.7 | 25.8 | 12.9 | 38.7 | 9.7 | 3.2 | 0.0 | 0.0 | 51.7 |
| Sample Size | 0 | 3 | 8 | 4 | 12 | 3 | 1 | 0 | 0 | 31 |
| Sexes Combined | | | | | | | | | | |
| Percent | 0.0 | 6.7 | 30.0 | 25.0 | 31.6 | 5.0 | 1.7 | 0.0 | 0.0 | 100.0 |
| Sample Size | 0 | 4 | 18 | 15 | 19 | 3 | 1 | 0 | 0 | 60 |

Table 11. Age frequency by fork length ranges of Dolly Varden char sampled from the upstream trap of the Anchor River fish weir during 1989.

| Length Range (mm) | Age Group 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| <200 | | | 1 | | 1 | | | | | 2 | (0.3%) |
| 200-249 | 3 | 32 | 21 | 7 | 3 | | | | | 66 | (11.2%) |
| 250-299 | 1 | 9 | 38 | 15 | 19 | 5 | | | | 87 | (14.8%) |
| 300-349 | | 3 | 80 | 68 | 49 | 11 | 1 | | | 212 | (36.0%) |
| 350-399 | | | 11 | 36 | 7 | 1 | | | | 55 | (9.3%) |
| 400-449 | | | 2 | 27 | 58 | 12 | 3 | | | 102 | (17.4%) |
| >450 | | | | 7 | 26 | 22 | 8 | 1 | 1 | 65 | (11.0%) |
| | | | | | | | | | Total: | 589 | (100.0%) |

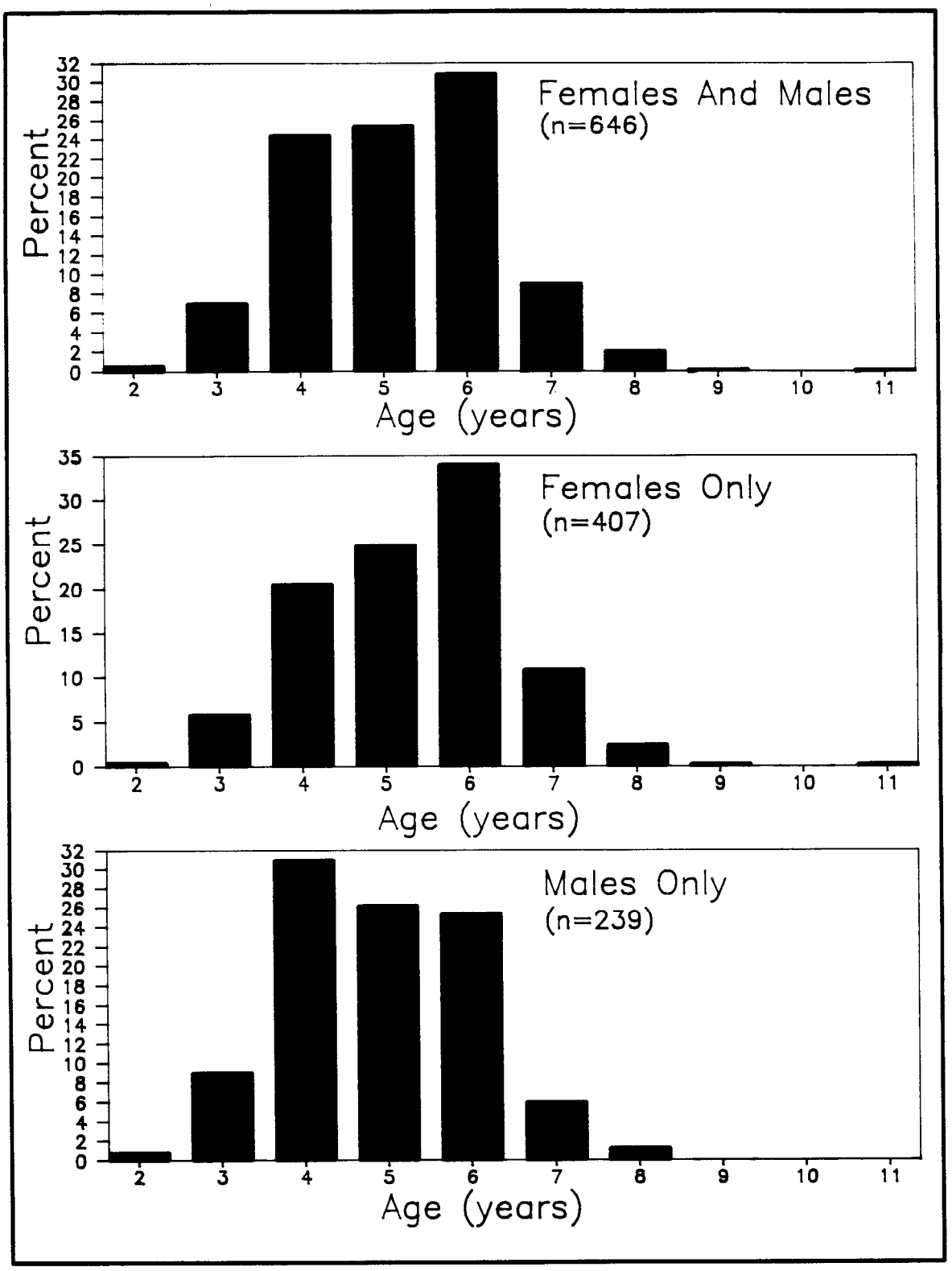


Figure 5. Age and sex composition of Dolly Varden sampled passing upstream through the Anchor River weir, 1989.

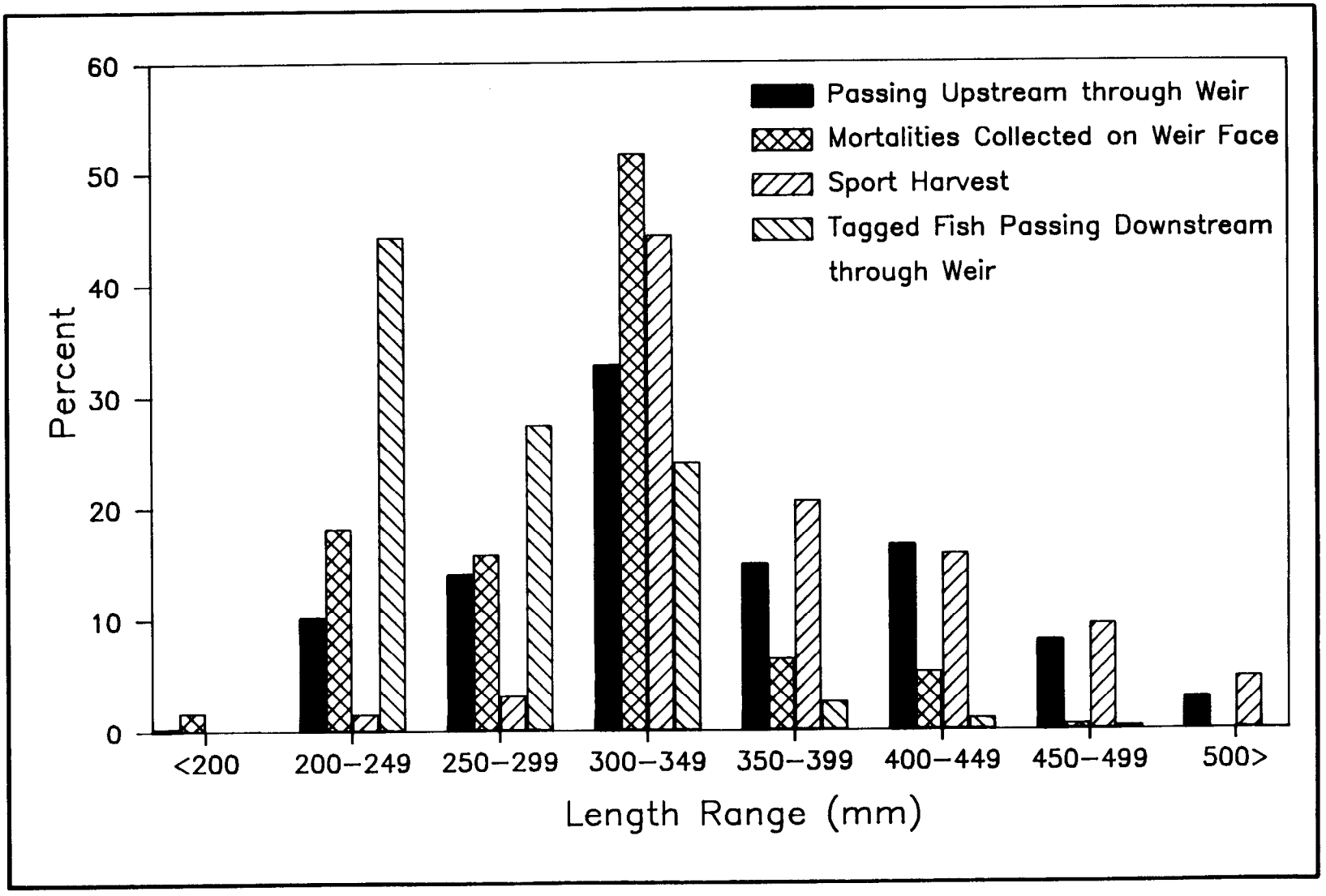


Figure 6. Length frequencies of Anchor River Dolly Varden char sampled from various sources, 1989.

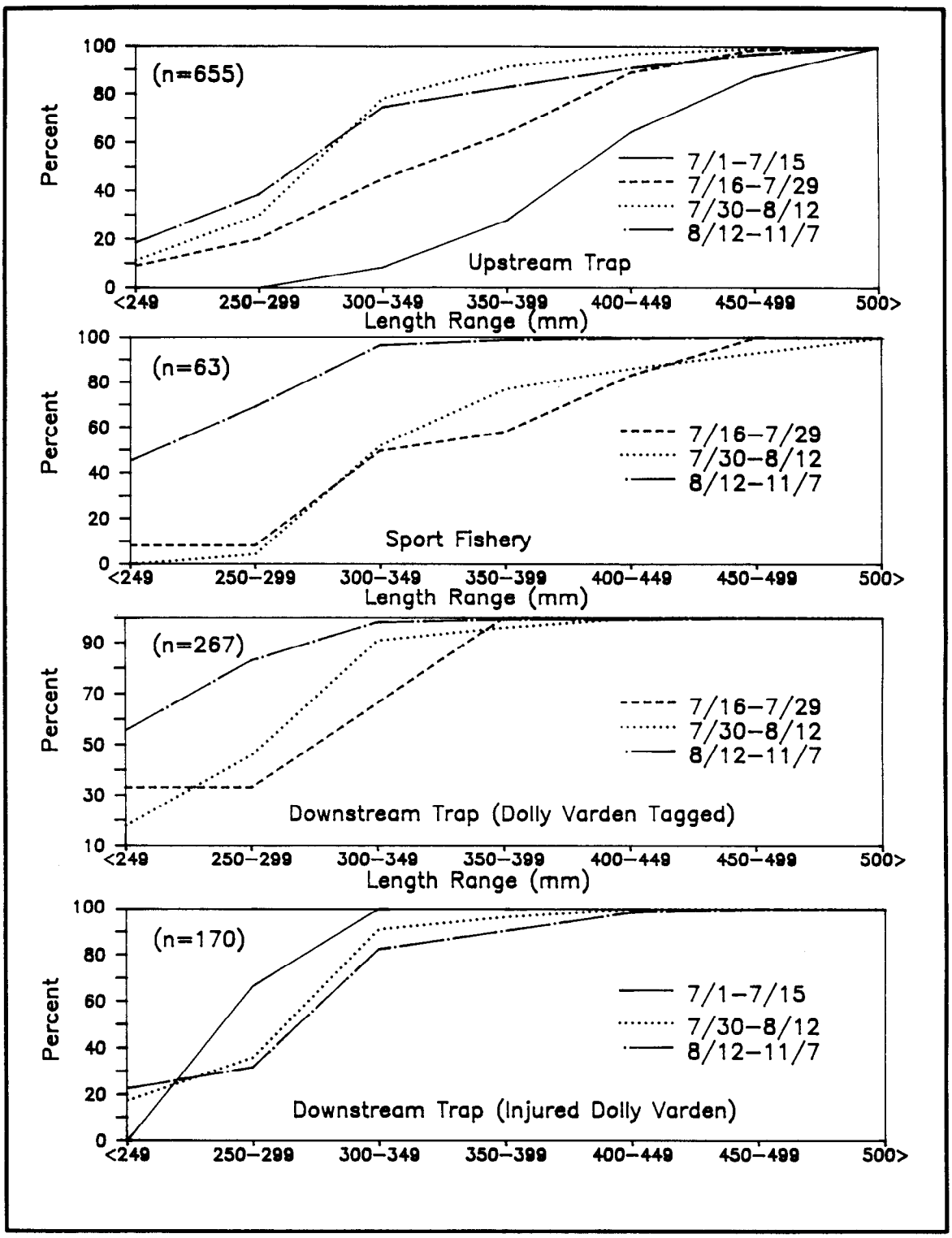


Figure 7. Anchor River Dolly Varden char cumulative length range comparisons by location and period, 1989.

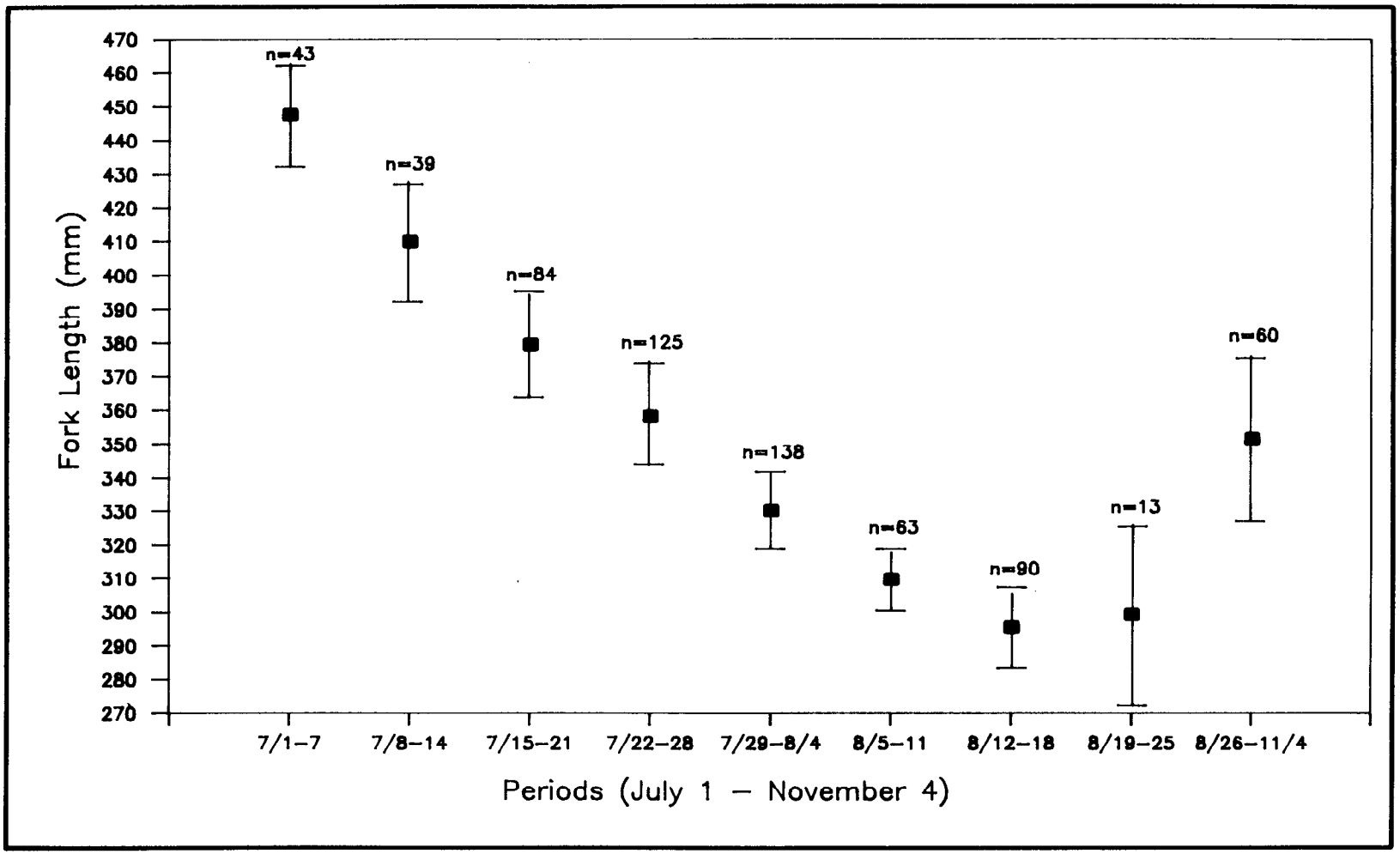


Figure 8. Mean length by period with 95% confidence intervals from Dolly Varden char sampled moving upstream through the Anchor River weir, 1989.

Table 12. Mean length (mm) by age group and sexual maturity of Dolly Varden char collected at the Anchor River weir site, 1989.

| | Age Group | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Component | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Nonspawner | | | | | | | | |
| Mean Length | 225 | 235 | 285 | 306 | 287 | 290 | | |
| Standard Error | 2 | 30 | 41 | 41 | 51 | | | |
| Sample Size | 2 | 21 | 50 | 24 | 13 | 1 | | |
| Spawner | | | | | | | | |
| Mean Length | | | 344 | 398 | 400 | 428 | 463 | 600 |
| Standard Error | | | 32 | 49 | 56 | 72 | 22 | |
| Sample Size | | | 11 | 39 | 82 | 35 | 7 | 1 |

Table 13. Female Dolly Varden char gonad maturity from fish sampled passing upstream through the Anchor River fish weir by sample period, 1989.

| PERIOD | Female Maturity Index[a] 1 | 2 | 3 | 4 | 5 | Sample Size |
|---|---|---|---|---|---|---|
| 7/1-7/7 | 0 (0%) | 23 (68%) | 0 (0%) | 0 (0%) | 11 (32%) | 34 |
| 7/8-7/1 | 2 (11%) | 12 (63%) | 0 (0%) | 0 (0%) | 5 (26%) | 19 |
| 7/15-7/21 | 16 (27%) | 35 (58%) | 0 (0%) | 0 (0%) | 9 (15%) | 60 |
| 7/22-7/28 | 22 (29%) | 41 (55%) | 0 (0%) | 0 (0%) | 12 (16%) | 75 |
| 7/29-8/3 | 27 (36%) | 34 (45%) | 0 (0%) | 0 (0%) | 14 (19%) | 75 |
| 8/4-8/11 | 17 (33%) | 20 (38%) | 0 (0%) | 0 (0%) | 15 (29%) | 52 |
| 8/12-8/18 | 16 (41%) | 11 (28%) | 2 (5%) | 0 (0%) | 10 (26%) | 39 |
| 8/19-8/25 | 6 (55%) | 3 (27%) | 0 (0%) | 0 (0%) | 2 (18%) | 11 |
| 8/26-11/4 | 7 (19%) | 0 (0%) | 2 (6%) | 14(39%) | 13 (36%) | 36 |
| Totals: | 113 | 179 | 4 | 14 | 91 | 401 |

[a] Maturity Index Codes:
1 = immature female with egg diameter less than 0.90 mm,
2 = mature female with egg diameter greater than 1.75 mm,
3 = completely mature female (eggs easily stripped),
4 = completely spawned female,
5 = immature female but shows development, egg diameter greater than 0.90 mm and less than 1.75 mm.

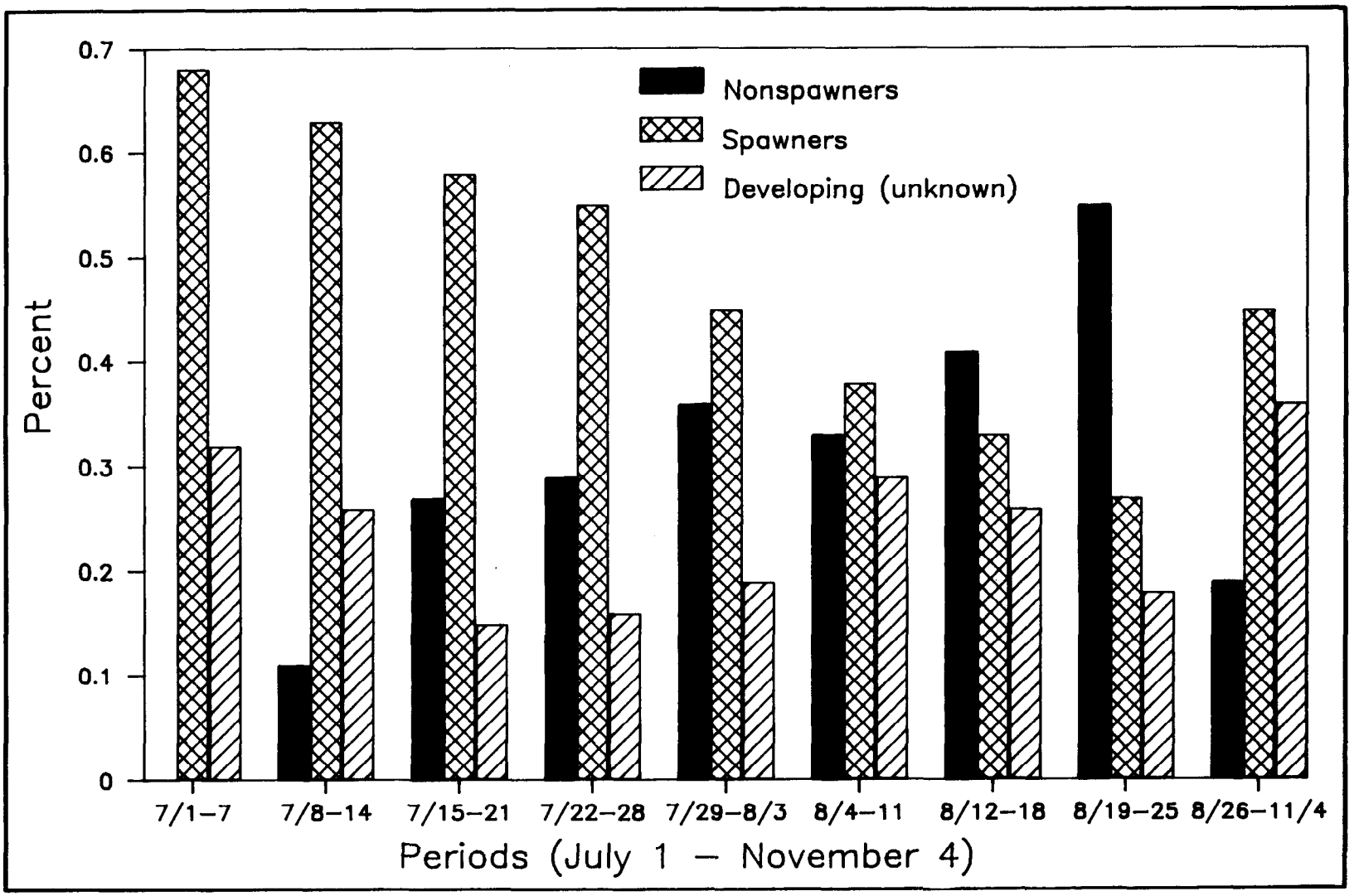


Figure 9. Female Dolly Varden char gonad development determined from fish sampled, by period, passing upstream through the Anchor River weir, 1989.

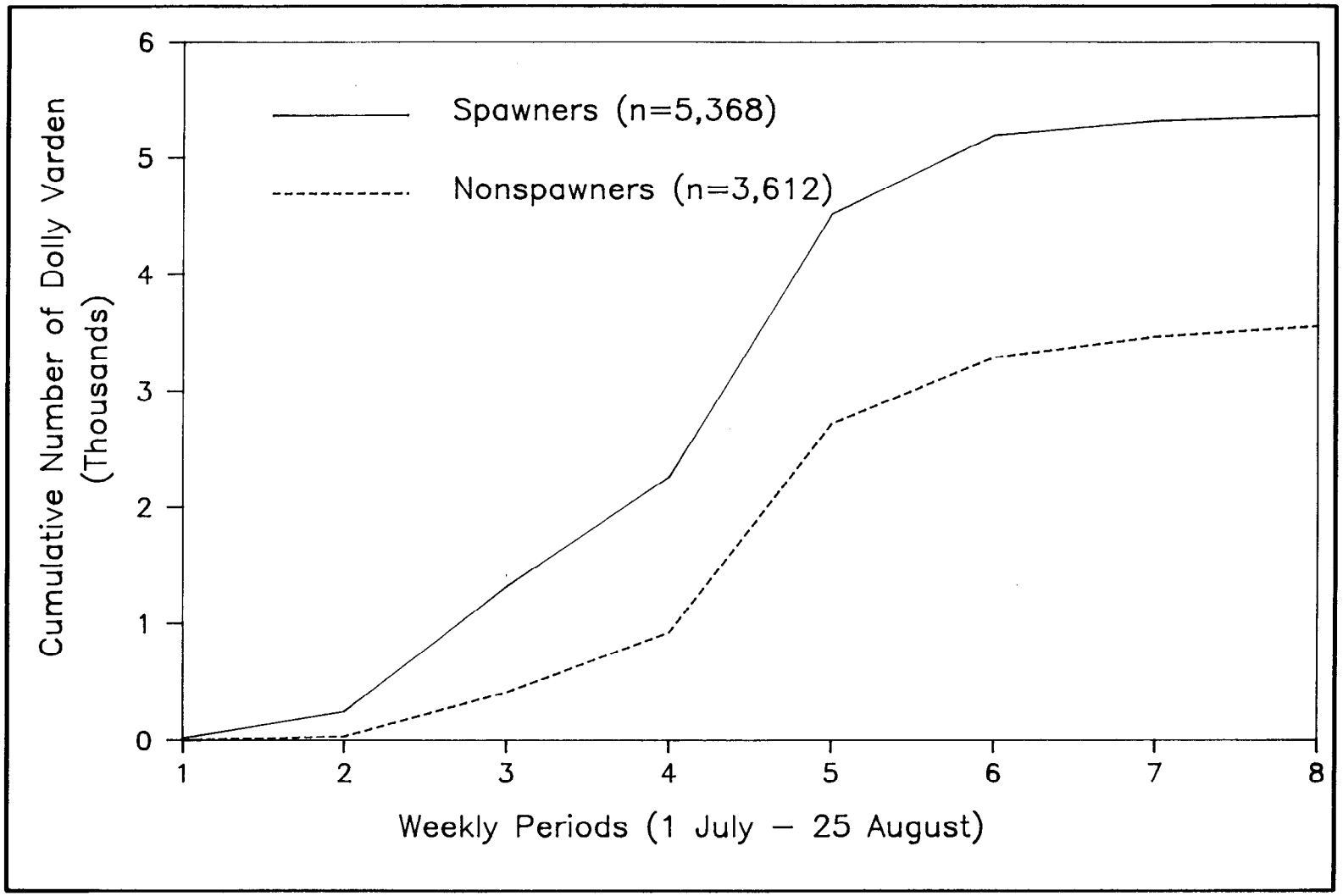


**Figure 10.** Cumulative frequency of spawner and nonspawner Dolly Varden char passing upstream of the Anchor River weir by weekly period, 1989.

