# PACIFIC SALMON COMMISSION JOINT CHINOOK <br> TECHNICAL COMMITTEE REPORT 

2009 ANNUAL REPORT OF THE
EXPLOITATION RATE ANALYSIS AND MODEL CALIBRATION REPORT TCCHINOOK (09)-3

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## LIST OF ACRONYMS WITH DEFINITIONS

| AABM | Aggregate Abundance Based Management |
| :---: | :---: |
| AC | Allowable Catch |
| AI | Abundance Index |
| ADF\&G | Alaska Department of Fish \& Game |
| AEQ | Adult Equivalent |
| Agreement | June 30, 1999 PST Annex and the related Agreement |
| AUC | Area Under the Curve |
| AWG | Analytical Working Group of the CTC |
| BCAFC | British Columbia Aboriginal Fisheries Commission |
| BTR | Base Terminal Run |
| C\&S | Ceremonial \& Subsistence |
| CBC | Central British Columbia Fishing area Kitimat to Cape Caution |
| CCMP | Comprehensive Chinook Management Plan |
| CDFO | Canadian Department of Fisheries \& Oceans |
| CI | Confidence Interval |
| CNR | Chinook Non-retention |
| CR | Columbia River |
| CRITFC | Columbia River Intertribal Fish Commission |
| CRFMP | Columbia River Fishery Management Plan |
| CTC | Chinook Technical Committee |
| CUS | Columbia Upriver Spring Chinook stock |
| CWT | Coded Wire Tag |
| DIT | Double Index Tag |
| ESA | U.S. Endangered Species Act |
| Est+fw | Estuary Plus Fresh Water Area |
| FL | Fork Length |
| FMP | PFMC Framework Management Plan |
| FNC | First Nations Caucus |
| FOG | Fisheries Operational Guidelines |
| FR | Fraser River |
| GCG | Gene Conservation Group |
| GW | Gitwinksihlkw |
| GS | Strait of Georgia |
| HOR | Hatchery Origin Returns |
| IDFG | Idaho Department of Fish \& Game |
| IDL | InterDam Loss |
| IM | Incidental Mortality |
| ISBM | Individual stock based management |
| LFR | Lower Fraser River |
| LGS | Lower Strait of Georgia |
| mar | Marine Area |
| mar+fw | Marine Plus Fresh Water Area |
| MOC | Mid Oregon Coast |
| MRP | Mark-Recovery Program |


| MSF | Mark-Selective Fishery |
| :---: | :---: |
| MSH | Maximum sustainable harvest |
| MSY | Maximum Sustainable Yield for a stock, in adult equivalents |
| MSY ER | Exploitation Rate sustainable at the escapement goal for a stock, in AEQs |
| NBC | Northern British Columbia Dixon Entrance to Kitimat including Queen Charlotte Islands |
| NA | Not Available |
| NBC | Northern British Columbia Dixon Entrance to Kitimat including Queen Charlotte Islands |
| NM | Nautical Mile |
| NMFS | National Marine Fisheries Service |
| NOC | Oregon Coastal North Migrating Stocks |
| NPS | North Puget Sound |
| NPS-S/F | North Puget Sound Summer/Fall Chinook stock |
| NR | Not Representative |
| NWIFC | Northwest Indian Fisheries Commission |
| ODFW | Oregon Department of Fish \& Wildlife |
| PFMC | Pacific Fisheries Management Council |
| PS | Puget Sound |
| PSC | Pacific Salmon Commission |
| PSARC | Pacific Scientific Advice Review Committee |
| PSMFC | Pacific States Marine Fisheries Commission |
| PST | Pacific Salmon Treaty |
| QDNR | Quinault Department of Natural Resources, Division of fisheries |
| QIN | Quinault Nation |
| QCI | Queen Charlotte Islands |
| RER | Recovery Exploitation Rate |
| $\mathrm{S}_{\text {MSY }}$ | Escapement producing MSY |
| SEAK | Southeast Alaska Cape Suckling to Dixon Entrance |
| SG | Strait of Georgia |
| SPS | South Puget Sound |
| SSRAA | Southern Southeast Regional Aquaculture Association |
| SWVI | Southwest Vancouver Island |
| TAC | Technical Advisory Committee |
| TBR | Transboundary Rivers |
| TTC | Transboundary Technical Committee |
| UFR | Upper Fraser River |
| UGS | Upper Strait of Georgia |
| USCTC | U.S. members of the CTC |
| USFWS | U.S. Fish \& Wildlife Service |
| UW | University of Washington |
| WA/OR | Ocean areas off Washington and Oregon North of Cape Falcon |
| WAC | Washington Coast (Grays Harbor northward) |
| WACO | Washington, Oregon, Columbia River Chinook stock group |
| WCVI | West Coast Vancouver Island excluding Area 20 |
| WDFW | Washington Department of Fisheries and Wildlife |

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## EXECUTIVE SUMMARY

This report contains the principal results of the annual exploitation rate assessment of CWT data through 2008 and the final preseason Chinook model calibration for 2009 (CLB 0907). Results include the Abundance Indices (AIs) for the AABM fisheries and ISBM indices for each party (country).

## AABM ABUNDANCE INDICES AND ASSOCIATED CATCHES

The pre- and postseason AIs for the three AABM fisheries, Southeast Alaska All Gear (SEAK), Northern British Columbia Troll and Queen Charlotte Islands Sport (NBC), and West Coast Vancouver Island Troll and Outside Sport (WCVI) are presented in Table 1. The Agreement specifies that the AABM fisheries are to be managed through the use of the AIs. Each calibration provides the first postseason AIs for the previous year and the preseason AIs for the current year. Preseason AIs are used to set total allowable catch limits in the upcoming fishing season. Subsequently, postseason AIs (from the following year's calibration) are used to track catch overage and underage provisions. The first 2008 postseason AIs and the 2009 preseason AIs have now been finalized.

Table 1. Abundance Indices for 1999 to 2009 for the SEAK, NBC, and WCVI AABM fisheries.

|  | SEAK |  | NBC |  | WCVI |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Preseason | Postseason | Preseason | Postseason | Preseason | Postseason |
| 1999 | 1.15 | 1.12 | 1.12 | 0.97 | 0.60 | 0.50 |
| 2000 | 1.14 | 1.10 | 1.00 | 0.95 | 0.54 | 0.47 |
| 2001 | 1.14 | 1.29 | 1.02 | 1.22 | 0.66 | 0.68 |
| 2002 | 1.74 | 1.82 | 1.45 | 1.63 | 0.95 | 0.92 |
| 2003 | 1.79 | 2.17 | 1.48 | 1.90 | 0.85 | 1.10 |
| 2004 | 1.88 | 2.06 | 1.67 | 1.83 | 0.90 | 0.98 |
| 2005 | 2.05 | 1.90 | 1.69 | 1.65 | 0.88 | 0.84 |
| 2006 | 1.69 | 1.73 | 1.53 | 1.50 | 0.75 | 0.68 |
| 2007 | 1.60 | 1.34 | 1.35 | 1.10 | 0.67 | 0.57 |
| 2008 | 1.07 | 1.01 | 0.96 | 0.93 | 0.76 | 0.64 |
| 2009 | 1.33 |  | 1.10 |  | 0.72 |  |

In general, the AIs for 1999 through 2001 are low compared to AIs in the late 1980s and early 1990s but values increased substantially starting in 2002. The 2009 projected AI values have declined when compared to the high values for 2003 through 2006. In 2007, declines in abundances were detected with a low in 2008. The Agreement specifies an allowable catch for each AI for each fishery. The maximum allowable Treaty catch (total catch minus any hatchery add-on and exclusion catch) by fishery and year and the actual (observed) catches are shown in Table 2. This is the first year of allowable catch under the new agreement.

Table 2. Observed catches and postseason allowable catches for 1999 to 2008, and preseason allowable catches for 1999 to 2009, for AABM fisheries.

| Year | SEAK (T, N, S) ${ }^{\mathbf{1}}$ |  |  | NBC (T, S) |  |  | WCVI (T, S) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pre- <br> season <br> Allowable <br> Catch | Post- <br> season <br> Allowable <br> Catch | Observed <br> Catch | Pre- <br> season <br> Allowable <br> Catch | Post- <br> season <br> Allowable <br> Catch | Observed <br> Catch | Pre- <br> season <br> Allowable <br> Catch | Post- <br> season <br> Allowable <br> Catch | Observed <br> Catch |
|  | 192,800 | 184,200 | 198,842 | 145,600 | 126,100 | 86,726 | 128,300 | 107,000 | 36,413 |
| 2000 | 189,900 | 178,500 | 186,493 | 130,000 | 123,500 | 31,900 | 115,500 | 86,200 | 101,438 |
| 2001 | 189,900 | 250,300 | 186,919 | 132,600 | 158,900 | 43,500 | 141,200 | 145,500 | 117,670 |
| 2002 | 356,500 | 371,900 | 357,133 | 192,700 | 237,800 | 150,137 | 203,200 | 196,800 | 165,036 |
| 2003 | 366,100 | 439,600 | 379,519 | 197,100 | 277,200 | 191,657 | 181,800 | 268,900 | 175,821 |
| 2004 | 383,500 | 418,300 | 417,019 | 243,600 | 267,000 | 241,508 | 192,500 | 209,600 | 216,624 |
| 2005 | 416,400 | 387,400 | 390,482 | 246,600 | 240,700 | 243,606 | 188,200 | 179,700 | 202,662 |
| 2006 | 346,800 | 354,500 | 357,678 | 223,200 | 200,000 | 215,985 | 160,400 | 145,500 | 146,883 |
| 2007 | 329,400 | 259,200 | 327,138 | 178,000 | 143,000 | 144,235 | 143,300 | 121,900 | 139,150 |
| 2008 | 170,000 | 152,800 | 163,685 | 124,800 | 120,900 | 95,647 | 162,600 | 136,900 | 145,726 |
| 2009 | 218,800 |  |  | 143,800 |  |  | 107,800 |  |  |

${ }^{1}$ Nomenclature is T for troll, N for net, and S for sport.
${ }^{2}$ The lower value resulted from subtracting a disputed terminal exclusion catch for the Stikine River in 2004. Catch accounting has since been defined in the Transboundary Agreement.

Table 3 shows the differences between the postseason allowable catches and the observed catches in AABM fisheries for 1999-2008, and the cumulative differential for those years. All three AABM fisheries have cumulative underages. In SEAK, observed catches have been below final allowable catches for three of the nine years; the cumulative differential is $-1.1 \%$ or $-0.9 \%$. In NBC, observed catches have been below the final allowable catches in seven of the ten years; the cumulative differential is $-23.8 \%$. In WCVI, observed catches have been below allowable catches in five of the ten years; the cumulative differential is $-9.4 \%$.

Table 3. Deviations in numbers of Chinook salmon and percentages from catch targets derived from the first postseason AI (Table 2) for Pacific Salmon Treaty AABM fisheries in 1999 to 2008.

| Year | Number of <br> Fish | Percent <br> Difference | Number of <br> Fish | Percent <br> Difference | Number of <br> Fish | Percent <br> Difference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NBC | WCVI |  |  |  |  |
|  | $+14,642$ | $+7.9 \%$ | $-39,374$ | $-31.2 \%$ | $-70,587$ | $-66.0 \%$ |
| 2001 | $-63,381$ | $-25.3 \%$ | $-115,400$ | $-72.6 \%$ | $-27,830$ | $-19.1 \%$ |
| 2002 | $-14,767$ | $-4.0 \%$ | $-87,663$ | $-36.9 \%$ | $-31,764$ | $-16.1 \%$ |
| 2003 | $-60,081$ | $-13.7 \%$ | $-85,543$ | $-30.9 \%$ | $-93,079$ | $-34.6 \%$ |
| 2004 | $-1,281$ | $-0.3 \%$ | $-25,492$ | $-9.5 \%$ | $+7,024$ | $+3.4 \%$ |
| 2005 | $+3,366$ | $+0.8 \%$ | -082 | $+0.8 \%$ | $+2,906$ | $+1.2 \%$ |

${ }^{1}$ The lower value resulted from subtracting a disputed terminal exclusion catch for the Stikine River in 2004. Catch accounting has since been defined in the Transboundary Agreement.

## ISBM INDICES

For ISBM fisheries, the Agreement specified that Canada and the United States would reduce base period exploitation rates on specified stocks by $36.5 \%$ and $40 \%$, equivalent to ISBM indices of $63.5 \%$ and $60 \%$, respectively. This requirement is contained in Chapter 3 section 4(d) of the treaty and is referred to as the 'general obligation' and does not apply to stock groups that achieve their CTC agreed escapement goals. Estimated ISBM fishery indices are shown in Table 4 for Canadian fisheries and Table 5 for United States (U.S.) fisheries. Both tables present CWTbased indices for 2007, and Chinook model-based indices for 2009. The agreement specifies that the ISBM indices be forecasted preseason and evaluated postseason for each escapement indicator stock listed in Attachments I to V of the Chinook Chapter.

## CWT-based Indices in 2007

Five of the six Canadian ISBM indices from the Coded Wire Tag (CWT)-based estimates for 2007 show that exploitation rates were reduced more than required for all stocks or stock groups for which the indices could be calculated, with the exception being West Coast Vancouver Island. Four of the 16 U.S. ISBM indices for the CWT-based estimates for 2007 were reduced more than required. The other 12 U.S. CWT-based ISBM indices exceeded 0.60 . Ten of these stocks (Upriver Brights, Quillayute, Queets, Hoh, Lewis, Mid-Columbia Summers, Nehalem, Siletz, Siuslaw and Cowichan) have agreed escapement goals. Four of these stocks (Upriver

Brights, Quillayute, Hoh, and Mid-Columbia Summers) met or exceeded their respective escapement goals, and thus are exempted from the general obligation. . The only stock that didn't meet this criterion was Gray's Harbor Chinook. Figures 1.10 and 1.11 show the historical ISBM indices based on CWT recoveries for 1999-2007.

Table 4. Canadian 2007 ISBM indices based on CWT and the 2009 indices predicted from the PSC Chinook Model.

|  |  | Canadian ISBM Indices |  |
| :---: | :---: | :---: | :---: |
| Stock Group | Escapement Indicator Stock | CWT Indices for $\mathbf{2 0 0 7}$ | Model Indices for 2009 |
| Lower Strait of Georgia | Cowichan <br> Nanaimo | $\begin{gathered} 0.043^{4} \\ N A^{1,5} \\ \hline \end{gathered}$ | $0.495{ }^{6}$ |
| Fraser Late | Harrison River ${ }^{2}$ | $0.035{ }^{7}$ | 0.245 |
| North Puget Sound Natural | Nooksack | NA | 0.988 |
| Springs | Skagit | NA | 0.988 |
| Upper Strait of Georgia | Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish | 0.268 | 0.128 |
| Fraser Early (spring and summers) | Upper Fraser, Mid Fraser, Thompson | NA | 0.094 |
| West Coast Vancouver Island Falls | WCVI (Artlish, Burman, Kauok, Tahsis, Tashish, Marble) | $0.906{ }^{9}$ | 0.137 |
| Puget Sound Natural Summer Falls | Skagit <br> Stillaguamish <br> Snohomish <br> Lake Washington ${ }^{8}$ <br> Green River | $\begin{gathered} \hline \text { NA } \\ 0.192 \\ \text { NA } \\ \text { NA } \\ 0.076 \end{gathered}$ | $\begin{gathered} \hline 1.097 \\ 1.123 \\ 1.098 \\ 0.918^{8} \\ 0.919^{8} \\ \hline \end{gathered}$ |
| North / Central B. C. | Yakoun, Nass, Skeena, Area 8 | NA | 0.224 |
| Washington Coastal Fall Naturals ${ }^{3}$ | Hoko, Grays Harbor, Queets ${ }^{2}$, Hoh ${ }^{2}$ Quillayute ${ }^{2}$ | NA | 0.328 |
| Columbia River Falls ${ }^{3}$ | Upriver Brights ${ }^{2}$ <br> Deschutes <br> Lewis ${ }^{2}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \text { NA } \end{aligned}$ | $\begin{aligned} & 0.517 \\ & 0.517 \\ & 0.832 \end{aligned}$ |
| Columbia R Summers ${ }^{3}$ | Mid-Columbia Summers ${ }^{2}$ | NA | 0.285 |
| Far North Migrating OR Coastal Falls | Nehalem ${ }^{2}$, Siletz ${ }^{2}$, Siuslaw ${ }^{2}$ | NA | 0.543 |

${ }^{1}$ Not available (NA) because of insufficient data (lack of stock specific tag codes, base period CWT recoveries, etc).
${ }^{2}$ Stock or stock group with a CTC agreed escapement goal.
${ }^{3}$ Stock groups listed in Annex 4, Chapter 3, Attachment V.
${ }^{4}$ An inconsistency was discovered between the approaches used to calculate the model-based and CWT-based indices. The former included harvest rates for terminal sport while the latter did not. Terminal sport harvest rates are now included in the calculation of both indices. Further review is yet required to determine whether the base period terminal sport harvest rates obtained from analyses of Big Qualicum CWT recoveries adequately represent impacts that would have occurred on Cowichan Chinook.
${ }^{5}$ Several problems have been identified in the approach previously used to calculate the CWT-based indices for Nanaimo Chinook. Until these problems are resolved, indices for this stock will not be reported.
${ }^{6}$ Although model-based indices were previously calculated separately for Cowichan and Nanaimo, these did not adequately represent impacts on either LGS stock because the model-based data represent an aggregate of the two
stocks and methods do not currently exist to correctly disaggregate these data for calculation of the ISBM values. Until such methods are developed, a single index value only will be reported representing the aggregate.
${ }^{7}$ The terminal sport harvest rates for Chilliwack Hatchery Chinook, the indicator stock, were removed from the calculation for the Harrison River naturals because sport harvest has been essentially zero on the natural population.
${ }^{8}$ For Canadian ISBM fisheries, the same distribution and Index value are used for Lake Washington and Green R.
${ }^{9}$ ISBM indices for WCVI naturals are based on information from Robertson Cr. hatchery stock, including terminal harvest rates. Prior to this report, harvest rates for terminal net and sport fisheries were treated as equal between the naturals and the hatchery indicator. However, this ignored the fact that since 1999, there has been no terminal net harvest of the vast majority of natural stocks on WCVI. Consequently, indices for WCVI naturals were adjusted to reflect this zero terminal net harvest rate. In addition, some inconsistencies were noted in the treatment of terminal harvest rates between the model and CWT indices for this stock group. These inconsistencies were eliminated.