Table 14. Percent mature Dolly Varden females by period and length class, 1989.

| Length Class (mm) | Period 7/1-7/14 % | (n) | 7/15-7/28 % | (n) | 7/29-8/11 % | (n) | 8/12-8/26 % | (n) |
|---|---|---|---|---|---|---|---|---|
| 200-289 | - | - | - | - | 0 | (21) | 6 | (16) |
| 290-359 | 0 | (2) | 64 | (11) | 57 | (49) | 79 | (19) |
| 360-560 | 100 | (35) | 99 | (74) | 92 | (26) | - | - |
| Total | | 37 | | 85 | | 96 | | 35 |

Two-way analysis of variance was used to test for interactions between size at age and method of capture. The SAS procedure for general linear models, PROC GLM, was used as the design was unbalanced, i.e. sample sizes were not equal for all gears and ages. The analysis showed that there is a significant interaction ($p < 0.001$) for mean length-at-age between age and gear type. Char sampled from the fishery were larger than those sampled at the weir, except at age 5. Those sampled from the weir face were smaller at ages 5-7 than those taken in the upstream trap (Table 15 and Figure 11).

Annual growth in fork length was estimated from recaptured Dolly Varden that returned at least one winter after being tagged (Appendix A11). Fish originally tagged in the 250-299 mm length range showed the most growth, approximately 120 mm, while most growth from other length ranges varied from 50-80 mm (Figure 12).

Approximately 17% of the 1987 immigration and 20% of the 1988 immigration were tagged (Larson et al. 1988, Larson and Balland 1989). It is assumed that fish were tagged in proportion to their abundance by size. Fish tagged in 1987 and recaptured in 1988 showed no significant differences ($P > 0.05$) in the proportions of fish tagged to fish recovered, however, there was a significant difference ($P < 0.05$) in these proportions between 1988 and 1989 (Appendix A11 and Figure 13). During the period 1988 to 1989, recaptures of fish that were 300 mm or larger when originally tagged were significantly greater than recaptures of fish that were 300 mm or smaller when originally tagged. Fish less than 300 mm are likely to be nonspawners, of mixed stock, and therefore unlikely to have originated from the Anchor River. Upon maturity, these fish will return to their natal river systems to spawn.

Some other explanations which could have influenced the lower return of fish which were less than 300 mm when tagged are as follows. In 1988, anglers caught an estimated 16,854 Dolly Varden from a total population of approximately 18,000 fish (Appendix B1). While the 1988 Dolly Varden harvest was estimated at just over 4,000 fish, hook and release mortality may have been biased towards fish less than 300 mm fork length. Another possible explanation includes differences in fish tags and fish handling procedures between 1987 and 1988. Fingerling tags (Floy FTF-69) and $CO_2$ as an anesthetizing agent were used in 1987, whereas, anchor tags (Floy FD-67) and little or no anesthetizing agent were used in 1988.

Steelhead/Rainbow Trout:

Steelhead/rainbow trout immigrating through the Anchor River weir were analyzed for age and length composition (Table 16). A total of 116 fish provided 105 age determinations from 16 age groups. The age of steelhead/rainbow trout was primarily 3.2. Mean length-at-age of age 3.2 steelhead/rainbow trout was approximately 670 mm.

Table 15. Mean length (mm) by age group of Dolly Varden char collected at the weir site and in the sport harvest on the Anchor River during 1989.

| | Age Group | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Component | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 |
| Weir | | | | | | | | | |
| Mean Length | 226 | 239 | 301 | 351 | 381 | 413 | 450 | 600 | 495 |
| Standard Error | 10 | 5 | 3 | 4 | 5 | 10 | 16 | | |
| Sample Size | 4 | 44 | 153 | 160 | 193 | 57 | 13 | 1 | 1 |
| Sport Harvest | | | | | | | | | |
| Mean Length | | 335 | 336 | 348 | 412 | 463 | 370 | | |
| Standard Error | | 43 | 7 | 11 | 15 | 37 | | | |
| Sample Size | 0 | 4 | 18 | 15 | 19 | 3 | 1 | 0 | 0 |

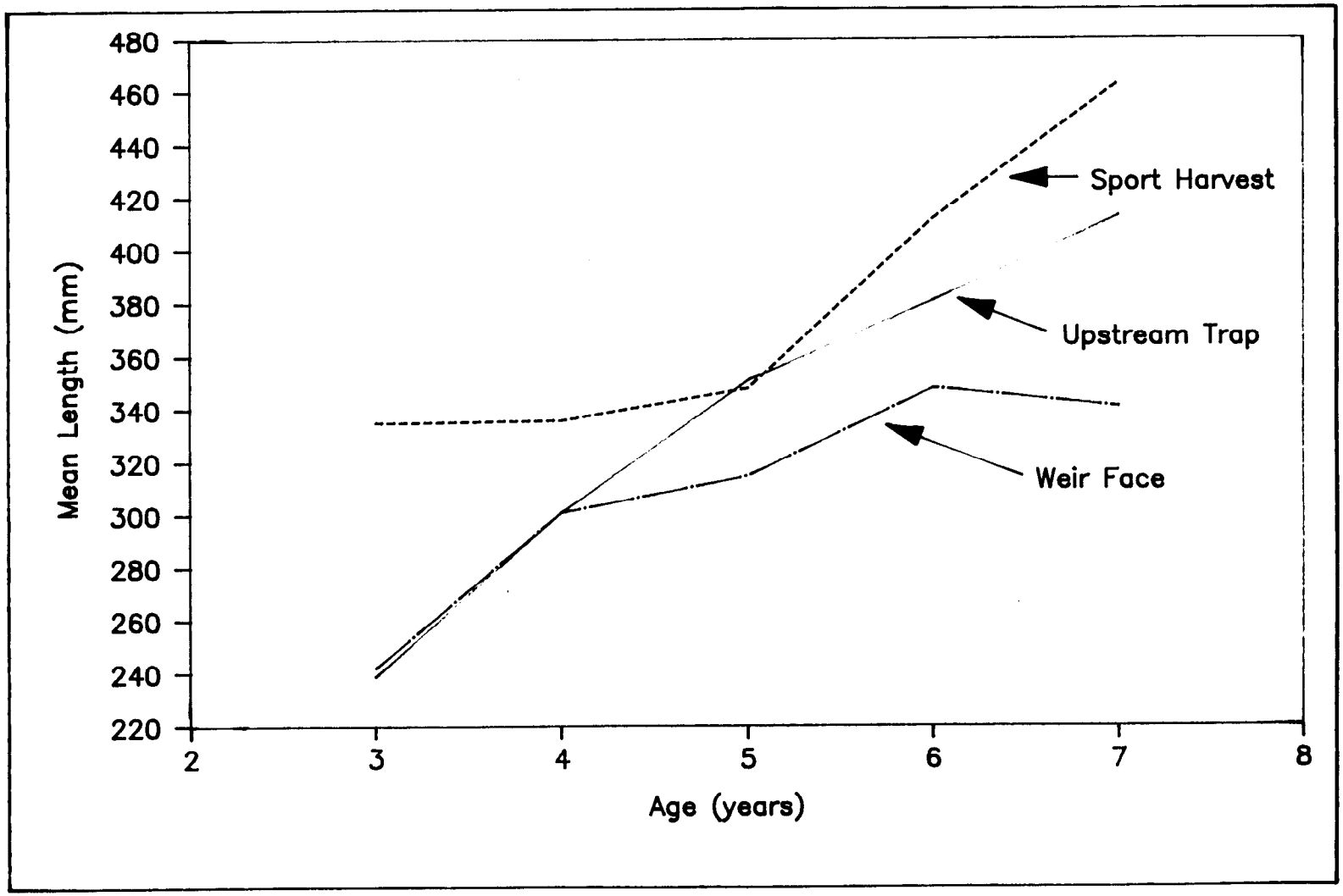


Figure 11. Dolly Varden mean length-at-age from fish sampled in the sport fishery, upstream trap, and weir face of the Anchor River during 1989.

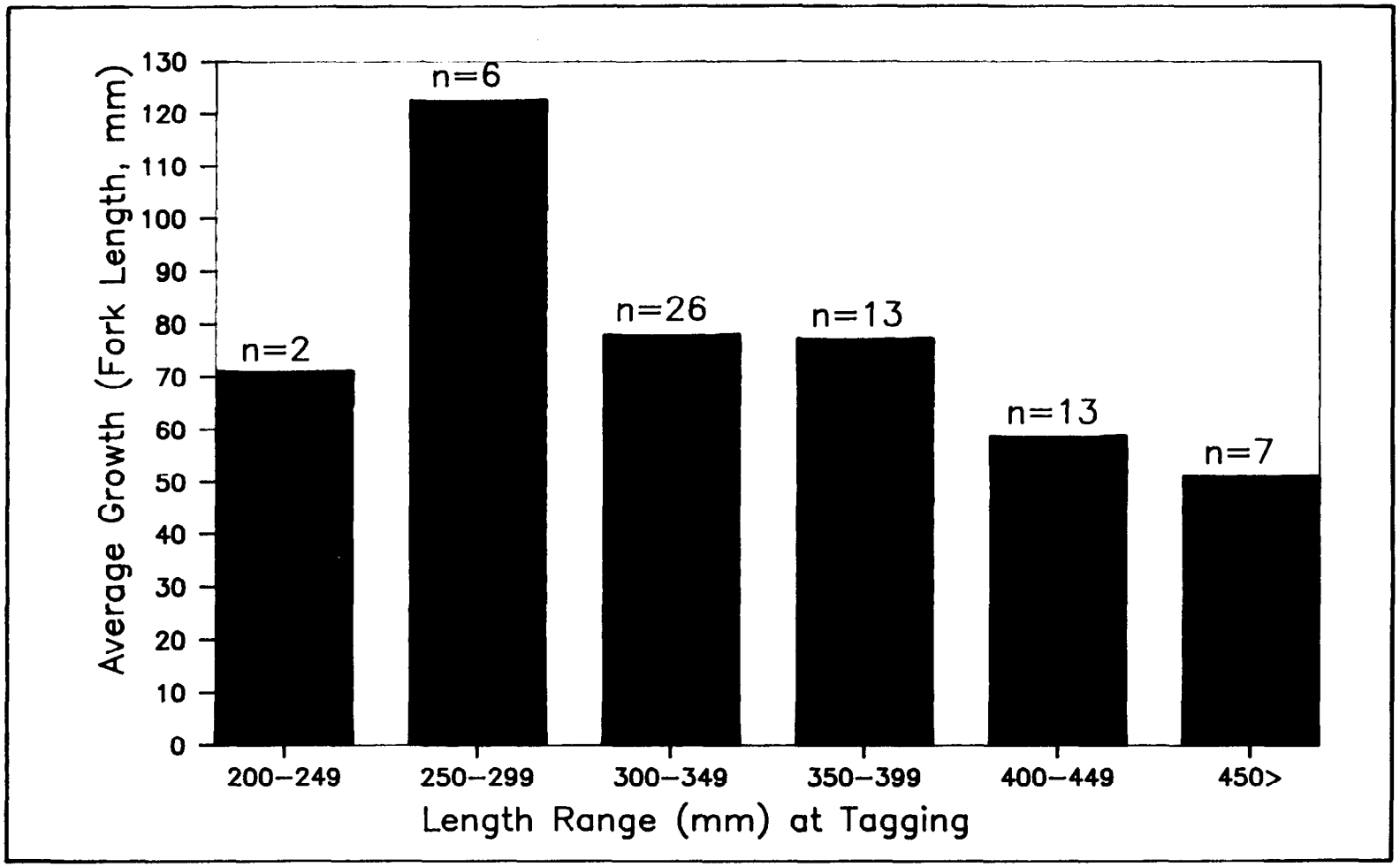


Figure 12. Average annual growth of Dolly Varden char, based on length ranges at time of tagging on the Anchor River, 1987-1988.

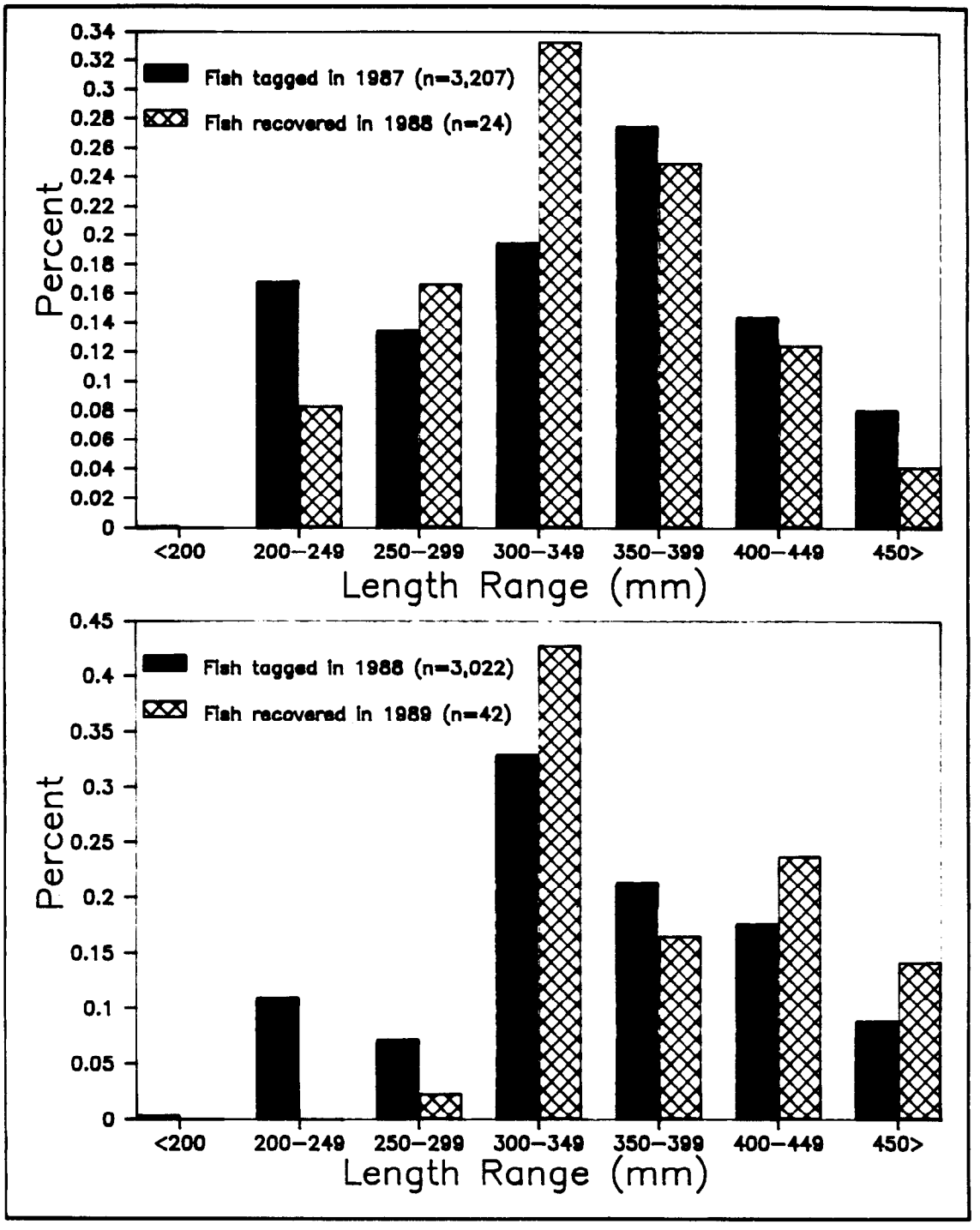


Figure 13. Comparison of Dolly Varden length ranges at time of tagging with tag recoveries 1 year later, 1987-1989. Recoveries based on length of fish at time of tagging.

Table 16. Length and age composition of first time and repeat steelhead/rainbow trout spawners, Anchor River, 1989.

| Age Group | Sample Size | Length (mm) Mean | 90% Confidence Interval | Standard Error |
|---|---|---|---|---|
| First time Spawners | | | | |
| R.1 | 8 | 575 | 554-595 | 13 |
| 1.1 | 1 | | 506 | |
| 2.1 | 9 | 569 | 544-594 | 15 |
| 3.1 | 12 | 594 | 577-612 | 11 |
| 4.1 | 1 | | 625 | |
| R.2 | 14 | 696 | 676-716 | 12 |
| 2.2 | 4 | 686 | 633-739 | 32 |
| 3.2 | 23 | 669 | 658-680 | 6 |
| 4.2 | 3 | 650 | 611-689 | 23 |
| R.3 | 8 | 714 | 688-740 | 16 |
| 2.3 | 1 | | 630 | |
| 3.3 | 14 | 734 | 720-748 | 8 |
| Total: | 98 | 657 | | 51 |
| Repeat Spawners | | | | |
| R.1S1 | 1 | | 665 | |
| 3.2S1 | 2 | 720 | 701-739 | 11 |
| R.3S1 | 2 | 764 | 701-825 | 38 |
| 3.3S1 | 2 | 789 | 705-873 | 51 |
| Total: | 7 | 744 | | 64 |

## DISCUSSION

### Sport Fishery

An error was found in the calculation of angler effort, harvest, and catch from the 1988 Anchor River creel survey. The corrected estimates for 1988 are presented in Appendices B1 and B2, and are reflected in the following discussion.

The composition of the Anchor River Dolly Varden stock has been evaluated each year since 1987. These data provide the basis for development of a model of stock composition. While the Dolly Varden that inhabit the Anchor River consist of both mature and immature fish, only mature fish will be considered as the Anchor River stock and these mature fish will be the focus of future investigations of stock status. I base this conclusion on the following.

It appears that mature fish exhibit annual homing to the Anchor River. I conclude from sampling for relative maturity that fish greater than 300 mm fork length are mature fish. Based on migratory timing through the weir, these larger fish tend to enter the Anchor River earlier (July and early August) than the smaller immature fish; presumably for spawning. Fish greater than 300 mm fork length also comprise the majority of the immigration through the weir. The literature (Armstrong 1965 and 1984) supports a high degree of homing to natal streams for spawning; therefore, fish returning to spawn in the Anchor River should be of Anchor River origin. My limited tagging data also support this conclusion. Fish tagged in 1988 and recovered in 1989 showed a significantly higher rate of return for fish greater than 300 mm fork length than for smaller fish. It appears that these spawning fish also overwinter in the Anchor River; I base this conclusion on the fact that the fall emigration is comprised almost entirely of fish less than 300 mm fork length. Small immature fish are probably a mix of system and non-system fish. Many of these fish do not appear to overwinter in the Anchor River.

Mature fish are also the target of the sport fishery in the Anchor River. Although both mature and immature fish enter the Anchor River in July and August and are available to the sport fishery, the sport harvest is comprised almost entirely of fish greater than 300 mm fork length.

The Anchor River Dolly Varden stock is in decline. There is evidence from postal questionnaire data (Mills 1979-1989) that harvests of Dolly Varden in the late 1970s and early 1980s exceeded current levels of total abundance, and abundance has continued to decline each year since 1987 when the weir was established. Since 1987, the exploitation of mature fish in the sport fishery has ranged from 21% to 38% and averaged 27%. Total catch of mature fish during 1987 through 1989 averaged 63% of the total immigration and was highest (94%) in 1988. The highest catch exploitation rates both occurred during 1988 and fell predominantly on the 300 mm to 349 mm length cohort. That same cohort, 1 year later, was depressed to less than half the expected abundance and will likely be absent during the coming season. Thus, in addition to removing up to one third of the spawners each year, the sport fishery has a very large released component which may have a high mortality associated with it. The majority of the spawners arrive during July and remain susceptible to

being caught through the October spawning season. These data, along with the continuing decline in abundance at the weir, suggest a reduction in exploitation is necessary to protect the Anchor River spawning stock.

A change in the Anchor River Dolly Varden bag limit from five fish daily to two fish is recommended in order to reduce exploitation on spawners. Analysis of creel data from 1989 indicates that 75% of the anglers harvested less than three fish daily and a reduction in the daily bag limit from five to two fish would have reduced the harvest by 50%. This bag reduction is not expected to impact many of the anglers fishing the Anchor River. During 1989, only 1.4% of the anglers fishing from 3 July to 7 November harvested Dolly Varden.

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# APPENDIX A

## Biological Data

Appendix A1. Dolly Varden char relative maturity criteria as determined from female gonad development.

| | |
|---|---|
| State I. | Immature female:<br>Completely undeveloped ovary, eggs minute (usually less than 0.90 mm in diameter) and yolkless. |
| State II. | Maturing female:<br>Maturing ovary will develop by spawning period, eggs usually larger than 1.75 mm in diameter and appear to be approaching an advanced stage of maturity. Oil droplets are present in the eggs and vessel structure is well developed in the ovarian tissue. |
| State III. | Completely mature female:<br>Ovaries have reached a degree of maturity allowing the eggs to be easily stripped from the fish with only slight pressure. |
| State IV. | Completely spawned female:<br>Only vestiges of recently spawned eggs in the ovary; i.e., ovary appears as a string with many minute recruitment eggs embedded in the tissue. |
| State V. | Immature female but shows a degree of development:<br>Ovaries do not appear as if they would mature this year but development is definitely more advanced than State I. Egg diameters are usually greater than 0.90 mm but less than 1.75 mm. Ovary size is large enough to indicate spawning next year. |

Appendix A2. Angler counts, by period, for the sport fishery on the Anchor River from 3 July through 7 November 1989.

| | | Periods[a] | | | |
|---|---|---|---|---|---|
| | | A | | B | |
| Date | Wd/[b] We | Below Weir | Above Weir | Below Weir | Above Weir |
| 703 | Wd | 3 | 3 | 3 | 5 |
| 704 | We | 1 | 0 | 5 | 2 |
| 707 | Wd | 0 | 1 | 2 | 5 |
| 708 | We | 0 | 0 | 2 | 0 |
| 709 | We | 2 | 1 | 6 | 1 |
| 710 | Wd | 2 | 0 | 1 | 6 |
| 711 | Wd | 2 | 0 | 3 | 2 |
| 712 | Wd | 0 | 2 | 6 | 2 |
| 715 | We | 3 | 0 | 8 | 2 |
| 716 | We | 6 | 0 | 4 | 0 |
| 719 | Wd | 1 | 0 | 4 | 1 |
| 720 | Wd | 2 | 4 | 1 | 4 |
| 721 | Wd | 6 | 0 | 12 | 2 |
| 722 | We | 4 | 0 | 12 | 7 |
| 723 | We | 6 | 1 | 12 | 0 |
| 726 | Wd | 5 | 0 | | |
| 727 | Wd | 12 | 2 | 7 | 8 |
| 728 | Wd | 1 | 1 | 5 | 0 |
| 729 | We | 4 | 0 | 12 | 5 |
| 730 | We | 6 | 1 | 15 | 2 |
| 731 | Wd | 13 | | 9 | 8 |
| 803 | Wd | 4 | 3 | 13 | 5 |
| 804 | Wd | 12 | 0 | 28 | 5 |
| 805 | We | 16 | 4 | 18 | 7 |
| 806 | We | 15 | 2 | 32 | 11 |
| 809 | Wd | 8 | 0 | 14 | 2 |
| 810 | Wd | 11 | 0 | 28 | 1 |
| 811 | Wd | 14 | 0 | 28 | 7 |
| 812 | We | 42 | 3 | 30 | 4 |
| 813 | We | 14 | 0 | 13 | 3 |
| 814 | Wd | 23 | 0 | 21 | 2 |
| 815 | Wd | 18 | 0 | 16 | 0 |
| 816 | Wd | 19 | 0 | 19 | 0 |
| 819 | We | 17 | 0 | | |
| 820 | We | 30 | 4 | 37 | 3 |
| 821 | Wd | 11 | 0 | 9 | 0 |
| 822 | Wd | 21 | 0 | 11 | 0 |
| 825 | Wd | 64 | 0 | 29 | 5 |
| 826 | We | 35 | 7 | 59 | 3 |

| | | Periods | | | |
|---|---|---|---|---|---|
| | | A | | B | |
| Date | Wd/ We | Below Weir | Above Weir | Below Weir | Above Weir |
| 827 | We | 61 | 0 | 49 | 8 |
| 828 | Wd | 45 | 0 | 50 | 0 |
| 829 | Wd | 32 | 4 | 53 | 2 |
| 901 | Wd | 33 | 13 | 23 | 12 |
| 902 | We | 25 | 5 | 43 | 13 |
| 903 | We | 56 | 3 | 67 | 16 |
| 904 | We | 50 | 9 | 31 | 9 |
| 905 | Wd | 33 | 3 | 24 | 1 |
| 906 | Wd | 20 | 0 | 15 | 4 |
| 909 | We | 21 | 3 | 40 | 15 |
| 910 | We | 22 | 10 | 11 | 9 |
| 913 | Wd | 41 | 2 | 15 | 0 |
| 914 | Wd | 9 | 5 | 15 | 4 |
| 915 | Wd | 9 | 1 | 16 | 2 |
| 916 | We | 13 | 5 | 13 | 13 |
| 917 | We | 11 | 5 | 6 | 4 |
| 918 | Wd | 2 | 0 | 1 | 7 |
| 919 | Wd | 1 | 2 | 1 | 5 |
| 920 | Wd | 2 | 0 | 3 | 2 |
| 923 | We | 14 | 11 | 7 | 4 |
| 924 | We | 6 | 0 | 4 | 1 |
| 925 | Wd | 0 | 1 | 4 | 0 |
| 926 | Wd | 1 | 1 | 0 | 0 |
| 929 | Wd | 4 | 0 | 2 | 0 |
| 930 | We | 7 | 4 | 6 | 3 |
| 1001 | We | 9 | 1 | 6 | 0 |
| 1002 | Wd | 2 | 3 | 2 | 1 |
| 1005 | Wd | 2 | 1 | 3 | 1 |
| 1006 | Wd | 3 | 0 | 1 | 4 |
| 1007 | We | 5 | 7 | 2 | 4 |
| 1008 | We | 1 | 3 | 3 | 2 |
| 1009 | Wd | 0 | 0 | 1 | 1 |
| 1010 | Wd | 2 | 2 | 2 | 2 |
| 1013 | Wd | 8 | 4 | 3 | 3 |
| 1014 | We | 3 | 5 | 6 | 4 |
| 1015 | We | 0 | 0 | 0 | 0 |
| 1016 | Wd | 0 | 0 | 0 | 2 |
| 1017 | Wd | 0 | 3 | 0 | 1 |
| 1018 | Wd | 0 | 0 | 0 | 2 |

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Appendix A2. (Page 2 of 2).

| Date | Wd/[b] We | Periods[a] A Below Weir | A Above Weir | B Above Weir | B Below Weir |
|---|---|---|---|---|---|
| 1021 | We | 1 | 2 | 2 | 3 |
| 1022 | We | 0 | 0 | 3 | 0 |
| 1023 | Wd | 0 | 0 | 0 | 0 |
| 1026 | Wd | 0 | 0 | 1 | 0 |
| 1027 | Wd | 0 | 0 | 1 | 0 |
| 1028 | We | 0 | 2 | 2 | 0 |
| 1029 | We | 4 | 0 | 3 | 0 |
| 1030 | Wd | 0 | 0 | 0 | 1 |
| 1102 | Wd | 0 | 1 | 0 | 3 |
| 1103 | Wd | 0 | 0 | 0 | 0 |
| 1104 | We | 2 | 3 | 2 | 0 |
| 1105 | We | 0 | 2 | 1 | 0 |
| 1106 | Wd | 0 | 0 | 0 | 3 |
| 1107 | Wd | 0 | 0 | 2 | 1 |

[a] Periods, July and August: A=0600-1359 hrs., B=1400-2159 hrs.
September: A=0800-1359 hrs., B=1400-1959 hrs.
Oct. & Nov.: A=1000-1359 hrs., B=1400-1759 hrs.

[b] Weekday (Wd) or Weekend/Holiday (We).

Appendix A3. Daily summary statistics for fishing effort and harvest of Dolly Varden char and coho salmon in the sport fishery on the Anchor River, 2 July through 7 November 1989.

| | | Effort (hrs) | | | Dolly Varden Harvest | | | Coho Salmon Harvest | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Wd/ We[a] | SS[b] | Mean | SE[c] | Mean | SE | HPUE[d] | Mean | SE | HPUE |
| 702 | We | 2 | 3.0 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 703 | Wd | 12 | 2.1 | 0.27 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 704 | We | 5 | 1.0 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 706 | Wd | 2 | 3.0 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 707 | Wd | 14 | 1.6 | 0.29 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 708 | We | 8 | 4.2 | 1.54 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 709 | We | 12 | 2.0 | 0.25 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 710 | Wd | 6 | 2.9 | 0.90 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 711 | Wd | 17 | 2.2 | 0.48 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 712 | Wd | 5 | 1.4 | 0.24 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 714 | Wd | 5 | 2.4 | 0.37 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 715 | We | 20 | 1.9 | 0.27 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 716 | We | 14 | 1.5 | 0.29 | 0.14 | 0.143 | 0.095 | 0.00 | 0.000 | 0.000 |
| 718 | Wd | 4 | 1.6 | 0.24 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 719 | Wd | 8 | 1.2 | 0.16 | 0.63 | 0.498 | 0.526 | 0.00 | 0.000 | 0.000 |
| 720 | Wd | 15 | 2.0 | 0.29 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 721 | Wd | 17 | 1.7 | 0.19 | 0.47 | 0.311 | 0.276 | 0.00 | 0.000 | 0.000 |
| 722 | We | 7 | 1.2 | 0.18 | 0.57 | 0.202 | 0.471 | 0.00 | 0.000 | 0.000 |
| 723 | We | 23 | 1.6 | 0.21 | 0.17 | 0.136 | 0.112 | 0.00 | 0.000 | 0.000 |
| 725 | Wd | 2 | 1.0 | 0.50 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 726 | Wd | 9 | 2.8 | 0.65 | 1.22 | 0.547 | 0.440 | 0.00 | 0.000 | 0.000 |
| 727 | Wd | 23 | 1.9 | 0.22 | 0.43 | 0.273 | 0.233 | 0.00 | 0.000 | 0.000 |
| 728 | Wd | 11 | 1.8 | 0.32 | 1.27 | 0.634 | 0.700 | 0.00 | 0.000 | 0.000 |
| 729 | We | 27 | 2.3 | 0.25 | 1.52 | 0.347 | 0.661 | 0.00 | 0.000 | 0.000 |
| 730 | We | 10 | 1.9 | 0.50 | 0.50 | 0.307 | 0.256 | 0.00 | 0.000 | 0.000 |
| 731 | Wd | 8 | 2.4 | 0.72 | 0.25 | 0.164 | 0.105 | 0.00 | 0.000 | 0.000 |

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Appendix A3. (Page 2 of 5).

| Date | Wd/ We[a] | Effort (hrs) SS[b] | Effort (hrs) Mean | Effort (hrs) SE[c] | Dolly Varden Harvest Mean | Dolly Varden Harvest SE | Dolly Varden Harvest HPUE[d] | Coho Salmon Harvest Mean | Coho Salmon Harvest SE | Coho Salmon Harvest HPUE |
|---|---|---|---|---|---|---|---|---|---|---|
| 803 | Wd | 13 | 2.2 | 0.23 | 2.00 | 0.577 | 0.897 | 0.08 | 0.077 | 0.034 |
| 804 | Wd | 28 | 2.0 | 0.22 | 0.82 | 0.252 | 0.418 | 0.00 | 0.000 | 0.000 |
| 805 | We | 26 | 2.3 | 0.36 | 0.35 | 0.207 | 0.150 | 0.04 | 0.038 | 0.017 |
| 806 | We | 22 | 2.0 | 0.22 | 0.05 | 0.045 | 0.023 | 0.18 | 0.084 | 0.093 |
| 809 | Wd | 21 | 2.2 | 0.15 | 0.14 | 0.104 | 0.065 | 0.29 | 0.156 | 0.130 |
| 810 | Wd | 20 | 2.9 | 0.27 | 0.25 | 0.176 | 0.086 | 0.55 | 0.153 | 0.190 |
| 811 | Wd | 23 | 2.1 | 0.34 | 0.13 | 0.130 | 0.061 | 0.52 | 0.176 | 0.245 |
| 812 | We | 41 | 2.7 | 0.24 | 0.05 | 0.034 | 0.018 | 0.32 | 0.128 | 0.116 |
| 813 | We | 28 | 2.5 | 0.33 | 0.18 | 0.179 | 0.071 | 0.14 | 0.085 | 0.057 |
| 814 | Wd | 26 | 2.4 | 0.27 | 0.00 | 0.000 | 0.000 | 0.35 | 0.123 | 0.143 |
| 815 | Wd | 14 | 3.3 | 0.57 | 0.00 | 0.000 | 0.000 | 0.57 | 0.228 | 0.172 |
| 816 | Wd | 5 | 4.5 | 1.18 | 0.00 | 0.000 | 0.000 | 0.20 | 0.200 | 0.044 |
| 818 | Wd | 11 | 3.1 | 0.56 | 0.00 | 0.000 | 0.000 | 0.18 | 0.122 | 0.059 |
| 819 | We | 15 | 3.8 | 0.52 | 0.00 | 0.000 | 0.000 | 0.53 | 0.256 | 0.140 |
| 820 | We | 27 | 2.9 | 0.40 | 0.00 | 0.000 | 0.000 | 0.19 | 0.093 | 0.063 |
| 821 | Wd | 16 | 3.3 | 0.36 | 0.00 | 0.000 | 0.000 | 0.44 | 0.157 | 0.135 |
| 822 | Wd | 6 | 2.8 | 0.83 | 0.00 | 0.000 | 0.000 | 0.17 | 0.167 | 0.061 |
| 824 | Wd | 25 | 3.9 | 0.32 | 0.00 | 0.000 | 0.000 | 0.72 | 0.187 | 0.187 |
| 825 | Wd | 35 | 3.6 | 0.29 | 0.03 | 0.029 | 0.008 | 0.83 | 0.234 | 0.227 |
| 826 | We | 35 | 5.1 | 0.51 | 0.00 | 0.000 | 0.000 | 1.03 | 0.186 | 0.203 |
| 827 | We | 25 | 4.4 | 0.49 | 0.00 | 0.000 | 0.000 | 0.48 | 0.165 | 0.108 |
| 828 | Wd | 30 | 5.2 | 0.45 | 0.00 | 0.000 | 0.000 | 0.87 | 0.171 | 0.168 |
| 829 | Wd | 16 | 3.0 | 0.30 | 0.00 | 0.000 | 0.000 | 0.31 | 0.218 | 0.104 |

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Appendix A3. (Page 3 of 5).

| Date | Wd/ We[a] | Effort (hrs) SS[b] | Effort (hrs) Mean | Effort (hrs) SE[c] | Dolly Varden Harvest Mean | Dolly Varden Harvest SE | Dolly Varden Harvest HPUE[d] | Coho Salmon Harvest Mean | Coho Salmon Harvest SE | Coho Salmon Harvest HPUE |
|---|---|---|---|---|---|---|---|---|---|---|
| 901 | Wd | 30 | 4.3 | 0.50 | 0.03 | 0.033 | 0.008 | 0.83 | 0.180 | 0.196 |
| 902 | We | 46 | 4.1 | 0.48 | 0.02 | 0.022 | 0.005 | 0.54 | 0.138 | 0.133 |
| 903 | We | 29 | 3.4 | 0.38 | 0.00 | 0.000 | 0.000 | 0.66 | 0.174 | 0.194 |
| 904 | We | 27 | 4.8 | 0.61 | 0.00 | 0.000 | 0.000 | 0.48 | 0.145 | 0.101 |
| 905 | Wd | 31 | 3.4 | 0.49 | 0.13 | 0.077 | 0.038 | 0.26 | 0.103 | 0.076 |
| 906 | Wd | 15 | 3.8 | 0.35 | 0.00 | 0.000 | 0.000 | 0.40 | 0.163 | 0.105 |
| 909 | We | 16 | 4.4 | 0.74 | 0.00 | 0.000 | 0.000 | 0.88 | 0.287 | 0.199 |
| 910 | We | 21 | 4.2 | 0.49 | 0.00 | 0.000 | 0.000 | 0.86 | 0.221 | 0.205 |
| 913 | Wd | 20 | 4.5 | 0.94 | 0.00 | 0.000 | 0.000 | 0.25 | 0.099 | 0.056 |
| 914 | Wd | 12 | 2.7 | 0.45 | 0.00 | 0.000 | 0.000 | 0.50 | 0.289 | 0.188 |
| 915 | Wd | 11 | 3.0 | 0.54 | 0.00 | 0.000 | 0.000 | 0.82 | 0.296 | 0.273 |
| 916 | We | 14 | 3.2 | 0.47 | 0.07 | 0.071 | 0.022 | 0.21 | 0.114 | 0.067 |
| 917 | We | 14 | 3.0 | 0.72 | 0.00 | 0.000 | 0.000 | 0.14 | 0.097 | 0.047 |
| 918 | Wd | 5 | 2.8 | 0.58 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 919 | Wd | 7 | 1.6 | 0.59 | 0.00 | 0.000 | 0.000 | 0.14 | 0.143 | 0.087 |
| 920 | Wd | 4 | 1.3 | 0.25 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 923 | We | 14 | 3.4 | 0.70 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 924 | We | 15 | 1.9 | 0.26 | 0.07 | 0.067 | 0.036 | 0.00 | 0.000 | 0.000 |
| 925 | Wd | 8 | 3.2 | 0.74 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 926 | Wd | 6 | 2.0 | 0.45 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 929 | Wd | 9 | 4.9 | 0.89 | 0.11 | 0.111 | 0.023 | 0.00 | 0.000 | 0.000 |
| 930 | We | 16 | 3.8 | 0.74 | 0.19 | 0.136 | 0.049 | 0.00 | 0.000 | 0.000 |

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Appendix A3. (Page 4 of 5).

| Date | Wd/ We[a] | Effort (hrs) SS[b] | Effort (hrs) Mean | Effort (hrs) SE[c] | Dolly Varden Harvest Mean | Dolly Varden Harvest SE | Dolly Varden Harvest HPUE[d] | Coho Salmon Harvest Mean | Coho Salmon Harvest SE | Coho Salmon Harvest HPUE |
|---|---|---|---|---|---|---|---|---|---|---|
| 1001 | We | 11 | 2.5 | 0.52 | 0.18 | 0.182 | 0.071 | 0.00 | 0.000 | 0.000 |
| 1002 | Wd | 4 | 2.3 | 0.78 | 0.25 | 0.250 | 0.111 | 0.00 | 0.000 | 0.000 |
| 1004 | Wd | 3 | 3.0 | 1.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1005 | Wd | 7 | 2.5 | 0.39 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1006 | Wd | 13 | 2.5 | 0.17 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1007 | We | 14 | 3.4 | 0.67 | 0.07 | 0.071 | 0.021 | 0.00 | 0.000 | 0.000 |
| 1008 | We | 14 | 2.5 | 0.34 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1009 | Wd | 9 | 1.3 | 0.21 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1010 | Wd | 2 | 6.0 | 0.00 | 1.50 | 0.500 | 0.250 | 0.00 | 0.000 | 0.000 |
| 1013 | Wd | 9 | 4.5 | 0.82 | 1.00 | 0.645 | 0.222 | 0.00 | 0.000 | 0.000 |
| 1014 | We | 14 | 1.6 | 0.28 | 0.21 | 0.155 | 0.136 | 0.00 | 0.000 | 0.000 |
| 1015 | We | 5 | 0.5 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1016 | Wd | 10 | 1.3 | 0.21 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1017 | Wd | 6 | 3.7 | 0.65 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1020 | Wd | 3 | 2.2 | 0.17 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1021 | We | 13 | 2.0 | 0.54 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1022 | We | 5 | 2.6 | 0.68 | 1.20 | 0.800 | 0.462 | 0.00 | 0.000 | 0.000 |
| 1026 | Wd | 3 | 1.2 | 0.44 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1029 | We | 10 | 2.2 | 0.48 | 0.70 | 0.423 | 0.318 | 0.00 | 0.000 | 0.000 |
| 1030 | Wd | 3 | 1.3 | 0.83 | 0.33 | 0.333 | 0.250 | 0.00 | 0.000 | 0.000 |

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Appendix A3. (Page 5 of 5).

| Date | Wd/ We[a] | Effort (hrs) SS[b] | Mean | SE[c] | Dolly Varden Harvest Mean | SE | HPUE[d] | Coho Salmon Harvest Mean | SE | HPUE |
|---|---|---|---|---|---|---|---|---|---|---|
| 1102 | Wd | 7 | 1.3 | 0.18 | 1.00 | 0.577 | 0.778 | 0.00 | 0.000 | 0.000 |
| 1103 | Wd | 8 | 4.6 | 0.46 | 0.13 | 0.125 | 0.027 | 0.00 | 0.000 | 0.000 |
| 1104 | We | 10 | 1.1 | 0.19 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1105 | We | 7 | 2.8 | 0.74 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |
| 1107 | Wd | 3 | 0.8 | 0.17 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 |

[a] Weekday (Wd) or Weekend/Holiday (We).
[b] Sample size, number of anglers interviewed.
[c] Standard Error.
[d] Harvest Per Unit Effort.

Appendix A4. Summary of completed angler responses to questions on the use of terminal tackle and residency, by date, 1989.

| | Terminal Tackle | | | Residency | | | |
|---|---|---|---|---|---|---|---|
| Date | Bait | Lures | Both Bait and Lures | Resident | Non Resident | Local[a] | Non Local[b] |
| 02-Jul | 0 | 2 | 0 | 2 | 2 | 0 | 2 |
| 03-Jul | 0 | 8 | 4 | 5 | 7 | 0 | 5 |
| 04-Jul | 0 | 5 | 0 | 4 | 1 | 1 | 3 |
| 06-Jul | 0 | 2 | 0 | 0 | 2 | 0 | 0 |
| 07-Jul | 0 | 14 | 0 | 2 | 12 | 1 | 1 |
| 08-Jul | 0 | 8 | 0 | 6 | 2 | 1 | 5 |
| 09-Jul | 0 | 10 | 2 | 6 | 6 | 4 | 2 |
| 10-Jul | 2 | 4 | 0 | 3 | 3 | 2 | 1 |
| 11-Jul | 0 | 17 | 0 | 4 | 13 | 3 | 2 |
| 12-Jul | 0 | 5 | 1 | 2 | 4 | 2 | 0 |
| 14-Jul | 0 | 4 | 1 | 1 | 4 | 0 | 1 |
| 15-Jul | 0 | 15 | 5 | 7 | 13 | 0 | 7 |
| 16-Jul | 4 | 10 | 0 | 8 | 6 | 6 | 2 |
| 18-Jul | 0 | 4 | 0 | 3 | 1 | 0 | 3 |
| 19-Jul | 4 | 4 | 0 | 5 | 3 | 5 | 0 |
| 20-Jul | 0 | 14 | 0 | 1 | 14 | 1 | 0 |
| 21-Jul | 4 | 13 | 0 | 6 | 11 | 5 | 1 |
| 22-Jul | 0 | 7 | 0 | 5 | 2 | 2 | 3 |
| 23-Jul | 1 | 22 | 0 | 15 | 7 | 11 | 4 |
| 25-Jul | 0 | 2 | 0 | 2 | 0 | 2 | 0 |
| 26-Jul | 2 | 7 | 0 | 6 | 3 | 4 | 2 |
| 27-Jul | 2 | 21 | 0 | 11 | 12 | 9 | 2 |
| 28-Jul | 0 | 11 | 0 | 3 | 8 | 2 | 1 |
| 29-Jul | 0 | 27 | 0 | 18 | 9 | 7 | 10 |
| 30-Jul | 0 | 10 | 0 | 3 | 7 | 0 | 3 |
| 01-Aug | 0 | 8 | 0 | 2 | 6 | 1 | 1 |
| 02-Aug | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| 03-Aug | 1 | 12 | 0 | 8 | 5 | 3 | 5 |
| 04-Aug | 0 | 27 | 1 | 10 | 18 | 6 | 4 |
| 05-Aug | 9 | 16 | 1 | 20 | 6 | 13 | 7 |
| 06-Aug | 7 | 9 | 6 | 7 | 15 | 5 | 2 |
| 09-Aug | 7 | 13 | 1 | 9 | 12 | 8 | 1 |
| 10-Aug | 13 | 7 | 0 | 12 | 8 | 11 | 1 |
| 11-Aug | 10 | 6 | 7 | 15 | 8 | 7 | 8 |
| 12-Aug | 6 | 11 | 14 | 23 | 18 | 14 | 9 |
| 13-Aug | 5 | 17 | 6 | 11 | 17 | 7 | 4 |
| 14-Aug | 11 | 10 | 5 | 11 | 15 | 11 | 0 |
| 15-Aug | | | | 8 | 6 | 2 | 6 |
| 16-Aug | | | | 3 | 2 | 1 | 2 |
| 18-Aug | | | | 4 | 7 | 1 | 3 |

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| | Terminal Tackle | | | Residency | | | |
|---|---|---|---|---|---|---|---|
| Date | Bait | Lures | Both Bait and Lures | Resident | Non Resident | Local[a] | Non Local[b] |
| 19-Aug | | | | 5 | 10 | 2 | 3 |
| 20-Aug | | | | 16 | 11 | 10 | 6 |
| 21-Aug | | | | 6 | 10 | 4 | 2 |
| 22-Aug | | | | 3 | 3 | 2 | 1 |
| 24-Aug | | | | 15 | 10 | 11 | 4 |
| 25-Aug | | | | 17 | 18 | 12 | 5 |
| 26-Aug | | | | 28 | 7 | 14 | 14 |
| 27-Aug | | | | 18 | 7 | 15 | 3 |
| 28-Aug | | | | 19 | 11 | 11 | 8 |
| 29-Aug | | | | 5 | 11 | 2 | 3 |
| 01-Sep | | | | 11 | 19 | 9 | 2 |
| 02-Sep | | | | 29 | 17 | 6 | 23 |
| 03-Sep | | | | 25 | 4 | 5 | 19 |
| 04-Sep | | | | 15 | 12 | 9 | 6 |
| 05-Sep | | | | 15 | 16 | 1 | 13 |
| 06-Sep | | | | 6 | 9 | 4 | 2 |
| 09-Sep | | | | 6 | 10 | 2 | 4 |
| 10-Sep | | | | 13 | 8 | 4 | 9 |
| 13-Sep | | | | 9 | 11 | 3 | 6 |
| 14-Sep | | | | 4 | 8 | 1 | 3 |
| 15-Sep | | | | 6 | 5 | 5 | 1 |
| 16-Sep | | | | 10 | 4 | 2 | 7 |
| 17-Sep | | | | 7 | 7 | 1 | 6 |
| 18-Sep | | | | 2 | 3 | 0 | 2 |
| 19-Sep | | | | 4 | 3 | 2 | 2 |
| 20-Sep | | | | 3 | 1 | 3 | 0 |
| 23-Sep | | | | 12 | 2 | 0 | 12 |
| 24-Sep | | | | 12 | 3 | 4 | 8 |
| 25-Sep | | | | 7 | 1 | 1 | 6 |
| 26-Sep | | | | 3 | 3 | 0 | 3 |
| 29-Sep | | | | 6 | 3 | 0 | 5 |
| 30-Sep | | | | 16 | 0 | 1 | 15 |
| 01-Oct | | | | 8 | 3 | 4 | 4 |
| 02-Oct | | | | 3 | 1 | 2 | 1 |
| 04-Oct | | | | 3 | 0 | 0 | 3 |
| 05-Oct | | | | 5 | 2 | 1 | 3 |
| 06-Oct | | | | 13 | 0 | 0 | 13 |
| 07-Oct | | | | 14 | 0 | 0 | 13 |
| 08-Oct | | | | 13 | 1 | 1 | 12 |
| 09-Oct | | | | 5 | 4 | 4 | 0 |
| 10-Oct | | | | 2 | 0 | 0 | 2 |

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Appendix A4. (Page 3 of 3).

| | Terminal Tackle | | | Residency | | | |
|---|---|---|---|---|---|---|---|
| Date | Bait | Lures | Both Bait and Lures | Resident | Non Resident | Local[a] | Non Local[b] |
| 13-Oct | | | | 8 | 1 | 5 | 3 |
| 14-Oct | | | | 14 | 0 | 4 | 10 |
| 15-Oct | | | | 2 | 3 | 0 | 2 |
| 16-Oct | | | | 6 | 4 | 0 | 6 |
| 17-Oct | | | | 6 | 0 | 0 | 5 |
| 20-Oct | | | | 1 | 2 | 0 | 1 |
| 21-Oct | | | | 7 | 6 | 4 | 3 |
| 22-Oct | | | | 3 | 2 | 0 | 3 |
| 25-Oct | | | | 1 | 0 | 0 | 0 |
| 26-Oct | | | | 2 | 1 | 0 | 2 |
| 27-Oct | | | | 1 | 0 | 1 | 0 |
| 28-Oct | | | | 1 | 0 | 1 | 0 |
| 29-Oct | | | | 10 | 0 | 4 | 6 |
| 30-Oct | | | | 3 | 0 | 3 | 0 |
| 02-Nov | | | | 7 | 0 | 5 | 2 |
| 03-Nov | | | | 8 | 0 | 1 | 7 |
| 04-Nov | | | | 8 | 2 | 2 | 6 |
| 05-Nov | | | | 7 | 0 | 3 | 4 |
| 06-Nov | | | | 1 | 0 | 0 | 1 |
| 07-Nov | | | | 3 | 0 | 2 | 1 |
| Totals: | 98 | 383 | 54 | 790 | 572 | 351 | 430 |

[a] Resident angler living less than 35 km from Anchor Point.
[b] Resident angler living greater than 35 km from Anchor Point.