## Predicted ISBM Indices for 2009

Eight of the 19 ISBM indices for Canada, based on outputs from calibration 0907, are predicted to exceed the allowable value of 0.635 for Canadian ISBM fisheries in 2009 (Table 4). Seven of these eight stocks are Puget Sound Natural Summer/Fall stocks, and do not have CTC-accepted escapement goals. One of the eight stocks, the Lewis River, has a CTC escapement goal, but was below goal in 2008.

Eight of the 22 U.S. ISBM indices based on calibration 0907 are predicted to be above the allowable limit of 0.60 for U.S. ISBM fisheries in 2009 (Table 5). Seven of the eight have CTC agreed escapement goals: Hoh, Quillayute, Upriver Brights, Mid-Columbia Summers, Nehalem, Siletz, and Siuslaw, with the exception being Lake Washington. Of the stocks with goals, four were at or above goal in 2008, and three (the Oregon stocks) were below goal in 2008.

Table 5. U.S. 2007 ISBM indices based on CWT and the 2009 indices predicted from the PSC Chinook Model.

|  |  | U.S. ISBM Indices |  |
| :---: | :---: | :---: | :---: |
| Stock Group | Escapement Indicator Stock | CWT Indices for 2007 | Model Indices for 2009 |
| Washington Coastal Fall Naturals | Hoko <br> Grays Harbor <br> Queets ${ }^{2}$ <br> Hoh ${ }^{2}$ <br> Quillayute ${ }^{2}$ | $\begin{aligned} & \mathrm{NA}^{1} \\ & 0.790 \\ & 1.050 \\ & 2.230 \\ & 1.470 \end{aligned}$ | $\begin{aligned} & 0.284 \\ & 0.404 \\ & 0.508 \\ & 0.981 \\ & 0.881 \end{aligned}$ |
| Columbia River Falls | Upriver Brights ${ }^{2}$ <br> Deschutes <br> Lewis ${ }^{2}$ | $\begin{aligned} & 3.100 \\ & 0.510 \\ & 0.790 \end{aligned}$ | $\begin{aligned} & 0.798 \\ & 0.461 \\ & 0.470 \end{aligned}$ |
| Puget Sound Natural Summer / Falls | Skagit <br> Stillaguamish <br> Snohomish <br> Lake Washington <br> Green R | $\begin{gathered} \hline \text { NA } \\ 0.120 \\ \text { NA } \\ \text { NA } \\ 0.380 \end{gathered}$ | $\begin{aligned} & 0.292 \\ & 0.446 \\ & 0.202 \\ & 0.768 \\ & 0.555 \end{aligned}$ |
| Fraser Late | Harrison River ${ }^{2}$ | 0.080 | 0.410 |
| Columbia R Summers | Mid-Columbia Summers ${ }^{2}$ | 1.840 | 1.236 |
| Far North Migrating OR Coastal Falls | $\begin{aligned} & \text { Nehalem }^{2,5} \\ & \text { Siletz }^{2,5} \\ & \text { Siuslaw }^{2,5} \\ & \hline \end{aligned}$ | $\begin{aligned} & 2.010 \\ & 1.600 \\ & 1.000 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 2.003 \\ & 1.217 \\ & 1.632 \\ & \hline \end{aligned}$ |
| North Puget Sound Natural Springs | Nooksack Skagit | $\begin{aligned} & \hline \text { NA } \\ & \text { NA } \end{aligned}$ | $\begin{aligned} & \hline 0.107 \\ & 0.143 \end{aligned}$ |
| Lower Strait of Georgia ${ }^{3}$ | Cowichan, Nanaimo | $\begin{aligned} & 1.550 \\ & 1.550 \end{aligned}$ | $\begin{aligned} & \hline 0.367 \\ & 0.367 \end{aligned}$ |
| Upper Strait of Georgia ${ }^{3}$ | Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish | NA | NC ${ }^{4}$ |
| Fraser Early (spring and summers) | Upper Fraser, Mid Fraser, Thompson | NA | 0.156 |
| West Coast Vancouver Island Falls ${ }^{3}$ | WCVI (Artlish, Burman, Kaouk, Tahsis, Tashish, Marble) | NA | 0.146 |
| North / Central B. C. ${ }^{3}$ | Yakoun, Nass, Skeena, Area 8 | NA | NC ${ }^{4}$ |

${ }^{1}$ Not available (NA) because of insufficient data (lack of stock specific tag codes, base period CWT recoveries, etc).
${ }^{2}$ Stock with a CTC agreed escapement goal.
${ }^{3}$ Stock groups listed in Annex 4, Chapter 3, Attachment IV.
${ }^{4} \mathrm{NC}$ means that the current model assumes the stock is not caught in U.S. ISBM fisheries.
${ }^{5}$ Oregon coast stocks are based on a three year average harvest rate in in-river fisheries and are thus high. In addition Base Period harvest rates were low in terminal area fisheries.

## 1 EXPLOITATION RATE ANALYSIS AND MODEL CALIBRATION

### 1.1 INTRODUCTION

This chapter describes the methods and results of the cohort analysis, used to estimate exploitation rates from CWT data, and the PSC Chinook model calibration. The results of the 2008 preseason calibration (CLB 0907) are based on the exploitation rate analysis using CWT data through 2007, coast-wide data on catch, spawning escapements and age structure through 2008, and forecasts of Chinook returns expected in 2009. This chapter includes:

1) estimated postseason abundance indices for 1979 through 2008 and the preseason projection for 2009 for the AABM fisheries,
2) estimated non-ceiling indices, referred to as the ISBM indices in this report, for 1999 to 2007 and modeled ISBM projections for the 2009 ISBM fisheries,
3) estimated stock composition for 1979 through 2008 and a projection for 2009 for the AABM and other fisheries, and
4) estimated fishery indices (harvest rates) for the AABM fisheries.

Appendix A shows the relationship between the exploitation rate indicator stocks, model stocks, and PST Annex stocks. Appendices B to I present some additional output from the exploitation rate analysis and model calibration beyond the summaries presented in this Chapter. Appendix B provides the time series of ISBM CWT indices, and ISBM model indices from calibration 0907. Appendix C shows the percent distribution of landed catch and total mortality by catch year for exploitation rate indicator stocks. Appendix E has the time series of brood year exploitation rates for the CWT indicator stocks. Appendix F shows the model estimates of stock composition in AABM and other sport and troll fisheries. Appendix G lists the incidental mortality rates used in the CTC model. Appendix H gives the time series of total AIs for the AABM fisheries, and Appendix I provides the AIs for each model stock for each AABM fishery. Appendix J presents the time series of CWT-based fishery exploitation rate indices by stock, age, and fishery.

### 1.2 METHODS

A complete description of methods for the exploitation rate analysis and model procedure is reported in TCCHINOOK (05)-2 (CTC 2005b). The exploitation rate assessment is performed through cohort analysis of CWT release and recovery data (CTC 1988). Cohort analysis is the reconstruction of the exploitation history of a given stock and brood year and is used to produce a variety of statistics, including total exploitation rates, age and fishery specific exploitation rates, maturation rates, pre-age 2 recruitment survival indices (Appendix D), and annual distribution of fishery-related mortalities.
Estimates of age and fishery-specific exploitation and maturation rates from the cohort analysis are combined with data on catches, escapements, non-retention, and enhancement to complete the annual calibration of the CTC Model. The calibration procedure estimates pre-age 2 survival to recruitment for the stocks included in the model.

Results from the annual preseason calibration of the Chinook model are used to calculate: 1) AIs for the three AABM fisheries; 2) postseason AIs for the previous year; and 3) preseason and
postseason ISBM indices. Projected AIs for 2009 are used to determine the allowable 2009 catch of Treaty Chinook for AABM fisheries. Postseason AIs are used to appraise the season's allowable catches and to evaluate compliance for AABM fisheries. For the ISBM fisheries, the Agreement specifies that Canada and the United States will reduce the exploitation rate from the 1979-1982 base period by $36.5 \%$ and $40.0 \%$, respectively, on stocks that have not achieved their CTC agreed escapement goals. The ISBM index is used to estimate the annual reduction in exploitation rates relative to the base period. Postseason ISBM indices for 2008 are computed using results of the exploitation rate analysis. Forecasts of the 2009 ISBM indices are computed using the CTC model. The Agreement specifies that the postseason ISBM indices estimated through exploitation rate analysis of CWT recoveries will be used to assess the ISBM index.

### 1.3 CHANGES IN THE 2009 CHINOOK MODEL CALIBRATION (\#0907) FROM 2008

1. BSE, STK, PNV and IM files: No changes were made.

## 2. FCS File (Escapements, terminal runs and agency forecasts)

For stocks with forecasts, the 2008 agency forecasts were updated with actual return numbers and 2009 agency forecasts were added. For stocks without forecasts, the 2008 terminal runs or escapements were added.

WSH: Changes were made to rectify errors in reporting of the age-structured terminal run dating back to 2007. The specific error made was that instead of reporting the age specific terminal run estimates for ages 4,5 and 6 (as had been done prior to 2007), the FCS file contained terminal run information for age 3, ages 4, and age 5 and 6 's combined. The model was not able to reconcile the maturation rate data for WSH with the reported age structure of the terminal run in the FCS file. This resulted in inflation of the 2005 EV scalar and a poor fitting of the 2007 and 2008 model estimates of terminal run by age to the calibration data. The WSH data in the FCS file was reviewed and the errors corrected back to 2007, including the observed data for 2008 and the forecast for 2009.

ORC: Changes were made to the age specific escapements for the NOC Oregon coastal aggregate dating back to 2004. Age structure for the Oregon Coast escapement estimates for 2004 and 2005 had been apportioned through long-term averages, instead of year specific observational data. Observations of age-structured escapement within each escapement year were applied to the escapement data in this year's model calibration. A deficiency in the escapement sampling in the NOC aggregate for the 2006 return year was noted. Specifically, estimates of 3-year old escapement were biased extremely low for the aggregate. Only two 3year old fish were observed in the series of "standard" surveys traditionally used to generate both estimates of escapement and age-structure for the year's return. Fortunately, in 2006 markrecapture studies were conducted concurrently in two of the aggregate's three escapement indicator basins; the Siletz and Siuslaw. The average age-structure data between these studies was independently applied to the overall aggregate's escapement estimate. While this method differs from the method used to apportion the age specific escapement for the ORC stock in all other return years in the FCS file, analysts believe this method provides for a better, more
defensible estimate of the overall age structure for the escapement of the NOC aggregate in 2006.

WCH and WCN: Analysts noted that both WCN and WCH stocks in the *.FCS file differed from the terminal data used by WDFW and co-managers and reported in PFMC post-season ocean reviews. Hence, in order to make all three data sources match up, the terminal run data from the FP spreadsheet (wentfp09.xls) were used to update data for the WCH stock from 1990 through 2008 and for the WCN stock from 1991 through 2008.

SNO: The 2005 and 2006 terminal run data was updated.
CWS: The 2002-2008 terminal run data was updated.
SKG, URB, SPR, BON, CWF and MCB: The 2007 terminal run data was updated.

## 3. CNR File (Chinook non-retention data)

Unless a fishery is specifically mentioned below, no CNR was reported in that fishery in 2008.
SEAK Troll: External estimates of CNR encounters and associated landed catch values (CNR method 2) were updated from 2004-2007 and 2008 data was added.

North Troll: External estimates of CNR encounters (CNR method 2) were updated for 2002 and 2005-2007. The 2003 CNR effort data (CNR method 1) was replaced with external estimates of CNR encounters and 2008 encounter estimates were added.

Central Troll: 2008 external estimates of CNR encounters (CNR method 2) were added.
WCVI Troll: The 2006 external estimates of CNR encounters (CNR method 2) were updated. The 2007 external estimate of encounters was changed to no CNR (CNR method 0 ) in 2007. No CNR was reported in 2008.

GS Troll: The 1985 landed catch associated with the external estimate of encounters (CNR method 2) was updated. No CNR was reported in 2008.

SEAK Net: The 1994, 1998, 1999 and 2007 external estimates of CNR encounters and the associated landed catch values (CNR method 2) were updated. The 2005 and 2006 CNR encounter estimates were changed to no CNR (CNR method 0). The yearly CNR encounter estimates are estimated from a regression based on landed catch. However, there were no CNR periods in the SEAK net fishery in 2005 and 2006 so the regression estimates should not have been applied in 2005 and 2006.

North Net: 2008 CNR effort data (CNR method 1) was added.
WCVI Net: 2006 CNR effort data (CNR method 1) was updated. No CNR was reported in 2008.

Juan de Fuca Net: The 2007 external estimates of CNR encounters (CNR method 2) were updated. CNR effort estimates (CNR method 1) were added for 2008.

Johnstone Strait Net: The 2006 CNR effort estimates (CNR method 1) were updated. The 2007 CNR effort estimates were replaced with external estimates of CNR encounters (CNR method 2). CNR effort estimates for 2008 (CNR method 1) were added.

North/Central (QCI) Sport: The 1995 and 1997-2005 CNR effort estimates (CNR method 1) were updated. The 2006 and 2007 external estimates of CNR encounters (CNR method 2) were replaced with CNR effort estimates (CNR method 1). In addition, the legal selectivity factor was changed from 0.34 to 1 . This was done because CNR method 1 (the ratio of CNR effort to retention effort) is being used to estimate the number of legal sized releases in this fishery during the retention fishery. The estimates of the number of legal-sized releases from certain areas of the QCI sport fishery are being used in place of the CNR effort and the landed catch estimates in these areas are being used in place of the retention effort. The resulting ratio of legal sized releases to landed catch is then used to estimate the legal sized releases for the entire fishery. The legal selectivity factor was set to 1 since the encounters are happening during the retention fishery when legal Chinook are being targeted. There is no need to discount the release estimates due to targeting of other species or fishing in areas of reduced Chinook abundance as expected during a true non-retention fishery. In addition, the sublegal selectivity factor was changed from 1 to 0 since the sublegal releases are occurring during the retention fishery and are already being accounted for in the estimated number of shakers. If the sublegal selectivity were left at 1 then there would be a double accounting for the sublegal releases. In addition, estimates of legal sized releases and landed catch (CNR method 1) were added for 2008.

WCVI Sport: The same method for estimating legal sized releases that was described in the narrative for the QCI sport fishery was used in the WCVI sport fishery as well: In order to estimate the number of legal size releases in the WCVI sport fishery, the 2001-2007 external estimates of CNR encounters (CNR method 2) were replaced with CNR method 1. External estimates of encounters and landed catch were used in place of CNR effort and retention effort respectively. The legal selectivity factor was changed from 0.34 to 1 and the sublegal selectivity factor was changed from 1 to 0 for the same reasons that were described in the narrative for QCI sport. In addition, estimates of legal sized releases and landed catch (CNR method 1) were added for 2008.

Puget Sound North Sport and Puget Sound South Sport: The 2007 estimates of CNR angler trips and retention angler trips (CNR method 1) were updated and the updated 2007 values were also used as the estimated data for 2008.

Strait of Georgia Sport: The 2000-2007 external estimates of CNR encounters (CNR method 2) for the Strait of Georgia (GS) sport fishery were changed to no CNR encounters (CNR method 0 ). This fishery is actually a combination of GS sport and Canadian Juan de Fuca sport. The GS sport has a 62 cm size limit and the Juan de Fuca sport has a 45 cm size limit. This means that some sublegal fish that are released in GS sport are above the legal size limit in Juan de Fuca sport. It is unclear what data could be provided that would generate appropriate legal and sublegal estimates of CNR encounters. In addition, the pseudo-CNR encounter estimates that had been reported for 2000-2007 could not be replicated. Therefore, the decision was made to
remove the pseudo-CNR data that had been reported for these years. There is recognition that a review and discussion of this issue by the AWG and Model Improvement Workgroup is needed.

## 4. CEI File (Ceiling File)

The only change to fisheries in the ceiling file that are not specifically referenced below is the addition of the 2008 fishery catch.

SEAK Troll, SEAK Net and SEAK Sport: The 2003-2007 treaty catches were updated and the 2008 treaty catches were added.

North/Central (QCI) Sport and WCVI Sport: The 2007 catch was updated and the 2008 catch was added.

WA/OR Troll: The 1989-2007 catches were updated and the 2008 catch was added.
WA/OR Sport: The 1996-2007 catches were updated and the 2008 catch was added.
Puget Sound North Sport and Puget Sound South Sport: The 2004-2007 catches were updated and the 2008 catches were added.

## 5. FPA (FP) and ST2 (Stage 2 Calibration) Files

Fisheries with terminal Fishery Policy (FP) spreadsheets: The terminal FP spreadsheets for South Puget Sound Net, Washington Coastal Net, Columbia River Net, Fraser Net and Columbia River Sport were updated with catch and escapement data through 2008 to create FPA files with FP data through 2008. FP projections were made for 2009 based on a three year average from 2006-2008.