Appendix A5. Number of fish, by species and date, passed upstream through the Anchor River weir during 1989. Also included is the number of recaptured Dolly Varden char that had been tagged in previous years.

| Date | Number Dolly V. Tagged | Species[a] | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | DV | SS | PS | KS | RS | CS | SH |
| 04-Jul | | | | | | | | |
| 05-Jul | | 15 | | | 1 | | | |
| 06-Jul | | 17 | | | 4 | | | 1 |
| 07-Jul | | 19 | | 16 | 4 | | | |
| 08-Jul | | 12 | | 4 | 3 | | | 1 |
| 09-Jul | | 11 | | 3 | 3 | | | |
| 10-Jul | | 73 | | 34 | 8 | | | |
| 11-Jul | | 43 | | 16 | 4 | | | |
| 12-Jul | | 58 | | 7 | 2 | | | |
| 13-Jul | | 69 | | 10 | 3 | | | |
| 14-Jul | | 96 | | 63 | 3 | | | |
| 15-Jul | | 58 | | 23 | 1 | | | |
| 16-Jul | | 157 | | 16 | 1 | | | |
| 17-Jul | | 218 | | 31 | 2 | | | |
| 18-Jul | | 383 | | 104 | | | | |
| 19-Jul | | 120 | | 23 | 2 | | | |
| 20-Jul | | 178 | | 10 | | | | |
| 21-Jul | | 419 | | 21 | 1 | | | |
| 22-Jul | | 640 | | 20 | | | | |
| 23-Jul | | 436 | | 349 | | | | |
| 24-Jul | | 654 | | 394 | 9 | | | |
| 25-Jul | | 296 | | 125 | 1 | | | |
| 26-Jul | | 517 | | 36 | | | | |
| 27-Jul | | 725 | | 33 | | | | |
| 28-Jul | | 1,178 | | 362 | 2 | | 1 | |
| 29-Jul | | 519 | | 343 | 4 | 5 | 1 | |
| 30-Jul | | 457 | | 313 | 8 | 7 | | |
| 31-Jul | | 290 | 1 | 35 | 2 | 8 | | |
| 01-Aug | | 249 | | 110 | 6 | 9 | | |
| 02-Aug | | 423 | 5 | 123 | 8 | | | |
| 03-Aug | | 334 | 3 | 65 | 5 | 17 | | |
| 04-Aug | | 256 | 0 | 40 | 1 | 13 | | |
| 05-Aug | | 164 | 5 | 10 | | 2 | | |
| 06-Aug | | 818 | 4 | 42 | | 8 | 5 | |
| 07-Aug | | 256 | 6 | 33 | | 1 | 2 | 1 |
| 08-Aug | | 79 | 6 | 6 | 1 | 2 | | |
| 09-Aug | | 66 | 46 | 60 | 1 | 15 | 4 | 1 |
| 10-Aug | | 16 | 33 | 53 | 1 | 13 | 11 | 1 |

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Appendix A5. (Page 2 of 4).

| Date | Number Dolly V. Tagged | Species[a] | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | DV | SS | PS | KS | RS | CS | SH |
| 11-Aug | | 91 | 14 | 57 | | 26 | | 1 |
| 12-Aug | | 46 | 5 | 19 | | 13 | | |
| 13-Aug | | 130 | 15 | 22 | | 5 | 2 | 1 |
| 14-Aug | | 61 | 56 | 30 | | 2 | 9 | 3 |
| 15-Aug | | 45 | 9 | 22 | 1 | 2 | 8 | |
| 16-Aug | | 106 | 90 | 59 | 1 | 4 | 8 | 4 |
| 17-Aug | | 32 | 4 | 38 | | 12 | | 1 |
| 18-Aug | | 16 | 63 | 49 | | 7 | 5 | 6 |
| 19-Aug | | 19 | 3 | 22 | | 1 | | 1 |
| 20-Aug | | 51 | 27 | 68 | | 1 | 2 | |
| 21-Aug | | 18 | 137 | 47 | | | 3 | 2 |
| 22-Aug | | 18 | 11 | 36 | | 2 | 2 | |
| 23-Aug | | 10 | 573 | 137 | | 1 | 4 | 10 |
| 24-Aug | | 8 | 1,298 | 128 | | 4 | 7 | 22 |
| 25-Aug | | 42 | 2,356 | 347 | 2 | 17 | 2 | 62 |
| 26-Aug | | 14 | 904 | 89 | | 1 | 5 | 11 |
| 27-Aug | | 18 | 908 | 54 | | 1 | 6 | 15 |
| 28-Aug | | 16 | 1,214 | 81 | | | 7 | 13 |
| 29-Aug | | 5 | 1,035 | 64 | | | 6 | 10 |
| 30-Aug | | 22 | 706 | 74 | | 1 | 7 | 16 |
| 31-Aug | | 17 | 3,010 | 138 | | | 8 | 46 |
| 01-Sep | | 30 | 802 | 52 | | 4 | 1 | 15 |
| 02-Sep | | 10 | 844 | 16 | | | | 6 |
| 03-Sep | | 5 | 1,018 | 33 | | | 1 | 10 |
| 04-Sep | | 2 | 162 | 15 | | | | 5 |
| 05-Sep | | 2 | 701 | 22 | | 1 | 7 | 11 |
| 06-Sep | | 6 | 1,160 | 25 | | | 5 | 17 |
| 07-Sep | | 8 | 297 | 15 | | | 6 | 21 |
| 08-Sep | | 2 | 41 | 2 | | | 4 | 6 |
| 09-Sep | | 4 | 1,091 | 24 | | | 8 | 24 |
| 10-Sep | | | 128 | 3 | | | | 14 |
| 11-Sep | | | 13 | | | | 2 | 2 |
| 12-Sep | | 2 | 114 | 4 | | 1 | 5 | 26 |
| 13-Sep | | 8 | 312 | | | 4 | 6 | 29 |
| 14-Sep | | 19 | 147 | | | | | 32 |
| 15-Sep | | 19 | 234 | 2 | | 1 | | 51 |
| 16-Sep | | 29 | 52 | 1 | | | | 33 |
| 17-Sep | | | 404 | | | | | 29 |

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| Date | Number Dolly V. Tagged | Species[a] | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | DV | SS | PS | KS | RS | CS | SH |
| 18-Sep | | | | | | | | |
| 19-Sep | | | 1 | | | | | |
| 20-Sep | | | | | | | | |
| 21-Sep | | | | | | | | |
| 22-Sep | | 4 | 17 | | | | 2 | 22 |
| 23-Sep | | 7 | 17 | | | 1 | | 10 |
| 24-Sep | | 3 | 16 | 1 | | | | 16 |
| 25-Sep | | 3 | 15 | | | | | 17 |
| 26-Sep | | 3 | 7 | | | | | 7 |
| 27-Sep | | 4 | 8 | | | | | 18 |
| 28-Sep | 3 | 4 | 10 | | | | | 16 |
| 29-Sep | | 2 | | | | | | 2 |
| 30-Sep | | 2 | | | | | | 5 |
| 01-Oct | 2 | 5 | 10 | | | | 1 | 36 |
| 02-Oct | 1 | 6 | 12 | | | | 1 | 18 |
| 03-Oct | | 2 | 2 | | | | | 10 |
| 04-Oct | | 2 | | | | | | 2 |
| 05-Oct | | 16 | 2 | | | | | 1 |
| 06-Oct | | | | | | | | |
| 07-Oct | | | | | | | | |
| 08-Oct | | | | | | | | |
| 09-Oct | | | | | | | | 1 |
| 10-Oct | | 3 | | | | | 1 | 1 |
| 11-Oct | | 6 | | | | | | |
| 12-Oct | | 2 | | | | | | 1 |
| 13-Oct | | 19 | | | | | | 3 |
| 14-Oct | | 12 | | | | | | 5 |
| 15-Oct | | | | | | | | 1 |
| 16-Oct | | | | | | | | |
| 17-Oct | | | | | | | | |
| 18-Oct | | | | | | | | |
| 19-Oct | | | | | | | | |
| 20-Oct | | 3 | | | | | | |
| 21-Oct | | 1 | | | | | | |
| 22-Oct | | 4 | | | | | | |
| 23-Oct | | 1 | 1 | | | | | |
| 24-Oct | | 2 | | | | | | 1 |
| 25-Oct | | | | | | | | |

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Appendix A5. (Page 4 of 4).

| Date | Number Dolly V. Tagged | Species[a] | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | DV | SS | PS | KS | RS | CS | SH |
| 26-Oct | | 5 | | | | | | |
| 27-Oct | | | | | | | | |
| 28-Oct | | | | | | | | |
| 29-Oct | | 1 | | | | | | |
| 30-Oct | 2 | 2 | | | | | | 2 |
| 31-Oct | | 2 | | | | | | 1 |
| 01-Nov | 3 | 3 | | | | | | 2 |
| 02-Nov | | | | | | | | 7 |
| 03-Nov | 4 | 4 | | | | | | 1 |
| 04-Nov | 1 | 1 | | | | | | 2 |
| 05-Nov | | | 1 | | | | | 1 |
| 06-Nov | | | 1 | | | | | |
| Totals: | 16 | 11,384 | 20,187 | 4,729 | 95 | 212 | 165 | 769 |

[a] Species: DV=Dolly Varden char
SS=coho salmon
PS=pink salmon
KS=chinook salmon
RS=sockeye salmon
CS=chum salmon
SH=steelhead/rainbow trout

Appendix A6. The number of Dolly Varden char, by day, passed downstream through the Anchor River weir during 1989. Also included are the number of fish that were tagged at the time of emigration.

| DATE | Daily Count | No. Tag | DATE | Daily Count | No. Tag | DATE | Daily Count | No. Tag | DATE | Daily Count | No. Tag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04-Jul | | | 08-Aug | 21 | 4 | 12-Sep | | | 17-Oct | | |
| 05-Jul | | | 09-Aug | 16 | 8 | 13-Sep | | | 18-Oct | | |
| 06-Jul | | | 10-Aug | 35 | 10 | 14-Sep | | | 19-Oct | | |
| 07-Jul | 1 | | 11-Aug | 37 | 22 | 15-Sep | | | 20-Oct | | |
| 08-Jul | | | 12-Aug | 11 | 7 | 16-Sep | | | 21-Oct | | |
| 09-Jul | | | 13-Aug | | | 17-Sep | | | 22-Oct | | |
| 10-Jul | | | 14-Aug | 11 | 5 | 18-Sep | | | 23-Oct | | |
| 11-Jul | | | 15-Aug | 30 | 7 | 19-Sep | | | 24-Oct | | |
| 12-Jul | 1 | | 16-Aug | 14 | 4 | 20-Sep | | | 25-Oct | | |
| 13-Jul | | | 17-Aug | 40 | 22 | 21-Sep | | | 26-Oct | | |
| 14-Jul | | | 18-Aug | 25 | 13 | 22-Sep | 1 | 1 | 27-Oct | | |
| 15-Jul | 1 | | 19-Aug | 75 | 64 | 23-Sep | | | 28-Oct | | |
| 16-Jul | | | 20-Aug | 41 | 41 | 24-Sep | | | 29-Oct | | |
| 17-Jul | | | 21-Aug | | | 25-Sep | | | 30-Oct | 2 | 2 |
| 18-Jul | 1 | | 22-Aug | 29 | 25 | 26-Sep | | | 31-Oct | | |
| 19-Jul | 2 | 2 | 23-Aug | 5 | 2 | 27-Sep | | | 01-Nov | | |
| 20-Jul | | | 24-Aug | 4 | | 28-Sep | | | 02-Nov | | |
| 21-Jul | | | 25-Aug | 11 | | 29-Sep | | | 03-Nov | | |
| 22-Jul | 2 | | 26-Aug | | | 30-Sep | | | 04-Nov | | |
| 23-Jul | | | 27-Aug | 3 | | 01-Oct | | | 05-Nov | | |
| 24-Jul | | | 28-Aug | 3 | | 02-Oct | | | 06-Nov | | |
| 25-Jul | | | 29-Aug | 3 | | 03-Oct | | | 07-Nov | | |
| 26-Jul | | | 30-Aug | 1 | | 04-Oct | | | | | |
| 27-Jul | | | 31-Aug | | | 05-Oct | | | Totals: | 484 | 267 |
| 28-Jul | 4 | 1 | 01-Sep | | | 06-Oct | | | | | |
| 29-Jul | | | 02-Sep | | | 07-Oct | | | | | |
| 30-Jul | | | 03-Sep | | | 08-Oct | | | | | |
| 31-Jul | | | 04-Sep | | | 09-Oct | | | | | |
| 01-Aug | 2 | | 05-Sep | | | 10-Oct | | | | | |
| 02-Aug | 15 | 4 | 06-Sep | | | 11-Oct | | | | | |
| 03-Aug | 12 | 5 | 07-Sep | | | 12-Oct | | | | | |
| 04-Aug | 3 | | 08-Sep | | | 13-Oct | | | | | |
| 05-Aug | 10 | 9 | 09-Sep | | | 14-Oct | | | | | |
| 06-Aug | 8 | 8 | 10-Sep | | | 15-Oct | | | | | |
| 07-Aug | 3 | 1 | 11-Sep | 1 | | 16-Oct | | | | | |

Appendix A7. Detailed release and recovery information from all Dolly Varden char tagged and released from 1986-1989.

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 51 | | 01-Oct-86 | 05-May-87 | 216 | AR | E BAY | SUB. |
| 24 | | 01-Oct-86 | 19-Oct-87 | 383 | AR | AR | Angler |
| 70 | | 02-Oct-86 | 26-Jul-87 | 297 | AR | AR | Angler |
| 57 | | 02-Oct-86 | 28-Jul-87 | 299 | AR | AR | Angler |
| | 1001 | 08-Jul-87 | 19-Jul-87 | 11 | AR | AR | Weir |
| | 1004 | 09-Jul-87 | 23-Jul-87 | 14 | AR | AR | Weir |
| | 1026 | 11-Jul-87 | 12-Jul-87 | 1 | AR | AR | Weir |
| | 1019 | 11-Jul-87 | 31-Jul-87 | 20 | AR | ARW | Weir |
| | 1027 | 11-Jul-87 | 11-May-88 | 305 | AR | H SPIT | Angler |
| | 1037 | 12-Jul-87 | 26-Oct-87 | 106 | AR | AR | Angler |
| | 1066 | 13-Jul-87 | 09-Jul-88 | 362 | AR | AR | Weir |
| | 1084 | 13-Jul-87 | 19-Jul-88 | 372 | AR | AR | Weir |
| | 1104 | 14-Jul-87 | 26-Jul-87 | 12 | AR | AR | Weir |
| | 1178 | 15-Jul-87 | 15-Jul-87 | 0 | AR | AR | Angler |
| | 1191 | 15-Jul-87 | 15-Jul-87 | 0 | AR | AR | Angler |
| | 1117 | 15-Jul-87 | 15-Jul-87 | 0 | AR | AR | Weir |
| | 1189 | 15-Jul-87 | 27-Jul-87 | 12 | AR | ARW | Weir |
| | 1188 | 15-Jul-87 | 14-Aug-87 | 30 | AR | ARW | Weir |
| | 1148 | 15-Jul-87 | 14-Aug-87 | 30 | AR | ARW | Weir |
| | 1148 | 15-Jul-87 | 13-Sep-87 | 60 | AR | AR | Angler |
| | 1143 | 15-Jul-87 | 28-Oct-87 | 105 | AR | AR | Angler |
| | 1232 | 16-Jul-87 | 01-Aug-87 | 16 | AR | ARW | Weir |
| | 1341 | 16-Jul-87 | 11-Aug-87 | 26 | AR | AR | Angler |
| | 1347 | 16-Jul-87 | 26-Oct-87 | 102 | AR | AR | Angler |
| | 1369 | 17-Jul-87 | 17-Jul-87 | 0 | AR | AR | Weir |
| | 1372 | 17-Jul-87 | 21-Jul-87 | 4 | AR | AR | Weir |
| | 1546 | 17-Jul-87 | 22-Jul-87 | 5 | AR | AR | Weir |
| | 1402 | 17-Jul-87 | 25-Jul-87 | 8 | AR | AR | Weir |
| | 1397 | 17-Jul-87 | 25-Jul-87 | 8 | AR | AR | Angler |
| | 1362 | 17-Jul-87 | 25-Jul-87 | 8 | AR | AR | Angler |
| | 1392 | 17-Jul-87 | 27-Jul-87 | 10 | AR | ARW | Weir |
| | 1418 | 17-Jul-87 | 30-Jul-87 | 13 | AR | ARW | Weir |
| | 1422 | 17-Jul-87 | 02-Aug-87 | 16 | AR | ARW | Weir |
| | 1447 | 17-Jul-87 | 14-Aug-87 | 28 | AR | ARW | Weir |
| | 1457 | 17-Jul-87 | 15-Jul-88 | 364 | AR | AR | Weir |
| | 1522 | 18-Jul-87 | 18-Jul-87 | 0 | AR | ARW | Weir |
| | 1493 | 18-Jul-87 | 25-Jul-87 | 7 | AR | AR | Angler |
| | 1543 | 18-Jul-87 | 27-Jul-87 | 9 | AR | ARW | Weir |
| | 1569 | 19-Jul-87 | 19-Jul-87 | 0 | AR | AR | Weir |
| | 1553 | 19-Jul-87 | 25-Jul-87 | 6 | AR | ARW | Weir |
| | 1622 | 19-Jul-87 | 13-Jul-88 | 360 | AR | AR | Weir |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| | 1648 | 20-Jul-87 | 20-Jul-87 | 0 | AR | ARW | Weir |
| | 1722 | 20-Jul-87 | 20-Jul-87 | 0 | AR | AR | Weir |
| | 1658 | 20-Jul-87 | 20-Jul-87 | 0 | AR | AR | Weir |
| | 1697 | 20-Jul-87 | 25-Jul-87 | 5 | AR | AR | Angler |
| | 1659 | 20-Jul-87 | 01-Aug-87 | 12 | AR | ARW | Weir |
| | 1647 | 20-Jul-87 | 05-Aug-87 | 16 | AR | ARW | Weir |
| | 1724 | 20-Jul-87 | 07-Sep-87 | 49 | AR | AR | Weir |
| | 6994 | 20-Jul-87 | 25-Oct-87 | 97 | DC | AR | Angler |
| 6990 | | 20-Jul-87 | 15-Jul-88 | 361 | DC | AR | Weir |
| | 1752 | 21-Jul-87 | 24-Jul-87 | 3 | AR | AR | Angler |
| | 1740 | 21-Jul-87 | 10-Aug-87 | 20 | AR | AR | Angler |
| | 1773 | 21-Jul-87 | 12-Aug-87 | 22 | AR | AR | Angler |
| | 1773 | 21-Jul-87 | 12-Aug-87 | 22 | AR | AR | Weir |
| | 1884 | 22-Jul-87 | 1987 | | AR | | |
| | 1883 | 22-Jul-87 | 23-Jul-87 | 1 | AR | AR | Weir |
| | 1851 | 22-Jul-87 | 25-Jul-87 | 3 | AR | AR | Angler |
| | 1826 | 22-Jul-87 | 25-Jul-87 | 3 | AR | ARW | Weir |
| | 1787 | 22-Jul-87 | 26-Jul-87 | 4 | AR | AR | Weir |
| | 1891 | 22-Jul-87 | 29-Jul-87 | 7 | AR | ARW | Weir |
| | 1846 | 22-Jul-87 | 01-Aug-87 | 10 | AR | ARW | Weir |
| | 1875 | 22-Jul-87 | 01-Aug-87 | 10 | AR | ARW | Weir |
| | 4049 | 22-Jul-87 | 07-Sep-87 | 47 | AR | AR | Weir |
| | 1840 | 22-Jul-87 | 22-Sep-87 | 62 | AR | AR | Angler |
| | 1939 | 23-Jul-87 | 25-Jul-87 | 2 | AR | ARW | Weir |
| | 1944 | 23-Jul-87 | 31-Jul-87 | 8 | AR | ARW | Weir |
| | 1924 | 23-Jul-87 | 01-Aug-87 | 9 | AR | AR | Weir |
| | 1946 | 23-Jul-87 | 02-Aug-87 | 10 | AR | AR | Weir |
| | 1912 | 23-Jul-87 | 25-Oct-87 | 94 | AR | AR | Angler |
| | 1930 | 23-Jul-87 | 15-Jul-88 | 358 | AR | AR | Weir |
| | 2027 | 24-Jul-87 | 30-Jul-87 | 6 | AR | AR | Angler |
| | 2005 | 24-Jul-87 | 31-Jul-87 | 7 | AR | ARW | Weir |
| | 1985 | 24-Jul-87 | 02-Aug-87 | 9 | AR | ARW | Weir |
| | 2012 | 24-Jul-87 | 03-Aug-87 | 10 | AR | ARW | Weir |
| | 1999 | 24-Jul-87 | 11-Oct-87 | 79 | AR | AR | Angler |
| | 2148 | 25-Jul-87 | 28-Jul-87 | 3 | AR | ARW | Weir |
| | 2170 | 25-Jul-87 | 28-Jul-87 | 3 | AR | ARW | Weir |
| | 2085 | 25-Jul-87 | 30-Jul-87 | 5 | AR | AR | Weir |
| | 2086 | 25-Jul-87 | 30-Jul-87 | 5 | AR | ARW | Weir |
| | 2117 | 25-Jul-87 | 01-Aug-87 | 7 | AR | ARW | Weir |
| | 2175 | 25-Jul-87 | 03-Aug-87 | 9 | AR | ARW | Weir |
| | 2157 | 25-Jul-87 | 04-Aug-87 | 10 | AR | ARW | Weir |
| | 2131 | 25-Jul-87 | 10-Aug-87 | 16 | AR | AR | Angler |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| | 2061 | 25-Jul-87 | 08-Nov-87 | 106 | AR | DC | Angler |
| | 2071 | 25-Jul-87 | 18-Jul-88 | 359 | AR | AR | Weir |
| | 2190 | 26-Jul-87 | 01-Aug-87 | 6 | AR | ARW | Weir |
| | 4107 | 26-Jul-87 | 14-Sep-87 | 50 | AR | AR | Angler |
| | 2287 | 27-Jul-87 | 27-Jul-87 | 0 | AR | ARW | Weir |
| | 2340 | 27-Jul-87 | 30-Jul-87 | 3 | AR | AR | Weir |
| 148 | | 27-Jul-87 | 03-Aug-87 | 7 | DC | DC | Angler |
| 129 | | 27-Jul-87 | 13-Aug-87 | 17 | DC | ARW | Weir |
| | 2381 | 28-Jul-87 | 04-Aug-87 | 7 | AR | ARW | Weir |
| | 2377 | 28-Jul-87 | 07-Aug-87 | 10 | AR | AR | Angler |
| | 2409 | 28-Jul-87 | 08-Sep-87 | 42 | AR | ARW | Weir |
| | 2438 | 29-Jul-87 | 29-Jul-87 | 0 | AR | ARW | Weir |
| | 2508 | 29-Jul-87 | 29-Jul-87 | 0 | AR | ARW | Weir |
| | 2494 | 29-Jul-87 | 29-Jul-87 | 0 | AR | ARW | Weir |
| | 2507 | 29-Jul-87 | 29-Jul-87 | 0 | AR | ARW | Weir |
| | 2551 | 29-Jul-87 | 30-Jul-87 | 1 | AR | ARW | Weir |
| | 2448 | 29-Jul-87 | 02-Aug-87 | 4 | AR | ARW | Weir |
| | 2492 | 29-Jul-87 | 05-Aug-87 | 7 | AR | AR | Angler |
| | 2437 | 29-Jul-87 | 14-Aug-87 | 16 | AR | ARW | Weir |
| | 2449 | 29-Jul-87 | 23-Aug-87 | 25 | AR | AR | Angler |
| | 2453 | 29-Jul-87 | 14-May-88 | 290 | AR | H SPIT | Angler |
| | 2598 | 30-Jul-87 | 30-Jul-87 | 0 | AR | AR | Angler |
| | 2587 | 30-Jul-87 | 30-Jul-87 | 0 | AR | ARW | Weir |
| | 2586 | 30-Jul-87 | 30-Jul-87 | 0 | AR | ARW | Weir |
| | 2604 | 30-Jul-87 | 01-Aug-87 | 2 | AR | AR | Angler |
| | 2588 | 30-Jul-87 | 01-Aug-87 | 2 | AR | AR | Angler |
| | 2623 | 30-Jul-87 | 04-Aug-87 | 5 | AR | ARW | Weir |
| | 2575 | 30-Jul-87 | 06-Aug-87 | 7 | AR | ARW | Weir |
| | 2576 | 30-Jul-87 | 06-Aug-87 | 7 | AR | ARW | Weir |
| | 2625 | 30-Jul-87 | 06-Sep-87 | 38 | AR | AR | Weir |
| | 2630 | 30-Jul-87 | 01-May-88 | 276 | AR | H SPIT | Angler |
| | 2637 | 31-Jul-87 | 31-Jul-87 | 0 | AR | ARW | Weir |
| | 2679 | 31-Jul-87 | 31-Jul-87 | 0 | AR | ARW | Weir |
| | 2671 | 31-Jul-87 | 31-Jul-87 | 0 | AR | ARW | Weir |
| | 2664 | 31-Jul-87 | 09-Aug-87 | 9 | AR | ARW | Weir |
| | 2658 | 31-Jul-87 | 14-Aug-87 | 14 | AR | AR | Angler |
| | 2692 | 31-Jul-87 | 07-Sep-87 | 38 | AR | AR | Weir |
| | 2777 | 01-Aug-87 | 01-Aug-87 | 0 | AR | ARW | Weir |
| | 2740 | 01-Aug-87 | 01-Aug-87 | 0 | AR | ARW | Weir |
| | 2731 | 01-Aug-87 | 01-Aug-87 | 0 | AR | AR | Weir |
| | 2803 | 01-Aug-87 | 01-Aug-87 | 0 | AR | ARW | Weir |
| | 2811 | 01-Aug-87 | 01-Aug-87 | 0 | AR | ARW | Weir |

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Appendix A7. (Page 4 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| | 2814 | 01-Aug-87 | 03-Aug-87 | 2 | AR | AR | Angler |
| | 2730 | 01-Aug-87 | 10-Aug-87 | 9 | AR | AR | Angler |
| | 2732 | 01-Aug-87 | 11-Aug-87 | 10 | AR | ARW | Weir |
| | 2791 | 01-Aug-87 | 13-Aug-87 | 12 | AR | ARW | Weir |
| | 2821 | 01-Aug-87 | 20-Aug-87 | 19 | AR | ARW | Weir |
| | 2741 | 01-Aug-87 | 07-Sep-87 | 37 | AR | AR | Weir |
| | 2742 | 01-Aug-87 | 02-Oct-87 | 62 | AR | AR | Angler |
| | 2844 | 02-Aug-87 | 02-Aug-87 | 0 | AR | ARW | Weir |
| | 2845 | 02-Aug-87 | 02-Aug-87 | 0 | AR | ARW | Weir |
| | 2895 | 02-Aug-87 | 04-Aug-87 | 2 | AR | ARW | Weir |
| | 2851 | 02-Aug-87 | 05-Aug-87 | 3 | AR | ARW | Weir |
| | 2847 | 02-Aug-87 | 09-Aug-87 | 7 | AR | ARW | Weir |
| | 2855 | 02-Aug-87 | 10-Aug-87 | 8 | AR | AR | Angler |
| | 2841 | 02-Aug-87 | 12-Aug-87 | 10 | AR | AR | Angler |
| | 2904 | 02-Aug-87 | 18-Aug-87 | 16 | AR | AR | Angler |
| | 2875 | 02-Aug-87 | 28-Aug-87 | 26 | AR | AR | Angler |
| | 2831 | 02-Aug-87 | 09-Oct-87 | 68 | AR | AR | Angler |
| | 2892 | 02-Aug-87 | 14-Oct-87 | 73 | AR | AR | Angler |
| | 2843 | 02-Aug-87 | 16-Jul-88 | 349 | AR | AR | Weir |
| | 2939 | 03-Aug-87 | 03-Aug-87 | 0 | AR | AR | Angler |
| | 2999 | 03-Aug-87 | 03-Aug-87 | 0 | AR | ARW | Weir |
| | 2935 | 03-Aug-87 | 03-Aug-87 | 0 | AR | AR | Weir |
| | 2991 | 03-Aug-87 | 03-Aug-87 | 0 | AR | ARW | Weir |
| | 2928 | 03-Aug-87 | 07-Aug-87 | 4 | AR | AR | Angler |
| | 2930 | 03-Aug-87 | 10-Aug-87 | 7 | AR | AR | Angler |
| | 2931 | 03-Aug-87 | 10-Aug-87 | 7 | AR | AR | Angler |
| | 2959 | 03-Aug-87 | 14-Aug-87 | 11 | AR | ARW | Weir |
| | 3017 | 03-Aug-87 | 18-Aug-87 | 15 | AR | ARW | Weir |
| | 3000 | 03-Aug-87 | 23-Aug-87 | 20 | AR | AR | Angler |
| | 2935 | 03-Aug-87 | 05-Sep-87 | 33 | AR | ARW | Weir |
| | 2935 | 03-Aug-87 | 06-Sep-87 | 34 | AR | AR | Weir |
| | 3024 | 04-Aug-87 | 04-Aug-87 | 0 | AR | ARW | Weir |
| | 3037 | 04-Aug-87 | 04-Aug-87 | 0 | AR | ARW | Weir |
| | 3013 | 04-Aug-87 | 04-Aug-87 | 0 | AR | AR | Weir |
| | 3020 | 04-Aug-87 | 07-Aug-87 | 3 | AR | AR | Angler |
| | 3120 | 04-Aug-87 | 07-Aug-87 | 3 | AR | ARW | Weir |
| | 3016 | 04-Aug-87 | 07-Aug-87 | 3 | AR | AR | Angler |
| | 3077 | 04-Aug-87 | 10-Aug-87 | 6 | AR | AR | Weir |
| | 3041 | 04-Aug-87 | 10-Aug-87 | 6 | AR | AR | Found |
| | 3044 | 04-Aug-87 | 13-Aug-87 | 9 | AR | ARW | Weir |
| | 3073 | 04-Aug-87 | 09-Oct-87 | 66 | AR | AR | Angler |
| | 3186 | 05-Aug-87 | 05-Aug-87 | 0 | AR | ARW | Weir |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| | 3143 | 05-Aug-87 | 05-Aug-87 | 0 | AR | ARW | Weir |
| | 3178 | 05-Aug-87 | 05-Aug-87 | 0 | AR | ARW | Weir |
| | 3187 | 05-Aug-87 | 06-Aug-87 | 1 | AR | ARW | Weir |
| | 3147 | 05-Aug-87 | 07-Aug-87 | 2 | AR | AR | Angler |
| | 3130 | 05-Aug-87 | 18-Aug-87 | 13 | AR | ARW | Weir |
| | 3199 | 05-Aug-87 | 27-Aug-87 | 22 | AR | ARW | Weir |
| | 3141 | 05-Aug-87 | 18-Jul-88 | 348 | AR | AR | Weir |
| | 3260 | 06-Aug-87 | 06-Aug-87 | 0 | AR | ARW | Weir |
| | 3292 | 06-Aug-87 | 06-Aug-87 | 0 | AR | ARW | Weir |
| | 3245 | 06-Aug-87 | 06-Aug-87 | 0 | AR | ARW | Weir |
| | 3225 | 06-Aug-87 | 07-Aug-87 | 1 | AR | ARW | Weir |
| | 3249 | 06-Aug-87 | 07-Aug-87 | 1 | AR | AR | Weir |
| | 3301 | 06-Aug-87 | 13-Aug-87 | 7 | AR | ARW | Weir |
| | 3273 | 06-Aug-87 | 20-Aug-87 | 14 | AR | AR | Weir |
| | 3273 | 06-Aug-87 | 21-Aug-87 | 15 | AR | AR | Angler |
| | 3296 | 06-Aug-87 | 23-Aug-87 | 17 | AR | AR | Weir |
| | 3238 | 06-Aug-87 | 07-Sep-87 | 32 | AR | AR | Weir |
| | 3289 | 06-Aug-87 | 07-Sep-87 | 32 | AR | AR | Weir |
| | 3290 | 06-Aug-87 | 28-Jul-88 | 357 | AR | ARW | Weir |
| | 3325 | 07-Aug-87 | 07-Aug-87 | 0 | AR | AR | Weir |
| | 3427 | 07-Aug-87 | 07-Aug-87 | 0 | AR | ARW | Weir |
| | 3347 | 07-Aug-87 | 07-Aug-87 | 0 | AR | AR | Weir |
| | 3338 | 07-Aug-87 | 14-Aug-87 | 7 | AR | ARW | Weir |
| | 3349 | 07-Aug-87 | 17-Aug-87 | 10 | AR | ARW | Weir |
| | 3330 | 07-Aug-87 | 19-Aug-87 | 12 | AR | AR | Weir |
| | 3421 | 07-Aug-87 | 19-Aug-87 | 12 | AR | AR | Weir |
| | 3347 | 07-Aug-87 | 12-Sep-87 | 36 | AR | AR | Angler |
| | 3500 | 08-Aug-87 | 08-Aug-87 | 0 | AR | ARW | Weir |
| | 3485 | 08-Aug-87 | 08-Aug-87 | 0 | AR | ARW | Weir |
| | 3494 | 08-Aug-87 | 08-Aug-87 | 0 | AR | ARW | Weir |
| | 3496 | 08-Aug-87 | 08-Aug-87 | 0 | AR | ARW | Weir |
| 155 | 3523 | 08-Aug-87 | 09-Aug-87 | 1 | AR | AR | Weir |
| | 3428 | 08-Aug-87 | 11-Aug-87 | 3 | AR | ARW | Weir |
| | 3502 | 08-Aug-87 | 14-Aug-87 | 6 | AR | AR | Angler |
| 159 | 3527 | 08-Aug-87 | 17-Aug-87 | 9 | AR | AR | Weir |
| 160 | 3528 | 08-Aug-87 | 19-Aug-87 | 11 | AR | ARW | Weir |
| 154 | 3522 | 08-Aug-87 | 20-Aug-87 | 12 | AR | ARW | Weir |
| | 3467 | 08-Aug-87 | 09-Jul-88 | 336 | AR | AR | Weir |
| | 3441 | 08-Aug-87 | 16-Jul-88 | 343 | AR | NRW | Weir |
| 153 | | 08-Aug-87 | 22-Jul-88 | 349 | AR | AR | Angler |
| 176 | 3544 | 09-Aug-87 | 09-Aug-87 | 0 | AR | ARW | Weir |
| 161 | 3529 | 09-Aug-87 | 09-Aug-87 | 0 | AR | ARW | Weir |

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Appendix A7. (Page 6 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 185 | 3554 | 09-Aug-87 | 12-Aug-87 | 3 | AR | AR | Angler |
| | 3551 | 09-Aug-87 | 13-Aug-87 | 4 | AR | AR | Weir |
| 207 | 3573 | 09-Aug-87 | 14-Aug-87 | 5 | AR | AR | Angler |
| 168 | 3536 | 09-Aug-87 | 16-Aug-87 | 7 | AR | ARW | Weir |
| 166 | 3534 | 09-Aug-87 | 18-Aug-87 | 9 | AR | ARW | Weir |
| 163 | 3531 | 09-Aug-87 | 18-Aug-87 | 9 | AR | ARW | Weir |
| 213 | 3580 | 09-Aug-87 | 20-Aug-87 | 11 | AR | ARW | Weir |
| 208 | 3574 | 09-Aug-87 | 20-Aug-87 | 11 | AR | AR | Weir |
| 165 | 3533 | 09-Aug-87 | 22-Aug-87 | 13 | AR | AR | Weir |
| 222 | 3589 | 09-Aug-87 | 22-Aug-87 | 13 | AR | ARW | Weir |
| 208 | 3574 | 09-Aug-87 | 26-Aug-87 | 17 | AR | ARW | Weir |
| 205 | 3571 | 09-Aug-87 | 27-Aug-87 | 18 | AR | ARW | Weir |
| 224 | 3591 | 09-Aug-87 | 30-Aug-87 | 21 | AR | AR | Weir |
| LOST | 3581 | 09-Aug-87 | 14-Oct-87 | 66 | AR | AR | Angler |
| 169 | LOST | 09-Aug-87 | 21-Oct-87 | 73 | AR | AR | Angler |
| 218 | 3585 | 09-Aug-87 | 26-Oct-87 | 78 | AR | AR | Angler |
| 191 | | 09-Aug-87 | 16-Jul-88 | 342 | AR | AR | Weir |
| 181 | | 09-Aug-87 | 21-Jul-88 | 347 | AR | AR | Weir |
| 226 | | 09-Aug-87 | 26-Jul-88 | 352 | AR | AR | Weir |
| 273 | 3636 | 10-Aug-87 | 10-Aug-87 | 0 | AR | ARW | Weir |
| 269 | 3632 | 10-Aug-87 | 10-Aug-87 | 0 | AR | ARW | Weir |
| 249 | 3612 | 10-Aug-87 | 10-Aug-87 | 0 | AR | ARW | Weir |
| 243 | 3606 | 10-Aug-87 | 10-Aug-87 | 0 | AR | ARW | Weir |
| 257 | 3620 | 10-Aug-87 | 11-Aug-87 | 1 | AR | ARW | Weir |
| | 3600 | 10-Aug-87 | 16-Aug-87 | 6 | AR | AR | Weir |
| 246 | 3609 | 10-Aug-87 | 16-Aug-87 | 6 | AR | AR | Weir |
| | 3641 | 10-Aug-87 | 16-Aug-87 | 6 | AR | AR | Weir |
| 240 | 3603 | 10-Aug-87 | 17-Aug-87 | 7 | AR | AR | Weir |
| 234 | 3599 | 10-Aug-87 | 18-Aug-87 | 8 | AR | ARW | Weir |
| 244 | 3607 | 10-Aug-87 | 18-Aug-87 | 8 | AR | ARW | Weir |
| 240 | 3603 | 10-Aug-87 | 19-Aug-87 | 9 | AR | AR | Weir |
| 247 | 3610 | 10-Aug-87 | 19-Aug-87 | 9 | AR | AR | Weir |
| 277 | 3640 | 10-Aug-87 | 19-Aug-87 | 9 | AR | AR | Weir |
| 248 | 3611 | 10-Aug-87 | 19-Aug-87 | 9 | AR | ARW | Weir |
| 266 | 3629 | 10-Aug-87 | 19-Aug-87 | 9 | AR | AR | Weir |
| 284 | 3647 | 10-Aug-87 | 19-Aug-87 | 9 | AR | ARW | Weir |
| 256 | 3619 | 10-Aug-87 | 19-Aug-87 | 9 | AR | AR | Weir |
| 260 | 3623 | 10-Aug-87 | 20-Aug-87 | 10 | AR | AR | Weir |
| 261 | 3624 | 10-Aug-87 | 20-Aug-87 | 10 | AR | ARW | Weir |
| 290 | 3652 | 10-Aug-87 | 21-Aug-87 | 11 | AR | ARW | Weir |
| LOST | 3639 | 10-Aug-87 | 21-Aug-87 | 11 | AR | ARW | Weir |
| 293 | 3655 | 10-Aug-87 | 22-Aug-87 | 12 | AR | ARW | Weir |

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Appendix A7. (Page 7 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 288 | 3650 | 10-Aug-87 | 24-Aug-87 | 14 | AR | AR | Weir |
| 299 | LOST | 10-Aug-87 | 26-Aug-87 | 16 | AR | ARW | Weir |
| 302 | 3664 | 10-Aug-87 | 01-Sep-87 | 22 | AR | ARW | Weir |
| 265 | 3628 | 10-Aug-87 | 02-Sep-87 | 23 | AR | AR | Weir |
| 258 | 3621 | 10-Aug-87 | 07-Sep-87 | 28 | AR | AR | Weir |
| LOST | 3646 | 10-Aug-87 | 11-Jul-88 | 336 | AR | AR | Angler |
| 280 | | 10-Aug-87 | 22-Jul-88 | 347 | AR | AR | Weir |
| 295 | LOST | 10-Aug-87 | 04-Jun-89 | 664 | AR | M SPIT | Angler |
| 342 | 3703 | 11-Aug-87 | 1987 | | AR | ARW | Weir |
| 325 | 3685 | 11-Aug-87 | 1987 | | AR | ARW | Weir |
| 356 | 3715 | 11-Aug-87 | 1987 | | AR | ARW | Weir |
| 369 | 3724 | 11-Aug-87 | 1987 | | AR | ARW | Weir |
| 320 | 3680 | 11-Aug-87 | 11-Aug-87 | 0 | AR | ARW | Weir |
| LOST | 3670 | 11-Aug-87 | 11-Aug-87 | 0 | AR | ARW | Weir |
| 357 | 3716 | 11-Aug-87 | 11-Aug-87 | 0 | AR | ARW | Weir |
| 360 | 3718 | 11-Aug-87 | 11-Aug-87 | 0 | AR | ARW | Weir |
| 346 | 3708 | 11-Aug-87 | 11-Aug-87 | 0 | AR | ARW | Weir |
| 366 | 3722 | 11-Aug-87 | 19-Aug-87 | 8 | AR | ARW | Weir |
| 373 | 3727 | 11-Aug-87 | 20-Aug-87 | 9 | AR | ARW | Weir |
| 317 | LOST | 11-Aug-87 | 20-Aug-87 | 9 | AR | ARW | Weir |
| 355 | 3714 | 11-Aug-87 | 20-Aug-87 | 9 | AR | AR | Weir |
| 336 | LOST | 11-Aug-87 | 21-Aug-87 | 10 | AR | ARW | Weir |
| 371 | 3725 | 11-Aug-87 | 23-Aug-87 | 12 | AR | AR | Weir |
| 312 | 3673 | 11-Aug-87 | 23-Aug-87 | 12 | AR | AR | Weir |
| 307 | 3668 | 11-Aug-87 | 25-Aug-87 | 14 | AR | ARW | Weir |
| 371 | LOST | 11-Aug-87 | 26-Aug-87 | 15 | AR | AR | Angler |
| | 2749 | 11-Aug-87 | 06-May-88 | 269 | AR | CG | CF |
| 390 | 3743 | 12-Aug-87 | AUGUST 87 | | AR | AR | Angler |
| 378 | 3732 | 12-Aug-87 | 12-Aug-87 | 0 | AR | ARW | Weir |
| 376 | 3730 | 12-Aug-87 | 12-Aug-87 | 0 | AR | ARW | Weir |
| 375 | 3739 | 12-Aug-87 | 19-Aug-87 | 7 | AR | AR | Weir |
| 392 | 3745 | 12-Aug-87 | 20-Aug-87 | 8 | AR | AR | Weir |
| 396 | 3747 | 12-Aug-87 | 22-Aug-87 | 10 | AR | AR | Weir |
| LOST | 3747 | 12-Aug-87 | 25-Aug-87 | 13 | AR | AR | Weir |
| 397 | 3748 | 12-Aug-87 | 26-Aug-87 | 14 | AR | ARW | Weir |
| LOST | 3751 | 12-Aug-87 | 28-Aug-87 | 16 | AR | ARW | Weir |
| 379 | | 12-Aug-87 | 18-Jul-88 | 341 | AR | AR | Weir |
| 439 | 3788 | 13-Aug-87 | 1987 | | AR | ARW | Weir |
| LOST | 3769 | 13-Aug-87 | 13-Aug-87 | 0 | AR | ARW | Weir |
| 413 | 3765 | 13-Aug-87 | 15-Aug-87 | 2 | AR | AR | Angler |
| 423 | 3777 | 13-Aug-87 | 19-Aug-87 | 6 | AR | AR | Weir |
| 432 | 3783 | 13-Aug-87 | 20-Aug-87 | 7 | AR | ARW | Weir |