Fisheries without terminal FP spreadsheets: All fisheries without a terminal FP spreadsheet are in the CEI file. For all stocks not specifically referenced in an FPA file, FP changes were made to the pre-ceiling years of 1983 and 1984 using the updated FI values from the latest Exploitation Rate Analysis (ERA). Any stocks that were specifically mentioned in the FPA files had their FP data updated through 2007, the most recent year in the ERA.

SEAK Troll: The FP spreadsheet was updated using the recently completed ERA results through 2007. The SEAK troll FP spreadsheet combines the stock and age specific base period exploitation rates in the six SEAK troll SPFI strata with the yearly strata specific FI values to create year, stock and age specific FP values for the fishery. Any stocks that were not specifically mentioned in the FPA file had their FP data updated using the SEAK SPFI values through 2007. The six SPFI strata are Winter/Spring, June Inside, June Outside, July Inside, July Outside and Fall.

The stage 2 calibration used the "recent" year (variable among fisheries and stocks) FPxRT averages through 2008 to compute 2009 and 2010 FP values. The new 2009 and 2010 FP values replaced the FP values in the stage 1 FPA files and a new stage 2 FP file was created that contained FP data for all fisheries, stocks and ages. All fisheries with terminal FP spreadsheets
had updated FP data through 2008 and all fisheries without terminal FP spreadsheets were in the CEI file and had catch estimates through 2008. Therefore, the model computed RT data for these fisheries through 2008. Hence, all fisheries had either updated FP data and/or RT values through 2008. The stage 2 FP file was used in both the stage 2 calibration and the projection run to try to more accurately represent the fishery, stock, and age specific impacts in the projection years of 2009 and 2010. Use of the FPxRT averages for the projection years helps to produce more realistic catch estimates for specific stocks in the fisheries and also produces more realistic terminal runs sizes.

IDL (Interdam Loss) File: Columbia River stocks had their interdam loss factors updated through 2008. 2009 was projected based on short term (3 year) averages.

MATAEQ (Maturation and Adult Equivalence) File: The 12 stocks in the MATAEQ file (AKS, BON, CWF, GSH, LRW, ORC, RBH, RBT, SPR, URB, WSH and FRL) had their age specific maturation rate and AEQ estimates updated through 2007 using stock and age specific estimates from the most recent ERA. Values from missing broods and projection years used long-term average maturation rate and AEQ estimates by stock and age. In some instances, stock specific maturation and AEQ data from broods that were not technically missing were treated as though they were missing if the information was deemed to be suspect. A summary of these changes is presented in Table 1.1 Modifications to the maturation rate and AEQ data in the MATAEQ file.

| STOCK |  |  | PROBLEM/ISSUE | RESOLUTION | EFFECT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ERA | MODEL | BROOD |  |  |  |
| LRH | BON | 1977 | Age 2 maturation rate equals 0 | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1980 | No age 5 recoveries Age 4 maturation rate < age 3 | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1983 | maturation rate | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1986 | Age 2 maturation rate equals 0 , No age 5 recoveries | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1987 | No age 5 recoveries | No change |  |
| LRH | BON | 1988 | No age 5 recoveries | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1990 | No age 5 recoveries | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1991 | Age 2 maturation rate equals 0 , No age 5 recoveries <br> Age 4 maturation rate < age 3 | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1992 | maturation rate | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1993 | No age 5 recoveries | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1994 | No age 5 recoveries | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRH | BON | 1995 | No age 5 recoveries | No change |  |
| LRH | BON | 1996 | No age 5 recoveries | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| CWF | CWF | 1994 | Age 2 maturation rate equals 0 | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| CWF | CWF | 1997 | No age 5 recoveries No age 5 recoveries, Poor | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| BQR | GSH | 1992 | brood survival | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRW | LRW | 1996 | Age 2 maturation rate equals 0 | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| LRW | LRW | 1997 | Age 2 maturation rate equals 0 | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| RBT | RBT, RBH | 1992 | Age 2 maturation rate equals 0 | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| RBT | RBT,RBH | 1997 | Age 2 maturation rate equals 0 | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| SPR | SPR | 1979 | No age 5 recoveries | No change |  |
| SPR | SPR | 1983 | No age 5 recoveries | No change |  |
| SPR | SPR | 1984 | No age 5 recoveries | No change |  |
| SPR | SPR | 1992 | No age 5 recoveries | No change |  |
| SPR | SPR | 1994 | No age 5 recoveries | No change |  |
| WSH | WSH | 1982 | Age 2 maturation rate equals 0 | Set brood year to invalid | MATAEQ file uses long-term maturation rates |
| WSH | WSH | 1994 | No age 6 recoveries | Set brood year to invalid | MATAEQ file uses long-term maturation rates |

The highlighted stock and brood specific changes were also made to the 2007 and 2008 model calibrations.

### 1.4 EXPLOITATION RATE ASSESSMENT (THROUGH CALENDAR YEAR 2008)

The CTC currently monitors 43 exploitation rate indicator stocks that are coded-wire tagged, but only 40 were used for analyses in this chapter (Table 1.1). The historic time series was expanded for: Nanaimo, Nicola, Dome, and Lower Shuswap. An exploitation rate indicator stock is not used in the exploitation rate analysis if the number of CWT recoveries is very limited (minimum of 35 estimated recoveries for a given stock and age combination) or there is no quantitative estimate of tags in the spawning escapement (see footnotes in Table 1.2). Indicator stocks used for exploitation rate analysis and the type of analysis performed for each are shown in Table 1.2. The relationship between the exploitation rate indicator stocks, model stocks, and PST Annex stocks are shown in Appendix A. Extrapolation of results to similar stocks and/or generalizations about fishery impacts will only be appropriate to the extent that the exploitation rate indicator stocks are representative of the stock groups they are intended to represent.

Table 1.1. Exploitation rate indicator and DIT stocks, their location, run type, and smolt age.

| Stock/Area | Exploitation Rate Indicator Stocks | Hatchery | Run Type | Age |
| :---: | :---: | :---: | :---: | :---: |
| Southeast Alaska | Alaska Spring | Crystal Lake, Whitman Lake, Little Port Walter, Deer Mountain, Neets Bay | Spring | Age 1 |
| North/Central BC | Kitsumkalum | Terrace | Summer | Age 1 |
| WCVI | Robertson Creek | Robertson Cr. | Fall | Age 0 |
| Strait of Georgia | Quinsam <br> Puntledge <br> Big Qualicum <br> Cowichan <br> Nanaimo | Quinsam <br> Puntledge <br> Big Qualicum <br> Cowichan <br> Nanaimo | Fall <br> Summer <br> Fall <br> Fall <br> Fall | Age 0 <br> Age 0 <br> Age 0 <br> Age 0 <br> Age 0 |
| Fraser River | Chilliwack (Harrison Stock) ${ }^{1}$ <br> Lower Shuswap <br> Nicola <br> Dome | Chilliwack <br> Shuswap Falls <br> Spius Creek <br> Penny Creek | Fall Summer Spring Spring | Age 0 <br> Age 0 <br> Age 1 <br> Age 1 |
| North Puget Sound | Skagit Spring Fingerling Skagit Spring Yearling ${ }^{1}$ Skagit Summer Fingerling Nooksack Spring Fingerling Nooksack Spring Yearling Samish Fall Fingerling ${ }^{1}$ | Marblemount <br> Marblemount <br> Marblemount <br> Kendall Cr. <br> Kendall Cr. <br> Samish | Spring <br> Spring <br> Summer <br> Spring <br> Spring <br> Summer/Fall | $\begin{aligned} & \hline \text { Age } 0 \\ & \text { Age } 1 \\ & \text { Age } 0 \\ & \text { Age } 0 \\ & \text { Age } 1 \\ & \text { Age } 0 \\ & \hline \end{aligned}$ |
| Central Puget Sound | Stillaguamish Summer Fingerling South Puget Sound Fall Fingerling ${ }^{1}$ Univ. of Washington Accelerated | Stillaquamish Tribal Soos Cr. / Grovers Cr. UW | Summer/Fall <br> Summer/Fall <br> Summer/Fall | $\begin{aligned} & \hline \text { Age } 0 \\ & \text { Age } 0 \\ & \text { Age } 0 \\ & \hline \end{aligned}$ |
| South Puget Sound | South Puget Sound Fall Yearling White River Spring Yearling ${ }^{2}$ Nisqually Fall Fingerling ${ }^{1}$ | Tumwater Falls White R. Clear Cr. | Summer/Fall <br> Spring <br> Summer/Fall | $\begin{aligned} & \hline \text { Age } 1 \\ & \text { Age } 1 \\ & \text { Age } 0 \\ & \hline \end{aligned}$ |
| Hood Canal | George Adams Fall Fingerling ${ }^{1}$ | George Adams | Summer/Fall | Age 0 |
| Juan de Fuca | Elwha Fall Fingerling <br> Hoko Fall Fingerling | Lower Elwha Hoko | Summer/Fall <br> Summer/Fall | $\begin{aligned} & \text { Age } 0 \\ & \text { Age } 0 \end{aligned}$ |
| North Wash. Coast <br> Willamette R. | Sooes Fall Fingerling <br> Queets Fall Fingerling (wild brood) <br> Willamette Spring ${ }^{1}$ | Makah NFH <br> Salmon R. (WA) <br> Willamette H | Fall <br> Fall <br> Spring | $\begin{aligned} & \text { Age } 0 \\ & \text { Age } 0 \\ & \text { Age } 1 \\ & \hline \end{aligned}$ |
| Lower Columbia R. <br> Upper Columbia R. | Cowlitz Tule (WA) <br> Spring Creek Tule (WA) ${ }^{1}$ <br> Columbia Lower River Hatchery ${ }^{1}$ <br> Lewis River Wild <br> Columbia Summers (WA) <br> Columbia Upriver Bright <br> Hanford Wild | Cowlitz <br> Spring Cr. NFH <br> Big Creek <br> Wild <br> Wells <br> Priest Rapids <br> Wild | Fall Tule <br> Fall Tule <br> Fall Tule <br> Fall Bright <br> Summer <br> Fall Bright <br> Fall Bright | Age 0 <br> Age 0 <br> Age 0 <br> Age 0 <br> Age 1 <br> Age 0 <br> Age 0 |
| Snake River | Lyons Ferry ${ }^{3,1}$ | Lyons Ferry | Fall Bright | Age 0 |
| North Oregon Coast | Salmon River | Salmon R. | Fall | Age 0 |
| Mid Oregon Coast | Elk River | Elk R. | Fall | Age 0 |

1 DIT tags associated with this stock.
2 No longer adipose fin clipped
3 Sub-yearlings have been CWT-tagged since brood year 1986, except for brood years 1993 through 1997.

Table 1.2. The 40 CWT exploitation rate indicator stocks used in the exploitation rate analysis and the data derived from them: fishery, ISBM and survival indices, brood exploitation rates (Brood Exp), and stock catch distribution (Dist) with quantitative escapement estimates (Esc) and tagging during the base period years 1979-1982.

| Exploitation Rate Indicator Stocks | Fishery Index | ISBM | $\begin{gathered} \text { Brood }^{1} \\ \text { Exp } \end{gathered}$ | Survival Index | Dist | Esc | Base Tagging |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alaska Spring | yes | - | Total | yes | yes | yes | yes |
| Kitsumkalum | - | - | Total | yes | yes | yes | - |
| Robertson Creek | yes | yes | Ocean ${ }^{1}$ | yes | yes | yes | yes |
| Quinsam | yes | yes | Total | yes | yes | yes | yes |
| Puntledge | yes | - | Total | yes | yes | yes | yes |
| Big Qualicum | yes | yes | Total | yes | yes | yes | yes |
| Nanaimo | - | yes | Total | yes | yes | yes | yes |
| Dome | - | - | Total | - | yes | yes | - |
| Lower Shuswap | - | - | Total | - | yes | yes | yes |
| Nicola | - | - | Total | - | yes | yes | - |
| Cowichan | yes | yes | Total | yes | yes | yes | - |
| Chilliwack (Harrison Fall Stock) | - | yes | Total | yes | yes | yes | - |
| Nooksack Spring Fingerling | - | - | 4 | - | yes | yes | - |
| Nooksack Spring Yearling | - | yes | 4 | yes | yes | yes ${ }^{3}$ | - |
| Skagit Spring Fingerling | - | - | Ocean | - | yes | yes | - |
| Skagit Spring Yearling | - | - | Ocean | yes | yes | yes ${ }^{3}$ | - |
| Samish Fall Fingerling | yes | - | Ocean | yes | yes | yes ${ }^{3}$ | yes |
| Skagit Summer Fingerling | - | - | Ocean | - | yes | yes | - |
| Stillaguamish Summer Fingerling | - | yes | 4 | - | yes | - | - |
| Nisqually Fall Fingerling | - | - | 4 | - | yes | - | yes |
| University of Washington Accelerated | yes | 2 | 2 | - | yes | yes ${ }^{3}$ | yes |
| George Adams Fall Fingerling | yes | 2 | 2 | yes | yes | yes ${ }^{3}$ | yes |
| South Puget Sound Fall Fingerling | yes | yes | Ocean | yes | yes | yes ${ }^{3}$ | yes |
| South Puget Sound Fall Yearling | yes | 2 | 2 | yes | yes | yes ${ }^{3}$ | yes |
| Squaxin Pens Fall Yearling | - | 2 | 2 | yes | yes | yes ${ }^{3}$ | - |
| White River Spring Yearling | - | - | 4 | yes | yes | yes ${ }^{3}$ | yes |
| Elwha Fall Fingerling | - | - | 4 | yes | yes | - | - |
| Hoko Fall Fingerling | - | - | Ocean | yes | yes | yes | - |
| Sooes Fall Fingerling | - | - | Ocean | yes | yes | yes | - |
| Queets Fall Fingerling | - | yes | 4 | yes | yes | - | yes |
| Willamette Spring | yes | - | Ocean | yes | yes | yes | yes |
| Columbia Summers | yes | yes | Total | yes | yes | yes | - |
| Cowlitz Tule | yes | - | Ocean | yes | yes | yes | yes |
| Spring Creek Tule | yes | - | 2 | yes | yes | yes | - |
| Columbia Lower River Hatchery | yes | - | 2 | yes | yes | yes | yes |
| Upriver Bright | yes | yes | Total | yes | yes | yes | yes |
| Hanford Wild | - | - | Total | yes | yes | yes | - |
| Lyons Ferry | - | - | Total | yes | yes | yes | - |
| Lewis River Wild | yes | yes | Total | yes | yes | yes | yes |
| Salmon River | yes | yes | Ocean | yes | yes | yes | yes |

For stocks of hatchery origin and subject to terminal fisheries directed at harvesting surplus hatchery production, ocean fisheries do not include terminal net fisheries. Otherwise, total fishery includes terminal net fisheries.
2 Hatchery stock not used to represent naturally spawning stock.

3 Only hatchery rack recoveries are included in escapement.
4 Insufficient escapement data for exploitation rate analysis

### 1.5 MODEL OUTPUT

### 1.5.1 AABM Abundance Indices and Associated Catches

Beginning with the 1999 fishing season, the Agreement specified that the AABM fisheries are to be managed through the use of the preseason AIs, where specific allowable harvest corresponds to a given AI for each fishery. The preseason AIs that were used to establish harvest management targets are listed in Table 1.3. The 2009 preseason AI for the SEAK troll fishery is 1.33 , for the NBC troll fishery it is 1.10 , and for the WCVI troll fishery is 0.72 . This is the first year of the new annex to the Pacific Salmon treaty that adjusts for a drop in catches and associated harvest rates in Southeast Alaska, and West Coast of Vancouver island AABM fisheries in response to conservation concerns coastwide. The NBC AABM fishery remained at the same allowable catch and harvest rates as the previous annex. In-season predictors may also be used for in-season adjustments to the preseason AI's for the SEAK troll fishery. However, the in-season AI has not provided a reliable estimate of the postseason AI due to its reliance on the preseason AI in the calculations and has not been used for in-season management action since 2001.

The postseason AI is considered a more accurate estimate of the abundance index for the AABM fisheries, and is used to compute a final allowable catch for each fishery to evaluate overage or underage of the landed catch relative to the harvest objective. Postseason AIs for 1999-2008 are also listed in Table 1.3.

Table 1.3. Abundance indices for 1999 to 2009 for the SEAK, NBC, and WCVI troll fisheries.

|  | Calibration | SEAK |  |  | NBC |  | WCVI |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Preseason/ <br> Postseason | Preseason | Inseason | Postseason | Preseason | Postseason | Preseason | Postseason |
| 1999 | $9902 / 0107$ | 1.15 | 1.15 | 1.12 | 1.12 | 0.97 | 0.60 | 0.50 |
| 2000 | $0021 / 0107$ | 1.14 | 1.14 | 1.10 | 1.00 | 0.95 | 0.54 | 0.47 |
| 2001 | $0107 / 0206$ | 1.14 | 1.10 | 1.29 | 1.02 | 1.22 | 0.66 | 0.68 |
| 2002 | $0206 / 0308$ | 1.74 | 1.73 | 1.82 | 1.45 | 1.63 | 0.95 | 0.92 |
| 2003 | $0308 / 0404$ | 1.79 | 1.76 | 2.17 | 1.48 | 1.90 | 0.85 | 1.10 |
| 2004 | $0404 / 0506$ | 1.88 | 1.88 | 2.06 | 1.67 | 1.83 | 0.90 | 0.98 |
| 2005 | $0506 / 0604$ | 2.05 | 2.04 | 1.90 | 1.69 | 1.65 | 0.88 | 0.84 |
| 2006 | $0604 / 0705$ | 1.69 | 1.69 | 1.73 | 1.53 | 1.50 | 0.75 | 0.68 |
| 2007 | $0705 / 0805$ | 1.60 |  | 1.34 | 1.35 | 1.10 | 0.67 | 0.57 |
| 2008 | $0805 / 0907$ | 1.07 |  | 1.01 | 0.96 | 0.93 | 0.76 | 0.64 |
| 2009 | 0907 | 1.33 |  |  | 1.10 |  | 0.72 |  |

The Agreement specifies the allowable catch for various values of the AI for each fishery. Catches for 1999-2008 were from Table 1 in the Chinook Annex to the 1999 Agreement. In the 2009 Agreement, the relationship between the AI and the allowable catch changed for SEAK and WCVI; thus the allowable catches for 2009 were derived from Table 1 of the Chinook Annex to the 2009 Agreement. The allowable treaty catch by fishery and year based on pre- and
postseason AIs and the actual (observed) catches are given in Table 1.4 and are shown in Figures 1.1 through 1.6; the solid line represents the relationship between AIs and allowable catch under Table 1 of the annex.

Table 1.4. Observed catches and postseason allowable catches for 1999 to 2008, and preseason allowable catches for 1999 to 2009, for AABM fisheries.

|  | PST Treaty Allowable and Observed Catches |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK (T, N, S) ${ }^{1}$ |  |  | NBC (T, S) |  |  | WCVI (T, S) |  |  |
| Year | Pre- season Allowable Catch | Post- season Allowable Catch | Observed Catch | Pre- season Allowable Catch | Post- season Allowable Catch | Observed Catch | Pre- season Allowable Catch | Post- season Allowable Catch | Observed Catch |
| 1999 | 192,800 | 184,200 | 198,842 | 145,600 | 126,100 | 86,726 | 128,300 | 107,000 | 36,413 |
| 2000 | 189,900 | 178,500 | 186,493 | 130,000 | 123,500 | 31,900 | 115,500 | 86,200 | 101,438 |
| 2001 | 189,900 | 250,300 | 186,919 | 132,600 | 158,900 | 43,500 | 141,200 | 145,500 | 117,670 |
| 2002 | 356,500 | 371,900 | 357,133 | 192,700 | 237,800 | 150,137 | 203,200 | 196,800 | 165,036 |
| 2003 | 366,100 | 439,600 | 380,152 | 197,100 | 277,200 | 191,657 | 181,800 | 268,900 | 175,821 |
| 2004 | 383,500 | 418,300 | $\begin{gathered} 428,773 \\ 433,446^{2} \\ \hline \end{gathered}$ | 243,600 | 267,000 | 241,508 | 192,500 | 209,600 | 216,624 |
| 2005 | 416,400 | 387,400 | 391,507 | 246,600 | 240,700 | 243,606 | 188,200 | 179,700 | 202,662 |
| 2006 | 346,800 | 354,500 | 359,184 | 223,200 | 200,000 | 215,985 | 160,400 | 145,500 | 146,883 |
| 2007 | 329,400 | 259,200 | 321,537 | 178,000 | 143,000 | 144,235 | 143,300 | 121,900 | 139,150 |
| 2008 | 170,000 | 152,800 | 163,685 | 124,800 | 120,900 | 95,647 | 162,600 | 136,900 | 145,726 |
| 2009 | 218,800 |  |  | 143,000 |  |  | 107,800 |  |  |

${ }^{1}$ Nomenclature is T for troll, N for net, and S for sport.
${ }^{2}$ The lower value results from subtracting a terminal exclusion catch for the Stikine River in 2004, which is in dispute.


Figure 1.1. Postseason catches (open circles) versus postseason allowable catches (line) in the SEAK AABM fishery, 1999-2008.


Figure 1.2. Postseason catches (open circles) versus preseason allowable catches (line) in the SEAK AABM fishery, 1999-2008.


Figure 1.3. Postseason catches (open circles) versus postseason allowable catches (line) in Northern British Columbia troll and Queen Charlotte Islands recreational AABM fisheries, 1999-2008.


Figure 1.4.Postseason catches (open circles) versus preseason allowable catches (line) in Northern British Columbia troll and Queen Charlotte Islands recreational AABM fisheries, 19992008.


Figure 1.5. Postseason catches (open circles) versus postseason allowable catches (line) in West Coast Vancouver Island AABM fisheries, 1999-2008.


Figure 1.6. Postseason catches (open circles) versus preseason allowable catches (line) in West Coast Vancouver Island AABM fisheries, 1999-2008.

### 1.5.1.1 Model estimates of stock composition of AABM fisheries, 1979-2009

There are 30 model stocks (Appendix A). However, the majority of model catches in AABM fisheries are often composed of a few smaller set of major stocks (Figures 1.7 through 1.9). The relative abundance for each major stock is shown in those graphs from CLB 0907. In general, postseason AIs had a peak during the late 1980s ( $87,88, \& 89$ ) and another in 2003 and 2004.


Figure 1.7. Total abundance indices for the SEAK troll fishery with annual stock composition indicated by abundance indices for major model stocks from CLB 0907.

The major model stocks contributing to the SEAK AIs are: WCVI Natural and Hatchery, Upriver Brights, North/Central BC, and Oregon Coastal (Figure 1.7). The "other" category is primarily driven by Upper Georgia Strait, Columbia River Summers, and Mid Columbia River Brights.


Figure 1.8. Total abundance indices for the Northern BC troll fishery with annual stock composition indicated by abundance indices for major model stocks from CLB 0907.
The major model stock groups contributing to the NBC AABM fishery AIs are: WCVI Natural and Hatchery, Upriver Brights, Oregon Coastal, North/Central BC, and Washington Coastal Wild and Hatchery (Figure 1.8). The "other" category is primarily driven by Columbia River Summers, Mid Columbia River Brights and Willamette Springs.


Figure 1.9. Total abundance indices for the WCVI troll fishery with annual stock composition indicated by abundance indices for major model stocks from CLB 0907.

The major model stock groups in the WCVI fishery are: Fraser Late, Puget Sound, Upriver Brights, and Columbia River Tules (Figure 1.9). The "Other" category is comprised primarily of Columbia River Summers and Oregon Coastal fish.

### 1.5.2 Overages and Underages

Until an approach for full implementation of overage/underage provisions has been developed and accepted by the PSC, the Commissioners have instructed the CTC to track and report overages and underages relative to agreed-upon harvest objectives.

### 1.5.2.1 AABM Fisheries

Table 1.5 shows the differences between the postseason allowable catches and the observed catches in AABM fisheries for 1999-2008, and the cumulative differential for those years. All three AABM fisheries have cumulative underages. In SEAK, observed catches have been below final allowable catches for three of the nine years; the cumulative differential is $-1.1 \%$ or $-0.9 \%$. In NBC, observed catches have been below the final allowable catches in seven of the ten years; the cumulative differential is $-23.8 \%$. In WCVI, observed catches have been below allowable catches in five of the nine years; the cumulative differential is $-9.4 \%$.

Table 1.5. Deviations in numbers of Chinook salmon and percentages from catch targets derived from the first postseason AI (Table 1.2) for Pacific Salmon Treaty AABM fisheries in 1999 to 2008.

| Year | SEAK |  | NBC |  | WCVI |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Fish | Percent Difference | Number of Fish | Percent Difference | Number of Fish | Percent Difference |
| 1999 | +14,642 | +7.9\% | -39,374 | -31.2\% | -70,587 | -66.0\% |
| 2000 | +7,993 | +4.5\% | -91,600 | -74.2\% | +15,238 | +17.7\% |
| 2001 | -63,381 | -25.3\% | -115,400 | -72.6\% | -27,830 | -19.1\% |
| 2002 | -14,767 | -4.0\% | -87,663 | -36.9\% | -31,764 | -16.1\% |
| 2003 | -60,081 | -13.7\% | -85,543 | -30.9\% | -93,079 | -34.6\% |
| 2004 | $\begin{aligned} & +1,281 \\ & +3,366 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline-0.3 \% \\ & +0.8 \% \\ & \hline \end{aligned}$ | -25,492 | -9.5\% | +7,024 | +3.35\% |
| 2005 | 3,082 | +0.8\% | 2,906 | +1.2\% | +22,962 | +12.8\% |
| 2006 | 3,178 | +0.9\% | 15,985 | +8.0\% | +1,383 | +1.0\% |
| 2007 | 67,938 | +26.2\% | 1,235 | +0.9\% | +17,250 | +14.2\% |
| 2008 | +10,885 | +7.1\% | -25,253 | -20.9\% | +8,826 | +6.4\% |
| Cum. | $\begin{aligned} & -31,792 \\ & -27,145^{1} \end{aligned}$ | $\begin{aligned} & -1.1 \% \\ & -0.9 \%{ }^{1} \end{aligned}$ | -450,199 | -23.8\% | -150,577 | -9.4\% |

${ }^{1}$ The lower value results from subtracting a terminal exclusion catch for the Stikine River in 2004, which is in dispute.

### 1.5.2.2 ISBM Indices by Stock

For ISBM fisheries, the Agreement specifies that Canada and the United States will reduce base period exploitation rates on specified stocks by $36.5 \%$ and $40 \%$, equivalent to ISBM indices of $63.5 \%$ and $60 \%$ percent, respectively. This requirement is referred to as the 'general obligation' and does not apply to stocks that achieve their CTC agreed escapement goal. Estimated ISBM fishery indices are shown in Table 1.6 for Canadian fisheries and Table 1.7 for U.S. fisheries. Both tables present CWT-based indices for 2007, and Chinook model-based predicted indices for 2009. The agreement specifies that the indices for postseason assessment be assessed using the CWT-based estimates, 2007 is the most recent analysis available. CWT-based indices for 19992007 and model-based indices for 2001-2008 are presented in Appendix B.

### 1.5.2.2.1 CWT-based Indices in 2007

Canadian ISBM indices from the CWT-based estimates for 2007 were reduced more than required under the agreement for five of the six CWT indices which could be calculated, the exception being WCVI Falls (Table 1.6). Several inconsistencies were identified in the way these indices had been computed in the past, as noted in the footnotes 4-9 in Table 1.6. Most of them were inconsistencies between the way indices had been calculated by the model versus in the CWT exploitation rate assessment. However, in the case of Lower Georgia Strait, Nanaimo was dropped from the CWT-based index because of concern about the way the terminal fishery rates were estimated. In addition, Nanaimo and Cowichan stocks are no longer reported separately in
the model-based index because a way to split the two stocks in the base period has not yet been developed.

Four of the 16 U.S. ISBM indices for the CWT-based estimates for 2007 were reduced more than required. The other 12 U.S. CWT-based ISBM indices exceeded 0.60 . Ten of these stocks (Upriver Brights, Quillayute, Queets, Hoh, Lewis, Mid-Columbia Summers, Nehalem, Siletz, Siuslaw and Cowichan) have agreed escapement goals. Four of these stocks (Upriver Brights, Quillayute, Hoh, and Mid-Columbia Summers) met or exceeded their respective escapement goals, and thus are exempted from the general obligation. Figures 1.10 and 1.11 show the historical ISBM indices based on CWT recoveries for 1999-2007. It should be noted that this index is meaningless if escapement goals are met for these stocks. In the eventuality that a goal is not being met, then the general obligation needs to be achieved.


Figure 1.10. CWT-based ISBM indices for Canadian fisheries for 1999-2007. Value in brackets on stock axis is the 2007, percent of escapement goal.


Figure 1.11. CWT-based ISBM indices for U.S. fisheries for 1999-2007. Value in brackets on the stock axis is the 2007, percent of escapement goal.

### 1.5.2.2.2 Predicted ISBM Indices for 2009

Eight of the 19 ISBM indices for Canada, based on outputs from calibration 0907, are predicted to exceed the allowable value of 0.635 for Canadian ISBM fisheries in 2009 (Table 4). Seven of these eight stocks are Puget Sound Natural Summer/Fall stocks, and do not have CTC-accepted escapement goals. One of the eight stocks, the Lewis River, has a CTC escapement goal, but was below goal in 2008.

Eight of the 22 U.S. ISBM indices, based on calibration 0907, are predicted to be above the allowable limit of 0.60 for U.S. ISBM fisheries in 2009 (Table 5). Seven of the eight have CTC agreed escapement goals: Hoh, Quillayute, Upriver Brights, Mid-Columbia Summers, Nehalem, Siletz, and Siuslaw, with the exception being Lake Washington. Of the stocks with goals, four were at or above goal in 200, and three (the Oregon stocks) were below goal in 2008.

Table 1.6. Canadian 2007 ISBM indices based on CWT and the 2009 indices predicted from the PSC Chinook Model.

|  | Canadian ISBM Indices |  |  |
| :---: | :---: | :---: | :---: |
| Stock Group | Escapement Indicator Stock | CWT Indices for 2007 | Model Indices for 2009 |
| Lower Strait of Georgia | Cowichan Nanaimo | $\begin{aligned} & 0.043^{4} \\ & \text { NA }^{1,5} \end{aligned}$ | $0.495{ }^{6}$ |
| Fraser Late | Harrison River ${ }^{2}$ | $0.035{ }^{7}$ | 0.245 |
| North Puget Sound Natural | Nooksack | NA | 0.988 |
| Springs | Skagit | NA | 0.988 |
| Upper Strait of Georgia | Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish | 0.268 | 0.128 |
| Fraser Early (spring and summers) | Upper Fraser, Mid Fraser, Thompson | NA | 0.094 |
| West Coast Vancouver Island Falls | WCVI (Artlish, Burman, Kauok, Tahsis, Tashish, Marble) | $0.906{ }^{9}$ | 0.137 |
| Puget Sound Natural Summer/ Falls | Skagit | NA | 1.097 |
|  | Stillaguamish | 0.192 | 1.123 |
|  | Snohomish | NA | 1.098 |
|  | Lake Washington | NA | $0.918{ }^{9}$ |
|  | Green River | 0.076 | $0.919^{9}$ |
| North / Central B. C. | Yakoun, Nass, Skeena, Area 8 | NA | 0.224 |
| Washington Coastal Fall Naturals ${ }^{3}$ | Hoko, Grays Harbor, Queets ${ }^{2}$, Hoh ${ }^{2}$, Quillayute ${ }^{2}$ | NA | 0.328 |
| Columbia River Falls ${ }^{3}$ | Upriver Brights ${ }^{2}$ | NA | 0.517 |
|  | Deschutes | NA | 0.517 |
|  | Lewis ${ }^{2}$ | NA | 0.832 |
| Columbia R Summers ${ }^{3}$ | Mid-Columbia Summers ${ }^{2}$ | NA | 0.285 |
| Far North Migrating OR Coastal Falls ${ }^{3}$ | Nehalem ${ }^{2}$, Siletz ${ }^{2}$, Siuslaw ${ }^{2}$ | NA | 0.543 |

${ }^{1}$ Not available (NA) because of insufficient data (lack of stock specific tag codes, base period CWT recoveries, etc).
${ }^{2}$ Stock or stock group with a CTC agreed escapement goal.
${ }^{3}$ Stock group listed in Annex 4, Chapter 3, Attachment V.
${ }^{4}$ An inconsistency was discovered between the approaches used to calculate the model-based and CWT-based indices. The former included harvest rates for terminal sport while the latter did not. Terminal sport harvest rates are now included in the calculation of both indices. Further review is yet required to determine whether the base period terminal sport harvest rates obtained from analyses of Big Qualicum CWT recoveries adequately represent impacts that would have occurred on Cowichan Chinook.
${ }^{5}$ Several problems have been identified in the approach previously used to calculate the CWT-based indices for Nanaimo Chinook. Until these problems are resolved, indices for this stock will not be reported.
${ }^{6}$ Although model-based indices were previously calculated separately for Cowichan and Nanaimo, these did not adequately represent impacts on either LGS stock because the model-based data represent an aggregate of the two stocks and methods do not currently exist to correctly disaggregate these data for calculation of the ISBM values. Until such methods are developed, a single index value only will be reported representing the aggregate.
${ }^{7}$ The terminal sport harvest rates for Chilliwack Hatchery Chinook, the indicator stock, were removed from the calculation for the Harrison River naturals because sport harvest has been essentially zero on the natural population.
${ }^{8}$ An inconsistency was discovered between the approaches used to calculate the model-based and CWT-based indices. The former included harvest rates for terminal sport while the latter did not. Terminal sport harvest rates are now included in the calculation of both indices. A more extended review of the indices for WCVI Chinook will be carried out to determine whether they adequately represent impacts on the WCVI wild aggregate.
${ }^{9}$ For Canadian ISBM fisheries, Lake Washington and Green the same distribution and Index value are assumed.
${ }^{10}$ ISBM indices for WCVI naturals are based on information from Robertson Cr. hatchery stock, including terminal harvest rates. Prior to this report, harvest rates for terminal net and sport fisheries were treated as equal between the naturals and the hatchery indicator. However, this ignored the fact that since 1999, there has been no terminal net harvest of the vast majority of natural stocks on the WCVI. Consequently, indices for WCVI naturals were adjusted to reflect this zero terminal net harvest rate. In addition, some inconsistencies were noted in the treatment of terminal harvest rates between the model and CWT indices for this stock group. These inconsistencies were eliminated.