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Appendix A7. (Page 8 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| LOST | 3781 | 13-Aug-87 | 22-Aug-87 | 9 | AR | ARW | Weir |
| 418 | 3770 | 13-Aug-87 | 25-Aug-87 | 12 | AR | ARW | Weir |
| 422 | 3775 | 13-Aug-87 | 25-Aug-87 | 12 | AR | ARW | Weir |
| 435 | 3786 | 13-Aug-87 | 31-Aug-87 | 18 | AR | AR | Weir |
| 431 | 3782 | 13-Aug-87 | 11-Oct-87 | 59 | AR | AR | Angler |
| 422 | | 13-Aug-87 | 06-Jul-89 | 693 | AR | ARW | Weir |
| 478 | 3837 | 14-Aug-87 | 21-Aug-87 | 7 | AR | ARW | Weir |
| 453 | 3811 | 14-Aug-87 | 22-Aug-87 | 8 | AR | ARW | Weir |
| 468 | 3829 | 14-Aug-87 | 22-Aug-87 | 8 | AR | ARW | Weir |
| 475 | 3835 | 14-Aug-87 | 22-Aug-87 | 8 | AR | ARW | Weir |
| 461 | 3823 | 14-Aug-87 | 22-Aug-87 | 8 | AR | ARW | Weir |
| | 3840 | 14-Aug-87 | 23-Aug-87 | 9 | AR | AR | Weir |
| 455 | 3815 | 14-Aug-87 | 28-Aug-87 | 14 | AR | ARW | Weir |
| 476 | 3836 | 14-Aug-87 | 28-Aug-87 | 14 | AR | ARW | Weir |
| 460 | | 14-Aug-87 | 20-Jul-88 | 341 | AR | AR | Weir |
| 460 | | 14-Aug-87 | 14-Jul-89 | 700 | AR | AR | Angler |
| 485 | 3846 | 15-Aug-87 | 15-Aug-87 | 0 | AR | AR | Weir |
| 494 | 3860 | 15-Aug-87 | 22-Aug-87 | 7 | AR | ARW | Weir |
| 496 | 3854 | 15-Aug-87 | 25-Aug-87 | 10 | AR | ARW | Weir |
| 487 | 3848 | 15-Aug-87 | 26-Aug-87 | 11 | AR | AR | Weir |
| 481 | LOST | 15-Aug-87 | 31-Aug-87 | 16 | AR | AR | Angler |
| | 3867 | 15-Aug-87 | 18-May-88 | 277 | AR | CG | CF |
| 560 | 3881 | 17-Aug-87 | 17-Aug-87 | 0 | AR | ARW | Weir |
| 561 | 3882 | 17-Aug-87 | 17-Aug-87 | 0 | AR | ARW | Weir |
| 367 | 3868 | 17-Aug-87 | 17-Aug-87 | 0 | AR | AR | Weir |
| 558 | 3879 | 17-Aug-87 | 23-Aug-87 | 6 | AR | AR | Weir |
| 552 | 3873 | 17-Aug-87 | 24-Aug-87 | 7 | AR | AR | Weir |
| 574 | 3896 | 17-Aug-87 | 26-Aug-87 | 9 | AR | ARW | Weir |
| 571 | 3893 | 17-Aug-87 | 26-Aug-87 | 9 | AR | ARW | Weir |
| 567 | 3889 | 17-Aug-87 | 28-Aug-87 | 11 | AR | ARW | Weir |
| 573 | 3895 | 17-Aug-87 | 30-Aug-87 | 13 | AR | AR | Weir |
| 575 | 3897 | 17-Aug-87 | 01-Sep-87 | 15 | AR | ARW | Weir |
| LOST | 3888 | 17-Aug-87 | 02-Sep-87 | 16 | AR | ARW | Weir |
| 580 | 3902 | 17-Aug-87 | 05-Sep-87 | 19 | AR | ARW | Weir |
| 579 | 3901 | 17-Aug-87 | 08-Sep-87 | 22 | AR | AR | Weir |
| 569 | 3891 | 17-Aug-87 | 21-Jul-88 | 339 | AR | AR | Weir |
| 501 | 3925 | 18-Aug-87 | 1987 | | AR | ARW | Weir |
| 505 | 3929 | 18-Aug-87 | 23-Aug-87 | 5 | AR | AR | Weir |
| 512 | 3936 | 18-Aug-87 | 24-Aug-87 | 6 | AR | AR | Weir |
| 502 | 3927 | 18-Aug-87 | 26-Aug-87 | 8 | AR | ARW | Weir |
| 510 | 3934 | 18-Aug-87 | 26-Aug-87 | 8 | AR | ARW | Weir |
| 600 | 3921 | 18-Aug-87 | 26-Aug-87 | 8 | AR | ARW | Weir |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 503 | 3926 | 18-Aug-87 | 26-Aug-87 | 8 | AR | ARW | Weir |
| 518 | 3942 | 18-Aug-87 | 28-Aug-87 | 10 | AR | ARW | Weir |
| 506 | 3930 | 18-Aug-87 | 28-Aug-87 | 10 | AR | AR | Weir |
| 515 | 3939 | 18-Aug-87 | 16-Oct-87 | 59 | AR | AR | Angler |
| 514 | | 18-Aug-87 | 08-Aug-88 | 356 | AR | AR | Angler |
| 537 | 3963 | 19-Aug-87 | 25-Aug-87 | 6 | AR | ARW | Weir |
| 536 | 3962 | 19-Aug-87 | 28-Aug-87 | 9 | AR | ARW | Weir |
| 546 | 3966 | 19-Aug-87 | 29-Aug-87 | 10 | AR | ARW | Weir |
| 544 | | 19-Aug-87 | 30-Aug-87 | 11 | AR | AR | Weir |
| 532 | 3957 | 19-Aug-87 | 01-Sep-87 | 13 | AR | AR | Weir |
| 540 | LOST | 19-Aug-87 | 04-Sep-87 | 16 | AR | ARW | Weir |
| 542 | | 19-Aug-87 | 05-Sep-87 | 17 | AR | ARW | Weir |
| 529 | 3953 | 19-Aug-87 | 01-Jun-88 | 287 | AR | H SPIT | Angler |
| | 3977 | 20-Aug-87 | 1987 | | AR | ARW | Weir |
| | 3983 | 20-Aug-87 | 1987 | | AR | AR | Weir |
| | 3967 | 20-Aug-87 | 23-Aug-87 | 3 | AR | AR | Weir |
| 548 | 3970 | 20-Aug-87 | 29-Aug-87 | 9 | AR | ARW | Weir |
| | 3969 | 20-Aug-87 | 01-Sep-87 | 12 | AR | ARW | Weir |
| | 4006 | 21-Aug-87 | 21-Aug-87 | 0 | AR | ARW | Weir |
| | 4012 | 21-Aug-87 | 28-Aug-87 | 7 | AR | AR | Weir |
| | 4004 | 21-Aug-87 | 29-Aug-87 | 8 | AR | ARW | Weir |
| | 4012 | 21-Aug-87 | 29-Aug-87 | 8 | AR | AR | Weir |
| | 4028 | 22-Aug-87 | 22-Aug-87 | 0 | AR | AR | Weir |
| | 4019 | 22-Aug-87 | 22-Aug-87 | 0 | AR | ARW | Weir |
| | 4018 | 22-Aug-87 | 22-Aug-87 | 0 | AR | ARW | Weir |
| | 4023 | 22-Aug-87 | 01-Sep-87 | 10 | AR | AR | Weir |
| | 4039 | 22-Aug-87 | 03-Oct-87 | 42 | AR | AR | Angler |
| | 4063 | 24-Aug-87 | 25-Aug-87 | 1 | AR | ARW | Weir |
| | 4078 | 25-Aug-87 | 25-Aug-87 | 0 | AR | AR | Weir |
| | 4087 | 25-Aug-87 | 25-Jul-88 | 335 | AR | AR | Weir |
| | 4087 | 25-Aug-87 | 26-Jul-88 | 336 | AR | AR | Weir |
| | 4107 | 26-Aug-87 | 17-Sep-87 | 22 | AR | AR | Weir |
| | 4114 | 27-Aug-87 | 09-Jul-88 | 317 | AR | AR | Weir |
| | 4125 | 28-Aug-87 | 28-Aug-87 | 0 | AR | AR | Angler |
| | 4128 | 28-Aug-87 | 29-Aug-87 | 1 | AR | ARW | Weir |
| | 4125 | 28-Aug-87 | 27-Sep-87 | 30 | AR | AR | Angler |
| | 4141 | 30-Aug-87 | 30-Jul-88 | 335 | AR | KR | Angler |
| | 4152 | 01-Sep-87 | 06-Sep-87 | 5 | AR | AR | Weir |
| | 4166 | 04-Sep-87 | 07-Sep-87 | 3 | AR | AR | Weir |
| | 4201 | 06-Sep-87 | 07-Sep-87 | 1 | AR | AR | Weir |
| | 4210 | 06-Sep-87 | 27-Sep-87 | 21 | AR | AR | Angler |
| | 4234 | 07-Sep-87 | 07-Sep-87 | 0 | AR | AR | Weir |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| | 4237 | 07-Sep-87 | 09-Sep-87 | 2 | AR | AR | Weir |
| | 4237 | 07-Sep-87 | 10-Sep-87 | 3 | AR | ARW | Weir |
| | 4235 | 07-Sep-87 | 16-Jul-88 | 313 | AR | AR | Weir |
| | 4244 | 08-Sep-87 | 18-Jul-88 | 314 | AR | AR | Weir |
| 958 | | 22-Sep-87 | 09-Oct-87 | 17 | NR | NR | Angler |
| 993 | | 22-Sep-87 | 27-Jul-89 | 674 | NR | ARW | Weir |
| 933 | | 24-Sep-87 | 25-Oct-87 | 31 | NR | AR | Angler |
| 909 | | 24-Sep-87 | 15-May-88 | 234 | NR | CG | CF |
| 943 | | 24-Sep-87 | 17-Jul-88 | 297 | NR | NRW | Weir |
| 620 | | 08-Jul-88 | 31-Jul-88 | 23 | AR | AR | Angler |
| 711 | | 08-Jul-88 | 01-Aug-88 | 24 | AR | AR | Weir |
| 737 | | 08-Jul-88 | 15-Jul-89 | 372 | AR | ARW | Weir |
| 650 | | 09-Jul-88 | 14-Jul-88 | 5 | AR | AR | Weir |
| 875 | | 09-Jul-88 | 17-Jul-88 | 8 | AR | AR | Angler |
| 819 | | 09-Jul-88 | 18-Jul-88 | 9 | AR | AR | Angler |
| 816 | | 09-Jul-88 | 18-Jul-88 | 9 | AR | AR | Weir |
| 755 | | 09-Jul-88 | 20-Jul-88 | 11 | AR | AR | Angler |
| 806 | | 09-Jul-88 | 20-Jul-88 | 11 | AR | AR | Weir |
| 811 | | 09-Jul-88 | 21-Jul-88 | 12 | AR | AR | Weir |
| 766 | | 09-Jul-88 | 22-Jul-88 | 13 | AR | AR | Weir |
| 788 | | 09-Jul-88 | 27-Jul-88 | 18 | AR | AR | Angler |
| 878 | | 09-Jul-88 | 11-Jul-89 | 367 | AR | ARW | Weir |
| 829 | | 09-Jul-88 | 12-Jul-89 | 368 | AR | ARW | Weir |
| 813 | | 09-Jul-88 | 21-Jul-89 | 377 | AR | ARW | Weir |
| 852 | | 09-Jul-88 | 23-Jul-89 | 379 | AR | ARW | Weir |
| 777 | | 09-Jul-88 | 29-Jul-89 | 385 | AR | ARW | Weir |
| 350 | | 10-Jul-88 | ? | | AR | AR | Weir |
| 90 | | 10-Jul-88 | 13-Jul-88 | 3 | AR | AR | Weir |
| 640 | | 10-Jul-88 | 14-Jul-88 | 4 | AR | AR | Weir |
| 742 | | 10-Jul-88 | 14-Jul-88 | 4 | AR | AR | Weir |
| 710 | | 10-Jul-88 | 17-Jul-88 | 7 | AR | AR | Angler |
| 680 | | 10-Jul-88 | 18-Jul-88 | 8 | AR | AR | Weir |
| 699 | | 10-Jul-88 | 27-Jul-88 | 17 | AR | AR | Weir |
| 503 | | 10-Jul-88 | 31-Jul-88 | 21 | AR | AR | Weir |
| 799 | | 10-Jul-88 | 24-Jul-89 | 379 | AR | ARW | Weir |
| 2 | | 10-Jul-88 | 28-Jul-89 | 383 | AR | ARW | Weir |
| 97 | | 10-Jul-88 | 28-Jul-89 | 383 | AR | ARW | Weir |
| 560 | | 11-Jul-88 | 23-Jul-88 | 12 | AR | AR | Weir |
| 501 | | 11-Jul-88 | 09-Aug-88 | 29 | AR | AR | Angler |
| 457 | | 11-Jul-88 | 29-Jul-89 | 383 | AR | ARW | Weir |
| 116066 | | 12-Jul-88 | 12-Jul-88 | 0 | AR | AR | Weir |
| 116113 | | 12-Jul-88 | 17-Jul-88 | 5 | AR | AR | Angler |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 116085 | | 12-Jul-88 | 18-Jul-88 | 6 | AR | AR | Weir |
| 116134 | | 12-Jul-88 | 18-Jul-88 | 6 | AR | AR | Weir |
| 116058 | | 12-Jul-88 | 19-Jul-88 | 7 | AR | AR | Weir |
| 116149 | | 12-Jul-88 | 19-Jul-88 | 7 | AR | AR | Weir |
| 116092 | | 12-Jul-88 | 20-Jul-88 | 8 | AR | AR | Weir |
| 116009 | | 12-Jul-88 | 20-Jul-88 | 8 | AR | AR | Weir |
| 116025 | | 12-Jul-88 | 20-Jul-88 | 8 | AR | AR | Weir |
| 116099 | | 12-Jul-88 | 21-Jul-88 | 9 | AR | AR | Weir |
| 116008 | | 12-Jul-88 | 21-Jul-88 | 9 | AR | AR | Weir |
| 116091 | | 12-Jul-88 | 23-Jul-88 | 11 | AR | AR | Weir |
| 116075 | | 12-Jul-88 | 28-Jul-88 | 16 | AR | AR | Angler |
| 116137 | | 12-Jul-88 | 01-Aug-88 | 20 | AR | AR | Weir |
| 116103 | | 12-Jul-88 | 03-Aug-88 | 22 | AR | AR | Weir |
| 116014 | | 12-Jul-88 | 09-Aug-88 | 28 | AR | AR | Angler |
| 116049 | | 12-Jul-88 | 18-Jul-89 | 371 | AR | ARW | Weir |
| 116032 | | 12-Jul-88 | 21-Jul-89 | 374 | AR | ARW | Weir |
| 116125 | | 12-Jul-88 | 26-Jul-89 | 379 | AR | ARW | Weir |
| 116019 | | 12-Jul-88 | 26-Jul-89 | 379 | AR | ARW | Weir |
| 116050 | | 12-Jul-88 | 30-Jul-89 | 383 | AR | ARW | Weir |
| 116206 | | 13-Jul-88 | 18-Jul-88 | 5 | AR | AR | Weir |
| 116215 | | 13-Jul-88 | 20-Jul-88 | 7 | AR | AR | Weir |
| 116211 | | 13-Jul-88 | 21-Jul-88 | 8 | AR | AR | Weir |
| 116157 | | 13-Jul-88 | 25-Jul-88 | 12 | AR | AR | Weir |
| 116247 | | 14-Jul-88 | 19-Jul-88 | 5 | AR | AR | Weir |
| 116249 | | 14-Jul-88 | 19-Jul-88 | 5 | AR | AR | Weir |
| 116245 | | 14-Jul-88 | 27-Jul-88 | 13 | AR | AR | Weir |
| 116265 | | 14-Jul-88 | 27-Jul-88 | 13 | AR | AR | Weir |
| 116273 | | 14-Jul-88 | 16-Aug-88 | 33 | AR | AR | P |
| 116260 | | 14-Jul-88 | 25-Jun-89 | 346 | AR | H SPIT | Angler |
| 116261 | | 14-Jul-88 | 27-Jul-89 | 378 | AR | ARW | Weir |
| 116427 | | 15-Jul-88 | 15-Jul-88 | 0 | AR | AR | Angler |
| 116449 | | 15-Jul-88 | 17-Jul-88 | 2 | AR | AR | Angler |
| 116337 | | 15-Jul-88 | 18-Jul-88 | 3 | AR | AR | Weir |
| 116362 | | 15-Jul-88 | 19-Jul-88 | 4 | AR | AR | Weir |
| 116307 | | 15-Jul-88 | 19-Jul-88 | 4 | AR | AR | Weir |
| 116381 | | 15-Jul-88 | 19-Jul-88 | 4 | AR | AR | Angler |
| 116428 | | 15-Jul-88 | 19-Jul-88 | 4 | AR | AR | Weir |
| 116366 | | 15-Jul-88 | 20-Jul-88 | 5 | AR | AR | Angler |
| 116392 | | 15-Jul-88 | 23-Jul-88 | 8 | AR | AR | Weir |
| 116430 | | 15-Jul-88 | 23-Jul-88 | 8 | AR | AR | Weir |
| 116474 | | 15-Jul-88 | 24-Jul-88 | 9 | AR | AR | Weir |
| 116361 | | 15-Jul-88 | 24-Jul-88 | 9 | AR | AR | Weir |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 116500 | | 15-Jul-88 | 24-Jul-88 | 9 | AR | AR | Weir |
| 116351 | | 15-Jul-88 | 24-Jul-88 | 9 | AR | AR | Angler |
| 116498 | | 15-Jul-88 | 26-Jul-88 | 11 | AR | AR | Angler |
| 116390 | | 15-Jul-88 | 26-Jul-88 | 11 | AR | AR | Weir |
| 116461 | | 15-Jul-88 | 27-Jul-88 | 12 | AR | AR | Weir |
| 116459 | | 15-Jul-88 | 27-Jul-88 | 12 | AR | AR | Weir |
| 116318 | | 15-Jul-88 | 27-Jul-88 | 12 | AR | AR | Weir |
| 116325 | | 15-Jul-88 | 28-Jul-88 | 13 | AR | AR | Weir |
| 116469 | | 15-Jul-88 | 29-Jul-88 | 14 | AR | AR | Weir |
| 116435 | | 15-Jul-88 | 29-Jul-88 | 14 | AR | AR | Weir |
| 116323 | | 15-Jul-88 | 30-Jul-88 | 15 | AR | AR | Weir |
| 116335 | | 15-Jul-88 | 09-Aug-88 | 25 | AR | AR | Angler |
| 116482 | | 15-Jul-88 | 10-Aug-88 | 26 | AR | AR | Weir |
| 116283 | | 15-Jul-88 | 16-Aug-88 | 32 | AR | AR | Angler |
| 116319 | | 15-Jul-88 | 28-Sep-88 | 75 | AR | AR | Angler |
| 116437 | | 15-Jul-88 | 20-Oct-88 | 97 | AR | AR | Angler |
| 116470 | | 15-Jul-88 | 25-Jul-89 | 375 | AR | ARW | Weir |
| 116437 | | 15-Jul-88 | 27-Jul-89 | 377 | AR | ARW | Weir |
| 116290 | | 15-Jul-88 | 28-Jul-89 | 378 | AR | ARW | Weir |
| 116463 | | 15-Jul-88 | 28-Jul-89 | 378 | AR | ARW | Weir |
| 116437 | | 15-Jul-88 | 09-Aug-89 | 390 | AR | ARW | Weir |
| 116693 | | 16-Jul-88 | 19-Jul-88 | 3 | AR | AR | Weir |
| 116669 | | 16-Jul-88 | 19-Jul-88 | 3 | AR | AR | Weir |
| 116760 | | 16-Jul-88 | 19-Jul-88 | 3 | AR | AR | Weir |
| 116735 | | 16-Jul-88 | 19-Jul-88 | 3 | AR | AR | Weir |
| 116772 | | 16-Jul-88 | 19-Jul-88 | 3 | AR | AR | Weir |
| 116700 | | 16-Jul-88 | 20-Jul-88 | 4 | AR | AR | Weir |
| 116611 | | 16-Jul-88 | 21-Jul-88 | 5 | AR | AR | Weir |
| 116785 | | 16-Jul-88 | 21-Jul-88 | 5 | AR | AR | Weir |
| 116773 | | 16-Jul-88 | 21-Jul-88 | 5 | AR | AR | Weir |
| 116517 | | 16-Jul-88 | 21-Jul-88 | 5 | AR | AR | Weir |
| 116536 | | 16-Jul-88 | 22-Jul-88 | 6 | AR | AR | Weir |
| 116672 | | 16-Jul-88 | 22-Jul-88 | 6 | AR | AR | Weir |
| 116507 | | 16-Jul-88 | 22-Jul-88 | 6 | AR | AR | Weir |
| 116646 | | 16-Jul-88 | 22-Jul-88 | 6 | AR | AR | Weir |
| 116549 | | 16-Jul-88 | 22-Jul-88 | 6 | AR | AR | Weir |
| 116784 | | 16-Jul-88 | 23-Jul-88 | 7 | AR | AR | Weir |
| 116505 | | 16-Jul-88 | 23-Jul-88 | 7 | AR | AR | Weir |
| 116559 | | 16-Jul-88 | 23-Jul-88 | 7 | AR | AR | Angler |
| 116713 | | 16-Jul-88 | 23-Jul-88 | 7 | AR | AR | Weir |
| 116516 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | AR | Weir |
| 116548 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | AR | Weir |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 116702 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | AR | Weir |
| 116797 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | AR | Weir |
| 116583 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | NR | Angler |
| 116788 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | AR | Weir |
| 116783 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | AR | Weir |
| 116770 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | AR | Weir |
| 116525 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | AR | Weir |
| 116776 | | 16-Jul-88 | 24-Jul-88 | 8 | AR | AR | Weir |
| 116588 | | 16-Jul-88 | 25-Jul-88 | 9 | AR | AR | Weir |
| 116606 | | 16-Jul-88 | 25-Jul-88 | 9 | AR | AR | Weir |
| 116560 | | 16-Jul-88 | 25-Jul-88 | 9 | AR | AR | Weir |
| 116551 | | 16-Jul-88 | 26-Jul-88 | 10 | AR | AR | Weir |
| 116619 | | 16-Jul-88 | 26-Jul-88 | 10 | AR | AR | Weir |
| 116753 | | 16-Jul-88 | 26-Jul-88 | 10 | AR | AR | Weir |
| 116795 | | 16-Jul-88 | 27-Jul-88 | 11 | AR | AR | Weir |
| 116537 | | 16-Jul-88 | 27-Jul-88 | 11 | AR | AR | Angler |
| 116577 | | 16-Jul-88 | 27-Jul-88 | 11 | AR | AR | Weir |
| 116730 | | 16-Jul-88 | 27-Jul-88 | 11 | AR | AR | Weir |
| 116738 | | 16-Jul-88 | 27-Jul-88 | 11 | AR | AR | Weir |
| 116632 | | 16-Jul-88 | 27-Jul-88 | 11 | AR | AR | Weir |
| 116667 | | 16-Jul-88 | 27-Jul-88 | 11 | AR | AR | Weir |
| 116612 | | 16-Jul-88 | 27-Jul-88 | 11 | AR | AR | Weir |
| 116563 | | 16-Jul-88 | 28-Jul-88 | 12 | AR | AR | Angler |
| 116726 | | 16-Jul-88 | 31-Jul-88 | 15 | AR | AR | Weir |
| 116601 | | 16-Jul-88 | 31-Jul-88 | 15 | AR | AR | Weir |
| 116668 | | 16-Jul-88 | 02-Aug-88 | 17 | AR | AR | Weir |
| 116703 | | 16-Jul-88 | 09-Aug-88 | 24 | AR | AR | Angler |
| 120138 | | 16-Jul-88 | 11-Aug-88 | 26 | NR | NR | Angler |
| 116710 | | 16-Jul-88 | 13-Aug-88 | 28 | AR | AR | Angler |
| 120111 | | 16-Jul-88 | 28-Aug-88 | 43 | NR | NR | Angler |
| 120196 | | 16-Jul-88 | 02-Sep-88 | 48 | NR | CC | Weir |
| 116610 | | 16-Jul-88 | 20-Jul-89 | 369 | AR | ARW | Weir |
| 116634 | | 16-Jul-88 | 03-Aug-89 | 383 | AR | ARW | Weir |
| 116818 | | 17-Jul-88 | 18-Jul-88 | 1 | AR | AR | Weir |
| 117021 | | 17-Jul-88 | 21-Jul-88 | 4 | AR | AR | Weir |
| 116802 | | 17-Jul-88 | 21-Jul-88 | 4 | AR | AR | Weir |
| 116868 | | 17-Jul-88 | 21-Jul-88 | 4 | AR | AR | Weir |
| 116923 | | 17-Jul-88 | 21-Jul-88 | 4 | AR | AR | Weir |
| 116971 | | 17-Jul-88 | 21-Jul-88 | 4 | AR | AR | Weir |
| 116968 | | 17-Jul-88 | 21-Jul-88 | 4 | AR | AR | Weir |
| 116908 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116891 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Angler |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 116813 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116893 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116827 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116817 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116811 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116869 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116989 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116998 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116997 | | 17-Jul-88 | 22-Jul-88 | 5 | AR | AR | Weir |
| 116982 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Angler |
| 116924 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 116838 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 116885 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 116920 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 116914 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 116854 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 116825 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 117000 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 116801 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 116826 | | 17-Jul-88 | 23-Jul-88 | 6 | AR | AR | Weir |
| 116866 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116834 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116835 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116808 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116952 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116883 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116822 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 117018 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116855 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116964 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116815 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 117014 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 117005 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 116951 | | 17-Jul-88 | 24-Jul-88 | 7 | AR | AR | Weir |
| 117025 | | 17-Jul-88 | 25-Jul-88 | 8 | AR | AR | Weir |
| 117001 | | 17-Jul-88 | 25-Jul-88 | 8 | AR | AR | Weir |
| 117023 | | 17-Jul-88 | 25-Jul-88 | 8 | AR | AR | Weir |
| 116959 | | 17-Jul-88 | 25-Jul-88 | 8 | AR | AR | Weir |
| 116955 | | 17-Jul-88 | 26-Jul-88 | 9 | AR | AR | Weir |
| 116849 | | 17-Jul-88 | 26-Jul-88 | 9 | AR | AR | Weir |
| 116925 | | 17-Jul-88 | 27-Jul-88 | 10 | AR | AR | Weir |
| 116965 | | 17-Jul-88 | 27-Jul-88 | 10 | AR | AR | Weir |

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| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 116823 | | 17-Jul-88 | 27-Jul-88 | 10 | AR | AR | Weir |
| 117019 | | 17-Jul-88 | 27-Jul-88 | 10 | AR | AR | Weir |
| 116846 | | 17-Jul-88 | 27-Jul-88 | 10 | AR | AR | Weir |
| 116960 | | 17-Jul-88 | 29-Jul-88 | 12 | AR | AR | Weir |
| 116977 | | 17-Jul-88 | 30-Jul-88 | 13 | AR | AR | Weir |
| 116972 | | 17-Jul-88 | 31-Jul-88 | 14 | AR | AR | Weir |
| 117009 | | 17-Jul-88 | 04-Aug-88 | 18 | AR | AR | Angler |
| 116956 | | 17-Jul-88 | 14-Sep-88 | 59 | AR | AR | Angler |
| 116884 | | 17-Jul-88 | 29-Jul-89 | 377 | AR | ARW | Weir |
| 117179 | | 18-Jul-88 | 23-Jul-88 | 5 | AR | AR | Weir |
| 117039 | | 18-Jul-88 | 23-Jul-88 | 5 | AR | AR | Weir |
| 116928 | | 18-Jul-88 | 23-Jul-88 | 5 | AR | AR | Weir |
| 117108 | | 18-Jul-88 | 23-Jul-88 | 5 | AR | AR | Weir |
| 116937 | | 18-Jul-88 | 23-Jul-88 | 5 | AR | AR | Weir |
| 117055 | | 18-Jul-88 | 23-Jul-88 | 5 | AR | AR | Weir |
| 116941 | | 18-Jul-88 | 23-Jul-88 | 5 | AR | AR | Weir |
| 116933 | | 18-Jul-88 | 23-Jul-88 | 5 | AR | AR | Weir |
| 117120 | | 18-Jul-88 | 24-Jul-88 | 6 | AR | AR | Weir |
| 117177 | | 18-Jul-88 | 24-Jul-88 | 6 | AR | AR | Weir |
| 117112 | | 18-Jul-88 | 24-Jul-88 | 6 | AR | AR | Weir |
| 117086 | | 18-Jul-88 | 25-Jul-88 | 7 | AR | AR | Weir |
| 117064 | | 18-Jul-88 | 25-Jul-88 | 7 | AR | AR | Weir |
| 116948 | | 18-Jul-88 | 25-Jul-88 | 7 | AR | AR | Weir |
| 117032 | | 18-Jul-88 | 25-Jul-88 | 7 | AR | AR | Weir |
| 117035 | | 18-Jul-88 | 26-Jul-88 | 8 | AR | AR | Weir |
| 117149 | | 18-Jul-88 | 27-Jul-88 | 9 | AR | AR | Weir |
| 117058 | | 18-Jul-88 | 27-Jul-88 | 9 | AR | AR | Weir |
| 117073 | | 18-Jul-88 | 27-Jul-88 | 9 | AR | AR | Weir |
| 117070 | | 18-Jul-88 | 27-Jul-88 | 9 | AR | AR | Weir |
| 117077 | | 18-Jul-88 | 27-Jul-88 | 9 | AR | AR | Weir |
| 117130 | | 18-Jul-88 | 27-Jul-88 | 9 | AR | AR | Weir |
| 117102 | | 18-Jul-88 | 29-Jul-88 | 11 | AR | AR | Weir |
| 117114 | | 18-Jul-88 | 31-Jul-88 | 13 | AR | AR | Weir |
| 120543 | | 18-Jul-88 | 03-Sep-88 | 47 | NR | NR | Angler |
| 120517 | | 18-Jul-88 | 05-Sep-88 | 49 | NR | NR | Angler |
| 117155 | | 18-Jul-88 | 26-Jul-89 | 373 | AR | ARW | Weir |
| 117206 | | 19-Jul-88 | 19-Jul-88 | 0 | AR | AR | Weir |
| 117260 | | 19-Jul-88 | 24-Jul-88 | 5 | AR | AR | Weir |
| 117272 | | 19-Jul-88 | 26-Jul-88 | 7 | AR | AR | Weir |
| 117279 | | 19-Jul-88 | 27-Jul-88 | 8 | AR | AR | Weir |
| 117315 | | 19-Jul-88 | 27-Jul-88 | 8 | AR | AR | Weir |
| 117204 | | 19-Jul-88 | 27-Jul-88 | 8 | AR | AR | Angler |

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Appendix A7. (Page 16 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 117266 | | 19-Jul-88 | 27-Jul-88 | 8 | AR | AR | Weir |
| 117203 | | 19-Jul-88 | 28-Jul-88 | 9 | AR | AR | Weir |
| 117197 | | 19-Jul-88 | 28-Jul-88 | 9 | AR | AR | Weir |
| 117282 | | 19-Jul-88 | 29-Jul-88 | 10 | AR | AR | Weir |
| 117263 | | 19-Jul-88 | 02-Aug-88 | 14 | AR | AR | Weir |
| 117226 | | 19-Jul-88 | 03-Aug-88 | 15 | AR | AR | Weir |
| 117290 | | 19-Jul-88 | 03-Aug-88 | 15 | AR | AR | Weir |
| 117252 | | 19-Jul-88 | 10-Aug-88 | 22 | AR | AR | Angler |
| 117321 | | 19-Jul-88 | 16-Aug-88 | 28 | AR | AR | Angler |
| 117291 | | 19-Jul-88 | 02-Sep-88 | 45 | AR | AR | Angler |
| 117310 | | 19-Jul-88 | 20-Jul-89 | 366 | AR | ARW | Weir |
| 117344 | | 19-Jul-88 | 28-Jul-89 | 374 | AR | ARW | Weir |
| 117312 | | 19-Jul-88 | 31-Jul-89 | 377 | AR | ARW | Weir |
| 117193 | | 19-Jul-88 | 01-Aug-89 | 378 | AR | ARW | Weir |
| 117386 | | 20-Jul-88 | 24-Jul-88 | 4 | AR | AR | Weir |
| 117550 | | 20-Jul-88 | 25-Jul-88 | 5 | AR | AR | Angler |
| 117403 | | 20-Jul-88 | 25-Jul-88 | 5 | AR | AR | Weir |
| 117368 | | 20-Jul-88 | 27-Jul-88 | 7 | AR | AR | Weir |
| 117417 | | 20-Jul-88 | 27-Jul-88 | 7 | AR | AR | Weir |
| 117405 | | 20-Jul-88 | 27-Jul-88 | 7 | AR | AR | Weir |
| 117413 | | 20-Jul-88 | 27-Jul-88 | 7 | AR | AR | Weir |
| 117366 | | 20-Jul-88 | 27-Jul-88 | 7 | AR | AR | Weir |
| 117395 | | 20-Jul-88 | 27-Jul-88 | 7 | AR | AR | Weir |
| 117399 | | 20-Jul-88 | 28-Jul-88 | 8 | AR | AR | Weir |
| 117534 | | 20-Jul-88 | 28-Jul-88 | 8 | AR | AR | Weir |
| 117379 | | 20-Jul-88 | 28-Jul-88 | 8 | AR | AR | Weir |
| 117402 | | 20-Jul-88 | 28-Jul-88 | 8 | AR | AR | Weir |
| 117383 | | 20-Jul-88 | 29-Jul-88 | 9 | AR | AR | Weir |
| 117468 | | 20-Jul-88 | 29-Jul-88 | 9 | AR | AR | Weir |
| 117441 | | 20-Jul-88 | 29-Jul-88 | 9 | AR | AR | Weir |
| 117442 | | 20-Jul-88 | 29-Jul-88 | 9 | AR | AR | Weir |
| 117478 | | 20-Jul-88 | 31-Jul-88 | 11 | AR | AR | Weir |
| 117472 | | 20-Jul-88 | 31-Jul-88 | 11 | AR | AR | Weir |
| 117429 | | 20-Jul-88 | 31-Jul-88 | 11 | AR | AR | Weir |
| 117492 | | 20-Jul-88 | 01-Aug-88 | 12 | AR | AR | Weir |
| 117437 | | 20-Jul-88 | 02-Aug-88 | 13 | AR | AR | Weir |
| 117485 | | 20-Jul-88 | 02-Aug-88 | 13 | AR | AR | Weir |
| 117466 | | 20-Jul-88 | 02-Aug-88 | 13 | AR | AR | Weir |
| 117487 | | 20-Jul-88 | 02-Aug-88 | 13 | AR | AR | Weir |
| 117382 | | 20-Jul-88 | 02-Aug-88 | 13 | AR | AR | Weir |
| 117544 | | 20-Jul-88 | 03-Aug-88 | 14 | AR | AR | Weir |
| 117391 | | 20-Jul-88 | 03-Aug-88 | 14 | AR | AR | Weir |

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Appendix A7. (Page 17 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 117427 | | 20-Jul-88 | 03-Aug-88 | 14 | AR | AR | Weir |
| 117431 | | 20-Jul-88 | 03-Aug-88 | 14 | AR | AR | Weir |
| 117480 | | 20-Jul-88 | 03-Aug-88 | 14 | AR | AR | Weir |
| 117508 | | 20-Jul-88 | 07-Aug-88 | 18 | AR | AR | Angler |
| 117552 | | 20-Jul-88 | 13-Aug-88 | 24 | AR | AR | Weir |
| 117533 | | 20-Jul-88 | 18-Jul-89 | 363 | AR | ARW | Weir |
| 117436 | | 20-Jul-88 | 28-Jul-89 | 373 | AR | ARW | Weir |
| 117612 | | 21-Jul-88 | 27-Jul-88 | 6 | AR | AR | Weir |
| 117698 | | 21-Jul-88 | 27-Jul-88 | 6 | AR | AR | Weir |
| 117651 | | 21-Jul-88 | 27-Jul-88 | 6 | AR | AR | Weir |
| 117692 | | 21-Jul-88 | 28-Jul-88 | 7 | AR | AR | Weir |
| 117596 | | 21-Jul-88 | 28-Jul-88 | 7 | AR | AR | Weir |
| 117676 | | 21-Jul-88 | 28-Jul-88 | 7 | AR | AR | Weir |
| 117624 | | 21-Jul-88 | 28-Jul-88 | 7 | AR | AR | Weir |
| 117572 | | 21-Jul-88 | 28-Jul-88 | 7 | AR | AR | Weir |
| 117696 | | 21-Jul-88 | 29-Jul-88 | 8 | AR | AR | Weir |
| 117578 | | 21-Jul-88 | 29-Jul-88 | 8 | AR | AR | Weir |
| 117681 | | 21-Jul-88 | 29-Jul-88 | 8 | AR | AR | Weir |
| 117610 | | 21-Jul-88 | 29-Jul-88 | 8 | AR | AR | Weir |
| 117659 | | 21-Jul-88 | 29-Jul-88 | 8 | AR | AR | Weir |
| 117569 | | 21-Jul-88 | 30-Jul-88 | 9 | AR | AR | Weir |
| 117668 | | 21-Jul-88 | 31-Jul-88 | 10 | AR | AR | Weir |
| 117588 | | 21-Jul-88 | 31-Jul-88 | 10 | AR | AR | Weir |
| 117682 | | 21-Jul-88 | 31-Jul-88 | 10 | AR | AR | Weir |
| 117686 | | 21-Jul-88 | 31-Jul-88 | 10 | AR | AR | Weir |
| 117642 | | 21-Jul-88 | 31-Jul-88 | 10 | AR | AR | Weir |
| 117583 | | 21-Jul-88 | 01-Aug-88 | 11 | AR | AR | Weir |
| 117601 | | 21-Jul-88 | 01-Aug-88 | 11 | AR | AR | Weir |
| 117627 | | 21-Jul-88 | 01-Aug-88 | 11 | AR | AR | Weir |
| 117621 | | 21-Jul-88 | 02-Aug-88 | 12 | AR | AR | Weir |
| 117695 | | 21-Jul-88 | 02-Aug-88 | 12 | AR | AR | Weir |
| 117645 | | 21-Jul-88 | 03-Aug-88 | 13 | AR | AR | Weir |
| 117622 | | 21-Jul-88 | 27-Jul-89 | 371 | AR | ARW | Weir |
| 117745 | | 22-Jul-88 | 17-Jul-88 | -5 | AR | AR | Angler |
| 117743 | | 22-Jul-88 | 25-Jul-88 | 3 | AR | AR | Angler |
| 117723 | | 22-Jul-88 | 27-Jul-88 | 5 | AR | AR | Weir |
| 117758 | | 22-Jul-88 | 29-Jul-88 | 7 | AR | AR | Weir |
| 117724 | | 22-Jul-88 | 29-Jul-88 | 7 | AR | AR | Weir |
| 117720 | | 22-Jul-88 | 29-Jul-88 | 7 | AR | AR | Weir |
| 117759 | | 22-Jul-88 | 29-Jul-88 | 7 | AR | AR | Weir |
| 117732 | | 22-Jul-88 | 31-Jul-88 | 9 | AR | AR | Weir |
| 117762 | | 22-Jul-88 | 01-Aug-88 | 10 | AR | AR | Weir |