Table 1.7. U.S. 2007 ISBM indices based on CWT and the 2009 indices predicted from the PSC Chinook Model. Order of the stock groups correspond to Annex 4, Chapter 3, Attachment V of the PST 1999 Revised Annexes.

|  | U.S. ISBM Indices |  |  |
| :---: | :---: | :---: | :---: |
| Stock Group | Escapement Indicator Stock | CWT Indices for 2007 | Model Indices for 2009 |
| Washington Coastal Fall Naturals | Hoko | NA ${ }^{1}$ | 0.284 |
|  | Grays Harbor | 0.790 | 0.404 |
|  | Queets ${ }^{4}$ | 1.050 | 0.508 |
|  | Hoh ${ }^{4}$ | 2.230 | 0.981 |
|  | Quillayute ${ }^{4}$ | 1.470 | 0.881 |
| Columbia River Falls | Upriver Brights ${ }^{4}$ | 3.100 | 0.798 |
|  | Deschutes | 0.510 | 0.461 |
|  | Lewis ${ }^{4}$ | 0.790 | 0.470 |
| Puget Sound Natural Summer Falls | Skagit | NA | 0.292 |
|  | Stillaguamish | 0.120 | 0.446 |
|  | Snohomish | NA | 0.202 |
|  | Lake Washington | NA | 0.768 |
|  | Green R | 0.380 | 0.555 |
| Fraser Late | Harrison River ${ }^{4}$ | 0.080 | 0.410 |
| Columbia R Summers | Mid-Columbia Summers ${ }^{4}$ | 1.840 | 1.236 |
| Far North Migrating OR Coastal Falls | Nehalem ${ }^{4}$ | 2.010 | 2.003 |
|  | Siletz ${ }^{4}$ | 1.600 | 1.217 |
|  | Siuslaw ${ }^{4}$ | 1.000 | 1.632 |
| North Puget Sound Natural Springs | Nooksack | NA | 0.107 |
|  | Skagit | NA | 0.143 |
| Lower Strait of Georgia ${ }^{3}$ | Cowichan, | 1.550 | 0.367 |
|  | Nanaimo | 1.550 | 0.367 |
| Upper Strait of Georgia ${ }^{3}$ | Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish | NA | NC ${ }^{4}$ |
| Fraser Early (spring and summers) ${ }^{3}$ | Upper Fraser, Mid Fraser, Thompson | NA | 0.156 |
| West Coast Vancouver Island Falls ${ }^{3}$ | WCVI (Artlish, Burman, Kauok, Tahsis, Tashish, Marble) | NA | 0.146 |
| North / Central B. C. ${ }^{3}$ | Yakoun, Nass, Skeena, Area 8 | NA | NC ${ }^{4}$ |

${ }^{1}$ Not available (NA) because of insufficient data (lack of stock specific tag codes, base period CWT recoveries, etc).
${ }^{2} \mathrm{NC}$ means that the current model assumes the stock is not caught in U.S. ISBM fisheries.
${ }^{3}$ Stock group listed in Annex 4, Chapter 3, Attachment IV.
${ }^{4}$ Stock with a CTC agreed escapement goal.

### 1.6 MODEL CALIBRATION EVALUATION

Previous reports included evaluations of model performance for the most current model year, including comparisons of model estimates of catch and escapement/terminal run sizes to actual estimates of catch and escapement/terminal run size. This year, the model catches and stock escapements or terminal run sizes estimated by CLB 0907 were evaluated as were other aspects of the calibration. The calibration was distributed to the CTC membership for review and subsequently approved. Correlations between model and CWT fishery indices are normally presented. However, while these comparisons were made as part of the normal calibration checking process, the results are not presented in this report.

Fishery mortality indices generated by CLB 0907 can be compared to the CWT-based exploitation rate analysis. Model and CWT-based fishery mortality indices use the same equation, but the former are derived from model estimates of catch for all model stocks instead of CWT recovery data from specific exploitation rate indicator stocks. The CWT fishery mortality indices are considered the most accurate. Two types of fishery indices are presented; reported catch and total mortality. In general, the model results are closely associated with the CWT-based indices and changes in fishery exploitation rates as indicated in Figures 1.12 through 1.17. The SEAK fishery mortality index from the model closely follows the trend of the CWT derived estimate from 1979 through 1989 for both landed catch and total mortality (Figures 1.9 and 1.10). Between 1989 and 2000, the model estimate of both landed catch and total mortality indices is less than the CWT-derived estimate for most years but since 2001, the model estimate is noticeably higher. Since 1990, the model estimates also show less variability compared to the CWT-derived indices.


Figure 1.12. Estimated CWT (through 2007) and model landed catch fishery indices (through 2008) for the SEAK troll fishery.


Figure 1.13. Estimated CWT (through 2007) and model total mortality fishery indices (through 2008) for the SEAK troll fishery.

The model-derived fishery mortality indices for NBC generally follow the same trend as CWTderived indices (Figures 1.14 and 1.15). However, since 1991, the model-based estimates have exceeded the CWT-derived estimates in all but three years for both landed catch and total mortality indices. Since 2001, this difference has been noticeably large.


Figure 1.14. Estimated CWT (through 2007) and model landed catch fishery indices (through 2008) for the NBC troll fishery.


Figure 1.15. Estimated CWT (through 2007) and model total mortality fishery indices (through 2008) for the NBC troll fishery.

Since the base period, the model-derived landed catch fishery index estimates and trends for the WCVI troll fishery have been similar to those derived from CWTs. However, from 1987 through 1995, the model estimates are consistently greater than the CWT-based estimates (Figures 1.16
and 1.17). Starting in 2000, model and CWT estimates have diverged significantly for both landed catch and total mortality, with CWT indices being consistently higher than model indices.


Figure 1.16. Estimated CWT (through 2007) and model landed catch fishery indices (through 2008) for the WCVI troll fishery.


Figure 1.17. Estimated CWT (through 2007) and model total mortality fishery indices (through 2008) for the WCVI troll fishery.

### 1.7 AGENCY STOCK FORECAST USED IN THE MODEL.

A summary of model-produced and agency-produced forecasts from 1999-2009 is shown in Table 1.8. The relationship between the model stocks in Table 1.8 and exploitation rate indicator stocks and PST Annex stocks are shown in Appendix C. A major factor influencing how well the model can predict Chinook abundance in AABM fisheries is how well the model can predict the returns of Chinook (in terms of ocean escapement or spawning escapement) in the forecast year. During model calibration, agency forecasts are input to the model for all model stocks for which model forecasts are available. Thus, for model stocks with external forecasts, the variation between model forecasts and actual returns can be broken into two parts: 1) the ability of the model to match the input agency forecasts, and the ability of the agency forecasts to accurately predict the actual return of Chinook in the upcoming year. In Table 1.8, the column labeled 'Model Fcst/Agency Fcst' shows the percentage deviation of the model prediction from the agency forecast. The column labeled 'Agency Fcst/Postseason' shows the percentage deviation of the agency forecast from the actual return. The column labeled 'Model Fcst/Postseason' shows the percentage deviation of the model prediction of the return from the actual return. A value of $100 \%$ would indicate that the predicted and actual values were the same.

The model forecasts are similar to the agency forecasts on average. This result is strongly influenced by the incorporation of the agency forecasts into the model calibration procedure. The mean absolute percent error (MAPE) of all 'Model Fcst/Agency Fcst' is $12.2 \%$, and the average percent error is $0.9 \%$. For all agency forecasts, the MAPE is $31.1 \%$ and the average percent error is $-0.2 \%$ with respect to the postseason estimate. For model forecasts, the MAPE is $35.7 \%$ with respect to the postseason estimate, whereas, the average percent error is $-8.85 \%$.

The effect of the error in predicting terminal returns or escapement on the AABM abundance indices varies between fisheries and stocks. There is no clear directional bias of this error. For example, a small stock (small in ocean abundance terms) that is over or under predicted will generally not have a large effect on a fishery's abundance index. Errors in predicting a large stock may or may not affect a fishery's index, depending on the contribution of that stock to the fishery in question (see Appendix F for the model estimated stock composition of selected ocean fisheries). In addition, since the abundance index is an index, rather than an absolute measure of abundance, over or under prediction of a stock's terminal return or escapement would not affect the abundance index of a fishery if the bias in the prediction is consistent over all years in the index, including the base.

Table 1.8. Preseason forecasts and postseason estimates for PSC model stocks, 1999-2009.

| Stock | Year | Model Forecast | Agency Forecast | Postseason Return | Model Fcst/ Agency Fest | Agency Fcst/ <br> Postseason | Model Fcst/ Postseason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AKS ${ }^{1}$ <br> (Alaska SSE) | 1999 | 11,866 | $\mathrm{n} / \mathrm{a}$ | 12,274 | n/a | n/a | 97\% |
|  | 2000 | 18,967 | $\mathrm{n} / \mathrm{a}$ | 16,196 | n/a | $\mathrm{n} / \mathrm{a}$ | 117\% |
|  | 2001 | 22,130 | $\mathrm{n} / \mathrm{a}$ | 21,850 | n/a | $\mathrm{n} / \mathrm{a}$ | 101\% |
|  | 2002 | 15,650 | $\mathrm{n} / \mathrm{a}$ | 18,790 | n/a | n/a | 83\% |
|  | 2003 | 22,316 | $\mathrm{n} / \mathrm{a}$ | 14,676 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 152\% |
|  | 2004 | 11,880 | $\mathrm{n} / \mathrm{a}$ | 17,414 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 68\% |
|  | 2005 | 25,204 | $\mathrm{n} / \mathrm{a}$ | 16,102 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 157\% |
|  | 2006 | 17,988 | $\mathrm{n} / \mathrm{a}$ | 20,866 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 86\% |
|  | 2007 | 25,653 | $\mathrm{n} / \mathrm{a}$ | 15,095 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 170\% |
|  | 2008 | 14,626 | $\mathrm{n} / \mathrm{a}$ | 13,865 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 105\% |
|  | 2009 | 14,332 | n/a | - | n/a | $\mathrm{n} / \mathrm{a}$ | - |
|  | AVG. |  |  |  | n/a | $\mathrm{n} / \mathrm{a}$ | 114\% |
| NTH $^{2}$(North/Central BC) | 1999 | 149,593 | n/a | 154,294 | n/a | n/a | 97\% |
|  | 2000 | 159,818 | $\mathrm{n} / \mathrm{a}$ | 188,482 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 85\% |
|  | 2001 | 189,088 | $\mathrm{n} / \mathrm{a}$ | 223,236 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 85\% |
|  | 2002 | 228,073 | $\mathrm{n} / \mathrm{a}$ | 147,157 | n/a | $\mathrm{n} / \mathrm{a}$ | 155\% |
|  | 2003 | 161,995 | $\mathrm{n} / \mathrm{a}$ | 164,579 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 98\% |
|  | 2004 | 171,070 | $\mathrm{n} / \mathrm{a}$ | 152,207 | n/a | $\mathrm{n} / \mathrm{a}$ | 112\% |
|  | 2005 | 154,552 | $\mathrm{n} / \mathrm{a}$ | 128,753 | $\mathrm{n} / \mathrm{a}$ | n/a | 120\% |
|  | 2006 | 133,627 | $\mathrm{n} / \mathrm{a}$ | 151,812 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 88\% |
|  | 2007 | 156,017 | $\mathrm{n} / \mathrm{a}$ | 123,565 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 126\% |
|  | 2008 | 131,262 | $\mathrm{n} / \mathrm{a}$ | 105,806 | n/a | n/a | 124\% |
|  | 2009 | 113,024 | $\mathrm{n} / \mathrm{a}$ | - | n/a | n/a | - |
|  | AVG. |  |  |  | n/a | $\mathrm{n} / \mathrm{a}$ | 109\% |
| $\mathrm{RBH}+\mathrm{RBT}^{2}$ <br> (WCVI <br> Hatchery + Natural) | 1999 | 78,074 | 68,400 | 101,683 | 114\% | 67\% | 77\% |
|  | 2000 | 21,040 | 15,040 | 37,047 | 140\% | 41\% | 57\% |
|  | 2001 | 33,702 | 30,633 | 87,004 | 110\% | 35\% | 39\% |
|  | 2002 | 128,068 | 109,882 | 167,731 | 117\% | 66\% | 76\% |
|  | 2003 | 111,430 | 105,801 | 215,346 | 105\% | 49\% | 52\% |
|  | 2004 | 166,548 | 144,180 | 257,517 | 116\% | 56\% | 65\% |
|  | 2005 | 244,768 | 218,840 | 156,837 | 112\% | 140\% | 156\% |
|  | 2006 | 152,662 | 138,878 | 197,097 | 110\% | 70\% | 77\% |
|  | 2007 | 151,925 | 117,321 | 118,082 | 129\% | 99\% | 129\% |
|  | 2008 | 67,347 | 60,255 | 98,744 | 112\% | 61\% | 68\% |
|  | 2009 | 63,200 | 58,382 | - | 108\% | n/a | n/a |
|  | AVG. |  |  |  | 116\% | 68\% | 80\% |

Table 1.8. Continued.

| Stock | Year | Model Forecast | Agency Forecast | Postseason Return | Model Fcst/ Agency Fest | Agency Fcst/ <br> Postseason | Model Fest/ Postseason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GSQ $^{1}$(Upper Straitof Georgia) | 1999 | 16,472 | $\mathrm{n} / \mathrm{a}$ | 16,140 | $\mathrm{n} / \mathrm{a}$ | n/a | 102\% |
|  | 2000 | 19,452 | $\mathrm{n} / \mathrm{a}$ | 22,603 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 86\% |
|  | 2001 | 25,828 | $\mathrm{n} / \mathrm{a}$ | 30,219 | n/a | $\mathrm{n} / \mathrm{a}$ | 85\% |
|  | 2002 | 41,492 | $\mathrm{n} / \mathrm{a}$ | 30,675 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 135\% |
|  | 2003 | 36,882 | $\mathrm{n} / \mathrm{a}$ | 31,059 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 119\% |
|  | 2004 | 39,766 | n/a | 28,473 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 140\% |
|  | 2005 | 38,798 | $\mathrm{n} / \mathrm{a}$ | 28,675 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 135\% |
|  | 2006 | 39,577 | $\mathrm{n} / \mathrm{a}$ | 33,024 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 120\% |
|  | 2007 | 41,711 | $\mathrm{n} / \mathrm{a}$ | 22,674 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 184\% |
|  | 2008 | 30,065 | $\mathrm{n} / \mathrm{a}$ | 20,641 | $\mathrm{n} / \mathrm{a}$ | n/a | 146\% |
|  | 2009 | 26,131 | n/a | - | n/a | n/a | - |
|  | AVG. |  |  |  | $\mathrm{n} / \mathrm{a}$ | n/a | 125\% |
| GSH $^{2}$(Lower Straitof GeorgiaHatchery) | 1999 | 23,648 | n/a | 25,258 | n/a | n/a | 94\% |
|  | 2000 | 19,165 | n/a | 23,422 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 82\% |
|  | 2001 | 17,547 | $\mathrm{n} / \mathrm{a}$ | 34,775 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 50\% |
|  | 2002 | 25,051 | $\mathrm{n} / \mathrm{a}$ | 23,557 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 106\% |
|  | 2003 | 22,409 | n/a | 24,084 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 93\% |
|  | 2004 | 16,573 | $\mathrm{n} / \mathrm{a}$ | 22,269 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 74\% |
|  | 2005 | 21,046 | n/a | 28,226 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 75\% |
|  | 2006 | 22,937 | $\mathrm{n} / \mathrm{a}$ | 22,756 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 101\% |
|  | 2007 | 24,378 | $\mathrm{n} / \mathrm{a}$ | 13,155 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 185\% |
|  | 2008 | 11,765 | $\mathrm{n} / \mathrm{a}$ | 13,410 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 88\% |
|  | 2009 | 7,371 | $\mathrm{n} / \mathrm{a}$ | - | n/a | n/a | - |
|  | AVG. |  |  |  | n/a | n/a | 95\% |
| GST $^{1}$(Lower Straitof Georgia Natural) | 1999 | 14,737 | $\mathrm{n} / \mathrm{a}$ | 8,763 | n/a | $\mathrm{n} / \mathrm{a}$ | 168\% |
|  | 2000 | 11,094 | $\mathrm{n} / \mathrm{a}$ | 8,524 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 130\% |
|  | 2001 | 7,955 | n/a | 8,569 | $\mathrm{n} / \mathrm{a}$ | n/a | 93\% |
|  | 2002 | 8,833 | $\mathrm{n} / \mathrm{a}$ | 8,072 | $\mathrm{n} / \mathrm{a}$ | n/a | 109\% |
|  | 2003 | 8,088 | n/a | 5,360 | $\mathrm{n} / \mathrm{a}$ | n/a | 151\% |
|  | 2004 | 5,157 | n/a | 3,700 | $\mathrm{n} / \mathrm{a}$ | n/a | 139\% |
|  | 2005 | 4,459 | $\mathrm{n} / \mathrm{a}$ | 5,415 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 82\% |
|  | 2006 | 4,945 | $\mathrm{n} / \mathrm{a}$ | 7,469 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 66\% |
|  | 2007 | 7,782 | n/a | 4,778 | n/a | n/a | 163\% |
|  | 2008 | 6,823 | $\mathrm{n} / \mathrm{a}$ | 4,926 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 139\% |
|  | 2009 | 5,691 | n/a | - | n/a | n/a | - |
|  | AVG. |  |  |  | n/a | n/a | 124\% |

Table 1.8. Continued.