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Appendix A7. (Page 18 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 117710 | | 22-Jul-88 | 02-Aug-88 | 11 | AR | AR | Weir |
| 117769 | | 22-Jul-88 | 03-Aug-88 | 12 | AR | AR | Angler |
| 117771 | | 22-Jul-88 | 10-Aug-88 | 19 | AR | AR | Weir |
| 117704 | | 22-Jul-88 | 28-Jul-89 | 371 | AR | ARW | Weir |
| 117715 | | 22-Jul-88 | 30-Jul-89 | 373 | AR | ARW | Weir |
| 117840 | | 23-Jul-88 | 29-Jul-88 | 6 | AR | AR | Weir |
| 117843 | | 23-Jul-88 | 29-Jul-88 | 6 | AR | AR | Weir |
| 117835 | | 23-Jul-88 | 30-Jul-88 | 7 | AR | AR | Angler |
| 117847 | | 23-Jul-88 | 31-Jul-88 | 8 | AR | AR | Weir |
| 117858 | | 23-Jul-88 | 31-Jul-88 | 8 | AR | AR | Weir |
| 117861 | | 23-Jul-88 | 01-Aug-88 | 9 | AR | AR | Weir |
| 117842 | | 23-Jul-88 | 01-Aug-88 | 9 | AR | AR | Weir |
| 117836 | | 23-Jul-88 | 01-Aug-88 | 9 | AR | AR | Weir |
| 117801 | | 23-Jul-88 | 03-Aug-88 | 11 | AR | AR | Weir |
| 117795 | | 23-Jul-88 | 24-Aug-88 | 32 | AR | AR | Angler |
| 117792 | | 23-Jul-88 | 23-Jul-89 | 365 | AR | ARW | Weir |
| 117809 | | 23-Jul-88 | 30-Jul-89 | 372 | AR | ARW | Weir |
| 117869 | | 24-Jul-88 | 27-Jul-88 | 3 | AR | AR | Weir |
| 117880 | | 24-Jul-88 | 27-Jul-88 | 3 | AR | AR | Weir |
| 117875 | | 24-Jul-88 | 27-Jul-88 | 3 | AR | AR | Angler |
| 117886 | | 24-Jul-88 | 27-Jul-88 | 3 | AR | AR | Weir |
| 117888 | | 24-Jul-88 | 27-Jul-88 | 3 | AR | AR | Weir |
| 117876 | | 24-Jul-88 | 29-Jul-88 | 5 | AR | AR | Weir |
| 117878 | | 24-Jul-88 | 29-Jul-88 | 5 | AR | AR | Weir |
| 117891 | | 24-Jul-88 | 29-Jul-88 | 5 | AR | AR | Weir |
| 117890 | | 24-Jul-88 | 29-Jul-88 | 5 | AR | AR | Weir |
| 117864 | | 24-Jul-88 | 29-Jul-88 | 5 | AR | AR | Weir |
| 117885 | | 24-Jul-88 | 31-Jul-88 | 7 | AR | AR | Weir |
| 117895 | | 24-Jul-88 | 31-Jul-88 | 7 | AR | AR | Weir |
| 117866 | | 24-Jul-88 | 02-Aug-88 | 9 | AR | AR | Weir |
| 117881 | | 24-Jul-88 | 03-Aug-88 | 10 | AR | AR | Weir |
| 117872 | | 24-Jul-88 | 06-Aug-88 | 13 | AR | AR | Weir |
| 117915 | | 25-Jul-88 | 29-Jul-88 | 4 | AR | AR | Weir |
| 117948 | | 25-Jul-88 | 29-Jul-88 | 4 | AR | AR | Weir |
| 117936 | | 25-Jul-88 | 31-Jul-88 | 6 | AR | AR | Weir |
| 117934 | | 25-Jul-88 | 31-Jul-88 | 6 | AR | AR | Weir |
| 117940 | | 25-Jul-88 | 31-Jul-88 | 6 | AR | AR | Weir |
| 117973 | | 25-Jul-88 | 31-Jul-88 | 6 | AR | AR | Weir |
| 117937 | | 25-Jul-88 | 31-Jul-88 | 6 | AR | AR | Weir |
| 117987 | | 25-Jul-88 | 31-Jul-88 | 6 | AR | AR | Weir |
| 117970 | | 25-Jul-88 | 31-Jul-88 | 6 | AR | AR | Weir |
| 117953 | | 25-Jul-88 | 02-Aug-88 | 8 | AR | AR | Weir |

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Appendix A7. (Page 19 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 117924 | | 25-Jul-88 | 02-Aug-88 | 8 | AR | AR | Weir |
| 117959 | | 25-Jul-88 | 02-Aug-88 | 8 | AR | AR | Weir |
| 117908 | | 25-Jul-88 | 02-Aug-88 | 8 | AR | AR | Weir |
| 117971 | | 25-Jul-88 | 02-Aug-88 | 8 | AR | AR | Weir |
| 117928 | | 25-Jul-88 | 02-Aug-88 | 8 | AR | AR | Weir |
| 117451 | | 25-Jul-88 | 03-Aug-88 | 9 | AR | AR | Weir |
| 117950 | | 25-Jul-88 | 03-Aug-88 | 9 | AR | AR | Weir |
| 117997 | | 25-Jul-88 | 03-Aug-88 | 9 | AR | AR | Weir |
| 117910 | | 25-Jul-88 | 03-Aug-88 | 9 | AR | AR | Weir |
| 117992 | | 25-Jul-88 | 03-Aug-88 | 9 | AR | AR | Weir |
| 117916 | | 25-Jul-88 | 06-Aug-88 | 12 | AR | AR | Weir |
| 118457 | | 25-Jul-88 | 20-Jul-89 | 360 | AR | ARW | Weir |
| 118046 | | 26-Jul-88 | 27-Jul-88 | 1 | AR | AR | Weir |
| 118042 | | 26-Jul-88 | 31-Jul-88 | 5 | AR | AR | Weir |
| 118045 | | 26-Jul-88 | 31-Jul-88 | 5 | AR | AR | Weir |
| 118044 | | 26-Jul-88 | 01-Aug-88 | 6 | AR | AR | Weir |
| 118035 | | 26-Jul-88 | 01-Aug-88 | 6 | AR | AR | Weir |
| 118041 | | 26-Jul-88 | 01-Aug-88 | 6 | AR | AR | Weir |
| 118004 | | 26-Jul-88 | 02-Aug-88 | 7 | AR | AR | Weir |
| 118061 | | 26-Jul-88 | 02-Aug-88 | 7 | AR | AR | Weir |
| 118031 | | 26-Jul-88 | 02-Aug-88 | 7 | AR | AR | Weir |
| 118051 | | 26-Jul-88 | 02-Aug-88 | 7 | AR | AR | Weir |
| 118053 | | 26-Jul-88 | 02-Aug-88 | 7 | AR | AR | Weir |
| 118074 | | 26-Jul-88 | 02-Aug-88 | 7 | AR | AR | Weir |
| 118009 | | 26-Jul-88 | 02-Aug-88 | 7 | AR | AR | Weir |
| 118032 | | 26-Jul-88 | 02-Aug-88 | 7 | AR | AR | Weir |
| 118063 | | 26-Jul-88 | 02-Aug-88 | 7 | AR | AR | Weir |
| 118014 | | 26-Jul-88 | 03-Aug-88 | 8 | AR | AR | Weir |
| 118068 | | 26-Jul-88 | 08-Aug-88 | 13 | AR | AR | Weir |
| 118038 | | 26-Jul-88 | 09-Aug-88 | 14 | AR | AR | Angler |
| 118008 | | 26-Jul-88 | 13-Aug-88 | 18 | AR | AR | Weir |
| 118168 | | 27-Jul-88 | 31-Jul-88 | 4 | AR | AR | Angler |
| 118094 | | 27-Jul-88 | 01-Aug-88 | 5 | AR | AR | Weir |
| 118077 | | 27-Jul-88 | 01-Aug-88 | 5 | AR | AR | Weir |
| 118093 | | 27-Jul-88 | 02-Aug-88 | 6 | AR | AR | Weir |
| 118091 | | 27-Jul-88 | 02-Aug-88 | 6 | AR | AR | Weir |
| 118098 | | 27-Jul-88 | 02-Aug-88 | 6 | AR | AR | Weir |
| 118099 | | 27-Jul-88 | 02-Aug-88 | 6 | AR | AR | Weir |
| 118109 | | 27-Jul-88 | 03-Aug-88 | 7 | AR | AR | Weir |
| 118092 | | 27-Jul-88 | 03-Aug-88 | 7 | AR | AR | Weir |
| 118186 | | 27-Jul-88 | 03-Aug-88 | 7 | AR | AR | Weir |
| 118151 | | 27-Jul-88 | 03-Aug-88 | 7 | AR | AR | Weir |

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Appendix A7. (Page 20 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 118200 | | 27-Jul-88 | 03-Aug-88 | 7 | AR | AR | Weir |
| 118084 | | 27-Jul-88 | 03-Aug-88 | 7 | AR | AR | Weir |
| 118195 | | 27-Jul-88 | 03-Aug-88 | 7 | AR | AR | Weir |
| 118144 | | 27-Jul-88 | 06-Aug-88 | 10 | AR | AR | Weir |
| 118136 | | 27-Jul-88 | 06-Aug-88 | 10 | AR | AR | Angler |
| 118082 | | 27-Jul-88 | 09-Aug-88 | 13 | AR | AR | Angler |
| 118161 | | 27-Jul-88 | 24-Jul-89 | 362 | AR | ARW | Weir |
| 118192 | | 27-Jul-88 | 28-Jul-89 | 366 | AR | ARW | Weir |
| 118290 | | 28-Jul-88 | 03-Aug-88 | 6 | AR | AR | Weir |
| 118271 | | 28-Jul-88 | 08-Aug-88 | 11 | AR | AR | Weir |
| 118217 | | 28-Jul-88 | 09-Aug-88 | 12 | AR | AR | Angler |
| 118273 | | 28-Jul-88 | 10-Aug-88 | 13 | AR | AR | Weir |
| 118215 | | 28-Jul-88 | 13-Aug-88 | 16 | AR | AR | Weir |
| 118286 | | 28-Jul-88 | 16-Aug-88 | 19 | AR | AR | Weir |
| 118221 | | 28-Jul-88 | 30-Apr-89 | 276 | AR | H SPIT | Angler |
| 118486 | | 29-Jul-88 | 1988 | | AR | AR | Angler |
| 118446 | | 29-Jul-88 | 29-Jul-88 | 0 | AR | AR | Weir |
| 118335 | | 29-Jul-88 | 01-Aug-88 | 3 | AR | AR | Angler |
| 118440 | | 29-Jul-88 | 03-Aug-88 | 5 | AR | AR | Weir |
| 118349 | | 29-Jul-88 | 03-Aug-88 | 5 | AR | AR | Weir |
| 118480 | | 29-Jul-88 | 03-Aug-88 | 5 | AR | AR | Weir |
| 118430 | | 29-Jul-88 | 06-Aug-88 | 8 | AR | AR | Weir |
| 118392 | | 29-Jul-88 | 06-Aug-88 | 8 | AR | AR | Weir |
| 118396 | | 29-Jul-88 | 09-Aug-88 | 11 | AR | AR | Weir |
| 118387 | | 29-Jul-88 | 10-Aug-88 | 12 | AR | AR | Weir |
| 118474 | | 29-Jul-88 | 10-Aug-88 | 12 | AR | AR | Weir |
| 118381 | | 29-Jul-88 | 13-Aug-88 | 15 | AR | AR | Weir |
| 118313 | | 29-Jul-88 | 13-Aug-88 | 15 | AR | AR | Angler |
| 118397 | | 29-Jul-88 | 16-Aug-88 | 18 | AR | AR | Weir |
| 118454 | | 29-Jul-88 | 16-Aug-88 | 18 | AR | AR | Weir |
| 118317 | | 29-Jul-88 | 16-Aug-88 | 18 | AR | AR | Weir |
| 118491 | | 29-Jul-88 | 24-Jul-89 | 360 | AR | ARW | Weir |
| 118380 | | 29-Jul-88 | 31-Jul-89 | 367 | AR | ARW | Weir |
| 118573 | | 31-Jul-88 | 03-Aug-88 | 3 | AR | AR | Weir |
| 118499 | | 31-Jul-88 | 08-Aug-88 | 8 | AR | AR | Weir |
| 118536 | | 31-Jul-88 | 08-Aug-88 | 8 | AR | AR | Weir |
| 118530 | | 31-Jul-88 | 09-Aug-88 | 9 | AR | AR | Weir |
| 118494 | | 31-Jul-88 | 09-Aug-88 | 9 | AR | AR | Weir |
| 118517 | | 31-Jul-88 | 09-Aug-88 | 9 | AR | AR | Weir |
| 118591 | | 31-Jul-88 | 09-Aug-88 | 9 | AR | AR | Weir |
| 118596 | | 31-Jul-88 | 10-Aug-88 | 10 | AR | AR | Weir |
| 118528 | | 31-Jul-88 | 10-Aug-88 | 10 | AR | AR | Weir |

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Appendix A7. (Page 21 of 21).

| Anchor Tag Number[a] | Finger. Tag Number[b] | Date Tagged | Date Recov. | Days Out | Tagging Location[c] | Recov. Loc.[d] | Recovery Source[e] |
|---|---|---|---|---|---|---|---|
| 118538 | | 31-Jul-88 | 10-Aug-88 | 10 | AR | AR | Weir |
| 118557 | | 31-Jul-88 | 16-Aug-88 | 16 | AR | AR | Weir |
| 118628 | | 04-Aug-88 | 07-Aug-88 | 3 | AR | AR | Angler |
| 118621 | | 04-Aug-88 | 13-Aug-88 | 9 | AR | AR | Weir |
| 118618 | | 04-Aug-88 | 13-Aug-88 | 9 | AR | AR | Weir |
| 118622 | | 04-Aug-88 | 01-Aug-89 | 362 | AR | ARW | Weir |
| 120777 | | 08-Aug-88 | 04-Jul-89 | 330 | NR | S BAY | CF |
| 118680 | | 05-Aug-89 | 05-Aug-89 | 0 | AR | AR | Angler |
| 118690 | | 06-Aug-89 | 09-Aug-89 | 3 | AR | ARW | Weir |
| 118745 | | 11-Aug-89 | 12-Aug-89 | 1 | AR | ARW | Weir |
| 118735 | | 11-Aug-89 | 15-Aug-89 | 4 | AR | ARW | Weir |
| 118734 | | 11-Aug-89 | 15-Aug-89 | 4 | AR | ARW | Weir |
| 118735 | | 11-Aug-89 | 18-Aug-89 | 7 | AR | ARW | Weir |
| 118793 | | 12-Aug-89 | 17-Aug-89 | 5 | AR | ARW | Weir |
| 118757 | | 12-Aug-89 | 18-Aug-89 | 6 | AR | ARW | Weir |
| 118774 | | 15-Aug-89 | 17-Aug-89 | 2 | AR | ARW | Weir |
| 118773 | | 15-Aug-89 | 17-Aug-89 | 2 | AR | ARW | Weir |
| 118849 | | 19-Aug-89 | 19-Aug-89 | 0 | AR | ARW | Weir |
| 118912 | | 20-Aug-89 | 28-Aug-89 | 8 | AR | ARW | Weir |
| 118904 | | 20-Aug-89 | 30-Aug-89 | 10 | AR | ARW | Weir |
| 118946 | | 22-Aug-89 | 23-Aug-89 | 1 | AR | ARW | Weir |

[a] Floy anchor type tag (FD-67).
[b] Floy fingerling type tag (FTF-69).
[c] Tagging Location:
AR = Anchor River (tagged in 1986, captured with nets).
ARW = Anchor River Weir (1.5 km upstream from saltwater).
DC = Deep Creek (tagged in 1987, captured with nets).
NR = Ninilchik River (tagged in 1987, captured with nets).
NRW = Ninilchik River Weir (7.5 km upstream from saltwater).

[d] Recovery Location:
AR = Anchor River.
CC = Crooked Creek.
CG = Clam Gulch.
DC = Deep Creek.
E BAY = English Bay
H SPIT = Homer Spit.
KR = Kenai River.
M SPIT = McDonald Spit
NR = Ninilchik River.
S BAY = Seldovia Bay

[e] Recovery Source:
Angler = Sport fisherman.
CF = Commercial fisherman.
P = Predator killed.
Sub. = Subsistence fisherman.
Weir = Weir located on recovery stream.

Appendix A8. Daily summary of Dolly Varden char age compositions from fish sampled at random from the upstream trap of the Anchor River weir, 1989.

| Date | Age Group 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | Daily Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 705 | 0 | 0 | 1 | 6 | 5 | 2 | 1 | 0 | 0 | 15 |
| 706 | 0 | 0 | 0 | 4 | 5 | 7 | 0 | 0 | 0 | 16 |
| 707 | 0 | 0 | 0 | 4 | 5 | 2 | 0 | 0 | 0 | 11 |
| 712 | 0 | 0 | 2 | 2 | 4 | 1 | 0 | 0 | 0 | 9 |
| 713 | 0 | 0 | 1 | 11 | 11 | 5 | 2 | 0 | 0 | 30 |
| 716 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 7 |
| 717 | 0 | 0 | 3 | 4 | 6 | 0 | 1 | 0 | 0 | 14 |
| 719 | 0 | 0 | 3 | 5 | 6 | 2 | 0 | 0 | 0 | 16 |
| 720 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 5 |
| 721 | 0 | 1 | 9 | 10 | 12 | 4 | 1 | 0 | 0 | 37 |
| 723 | 0 | 1 | 3 | 4 | 4 | 2 | 0 | 0 | 0 | 14 |
| 724 | 0 | 3 | 4 | 3 | 13 | 6 | 3 | 0 | 0 | 32 |
| 725 | 0 | 2 | 4 | 5 | 1 | 0 | 1 | 0 | 0 | 13 |
| 726 | 0 | 0 | 9 | 15 | 17 | 2 | 0 | 0 | 0 | 43 |
| 727 | 0 | 0 | 1 | 2 | 5 | 0 | 1 | 0 | 0 | 9 |
| 728 | 0 | 0 | 2 | 4 | 6 | 0 | 0 | 0 | 0 | 12 |
| 729 | 0 | 4 | 4 | 4 | 4 | 2 | 0 | 0 | 0 | 18 |
| 730 | 0 | 0 | 5 | 3 | 7 | 1 | 0 | 0 | 0 | 16 |
| 731 | 2 | 6 | 7 | 3 | 8 | 0 | 0 | 0 | 0 | 26 |
| 801 | 0 | 1 | 15 | 18 | 12 | 3 | 0 | 1 | 0 | 50 |
| 802 | 0 | 1 | 3 | 5 | 5 | 0 | 0 | 0 | 0 | 14 |
| 803 | 0 | 0 | 2 | 0 | 4 | 4 | 0 | 0 | 0 | 10 |
| 805 | 0 | 0 | 4 | 3 | 4 | 0 | 0 | 0 | 0 | 11 |
| 806 | 0 | 3 | 4 | 4 | 3 | 3 | 0 | 0 | 0 | 17 |
| 808 | 0 | 4 | 6 | 5 | 6 | 3 | 0 | 0 | 0 | 24 |
| 809 | 1 | 0 | 4 | 1 | 3 | 1 | 0 | 0 | 0 | 10 |
| 811 | 0 | 1 | 9 | 5 | 5 | 2 | 0 | 0 | 0 | 22 |
| 812 | 0 | 3 | 5 | 3 | 6 | 1 | 0 | 0 | 0 | 18 |
| 813 | 0 | 3 | 12 | 5 | 5 | 1 | 0 | 0 | 0 | 26 |
| 814 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 816 | 0 | 2 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 10 |
| 817 | 0 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 7 |
| 818 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 6 |
| 819 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 821 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 822 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 823 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 825 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

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Appendix A8. (Page 2 of 2).

| Date | Age Group 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | Daily Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 827 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 901 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 929 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 930 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1002 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 1010 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 3 |
| 1012 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1013 | 1 | 1 | 4 | 7 | 4 | 1 | 0 | 0 | 0 | 18 |
| 1024 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1026 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 1029 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1031 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Totals: | 4 | 44 | 153 | 160 | 193 | 57 | 13 | 1 | 1 | 626 |

Appendix A9. Dolly Varden char samples collected at random from the upstream trap of the Anchor River fish weir showing daily summaries of female gonad maturity and sex ratios, 1989.

| | Female Maturity Index[a] | | | | | Sex Totals | | |
|---|---|---|---|---|---|---|---|---|
| Date | 1 | 2 | 3 | 4 | 5 | Females | Males | Sample Size |
| 05-Jul | 0 | 10 | | | 2 | 12 | 3 | 15 |
| 06-Jul | 0 | 9 | | | 2 | 11 | 5 | 16 |
| 07-Jul | 0 | 4 | | | 7 | 11 | 1 | 12 |
| 13-Jul | 2 | 12 | | | 5 | 19 | 11 | 30 |
| 16-Jul | 0 | 3 | | | 3 | 6 | 1 | 10 |
| 17-Jul | 1 | 4 | | | 2 | 7 | 7 | 16 |
| 19-Jul | 5 | 9 | | | 2 | 16 | 1 | 19 |
| 20-Jul | 2 | 2 | | | 0 | 4 | 2 | 6 |
| 21-Jul | 8 | 17 | | | 2 | 27 | 12 | 39 |
| 23-Jul | 4 | 4 | | | 0 | 8 | 6 | 14 |
| 24-Jul | 5 | 11 | | | 2 | 18 | 14 | 32 |
| 25-Jul | 2 | 1 | | | 1 | 4 | 9 | 13 |
| 26-Jul | 6 | 14 | | | 8 | 28 | 15 | 43 |
| 27-Jul | 2 | 4 | | | 0 | 6 | 4 | 10 |
| 28-Jul | 3 | 7 | | | 1 | 11 | 2 | 13 |
| 29-Jul | 2 | 5 | | | 3 | 10 | 11 | 21 |
| 30-Jul | 2 | 3 | | | 3 | 8 | 8 | 16 |
| 31-Jul | 9 | 3 | | | 0 | 12 | 15 | 27 |
| 01-Aug | 13 | 12 | | | 4 | 29 | 21 | 50 |
| 02-Aug | 1 | 4 | | | 3 | 8 | 6 | 14 |
| 03-Aug | 0 | 7 | | | 1 | 8 | 2 | 10 |
| 05-Aug | 4 | 3 | | | 1 | 8 | 3 | 11 |
| 06-Aug | 4 | 3 | | | 2 | 9 | 8 | 17 |
| 08-Aug | 6 | 6 | | | 5 | 17 | 7 | 24 |
| 09-Aug | 0 | 1 | | | 3 | 4 | 4 | 8 |
| 11-Aug | 3 | 7 | | | 4 | 14 | 8 | 22 |
| 12-Aug | 5 | 3 | 2 | | 4 | 14 | 4 | 18 |
| 13-Aug | 6 | 4 | | | 3 | 13 | 13 | 26 |
| 14-Aug | 1 | 0 | | | 0 | 1 | 1 | 2 |
| 16-Aug | 2 | 1 | | | 3 | 6 | 4 | 10 |
| 18-Aug | 2 | 3 | | | 0 | 5 | 1 | 6 |
| 19-Aug | 1 | 2 | | | 0 | 3 | 1 | 4 |
| 21-Aug | 2 | 1 | | | 1 | 4 | 1 | 5 |
| 22-Aug | 0 | 0 | | | 1 | 1 | 0 | 1 |
| 23-Aug | 1 | 0 | | | 0 | 1 | 0 | 1 |
| 25-Aug | 2 | 0 | | | 0 | 2 | 0 | 2 |
| 27-Aug | 1 | 0 | | | 1 | 2 | 3 | 5 |
| 01-Sep | 0 | 0 | | | 1 | 1 | 1 | 2 |

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Appendix A9. (Page 2 of 2).

| Date | Female Maturity Index[a] | | | | | Sex Totals | | Sample Size |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | Females | Males | |
| 29-Sep | 0 | 0 | | 2 | 0 | 2 | 0 | 2 |
| 30-Sep | 0 | 0 | | 1 | 0 | 1 | 0 | 1 |
| 02-Oct | 0 | 0 | | 2 | 0 | 2 | 0 | 2 |
| 10-Oct | 1 | 0 | | 1 | 0 | 2 | 1 | 3 |
| 13-Oct | 3 | 0 | | 5 | 4 | 12 | 7 | 19 |
| 24-Oct | 1 | 0 | | | 0 | 1 | 0 | 1 |
| 26-Oct | 1 | 0 | | 1 | 0 | 2 | 3 | 5 |
| 30-Oct | 0 | 0 | | 1 | 1 | 2 | 1 | 3 |
| 31-Oct | 0 | 0 | | | 1 | 1 | 1 | 2 |
| 01-Nov | 0 | 0 | 1 | 1 | 1 | 3 | 2 | 5 |
| 03-Nov | 0 | 0 | | | 4 | 4 | 1 | 5 |
| 04-Nov | 0 | 0 | 1 | | 0 | 1 | 0 | 1 |
| TOTALS | 113 | 179 | 4 | 14 | 91 | 401 | 231 | 632 |

[a] Maturity Index Codes:
1 = immature female with egg diameter less than 0.90 mm,
2 = mature female with egg diameter greater than 1.75 mm,
3 = completely mature female (eggs easily stripped),
4 = completely spawned female,
5 = immature female but shows development, egg diameter greater than 0.90 mm and less than 1.75 mm.

Appendix A10. Comparisons of length categories for Anchor River Dolly Varden char by location and period, 1989.

UPSTREAM TRAP

| Length Range (mm) | July 1-15 | | | July 16-29 | | | July 30-Aug 12 | | | Aug 12-Nov 7 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | count | cum[a] | cum%[b] | count | cum | cum% | count | cum | cum% | count | cum | cum% |
| <249 | 0 | 0 | 0 | 21 | 21 | 10 | 25 | 25 | 14 | 23 | 23 | 23 |
| 300-349 | 7 | 7 | 9 | 57 | 78 | 38 | 106 | 131 | 74 | 45 | 68 | 69 |
| 350-399 | 16 | 23 | 28 | 44 | 122 | 60 | 28 | 159 | 89 | 10 | 78 | 79 |
| 400-449 | 30 | 53 | 65 | 57 | 179 | 88 | 12 | 171 | 96 | 10 | 88 | 89 |
| 450-499 | 19 | 72 | 88 | 22 | 201 | 99 | 5 | 176 | 99 | 7 | 95 | 96 |
| 500> | 10 | 82 | 100 | 3 | 204 | 100 | 2 | 178 | 100 | 4 | 99 | 100 |

DOWNSTREAM TRAP (FISH THAT WERE TAGGED DURING EMIGRATION)

| Length Range (mm) | July 1-15 | | | July 16-29 | | | July 30-Aug 12 | | | Aug 12-Nov 7 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | count | cum | cum% | count | cum | cum% | count | cum | cum% | count | cum | cum% |
| <249 | 0 | 0 | 0 | 1 | 1 | 33 | 14 | 14 | 18 | 103 | 103 | 56 |
| 250-299 | 1 | 1 | 33 | 0 | 1 | 33 | 22 | 36 | 46 | 51 | 154 | 83 |
| 300-349 | 0 | 1 | 33 | 1 | 2 | 67 | 35 | 71 | 91 | 28 | 182 | 98 |
| 350-399 | 0 | 1 | 33 | 1 | 3 | 100 | 4 | 75 | 96 | 2 | 184 | 99 |
| 400-449 | 1 | 2 | 67 | 0 | 3 | 100 | 3 | 78 | 100 | 0 | 184 | 99 |
| 450-499 | 1 | 3 | 100 | 0 | 3 | 100 | 0 | 78 | 100 | 1 | 185 | 100 |
| 500> | 0 | 3 | 100 | 0 | 3 | 100 | 0 | 78 | 100 | 0 | 185 | 100 |

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Appendix A10. (Page 2 of 2).