| Stock | Year | Model Forecast | Agency Forecast | Postseason Return | Model Fcst/ Agency Fest | Agency Fcst/ <br> Postseason | Model Fest/ Postseason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FRE $^{2}$(Fraser Early) | 1999 | 163,342 | n/a | 105,473 | n/a | $\mathrm{n} / \mathrm{a}$ | 155\% |
|  | 2000 | 118,058 | $\mathrm{n} / \mathrm{a}$ | 116,233 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 102\% |
|  | 2001 | 122,333 | n/a | 154,175 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 79\% |
|  | 2002 | 170,232 | n/a | 186,827 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 91\% |
|  | 2003 | 175,919 | $\mathrm{n} / \mathrm{a}$ | 188,183 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 93\% |
|  | 2004 | 185,450 | n/a | 141,029 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 131\% |
|  | 2005 | 151,591 | n/a | 134,641 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 113\% |
|  | 2006 | 186,279 | $\mathrm{n} / \mathrm{a}$ | 203,212 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 92\% |
|  | 2007 | 196,060 | $\mathrm{n} / \mathrm{a}$ | 110,884 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 177\% |
|  | 2008 | 128,347 | n/a | 148,284 | $\mathrm{n} / \mathrm{a}$ | n/a | 87\% |
|  | 2009 | 129,707 | n/a | - | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | - |
|  | AVG. |  |  |  | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 112\% |
| FRL $^{1}$(Fraser Late) | 1999 | 144,316 | 82,650 | 184,099 | 175\% | 45\% | 78\% |
|  | 2000 | 187,970 | 222,400 | 120,744 | 85\% | 184\% | 156\% |
|  | 2001 | 141,745 | 131,800 | 141,196 | 108\% | 93\% | 100\% |
|  | 2002 | 132,946 | 160,100 | 165,245 | 83\% | 97\% | 80\% |
|  | 2003 | 127,144 | 114,780 | 313,929 | 111\% | 37\% | 41\% |
|  | 2004 | 104,597 | 97,227 | 196,396 | 108\% | 50\% | 53\% |
|  | 2005 | 121,315 | 108,061 | 124,704 | 112\% | 87\% | 97\% |
|  | 2006 | 116,263 | 116,682 | 108,639 | 100\% | 107\% | 107\% |
|  | 2007 | 122,402 | 107,311 | 105,385 | 114\% | 102\% | 116\% |
|  | 2008 | 125,100 | 116,038 | 88,012 | 108\% | 132\% | 142\% |
|  | 2009 | 119,886 | 91,391 | - | 131\% | - | - |
|  | AVG. |  |  |  | 112\% | 93\% | 97\% |
| NKS <br> (Nooksack Spring) | 1999 | 1068 | n/a | 251 | n/a | $\mathrm{n} / \mathrm{a}$ | 425\% |
|  | 2000 | 834 | $\mathrm{n} / \mathrm{a}$ | 444 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 188\% |
|  | 2001 | 982 | n/a | 531 | n/a | $\mathrm{n} / \mathrm{a}$ | 185\% |
|  | 2002 | 1216 | $\mathrm{n} / \mathrm{a}$ | 513 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 237\% |
|  | 2003 | 1301 | $\mathrm{n} / \mathrm{a}$ | 414 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 314\% |
|  | 2004 | 1708 | $\mathrm{n} / \mathrm{a}$ | 448 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 381\% |
|  | 2005 | 1549 | n/a | 330 | n/a | $\mathrm{n} / \mathrm{a}$ | 469\% |
|  | 2006 | 485 | 677 | 630 | 72\% | 107\% | 77\% |
|  | 2007 | 582 | 575 | 334 | 101\% | 172\% | 174\% |
|  | 2008 | 371 | 378 | 351 | 98\% | 108\% | 106\% |
|  | 2009 | 336 | 315 | - | 107\% | - | - |
|  | AVG. |  |  |  | 94\% | 129\% | 256\% |

Table 1.8. Continued.

| Stock | Year | Model Forecast | Agency Forecast | Postseason Return | Model Fcst/ Agency Fcst | Agency Fcst/ <br> Postseason | Model Fest/ Postseason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NKF ${ }^{2}$ | 1999 | 27,472 | 27,000 | 41,186 | 102\% | 66\% | 67\% |
| (Nooksack/ | 2000 | 21,277 | 19,000 | 32,646 | 112\% | 58\% | 65\% |
| Samish Fall | 2001 | 33,974 | 36,450 | 64,685 | 93\% | 56\% | 53\% |
| Fingerling) | 2002 | 50,361 | 54,420 | 54,302 | 93\% | 100\% | 93\% |
|  | 2003 | 48,259 | 45,750 | 30,047 | 105\% | 152\% | 161\% |
|  | 2004 | 37,980 | 34,200 | 17,913 | 111\% | 191\% | 212\% |
|  | 2005 | 19,808 | 19,523 | 15,872 | 101\% | 123\% | 125\% |
|  | 2006 | 16,854 | 16,899 | 30,591 | 100\% | 55\% | 55\% |
|  | 2007 | 22,086 | 18,834 | 23,485 | 117\% | 80\% | 94\% |
|  | 2008 | 34,392 | 35,271 | 28,969 | 98\% | 122\% | 119\% |
|  | 2009 | 20,813 | 23,014 | - | 90\% | - | - |
|  | AVG. |  |  |  | 102\% | 100\% | 104\% |
| $\mathrm{SNO}^{2}$ | 1999 | 5,823 | 5,600 | 4,832 | 104\% | 116\% | 121\% |
| (Snohomish | 2000 | 5,997 | 6,000 | 6,116 | 100\% | 98\% | 98\% |
| Wild) | 2001 | 5,876 | 5,760 | 5,414 | 102\% | 106\% | 109\% |
|  | 2002 | 6,524 | 6,700 | 7,267 | 97\% | 92\% | 90\% |
|  | 2003 | 6,033 | 5,450 | 5,571 | 111\% | 98\% | 108\% |
|  | 2004 | 12,845 | 15,700 | 10,700 | 82\% | 147\% | 120\% |
|  | 2005 | 10,161 | n/a | 4,611 | $\mathrm{n} / \mathrm{a}$ | n/a | 220\% |
|  | 2006 | 7,831 | 8,729 | 8,438 | 90\% | 103\% | 93\% |
|  | 2007 | 11,153 | 12,289 | 4,005 | 91\% | 307\% | 278\% |
|  | 2008 | 6,103 | 6,541 | 8,490 | 93\% | 77\% | 72\% |
|  | 2009 | 7,558 | 8410 | - | 90\% | - | - |
|  | AVG. |  |  |  | 96\% | 127\% | 131\% |
| SKG ${ }^{2}$ | 1999 | 9,107 | 7,600 | 5,139 | 120\% | 148\% | 177\% |
| (Skagit | 2000 | 6,988 | 7,300 | 16,266 | 96\% | 45\% | 43\% |
| Summer/ | 2001 | 9,064 | 9,184 | 14,193 | 99\% | 65\% | 64\% |
| Fall Wild) | 2002 | 12,635 | 13,455 | 18,114 | 94\% | 74\% | 70\% |
|  | 2003 | 11,906 | 11,348 | 10,583 | 105\% | 107\% | 113\% |
|  | 2004 | 18,761 | 20,359 | 22,144 | 92\% | 92\% | 85\% |
|  | 2005 | 16,220 | 19,493 | 22,784 | 83\% | 86\% | 71\% |
|  | 2006 | 22,765 | 21,811 | 21,246 | 104\% | 103\% | 107\% |
|  | 2007 | 12,324 | 14,252 | 12,868 | 86\% | 111\% | 96\% |
|  | 2008 | 18,598 | 18,302 | 14,035 | 102\% | 130\% | 133\% |
|  | 2009 | 19,607 | 20,400 | - | 96\% | - | - |
|  | AVG. |  |  |  | 98\% | 96\% | 96\% |

Table 1.8. Continued.

| Stock | Year | Model Forecast Agency Forecast | Postseason Return | Model Fcst/ Agency Fest | Agency Fcst/ <br> Postseason | Model Fcst/ Postseason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{PSN}^{2}$ | 1999 | 28,800 28,400 | 31,014 | 101\% | 92\% | 93\% |
| (Puget Sound | 2000 | 15,364 10,000 | 19,048 | 154\% | 52\% | 81\% |
| Natural) | 2001 | 19,938 18,900 | 35,542 | 105\% | 53\% | 56\% |
|  | 2002 | 20,008 19,801 | 28,000 | 101\% | 71\% | 71\% |
|  | 2003 | 25,743 26,600 | 17,656 | 97\% | 151\% | 146\% |
|  | 2004 | 24,616 23,200 | 29,807 | 106\% | 78\% | 83\% |
|  | 2005 | 22,208 17,715 | 9,812 | 125\% | 181\% | 226\% |
|  | 2006 | 20,207 21,301 | 23,555 | 95\% | 90\% | 86\% |
|  | 2007 | 18,964 17,014 | 22,670 | 111\% | 75\% | 84\% |
|  | 2008 | 23,118 21,100 | 23,193 | 110\% | 91\% | 100\% |
|  | 2009 | 20,287 23,073 | - | 88\% | - | - |
|  | AVG. |  |  | 109\% | 93\% | 102\% |
| STL ${ }^{1}$ | 1999 | 1,332 n/a | 1,098 | n/a | n/a | 121\% |
| (Stillaguamish | 2000 | 1,370 1,500 | 1,645 | 91\% | 91\% | 83\% |
| Summer/Fall | 2001 | 1,328 1,360 | 1,386 | 98\% | 98\% | 96\% |
| Wild) | 2002 | 1,372 1,449 | 1,588 | 95\% | 91\% | 86\% |
|  | 2003 | 1,860 2,050 | 988 | 91\% | 207\% | 188\% |
|  | 2004 | 1,795 n/a | 1506 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 119\% |
|  | 2005 | 1,377 n/a | 963 | n/a | $\mathrm{n} / \mathrm{a}$ | 143\% |
|  | 2006 | 1,116 1,169 | 1,254 | 95\% | 93\% | 89\% |
|  | 2007 | 1,424 1,510 | 785 | 94\% | 192\% | 181\% |
|  | 2008 | $689 \quad 637$ | 1,800 | 108\% | 35\% | 38\% |
|  | 2009 | 1,268 1,086 | - | 117\% | - | - |
|  | AVG. |  |  | 99\% | 116\% | 115\% |
| PSF+PSY ${ }^{2}$ | 1999 | 66,876 69,285 | 116,204 | 97\% | 60\% | 58\% |
| (Puget Sound | 2000 | 67,306 69,800 | 67,540 | 96\% | 103\% | 100\% |
| Fingerling + | 2001 | 102,899 105,955 | 112,371 | 97\% | 94\% | 92\% |
| Yearling) | 2002 | 114,889 124,608 | 103,805 | 92\% | 120\% | 111\% |
|  | 2003 | 114,275 133,850 | 74,335 | 85\% | 180\% | 154\% |
|  | 2004 | 127,902 132,300 | 87548 | 97\% | 151\% | 146\% |
|  | 2005 | 104,084 110,542 | 98348 | 94\% | 112\% | 106\% |
|  | 2006 | 107,452 113,486 | 118036 | 95\% | 96\% | 91\% |
|  | 2007 | 127,115 135,714 | 178342 | 94\% | 76\% | 71\% |
|  | 2008 | 166,071 159,200 | 137925 | 104\% | 115\% | 120\% |
|  | 2009 | 110,373 133,187 | - | 83\% | - | - |
|  | AVG. |  |  | 94\% | 111\% | 105\% |

Table 1.8. Continued.
$\left.\begin{array}{|c|c|ccc|ccc|}\hline \text { Stock } & \text { Year } & \text { Model Forecast Agency Forecast } & \begin{array}{c}\text { Postseason } \\ \text { Return }\end{array} & \begin{array}{c}\text { Model Fcst/ Agency } \\ \text { Fcst }\end{array} & \begin{array}{c}\text { Agency Fcst/ } \\ \text { Postseason }\end{array} \\ \hline \text { WCN }{ }^{2} & 1999 & 42,129 & 43,780 & 24,951 & 96 \% & 175 \% \\ \text { (Washington } & 2000 & 34,741 & \mathrm{n} / \mathrm{a} & 22,978 & \mathrm{n} / \mathrm{a} & \mathrm{n} & 169 \% \\ \text { Postseason }\end{array}\right]$

Table 1.8. Continued.

| Stock | Year | Model Forecast Agency Forecast | Postseason Return | Model Fcst/ Agency Fest | Agency Fcst/ <br> Postseason | Model Fcst/ Postseason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WSH ${ }^{2}$ | 1999 | 46,187 49,875 | 55,801 | 93\% | 89\% | 83\% |
| (Willamette | 2000 | 57,202 61,211 | 57,592 | 93\% | 106\% | 99\% |
| Spring) | 2001 | 59,207 59,600 | 82,017 | 99\% | 73\% | 72\% |
|  | 2002 | 73,151 77,434 | 127,200 | 94\% | 61\% | 58\% |
|  | 2003 | 108,530 112,521 | 129,700 | 96\% | 87\% | 84\% |
|  | 2004 | 113,708 112,701 | 112,701 | 101\% | 100\% | 101\% |
|  | 2005 | 105,111 122,280 | 59,500 | 86\% | 206\% | 177\% |
|  | 2006 | 48,879 52,388 | 52,388 | 93\% | 100\% | 93\% |
|  | 2007 | 44,542 61,071 | 44,509 | 73\% | 137\% | 100\% |
|  | 2008 | 20,185 40,851 | 40,050 | 49\% | 102\% | 50\% |
|  | 2009 | 41,793 41,205 | - | 101\% | - | - |
|  | AVG. |  |  | 89\% | 106\% | 92\% |
| SUM ${ }^{2}$ | 1999 | 21,651 20,900 | 22,347 | 104\% | 94\% | 97\% |
| (Columbia | 2000 | 27,214 28,038 | 23,169 | 97\% | 121\% | 117\% |
| River Summer) | 2001 | 27,029 24,500 | 54,935 | 110\% | 45\% | 49\% |
|  | 2002 | 70,290 77,700 | 92,820 | 90\% | 84\% | 76\% |
|  | 2003 | 97,280 87,600 | 83,120 | 111\% | 105\% | 117\% |
|  | 2004 | 83,246 78,589 | 65,446 | 106\% | 120\% | 127\% |
|  | 2005 | 66,190 62,400 | 60,060 | 106\% | 104\% | 110\% |
|  | 2006 | 75,893 78,512 | 78,196 | 97\% | 100\% | 97\% |
|  | 2007 | 56,948 45,555 | 37,200 | 125\% | 122\% | 153\% |
|  | 2008 | 50,171 52,000 | 55,500 | 96\% | 94\% | 90\% |
|  | 2009 | 59,367 70,700 | - | 84\% | - | - |
|  | AVG. |  |  | 102\% | 99\% | 103\% |
| $\mathrm{BON}+\mathrm{CWF}^{2}$ | 1999 | 26,651 34,800 | 39,881 | 77\% | 87\% | 67\% |
| (Bonneville + | 2000 | 17,095 23,700 | 26,971 | 72\% | 88\% | 63\% |
| Cowlitz | 2001 | 28,732 32,200 | 94,240 | 89\% | 34\% | 30\% |
| Hatcheries) | 2002 | 100,401 137,600 | 156,411 | 73\% | 88\% | 64\% |
|  | 2003 | 100,196 115,900 | 154,960 | 86\% | 75\% | 65\% |
|  | 2004 | 64,696 77,100 | 108,308 | 84\% | 71\% | 60\% |
|  | 2005 | 65,971 74,100 | 73,861 | 89\% | 100\% | 89\% |
|  | 2006 | 49,302 55,800 | 58,317 | 88\% | 96\% | 85\% |
|  | 2007 | 49,219 54,900 | 32,689 | 90\% | 168\% | 151\% |
|  | 2008 | 58,557 59,000 | 60,268 | 99\% | 98\% | 97\% |
|  | 2009 | 66,704 88,800 | - | 75\% | - | - |
|  | AVG. |  |  | 84\% | 91\% | 77\% |

Table 1.8. Continued.

| Stock | Year | Model Forecast Agency Forecast | Postseason Return | Model Fcst/ Agency Fest | Agency Fcst/ <br> Postseason | Model Fest/ Postseason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SPR ${ }^{2}$ | 1999 | 62,831 65,800 | 50,189 | 95\% | 131\% | 125\% |
| (Spring Creek | 2000 | 17,335 21,900 | 20,528 | 79\% | 107\% | 84\% |
| Hatchery) | 2001 | 56,089 56,600 | 124,954 | 99\% | 45\% | 45\% |
|  | 2002 | 153,070 144,400 | 160,836 | 106\% | 90\% | 95\% |
|  | 2003 | 89,116 96,900 | 180,592 | 92\% | 54\% | 49\% |
|  | 2004 | 124,820 138,000 | 175,245 | 90\% | 79\% | 71\% |
|  | 2005 | 92,021 114,100 | 93,145 | 81\% | 122\% | 99\% |
|  | 2006 | 43,624 50,000 | 27,918 | 87\% | 179\% | 156\% |
|  | 2007 | 19,421 21,800 | 14,583 | 89\% | 149\% | 133\% |
|  | 2008 | 87,109 87,200 | 79,433 | 100\% | 110\% | 110\% |
|  | 2009 | 32,585 59,300 | - | 55\% | - | - |
|  | AVG. |  |  | 89\% | 107\% | 97\% |
| URB ${ }^{2}$ | 1999 | 173,866 147,500 | 165,889 | 118\% | 89\% | 105\% |
| (Columbia | 2000 | 212,317 171,100 | 156,553 | 124\% | 109\% | 136\% |
| Upriver | 2001 | 150,973 127,200 | 232,491 | 119\% | 55\% | 65\% |
| Bright) | 2002 | 249,721 281,000 | 276,948 | 89\% | 101\% | 90\% |
|  | 2003 | 246,890 280,400 | 373,191 | 88\% | 75\% | 66\% |
|  | 2004 | 246,943 292,200 | 362,804 | 85\% | 81\% | 68\% |
|  | 2005 | 318,535 352,200 | 268,744 | 90\% | 131\% | 119\% |
|  | 2006 | 231,646 253,900 | 227,535 | 91\% | 112\% | 102\% |
|  | 2007 | 168,594 182,400 | 114,491 | 92\% | 159\% | 147\% |
|  | 2008 | 151,839 162,500 | 196,881 | 93\% | 83\% | 77\% |
|  | 2009 | 226,413 259,900 | - | 87\% | - | - |
|  | AVG. |  |  | 98\% | 99\% | 97\% |
| LYF ${ }^{1}$ | 1999 | 542 n/a | 905 | n/a | n/a | 60\% |
| (Snake River | 2000 | 1,243 n/a | 1,148 | n/a | n/a | 108\% |
| Wild) | 2001 | 733 | 5,163 | 100\% | 14\% | 14\% |
|  | 2002 | 2,066 n/a | 2,116 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 98\% |
|  | 2003 | 2,493 2,185 | 3,856 | 114\% | 57\% | 65\% |
|  | 2004 | 4,323 3,725 | 4,443 | 116\% | 84\% | 97\% |
|  | 2005 | 4,453 4,000 | 2,602 | 111\% | 154\% | 171\% |
|  | 2006 | 8,310 3,500 | 2,743 | 237\% | 128\% | 303\% |
|  | 2007 | 3,128 2,700 | 2,016 | 116\% | 134\% | 155\% |
|  | 2008 | 2,718 2,534 | 1,598 | 107\% | 159\% | 170\% |
|  | 2009 | 5,742 6,952 | - | 83\% | - | - |
|  | AVG. |  |  | 123\% | 104\% | 124\% |

Table 1.8. Continued.

| Stock | Year | Model Forecast | Agency Forecast | Postseason Return | Model Fest/ Agency Fest | Agency Fcst/ <br> Postseason | Model Fcst/ Postseason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MCB ${ }^{2}$ | 1999 | 37,997 | 38,300 | 50,800 | -1\% | -25\% | -25\% |
| (Mid-Columbia | 2000 | 53,460 | 50,600 | 37,200 | 6\% | 36\% | 44\% |
| Bright) | 2001 | 45,055 | 43,500 | 76,600 | 4\% | -43\% | -41\% |
|  | 2002 | 102,085 | 96,200 | 108,400 | 6\% | -11\% | -6\% |
|  | 2003 | 126,698 | 104,800 | 150,300 | 21\% | -30\% | -16\% |
|  | 2004 | 94,895 | 90,400 | 122,600 | 5\% | -26\% | -23\% |
|  | 2005 | 93,837 | 89,400 | 97,900 | 5\% | -9\% | -4\% |
|  | 2006 | 90,881 | 88,300 | 80,471 | 3\% | 10\% | 13\% |
|  | 2007 | 77,470 | 68,000 | 47,106 | 14\% | 44\% | 64\% |
|  | 2008 | 59,481 | 45,000 | 75,489 | 32\% | 60\% | 79\% |
|  | 2009 | 87,172 | 94,400 | - | 92\% | - | - |
|  | AVG. |  |  |  | 17\% | 1\% | 8\% |
| LRW ${ }^{2}$ | 1999 | 3,072 | 2,600 | 3,349 | 118\% | 78\% | 92\% |
| (Lewis River | 2000 | 4,053 | 3,500 | 10,234 | 116\% | 34\% | 40\% |
| Wild) | 2001 | 16,574 | 16,700 | 15,721 | 99\% | 106\% | 105\% |
|  | 2002 | 18,910 | 18,200 | 24,948 | 104\% | 73\% | 76\% |
|  | 2003 | 25,820 | 24,600 | 26,021 | 105\% | 95\% | 99\% |
|  | 2004 | 24,590 | 24,100 | 22,327 | 102\% | 108\% | 110\% |
|  | 2005 | 21,937 | 20,200 | 16,767 | 109\% | 120\% | 131\% |
|  | 2006 | 19,826 | 16,600 | 17,896 | 119\% | 93\% | 111\% |
|  | 2007 | 10,306 | 10,100 | 4,276 | 102\% | 236\% | 241\% |
|  | 2008 | 4,479 | 3,800 | 7,120 | 118\% | 53\% | 63\% |
|  | 2009 | 8,478 | 8,500 | - | 100\% | - | - |
|  | AVG. |  |  |  | 108\% | 100\% | 107\% |
| ORC ${ }^{1}$ | 1999 | 65,338 | 72,084 | 84,293 | 91\% | 86\% | 78\% |
| (Oregon | 2000 | 61,457 | 63,259 | 69,074 | 97\% | 92\% | 89\% |
| Coastal) | 2001 | 58,062 | 66,412 | 132,732 | 87\% | 50\% | 44\% |
|  | 2002 | 73,055 | 73,914 | 176,929 | 99\% | 42\% | 41\% |
|  | 2003 | 101,310 | 85,483 | 174,091 | 119\% | 49\% | 58\% |
|  | 2004 | 135,716 | 131,904 | 129,579 | 103\% | 102\% | 105\% |
|  | 2005 | 133,886 | 167,213 | 167,211 | 80\% | 100\% | 80\% |
|  | 2006 | 126,393 | 136,373 | 112,797 | 93\% | 121\% | 112\% |
|  | 2007 | 108,338 | 131,195 | 47,011 | 83\% | 279\% | 230\% |
|  | 2008 | 53,417 | 70,101 | 39,615 | 76\% | 177\% | 135\% |
|  | 2009 | 32,253 | 48,072 | - | 67\% | - | - |
|  | AVG. |  |  |  | 90\% | 110\% | 97\% |

${ }^{1}=$ Escapement
${ }^{2}=$ Terminal Run
**Note that the model forecasts are the forecasts from separate yearly calibrations, not a time series of values from the most recent calibration**

### 1.8 EVALUATION OF MARK-SELECTIVE FISHERIES.

Chinook salmon released from Puget Sound hatcheries and spring Columbia River Chinook have been mass-marked since brood 1998, and mark selective fisheries (MSFs) have been in place in Puget Sound and on Columbia River spring Chinook since 2003 and on Columbia River spring Chinook since 2001 (Table 1.9). Mass marking of fall Chinook released from Columbia River facilities started with brood year 2005 and for brood year 2009 most of the Chinook production intended for harvest released in Washington and Oregon has been mass marked (SFEC, 2009). In 2009 MSFs for fall Chinook were proposed in Washington ocean fishery areas 1 and 2 (Table 1.9), although these were not implemented in 2009. In addition, a Canadian sport fishery on mass marked Chinook occurred in the Strait of Juan de Fuca and a second was proposed off of WCVI in 2009, but not implemented.

### 1.8.1 Catch in MSFs

MSFs have been in place in Puget Sound in Washington Areas 5 and 6, part of Puget Sound north sport (PSN Sp), since 2003, during the summer months and in 2005 a winter MSF started in Washington Areas 8.1 and 8.2 (Puget Sound other sport, PSO S). In 2007, additional MSFs were implemented in Washington Areas 9, 10 and 11 (PSO S) in the summer months and in Areas 7 (PSN S), 9 and 10 (PSO S) in the winter months. Total landed catch in MSFs in marine sport fisheries remained fairly constant from 2003 to 2005 , around 3,000 to 4,000 , but then increased in 2007 to about 25,000 (Table 1.10), while landed catch in non-selective fisheries ranged from 20,000 to 26,000 over the same period (Figure 1.18). MSFs have been implemented in freshwater areas (TERM S) since 2003 (Table 1.11), with total estimated MSF catch ranging from 1,000 to 7,000 . The percent of total MSF catch in the three PSC sport fisheries in Puget Sound (Figure 1.18) is at about $50 \%$ in PSN and increased from 0 to $50 \%$ in PSO. In the terminal area sport fishery (TERM S) the percent MSF has increased from 19 to $44 \%$ (Figure 1.18) from 2003 to 2007 (Table 1.10).

Chinook MSFs have been in place in the Columbia and Willamette River since 2001. Most of the catch from MSFs are spring Chinook from the Willamette River, and lower Columbia River fisheries directed at upper Columbia and Snake River mass marked spring Chinook. Total landed catch in MSFs have declined in recent years due to low spring Chinook runs in the Willamette (Figure 1-2) and lower upper Columbia spring Chinook runs relative to the period between 2001-2004.

### 1.8.2 Size of MSFs

The size of a MSF relative to the total exploitation of a stock can be measured using tagged and marked PSC indicator stocks (Table 1.12), or as the percentage of total landed catch in net, sport and troll fisheries that is landed in MSFs. In Puget Sound the percentage of the total landed catch that occurs in MSFs increases over this period for stocks in South Puget Sound, particularly in 2007, when the MSFs expanded to most areas in Puget Sound. The Skagit spring tag groups (fingerlings and yearlings) also show a high percentage of catch in MSFs, due to the
terminal freshwater MSF targeting these fish, where $80-98 \%$ of the fish sampled in the Skagit MSF were tagged and marked fish (Table 1.11).

In the Columbia River, all of the tributary (terminal) sport fisheries for spring Chinook, including the Willamette, are MSF. There are also MSFs for steelhead and coho, resulting in summer and fall Chinook reported as landed in a MSF. Nevertheless, some of the tagged and marked groups show a high percentage taken in MSFs because of the terminal sport fishery (Table 1.12).

Table 1.9. Mark selective fisheries occurring from 2003-2009 ( $\sqrt{ }$ ) and proposed for 2009 that did not take place (P). See TSFEC (2009) for more detailed information on MSF proposals and fisheries.

| Fishery and Location | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sport, Strait of Juan de Fuca, BC, selected subareas Sport, WCVI selected subareas, mainly inside |  |  |  |  |  | $\checkmark$ | $\begin{aligned} & \sqrt{ } \\ & \mathbf{P} \\ & \hline \end{aligned}$ |
| Sport summer, WA area 5\&6 <br> Sport summer, WA area $9,10,11,13$ <br> Sport winter, WA area 5-13, (actual areas vary with year) | $\checkmark$ | $\checkmark$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{2} \\ & \sqrt{2} \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{2} \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \end{aligned}$ |
| Sport, Nooksack River <br> Sport, Skykomish River <br> Sport, Carbon \& Puyallup River <br> Sport, Upper Skagit River <br> Sport, Nisqually River, Jul-Jan <br> Sport, Skokomish Chinook | $\begin{aligned} & \sqrt{ } \\ & \sqrt{2} \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{2} \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{2} \\ & \sqrt{2} \\ & \sqrt{2} \end{aligned}$ | $\sqrt{ }$ $\sqrt{ }$ $\sqrt{ }$ $\sqrt{ }$ $\sqrt{ }$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{2} \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{2} \\ & \sqrt{2} \\ & \sqrt{ } \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{2} \\ & \sqrt{ } \\ & \sqrt{2} \\ & \sqrt{2} \\ & \mathbf{P} \end{aligned}$ |
| Sport, WA Coast Chinook, Areas 1-2 <br> Troll, WA Coast Chinook Areas 1-2 |  |  |  |  |  |  | $\begin{aligned} & \hline \mathbf{P} \\ & \mathbf{P} \\ & \hline \end{aligned}$ |
| Sport, Columbia River (on summer run) <br> Sport, Lower Columbia River (on spring run) <br> Commercial, Lower Columbia River (on spring run with tangle net) <br> Commercial, Lower Columbia River (on spring run with large net) <br> Sport, Col. R. fall Chinook <br> Sport, Yakima River (on spring run) <br> Sport, Lower Snake River fall Chinook <br> Sport, Willamette River on spring run) <br> Sport, Oregon coast | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{ } \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{2} \\ & \sqrt{2} \end{aligned}$ | $\begin{aligned} & \sqrt{ } \\ & \sqrt{2} \\ & \sqrt{2} \\ & \sqrt{2} \\ & \sqrt{ } \\ & \sqrt{ } \\ & \sqrt{2} \end{aligned}$ |  |



Figure 1.18. Estimated total catch in landed number of Chinook in Selective and NonSelective fisheries (left y-axis) and \% of catch in MSFs (right y-axis) in Puget Sound for catch years 2003-2007. Bars show the number of fish landed in fisheries and line shows the percentage of the total catch that was landed in mark selective fisheries (MSFs).


Figure 1.19. Estimated total catch in Columbia River mark selective and non selective sport fisheries for catch years 2003-2007. Total catch includes spring, summer and fall Chinook. Mark selective fisheries include unmarked steelhead non-retention and unmarked coho non-retention fisheries.

Table 1.10. Retained or landed catch and total encounters (landed+released) and total mortalities (landed+release mortalities) by size and mark category in MSFs for Puget Sound, and Juan de Fuca marine sport fisheries (PSN, PSO, JDF) for 2003-2007.

| $\frac{\overrightarrow{0}}{\frac{2}{2}}$ |  | ジँ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PSN | Area 5/6 | 2003 | Jul-Aug | 3,417 | 76 | 4,850 | 8,627 | 36\% | 3,192 | 680 | 512 | 905 |
|  | Area 5/6 | 2004 | Jul-Aug | 3,571 | 5 | 4,598 | 6,365 | 42\% | 3,375 | 636 | 402 | 430 |
|  | Area 5/6 | 2005 | Jul-Aug | 2,025 | 53 | 3,125 | 3,237 | 49\% | 1,924 | 311 | 320 | 283 |
|  | Area 5/6 | 2006 | Jul-Aug | 3,641 | 25 | 4,494 | 5,095 | 47\% | 3,443 | 482 | 368 | 400 |
|  | Area 5/6 | 2007 | Jul-Aug | 3,972 | 124 | 5,235 | 3,839 | 58\% | 3,684 | 433 | 540 | 300 |
|  | Area 5 | 2008 | Jul | 2,819 | 0 | 3,298 | 2,199 | 60\% | 2,836 | 280 | 58 | 66 |
|  | Area 7 | 2008 | Feb | 1,300 | 2 | 1,767 | 1,199 | 60\% | 1,330 | 158 | 73 | 31 |
| PSO | Area 8-1, 2 | 2005-06 | Oct-Apr | 1,112 | 40 | 3,262 | 2,010 | 62\% | 1,038 | 145 | 504 | 253 |
|  | Area 8-1, 2 | 2006-07 | Oct-Apr | 1,177 | 33 | 11,781 | 5,853 | 67\% | 1,059 | 61 | 2,239 | 1,123 |
|  | Area 8-1, 2 | 2007-08 | Nov-Apr | 1,543 | 23 | 4,040 | 1,388 | 74\% | 1,574 | 96 | 458 | 176 |
|  | Area 9 | 2007 | Jul | 5,239 | 32 | 6,757 | 1,667 | 80\% | 5,081 | 191 | 462 | 110 |
|  | Area 9 | 2008 | Jan-Apr | 1,405 | 3 | 2,880 | 682 | 19\% | 1,362 | 49 | 330 | 75 |
|  | Area 9 | 2008 | Jul-Aug | 4,045 | 3 | 7,854 | 5,436 | 59\% | 4,124 | 244 | 653 | 765 |
|  | Area 10 | 2007 | Jul | 1,539 | 38 | 4,301 | 1,044 | 80\% | 1,451 | 95 | 640 | 123 |
|  | Area 10 | 2007-08 | Dec-Jan | 635 | 21 | 2,575 | 545 | 83\% | 551 | 45 | 468 | 72 |
|  | Area 10 | 2008 | Jul-Aug | 1,031 | 3 | 1,348 | 898 | 60\% | 1,046 | 79 | 42 | 77 |
|  | Area 11 | 2007 | Jun-Sep | 10,546 | 95 | 17,534 | 4,779 | 79\% | 10,208 | 468 | 1,736 | 433 |
|  | Area 11 | 2008 | Jun-Sep | 7,377 | 23 | 10,434 | 2,269 | 82\% | 7,440 | 318 | 494 | 54 |
| Canada JDF | Area 19, 20 | 2008 | Apr-May | 122 | 51 | $122^{1}$ | $68^{1}$ | 64\% | $122^{2}$ | $64^{2}$ | $5^{2}$ | $3^{2}$ |

${ }^{1}$ Legal sized Chinook
${ }^{2}$ IM and drop-off rates same as used in CTC Catch \& Escapement report: drop-off (6.9) and IM release rate (12.3).
Table 1.11. MSFs in Puget Sound TERM Sport for Chinook salmon 2003-2008. Catches of marked fish are reported where available for the calendar year; either from PSMFC catch sample database (a), preliminary catch record card estimates (b) or creel survey estimates (c). Fishery and years that were sampled are indicated by an (s)

| Fishery, Location and Period | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Sport, Nooksack River, Sep-Dec |  | $5^{\mathrm{b}}$ | $186^{\mathrm{b}}$ | $119^{\mathrm{b}}$ | $162^{\mathrm{a}}$ |
| Sport, Skykomish River, Jun-Jul | $177^{\mathrm{b}}$ | $85^{\mathrm{b}}$ | $76^{\mathrm{b}}$ | $78^{\mathrm{b}}$ | $637^{\mathrm{a}}$ |
| Sport, Carbon \& Puyallup River, Aug-Dec | $1,287^{\mathrm{a}, \mathrm{s}}$ | $1,019^{\mathrm{a}, \mathrm{s}}$ | $1,590^{\mathrm{a}, \mathrm{s}}$ | $1,736^{\mathrm{a}, \mathrm{s}}$ | $2,525^{\mathrm{a}, \mathrm{s}}$ |
| Sport, Upper Skagit and Cascade River, Jun-Jul |  |  | $173^{\mathrm{a}, \mathrm{s}}$ | $458^{\mathrm{a}, \mathrm{s}}$ | $724^{\mathrm{a}, \mathrm{s}}$ |
| Sport, Nisqually River, Jul-Jan |  |  | $1,179^{\mathrm{b}}$ | $3,711^{\mathrm{b}}$ | $3,080^{\mathrm{a}}$ |