DOWNSTREAM TRAP (FISH THAT WERE NOT TAGGED DURING EMIGRATION)

| Length Range (mm) | July 1-15 | | | July 16-29 | | | July 30-Aug 12 | | | Aug 12-Nov 7 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | count | cum | cum% | count | cum | cum% | count | cum | cum% | count | cum | cum% |
| <249 | 0 | 0 | 0 | 1 | 1 | 100 | 16 | 16 | 18 | 17 | 17 | 23 |
| 250-299 | 2 | 2 | 67 | 0 | 1 | 100 | 17 | 33 | 36 | 7 | 24 | 32 |
| 300-349 | 1 | 3 | 100 | 0 | 1 | 100 | 50 | 83 | 91 | 38 | 62 | 83 |
| 350-399 | 0 | 3 | 100 | 0 | 1 | 100 | 5 | 88 | 97 | 6 | 68 | 91 |
| 400-449 | 0 | 3 | 100 | 0 | 1 | 100 | 3 | 91 | 100 | 6 | 74 | 99 |
| 450-499 | 0 | 3 | 100 | 0 | 1 | 100 | 0 | 91 | 100 | 1 | 75 | 100 |
| 500> | 0 | 3 | 100 | 0 | 1 | 100 | 0 | 91 | 100 | 0 | 75 | 100 |

SPORT HARVEST

| Length Range (mm) | July 1-15 | | | July 16-29 | | | July 30-Aug 12 | | | Aug 12-Nov 7 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | count | cum | cum% | count | cum | cum% | count | cum | cum% | count | cum | cum% |
| <249 | 0 | 0 | | 1 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 250-299 | 0 | 0 | | 0 | 1 | 8 | 2 | 2 | 5 | 0 | 0 | 0 |
| 300-349 | 0 | 0 | | 5 | 6 | 50 | 21 | 23 | 52 | 2 | 2 | 33 |
| 350-399 | 0 | 0 | | 1 | 7 | 58 | 11 | 34 | 77 | 1 | 3 | 50 |
| 400-449 | 0 | 0 | | 3 | 10 | 83 | 4 | 38 | 86 | 2 | 5 | 83 |
| 450-499 | 0 | 0 | | 2 | 12 | 100 | 3 | 41 | 93 | 1 | 6 | 100 |
| 500> | 0 | 0 | | 0 | 12 | 100 | 3 | 44 | 100 | 0 | 6 | 100 |

[a] Cumulative number of Dolly Varden char counted.
[b] Cumulative percent of Dolly Varden char counted.

Appendix A11. Dolly Varden char growth observed and estimated from fish tagged and later recaptured from Southern Kenai Peninsula streams, 1987-1989.

| Anchor Tag No[a] | Finger Tag No[b] | Date Tagged | Tag Lgth[c] | Date Recovered | Elap Days[d] | Reco Lgth[e] | Growth mm[f] | Est. Year[g] | Tag Loc[h] | Recov. Loc[i] |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1066 | 13-Jul-87 | 300 | 09-Jul-88 | 362 | 393 | 93 | 94 | ARW | AR |
| | 1084 | 13-Jul-87 | 367 | 19-Jul-88 | 372 | 473 | 106 | 104 | ARW | AR |
| | 1457 | 17-Jul-87 | 411 | 15-Jul-88 | 364 | 466 | 55 | 55 | ARW | AR |
| | 1622 | 19-Jul-87 | 327 | 13-Jul-88 | 360 | 401 | 74 | 75 | ARW | AR |
| 6990 | | 20-Jul-87 | 358 | 15-Jul-88 | 361 | 550 | 192 | 194 | DC | AR |
| | 1930 | 23-Jul-87 | 515 | 15-Jul-88 | 358 | 550 | 35 | 36 | ARW | AR |
| | 2071 | 25-Jul-87 | 321 | 18-Jul-88 | 359 | 398 | 77 | 78 | ARW | AR |
| | 2843 | 02-Aug-87 | 250 | 16-Jul-88 | 349 | 404 | 154 | 161 | ARW | AR |
| | 3141 | 05-Aug-87 | 404 | 18-Jul-88 | 348 | 458 | 54 | 57 | ARW | AR |
| | 3290 | 06-Aug-87 | 325 | 28-Jul-88 | 357 | 465 | 140 | 143 | ARW | AR |
| | 3467 | 08-Aug-87 | 317 | 09-Jul-88 | 336 | 403 | 86 | 93 | ARW | AR |
| | 3441 | 08-Aug-87 | 239 | 16-Jul-88 | 343 | 303 | 64 | 68 | ARW | NR |
| 191 | | 09-Aug-87 | 257 | 16-Jul-88 | 342 | 348 | 91 | 97 | ARW | AR |
| 181 | | 09-Aug-87 | 224 | 21-Jul-88 | 347 | 295 | 71 | 75 | ARW | AR |
| 226 | | 09-Aug-87 | 327 | 26-Jul-88 | 352 | 418 | 91 | 94 | ARW | AR |
| 280 | | 10-Aug-87 | 390 | 22-Jul-88 | 347 | 448 | 58 | 61 | ARW | AR |
| 379 | | 12-Aug-87 | 353 | 18-Jul-88 | 341 | 422 | 69 | 74 | ARW | AR |
| 460 | | 14-Aug-87 | 271 | 20-Jul-88 | 341 | 370 | 99 | 106 | ARW | AR |
| 569 | 3891 | 17-Aug-87 | 350 | 21-Jul-88 | 339 | 427 | 77 | 83 | ARW | AR |
| | 4087 | 25-Aug-87 | 302 | 26-Jul-88 | 336 | 392 | 90 | 98 | ARW | AR |
| | 4114 | 27-Aug-87 | 345 | 09-Jul-88 | 317 | 387 | 42 | 48 | ARW | AR |
| | 4235 | 07-Sep-87 | 256 | 16-Jul-88 | 313 | 333 | 77 | 90 | ARW | AR |
| | 4244 | 08-Sep-87 | 399 | 18-Jul-88 | 314 | 452 | 53 | 62 | ARW | AR |
| 993 | | 22-Sep-87 | 278 | 27-Jul-89 | 674 | 444 | 166 | 90 | NR | AR |
| 943 | | 24-Sep-87 | 410 | 17-Jul-88 | 297 | 450 | 40 | 49 | NR | NR |
| 737 | | 08-Jul-88 | 315 | 15-Jul-89 | 372 | 337 | 22 | 22 | ARW | AR |
| 878 | | 09-Jul-88 | 525 | 11-Jul-89 | 367 | 570 | 45 | 45 | ARW | AR |

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Appendix A11. (Page 2 of 3).

| Anchor Tag No[a] | Finger Tag No[b] | Date Tagged | Tag Lgth[c] | Date Recovered | Elap Days[d] | Reco Lgth[e] | Growth mm[f] | Est. Year[g] | Tag Loc[h] | Recov. Loc[i] |
|---|---|---|---|---|---|---|---|---|---|---|
| 829 | | 09-Jul-88 | 319 | 12-Jul-89 | 368 | 410 | 91 | 90 | ARW | AR |
| 813 | | 09-Jul-88 | 314 | 21-Jul-89 | 377 | 404 | 90 | 87 | ARW | AR |
| 852 | | 09-Jul-88 | 315 | 23-Jul-89 | 379 | 405 | 90 | 87 | ARW | AR |
| 777 | | 09-Jul-88 | 412 | 29-Jul-89 | 385 | 485 | 73 | 69 | ARW | AR |
| 799 | | 10-Jul-88 | 345 | 24-Jul-89 | 379 | 440 | 95 | 91 | ARW | AR |
| 2 | | 10-Jul-88 | 390 | 28-Jul-89 | 383 | 445 | 55 | 52 | ARW | AR |
| 97 | | 10-Jul-88 | 326 | 28-Jul-89 | 383 | 382 | 56 | 53 | ARW | AR |
| 459 | | 11-Jul-88 | 421 | 29-Jul-89 | 383 | 443 | 22 | 21 | ARW | AR |
| 116049 | | 12-Jul-88 | 320 | 18-Jul-89 | 371 | 330 | 10 | 10 | ARW | AR |
| 116032 | | 12-Jul-88 | 475 | 21-Jul-89 | 374 | 530 | 55 | 54 | ARW | AR |
| 116019 | | 12-Jul-88 | 455 | 26-Jul-89 | 379 | 532 | 77 | 74 | ARW | AR |
| 116125 | | 12-Jul-88 | 340 | 26-Jul-89 | 379 | 435 | 95 | 91 | ARW | AR |
| 116261 | | 14-Jul-88 | 400 | 27-Jul-89 | 378 | 575 | 175 | 169 | ARW | AR |
| 116470 | | 15-Jul-88 | 450 | 25-Jul-89 | 375 | 510 | 60 | 58 | ARW | AR |
| 116437 | | 15-Jul-88 | 400 | 27-Jul-89 | 377 | 457 | 57 | 55 | ARW | AR |
| 116290 | | 15-Jul-88 | 424 | 28-Jul-89 | 378 | 475 | 51 | 49 | ARW | AR |
| 116463 | | 15-Jul-88 | 318 | 28-Jul-89 | 378 | 475 | 157 | 152 | ARW | AR |
| 116437 | | 15-Jul-88 | 400 | 09-Aug-89 | 390 | 458 | 58 | 54 | ARW | AR |
| 116610 | | 16-Jul-88 | 402 | 20-Jul-89 | 369 | 425 | 23 | 23 | ARW | AR |
| 116634 | | 16-Jul-88 | 476 | 03-Aug-89 | 383 | 520 | 44 | 42 | ARW | AR |
| 116884 | | 17-Jul-88 | 390 | 29-Jul-89 | 377 | 433 | 43 | 42 | ARW | AR |
| 117155 | | 18-Jul-88 | 355 | 26-Jul-89 | 373 | 438 | 83 | 81 | ARW | AR |
| 117310 | | 19-Jul-88 | 435 | 20-Jul-89 | 366 | 505 | 70 | 70 | ARW | AR |
| 117344 | | 19-Jul-88 | 317 | 28-Jul-89 | 374 | 380 | 63 | 61 | ARW | AR |
| 117312 | | 19-Jul-88 | 326 | 31-Jul-89 | 377 | 402 | 76 | 74 | ARW | AR |
| 117193 | | 19-Jul-88 | 418 | 01-Aug-89 | 378 | 465 | 47 | 45 | ARW | AR |
| 117533 | | 20-Jul-88 | 343 | 18-Jul-89 | 363 | 415 | 72 | 72 | ARW | AR |
| 117436 | | 20-Jul-88 | 390 | 28-Jul-89 | 373 | 433 | 43 | 42 | ARW | AR |

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Appendix A11. (Page 3 of 3).

| Anchor Tag No[a] | Finger Tag No[b] | Date Tagged | Tag Lgth[c] | Date Recovered | Elap Days[d] | Reco Lgth[e] | Growth mm[f] | Est. Year[g] | Tag Loc[h] | Recov. Loc[i] |
|---|---|---|---|---|---|---|---|---|---|---|
| 117622 | | 21-Jul-88 | 430 | 27-Jul-89 | 371 | 480 | 50 | 49 | ARW | AR |
| 117704 | | 22-Jul-88 | 338 | 28-Jul-89 | 371 | 390 | 52 | 51 | ARW | AR |
| 117715 | | 22-Jul-88 | 316 | 30-Jul-89 | 373 | 430 | 114 | 112 | ARW | AR |
| 117792 | | 23-Jul-88 | 324 | 23-Jul-89 | 365 | 410 | 86 | 86 | ARW | AR |
| 117809 | | 23-Jul-88 | 387 | 30-Jul-89 | 372 | 443 | 56 | 55 | ARW | AR |
| 118457 | | 25-Jul-88 | 295 | 20-Jul-89 | 360 | 485 | 190 | 193 | ARW | AR |
| 118161 | | 27-Jul-88 | 370 | 24-Jul-89 | 362 | 435 | 65 | 66 | ARW | AR |
| 118192 | | 27-Jul-88 | 325 | 28-Jul-89 | 366 | 421 | 96 | 96 | ARW | AR |
| 118221 | | 28-Jul-88 | 301 | 30-Apr-89 | 276 | 306 | 5 | 7 | ARW | HS |
| 118491 | | 29-Jul-88 | 398 | 24-Jul-89 | 360 | 490 | 92 | 93 | ARW | AR |
| 118380 | | 29-Jul-88 | 345 | 31-Jul-89 | 367 | 414 | 69 | 69 | ARW | AR |
| 118622 | | 04-Aug-88 | 469 | 01-Aug-89 | 362 | 520 | 51 | 51 | ARW | AR |

[a] Floy FD-67 anchor tag number.
[b] Floy FTF-69 fingerling tag number.
[c] Fish fork length at time of tagging.
[d] Number of elapsed days from date of tagging until date of recovery.
[e] Fish fork length at time of recovery.
[f] Actual fish growth (mm) from date of tagging until date of recovery.
[g] Estimated growth/year assuming equal growth/day over total elapsed time.
[h] Tagging location: ARW=Anchor River weir, DC=Deep Creek, NR=Ninilchik River.
[i] Recovery location: AR=Anchor River, HS=Homer Spit, NR=Ninilchik River.

# APPENDIX B

## Corrected Fisheries Statistics for 1988

Appendix B1. Corrected estimates of effort (angler-hours) for the sport fishery on the Anchor River, 1 July through 13 November 1988.

| | | | | | | Estimated Effort | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Below Weir | | | Above Weir | | | Total Combined | | |
| Month | We/ Wd[a] | No. Int.[b] | No. Days Pos.[c] | No. Days Smp.[d] | Angler/ Count | Angler Hours | SE[e] | Rel. Prec.[f] | Angler Hours | SE | Rel. Prec. | Angler Hours | SE | Rel. Prec. |
| July | We | 258 | 11 | 11 | 13.8 | 1,993 | 340 | 33.4% | 1,169 | 163 | 27.3% | 3,162 | 377 | 23.4% |
| | Wd | 321 | 20 | 16 | 13.6 | 4,031 | 478 | 23.3% | 1,049 | 190 | 35.5% | 5,080 | 514 | 19.9% |
| | Total | 579 | 31 | 27 | 13.7 | 6,024 | 587 | 19.1% | 2,218 | 250 | 22.1% | 8,242 | 638 | 15.2% |
| Aug. | We | 316 | 8 | 8 | 26.7 | 2,934 | 260 | 17.4% | 571 | 113 | 38.8% | 3,505 | 283 | 15.8% |
| | Wd | 535 | 23 | 19 | 24.6 | 8,105 | 723 | 17.5% | 1,054 | 147 | 27.3% | 9,159 | 738 | 15.8% |
| | Total | 851 | 31 | 27 | 25.3 | 11,039 | 769 | 13.7% | 1,625 | 185 | 22.3% | 12,664 | 791 | 12.2% |
| Sept. | We | 271 | 9 | 9 | 20.1 | 1,348 | 193 | 28.1% | 570 | 104 | 35.6% | 1,918 | 219 | 22.4% |
| | Wd | 334 | 21 | 16 | 11.4 | 1,979 | 292 | 29.0% | 995 | 150 | 29.5% | 2,974 | 328 | 21.6% |
| | Total | 605 | 30 | 25 | 15.0 | 3,327 | 351 | 20.7% | 1,565 | 182 | 22.8% | 4,892 | 395 | 15.8% |
| Oct. | We | 227 | 11 | 11 | 9.1 | 324 | 95 | 57.7% | 404 | 87 | 42.2% | 728 | 129 | 34.7% |
| | Wd | 72 | 20 | 11 | 2.8 | 140 | 41 | 57.8% | 350 | 80 | 44.8% | 490 | 90 | 36.0% |
| | Total | 299 | 31 | 22 | 5.7 | 464 | 104 | 43.9% | 754 | 118 | 30.7% | 1,218 | 157 | 25.3% |
| Nov. | We | 11 | 5 | 3 | 0.3 | 8 | 8 | 100.0% | 24 | 17 | 138.6% | 32 | 19 | 115.1% |
| | Wd | 15 | 8 | 3 | 0.5 | 36 | 25 | 137.1% | 72 | 41 | 111.2% | 108 | 48 | 87.1% |
| | Total | 26 | 13 | 6 | 0.4 | 44 | 26 | 117.3% | 96 | 44 | 90.3% | 140 | 52 | 72.2% |
| Total | We | 1,083 | 44 | 42 | 15.1 | 6,607 | 479 | 14.2% | 2,738 | 241 | 17.2% | 9,345 | 536 | 11.2% |
| | Wd | 1,277 | 92 | 65 | 12.3 | 14,291 | 589 | 13.1% | 3,520 | 176 | 16.5% | 17,811 | 615 | 6.8% |
| | Total | 2,360 | 136 | 107 | 14.5 | 20,898 | 916 | 8.6% | 6,258 | 297 | 9.3% | 27,156 | 815 | 5.9% |

[a] Weekend/Holiday (We) or Weekday (Wd).
[b] Number of completed anglers interviewed.
[c] Number of possible interview days.
[d] Number of interview days sampled.
[e] Standard error.
[f] Relative precision.

Appendix B2. Summary of mean angler counts, by period, for the sport fishery on the Anchor River, 1 July through 13 November 1988.

| Stratum | July Periods | | | | | August Periods | | | | September Periods | | | October Periods | | November Periods | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | A | B | C | D | A | B | C | A | B | A | B |
| **Below weir weekdays** | | | | | | | | | | | | | | | | |
| Number of counts | 4 | 4 | 5 | 4 | 5 | 6 | 8 | 8 | 7 | 8 | 6 | 9 | 12 | 12 | 6 | 6 |
| Mean count | 5.3 | 6.0 | 13.4 | 17.0 | 11.4 | 29.3 | 16.6 | 24.1 | 18.0 | 8.4 | 5.7 | 8.4 | 1.1 | 0.6 | 0.3 | 0.7 |
| Standard error | 1.3 | 1.4 | 1.3 | 2.2 | 1.6 | 2.4 | 1.6 | 2.1 | 1.5 | 1.4 | 1.2 | 1.5 | 0.6 | 0.5 | 0.5 | 0.8 |
| **Below weir weekends** | | | | | | | | | | | | | | | | |
| Number of counts | 3 | 3 | 6 | 5 | 4 | 4 | 3 | 4 | 5 | 5 | 6 | 5 | 10 | 10 | 4 | 4 |
| Mean count | .3 | 4.7 | 16.5 | 13.8 | 10.0 | 31.3 | 21.3 | 21.5 | 17.6 | 10.8 | 15.5 | 15.8 | 5.3 | 2.8 | 0.0 | 0.5 |
| Standard error | 0.6 | 1.5 | 2.1 | 2.2 | 1.9 | 1.8 | 2.5 | 1.3 | 2.0 | 1.2 | 1.8 | 2.2 | 1.5 | 1.0 | 0.0 | 0.7 |
| **Above weir weekdays** | | | | | | | | | | | | | | | | |
| Number of counts | 3 | 3 | 6 | 5 | 4 | 6 | 8 | 8 | 7 | 8 | 6 | 9 | 12 | 12 | 6 | 6 |
| Mean count | 1.7 | 3.7 | 8.5 | 6.0 | 6.8 | 2.3 | 1.9 | 3.4 | 3.9 | 2.8 | 4.3 | 4.2 | 2.1 | 2.1 | 1.7 | 0.3 |
| Standard error | 1.1 | 0.6 | 1.2 | 0.9 | 1.8 | 0.9 | 0.7 | 0.8 | 1.0 | 0.7 | 1.1 | 1.1 | 0.7 | 0.9 | 1.0 | 0.6 |
| **Above weir weekends** | | | | | | | | | | | | | | | | |
| Number of counts | 4 | 4 | 5 | 4 | 5 | 4 | 3 | 4 | 5 | 5 | 6 | 5 | 10 | 10 | 4 | 4 |
| Mean count | 0.0 | 0.8 | 4.0 | 4.3 | 4.8 | 2.3 | 9.7 | 3.8 | 2.2 | 6.4 | 6.0 | 5.4 | 5.1 | 5.0 | 0.8 | 0.8 |
| Standard error | 0.0 | 0.7 | 1.3 | 1.1 | 1.2 | 1.1 | 1.5 | 1.5 | 0.9 | 1.5 | 1.4 | 1.2 | 1.2 | 1.2 | 0.9 | 0.9 |

Appendix B3. Corrected estimates of catch and harvest, by species, for the sport fishery on the Anchor River, 1 July through 13 November 1988.

| Month | Fishery | We/ Wd[a] | Dolly Varden Char Catch | SE[b] | Harvest | SE | Coho Salmon Catch | SE | Harvest | SE | Steelhead/Rainbow Trout Catch | SE | Harvest | SE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| July | | | | | | | | | | | | | | |
| | Below Weir | We | 2,164 | 437.4 | 536 | 109.3 | 0 | 0.0 | 0 | 0.0 | 72 | 61.5 | 7 | 5.2 |
| | | Wd | 7,098 | 1,082.2 | 1,539 | 817.2 | 10 | 9.0 | 10 | 9.0 | 299 | 143.1 | 10 | 8.7 |
| | Above Weir | We | 1,270 | 224.7 | 315 | 56.3 | 0 | 0.0 | 0 | 0.0 | 42 | 36.0 | 4 | 3.1 |
| | | Wd | 1,847 | 377.2 | 401 | 217.1 | 3 | 2.3 | 3 | 2.3 | 78 | 38.4 | 3 | 2.3 |
| | Total | | 12,379 | 1,247.1 | 2,791 | 854.6 | 13 | 9.3 | 13 | 9.3 | 491 | 164.4 | 24 | 10.8 |
| August | | | | | | | | | | | | | | |
| | Below Weir | We | 690 | 162.6 | 148 | 50.3 | 286 | 66.0 | 235 | 47.9 | 12 | 4.9 | 9 | 4.4 |
| | | Wd | 1,769 | 428.0 | 704 | 159.2 | 913 | 212.1 | 785 | 115.4 | 84 | 39.7 | 22 | 17.5 |
| | Above Weir | We | 134 | 39.2 | 29 | 10.9 | 56 | 16.0 | 46 | 12.2 | 2 | 1.0 | 2 | 0.9 |
| | | Wd | 230 | 60.6 | 92 | 22.8 | 119 | 30.2 | 102 | 18.5 | 11 | 5.3 | 3 | 2.3 |
| | Total | | 2,823 | 463.5 | 973 | 168.9 | 1,374 | 224.7 | 1,168 | 126.9 | 109 | 40.4 | 36 | 18.3 |
| September | | | | | | | | | | | | | | |
| | Below Weir | We | 198 | 52.9 | 47 | 15.6 | 29 | 6.8 | 27 | 6.5 | 104 | 25.0 | 23 | 7.2 |
| | | Wd | 163 | 48.8 | 35 | 11.5 | 54 | 18.7 | 27 | 11.9 | 227 | 44.9 | 24 | 7.4 |
| | Above Weir | We | 84 | 24.1 | 20 | 6.9 | 12 | 3.2 | 12 | 3.0 | 44 | 11.6 | 10 | 3.2 |
| | | Wd | 82 | 24.7 | 17 | 5.8 | 27 | 9.4 | 14 | 6.0 | 114 | 22.8 | 12 | 3.7 |
| | Total | | 527 | 79.8 | 119 | 21.4 | 122 | 22.2 | 80 | 15.2 | 489 | 57.5 | 69 | 11.4 |
| October | | | | | | | | | | | | | | |
| | Below Weir | We | 178 | 66.3 | 34 | 12.3 | 1 | 0.9 | 0 | 0.6 | 47 | 16.3 | 2 | 1.0 |
| | | Wd | 171 | 65.4 | 26 | 13.1 | 0 | 0.0 | 0 | 0.0 | 27 | 11.6 | 0 | 0.0 |
| | Above Weir | We | 222 | 70.5 | 42 | 12.9 | 1 | 1.1 | 0 | 0.8 | 58 | 16.8 | 2 | 1.1 |
| | | Wd | 427 | 144.2 | 66 | 30.8 | 0 | 0.0 | 0 | 0.0 | 67 | 26.5 | 0 | 0.0 |
| | Total | | 998 | 185.6 | 168 | 37.9 | 2 | 1.4 | 0 | 1.0 | 199 | 37.2 | 4 | 1.4 |

-Continued-

Appendix B3. (Page 2 of 2).

| Month | Fishery | We/ Wd[a] | Dolly Varden Char Catch | SE[b] | Harvest | SE | Coho Salmon Catch | SE | Harvest | SE | Steelhead/Rainbow Trout Catch | SE | Harvest | SE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| November | | | | | | | | | | | | | | |
| | Below Weir | We | 6 | 5.6 | 1 | 0.6 | 0 | 0.0 | 0 | 0.0 | 0 | 0.3 | 0 | 0.0 |
| | | Wd | 35 | 32.8 | 8 | 7.8 | 0 | 0.0 | 0 | 0.0 | 2 | 2.2 | 0 | 0.0 |
| | Above Weir | We | 17 | 13.2 | 2 | 1.6 | 0 | 0.0 | 0 | 0.0 | 1 | 1.0 | 0 | 0.0 |
| | | Wd | 69 | 64.5 | 16 | 15.3 | 0 | 0.0 | 0 | 0.0 | 4 | 4.6 | 0 | 0.0 |
| | Total | | 127 | 73.8 | 27 | 17.2 | 0 | 0.0 | 0 | 0.0 | 7 | 5.2 | 0 | 0.0 |
| Season Total | | | | | | | | | | | | | | |
| | Below Weir | We | 33,236 | 474.3 | 766 | 122.0 | 316 | 66.4 | 262 | 48.4 | 235 | 68.6 | 41 | 10.0 |
| | | Wd | 99,236 | 1,167.0 | 2,312 | 832.7 | 977 | 213.1 | 822 | 116.3 | 639 | 155.6 | 56 | 20.9 |
| | Above Weir | We | 11,727 | 240.3 | 408 | 59.2 | 69 | 16.4 | 58 | 12.6 | 147 | 41.4 | 18 | 4.6 |
| | | Wd | 22,655 | 414.2 | 592 | 221.7 | 149 | 31.8 | 119 | 19.6 | 274 | 52.4 | 18 | 4.9 |
| | Total | | 16,854 | 1,137.1 | 4,078 | 872.3 | 1,511 | 226.0 | 1,142 | 128.1 | 1,295 | 182.7 | 133 | 24.2 |

[a] Weekend/holiday (We) or Weekday (Wd).
[b] Standard Error.