Table 1.12. Estimated landed catch of tagged and marked PSC Chinook Indicator Stocks in BC, Washington and Oregon in all net, troll and sport fisheries for catch years 20032007 and \% of total tagged and marked catch that was landed in MSFs.

|  |  | 2003 |  | 2004 |  | 2005 |  | 2006 |  | 2007 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Region | Stock | Total | \%MSF | Total | \%MSF | Total | \%MSF | Total | \%MSF | Total | \%MSF |
| NBC | Big Qualicum | 93 | 0.0\% | 130 | 0.0\% | 205 | 0.0\% | 134 | 0.0\% | 246 | 0.0\% |
|  | Kitsumkalum | 175 | 0.0\% | 235 | 0.0\% | 142 | 0.0\% | 112 | 0.0\% | 167 | 0.0\% |
| WCVI | Robertson Creek | 1,167 | 0.0\% | 2,680 | 0.0\% | 2,300 | 0.0\% | 1,752 | 0.0\% | 1,712 | 0.0\% |
| GST | Cowichan | 234 | 1.1\% | 274 | 0.6\% | 193 | 1.9\% | 174 | 0.0\% | 49 | 0.0\% |
|  | Puntledge | 29 | 0.0\% | 26 | 0.0\% | 71 | 0.0\% | 66 | 0.0\% | 56 | 0.0\% |
|  | Quinsam | 207 | 0.0\% | 331 | 0.0\% | 390 | 0.0\% | 282 | 0.0\% | 287 | 0.0\% |
| LFR | Chilliwack | 1,273 | 1.6\% | 1,494 | 1.4\% | 1,184 | 0.9\% | 592 | 1.1\% | 365 | 2.1\% |
| WA NPS | Nooksack Spr Finger | 219 | 0.0\% | 449 | 0.0\% | 366 | 2.0\% | 326 | 1.9\% | 288 | 1.5\% |
|  | Samish Fall Finger | 524 | 0.5\% | 354 | 1.8\% | 525 | 4.0\% | 1,311 | 2.2\% | 1,361 | 2.9\% |
|  | Skagit Spring Finger | 228 | 1.1\% | 376 | 1.2\% | 413 | 11.0\% | 644 | 42.1\% | 1,176 | 37.1\% |
|  | Skagit Spring Yearling | 436 | 1.7\% | 453 | 2.2\% | 470 | 19.0\% | 401 | 49.8\% | 449 | 50.8\% |
|  | Skykomish Fall Fingerl | 84 | 5.6\% | 234 | 5.8\% | 202 | 1.8\% | 272 | 8.9\% | 441 | 5.2\% |
|  | Skagit Summer Fingerl | 323 | 0.8\% | 200 | 2.1\% | 299 | 2.2\% | 308 | 3.0\% | 397 | 0.8\% |
|  | Stillaguamish Fall Fing | 6 | 0.0\% | - |  | 122 | 4.6\% | 171 | 5.0\% | 322 | 1.5\% |
| WA SPS | Green R Fall Finger | 458 | 6.5\% | 466 | 3.0\% | 305 | 2.5\% | 662 | 3.3\% | 884 | 7.0\% |
|  | Grovers Cr Fall Finger | 787 | 7.0\% | 740 | 4.7\% | 727 | 3.2\% | 888 | 6.5\% | 810 | 15.7\% |
|  | Nisqually Fall Finger | 1,154 | 2.8\% | 921 | 1.4\% | 446 | 3.7\% | 1,837 | 2.5\% | 1,906 | 11.1\% |
|  | S Puget Sd Fall Year | 5 | 0.0\% | 21 | 0.0\% | 226 | 7.0\% | 204 | 5.1\% | 227 | 23.7\% |
| WA HC | Hood C Fall Finger | 547 | 2.6\% | 625 | 5.9\% | 908 | 5.4\% | 556 | 4.7\% | 863 | 16.5\% |
| SJDF | Hoko Fall Finger | 217 | 0.0\% | 272 | 1.5\% | 230 | 2.0\% | 240 | 1.8\% | 328 | 1.3\% |
| WA CST | Queets Fall Finger | 887 | 0.0\% | 1,268 | 0.0\% | 1,310 | 0.0\% | 718 | 0.0\% | 576 | 0.0\% |
|  | Sooes Fall Fingerl | 359 | 1.3\% | 362 | 1.2\% | 339 | 0.0\% | 161 | 2.7\% | 53 | 0.0\% |
| COLR | Cowlitz Tule | 304 | 0.0\% | 116 | 3.6\% | 98 | 0.0\% | 54 | 0.0\% | 51 | 0.0\% |
|  | Columbia L River H | 1,076 | 1.6\% | 922 | 0.2\% | 348 | 0.0\% | 45 | 0.0\% | 40 | 0.0\% |
|  | Spring Creek Tule | 3,276 | 0.2\% | 2,544 | 0.6\% | 1,206 | 0.1\% | 471 | 1.6\% | 575 | 1.7\% |
|  | Columbia Summers | 4,064 | 0.2\% | 3,863 | 0.4\% | 4,184 | 0.0\% | 2,538 | 0.2\% | 2,231 | 0.2\% |
| LCOLR | Lewis River Wild | 195 | 2.9\% | 353 | 0.0\% | 181 | 0.0\% | 351 | 0.0\% | 113 | 0.0\% |
|  | Willamette Spring | 1,319 | 1.5\% | 2,044 | 3.5\% | 762 | 17.5\% | 692 | 36.1\% | 421 | 43.1\% |
| U COLR | Hanford Wild | 642 | 0.0\% | 826 | 0.0\% | 362 | 0.0\% | 325 | 0.0\% | 206 | 0.0\% |
|  | Upriver Bright | 1,052 | 0.0\% | 999 | 0.4\% | 1,488 | 0.0\% | 930 | 0.5\% | 329 | 1.5\% |
| SNAK | Lyons Ferry | 117 | 0.0\% | 191 | 2.1\% | 145 | 5.1\% | 116 | 0.0\% | 253 | 1.2\% |
| OR CST | Elk River | 2,393 | 0.0\% | 2,520 | 15.9\% | 1,242 | 0.0\% | 1,393 | 0.0\% | 1,346 | 0.0\% |
|  | Salmon River | 2,705 | 0.0\% | 2,887 | 0.0\% | 3,183 | 0.0\% | 1,477 | 0.0\% | 478 | 0.0\% |

### 1.8.3 Impact of MSFs

PSC indicator stocks that have been double index tagged (DIT) can be used to evaluate the impact of MSFs on the unmarked stocks represented by the unmarked tag group in a DIT pair ${ }^{1}$. The ratio of unmarked to marked fish $(\lambda)$ for a DIT group provides a relationship between the

[^0]two tag groups and a measure to evaluate the impact of MSFs on the DIT stock. A comparison of the ratio of unmarked to marked measured at release and measured again at escapement provides a method to evaluate the total impact of MSFs. The estimated odds ratio, $\frac{\lambda^{\text {Escapement }}}{\lambda^{\text {Release }}}$ (Agresti, 1984) provides a measure to evaluate the impact of MSFs on a stock with DIT representation, where an odds ratio of one indicates that the ratio did not change from release to escapement and a ratio larger than 1 indicates the differential removal of marked fish due to MSFs (Figure 1.19 and Figure 1.20). The figures below show the odds ratio for DIT stocks for brood years 2001-2004. For the BC and Puget Sound stocks (Figure 1.), Skagit springs, Skykomish and Nisqually show the strongest indication that there is a differential impact of MSFs on marked and unmarked DIT groups, as the odds ratio is larger than one for all broods after 2002. These DIT stocks are subject to terminal sport MSFs which target the hatchery production including the DIT returns. Some stocks show annual variation (e.g., Nooksack and Samish), with the odds ratio being less than one for some years, which may indicate some issues with sampling.


Figure 1.20. Estimated odds ratio (Ratio of unmarked to marked ratios estimated at hatchery escapement and at release) by brood year with $95 \%$ confidence intervals for Fraser River and Puget Sound DIT stocks.

For the Columbia River stocks (Figure 1.21), only Lewis River has a time series of more than 2 brood years. The Lewis River odds ratio greater than 1.0 is expected because the magnitude of the sport fisheries in the lower Columbia River tributaries were large and mark selective since 2001.


Figure 1.21. Estimated odds ratio (ratio of unmarked to marked ratios estimated at hatchery escapement and at release) with $95 \%$ confidence intervals for Fraser River and Columbia River DIT stocks.

### 1.8.4 Summary

MSFs have now been in place in Puget Sound since 2003 and Columbia River since 2001.Beginning in 2007 these fisheries have expanded to all areas of Puget Sound. Landed harvest in MSFs has increased to represent around $50 \%$ of the Puget Sound total sport harvest. This expansion is resulting in differential impacts on marked and unmarked components of some stocks, in particular those where terminal MSFs are intense, for spring Columbia River and for South Puget Sound stocks. MSFs expanded further in Puget Sound in 2008 and 2009. They were proposed for areas outside of Puget Sound and on the Columbia River fall stocks for 2009, including in pre-terminal Washington Ocean Areas 1 and 2, the Columbia River and the WCVI sport fisheries, targeting on Columbia River fall Chinook. Although these did not occur in 2009 they can be expected to be proposed for future years.

This increase in MSF impacts and differential impacts on marked and unmarked stocks requires that the analysis of CWT data and the model structure account for these differences.

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## APPENDICES

## Appendices

# Appendix A. Relationship between exploitation rate indicator stocks, escapement indicator stocks, model stocks, and additional management action stocks identified in the PST annex. 

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Appendix A.1.Indicator stocks for Southeast Alaska and Transboundary Rivers.

${ }^{1}$ SEAK fisheries will be managed to achieve escapement objectives for Southeast Alaska and Transboundary River Chinook stocks.
NA = not available

Appendix A.2.Indicator stocks for Canada.

| Area | Annex Stock Group | Annex Indicator Stocks | Run Type | Escapement Indicator Stock | Escapement Objective | Model Stock | Escapement Goal in Model | Exploitation Rate Indicator Stock | CWT Acronym |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NBC-Area 1 | North / Central British Columbia | Yakoun | Summer | Yakoun | Escapement goal range by stock | North / Central BC | 117,500 | Kitsumkalum | KLM |
| NBC-Area 3 |  | Nass | Spring/Summer | Nass |  |  |  |  |  |
| NBC-Area 4 |  | Skeena |  | Skeena |  |  |  |  |  |
| CBC-Area 8 |  |  | Spring | Dean |  |  |  |  |  |
| CBC-Area 9 |  |  | Spring/Fall | Rivers Inlet |  |  |  |  |  |
| WCVI | West Coast Vancouver Island Falls | Artlish, Burman, Gold, Kauok, Tahsis, Tashish, Marble | Fall | WCVI Aggregate (Artlish, Burman, Kauok, Tahsis, Tashish, Marble) | Escapement goal range for aggregate | WCVI Natural | 42,734 | Robertson Creek | RBT |
|  |  |  |  |  |  | WCVI Hatchery | 6,472 |  |  |
| Upper Strait of Georgia | Upper Strait of Georgia | Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish | Summer/ Fall | Upper Strait of Georgia (Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish) | Escapement goal range for aggregate | Upper Strait of Georgia | 23,300 | Quinsam | QUI |
| Lower Strait of Georgia | Lower Strait ofGeorgia |  | Summer/ Fall |  |  | Lower Strait of Georgia Hatchery | 5,318 | Puntledge | PPS |
|  |  |  |  |  |  |  |  | Big Qualicum | BQR |
|  |  | Cowichan, Nanaimo | Fall | Lower Strait of Georgia (Cowichan / Nanaimo) | Escapement goal range for aggregate | Lower Strait of Georgia Natural | 21,935 |  |  |
|  |  |  |  |  |  |  |  | Cowichan | cow |
|  |  |  |  |  |  |  |  | Nanaimo | NAN |
| Fraser River | Fraser Early | Upper Fraser <br> Mid Fraser <br> Thompson | Spring | Fraser Spring-run Age 1.2 | Escapement goal range by stock | Fraser Early | 93,700 | Nicola | NIC |
|  |  |  |  | Fraser Spring-run Age 1.3 |  |  |  | Dome | DOM |
|  |  |  | Summer | Fraser Summer-run Age 1.3 |  |  |  | NA | NA |
|  |  |  |  | Fraser Summer-run Age 0.3 |  |  |  | Lower Shuswap | SHU |
|  | Fraser Late | Harrison River | Fall | Harrison River | 75,100-98,500 | Fraser Late | 75,100 | Chilliwack | CHI |

Appendix A.3.Indicator stocks for Puget Sound.

| Area | Annex Stock Group | Annex Indicator Stocks | $\begin{aligned} & \text { Run } \\ & \text { Type } \end{aligned}$ | Escapement Indicator Stock | Escapement Objective | Model Stock | Escapement Goal in Model | Exploitation Rate Indicator Stock | CWT Acrony m |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| North/ <br> Central <br> Puget <br> Sound | North Puget <br> Sound Natural Springs | Nooksack | Spring | Nooksack | Escapement goal range by stock | Nooksack Spring | 4,000 | Nooksack Spring Fingerling <br> Nooksack Spring Yearling | $\begin{aligned} & \text { NSF } \\ & \text { NKS } \end{aligned}$ |
|  |  | Skagit |  | Skagit spring |  |  |  | Skagit Spring Fingerling <br> Skagit Spring Yearling | $\begin{aligned} & \hline \text { SKF } \\ & \text { SKS } \end{aligned}$ |
|  | North Puget Sound Natural Summer/Falls | Nooksack | Summer/ <br> Fall |  | Escapement goal range by stock | Nooksack Fall | 11,923 | Samish Fall Fingerling | SAM |
|  |  | Snohomish |  | Snohomish |  | Snohomish Wild | 5,250 | Skykomish | SKY |
|  |  | Skagit group |  | Skagit sum/fall |  | Skagit Wild | 9,778 | Skagit Summer Fingerling | SSF |
|  |  | Lake <br> Washington |  | Lake <br> Washington <br> Falls |  | Puget Sound <br> Natural <br> Fingerling | 16,966 | NA |  |
|  |  | Green River |  | Green River |  |  |  |  |  |
|  |  | Stillaguamish |  | Stillaguamish |  | Stillaguamish Wild | 2,000 | Stillaguamish Fall Fingerling | STL |
|  |  |  |  |  |  |  |  | Nisqually Fall Fingerling | NIS |
|  |  |  |  |  |  |  |  | Univ. of Washington Accelerated Fall | UWA |
| Hood Canal | Not an Annex stock |  | Fall |  |  |  |  | George Adams Fall Fingerling | GAD |
| South <br> Puget <br> Sound | Not an annex stock |  | Fall |  |  | Puget Sound Hatchery Fingerling | 24,769 | South Puget Sound Fall Fingerling | SPS |
|  |  |  |  |  |  | Puget Sound <br> Hatchery <br> Yearling | 9,136 | South Puget Sound Fall Yearling | SPY |
|  |  |  |  |  |  |  |  | Squaxin Pens Fall Yearling | SQP |
|  |  |  | Spring |  |  |  |  | White River Spring Yearling | WRY |

[^1]Appendix A.4.Indicator stocks for the Washington Coast.

| Area | Annex Stock Group | Annex Indicator Stocks | Run Type | Escapement Indicator Stock | Escapement Objective | Model Stock | Escapement Goal in Model | Exploitation Rate Indicator Stock | CWT <br> Acronym |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WA Coast/ <br> Juan de <br> Fuca | Washington Coastal Fall Naturals | Hoko | Fall | Hoko |  |  |  | Elwha Fall Fingerling | ELW |
|  |  |  |  |  |  |  |  | Hoko Fall Fingerling | HOK |
|  |  | Grays <br> Harbor |  | Grays Harbor Fall | Escapement goal range by stock | Washington Coastal Wild | 21,500 | NA |  |
|  |  | Queets |  | Queets Fall |  |  |  | Sooes Fall Fingerling | SOO |
|  |  | Hoh |  | Hoh Fall |  |  |  | NA |  |
|  |  | Quillayute |  | Quillayute Fall |  |  |  | NA |  |
|  |  | Queets |  | Queets Fall |  |  |  | Queets Fall Fingerling | QUE |
|  | Not an annex stock |  | Fall |  |  | Washington Coastal Hatchery | 6,703 | NA |  |
|  | Not an annex stock |  | Spring | Grays Harbor Spring |  |  |  | NA |  |
|  | Not an annex stock |  | Spring/ <br> Summer | Queets <br> Spring/Summer |  |  |  | NA |  |
|  |  |  |  | Hoh <br> Spring/Summer |  |  |  | NA |  |
|  | Not an annex stock |  | Summer | Quillayute Summer |  |  |  | NA |  |

[^2]Appendix A.5.Indicator stocks for Columbia River and Oregon Coast.

| Area | Annex <br> Stock <br> Group | Annex <br> Indicator <br> Stocks | Run <br> Type | Escapement Indicator Stock | Escapemen t Objective | Model Stock | Escapement Goal in Model | Exploitation Rate Indicator Stock | CWT <br> Acronym |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Columbia River | Not an Annex stock |  | Spring |  |  | Cowlitz Spring Hatchery | 2,500 | NA |  |
|  |  |  |  |  |  | Willamette River Hatchery | 13,500 | Willamette Spring | WSH |
|  | Columbia River Summers | Mid- <br> Columbia <br> Summers | Summer | Mid Columbia Summer | $17,857^{1}$ | Columbia River Summer | 17,857 | Columbia Summers | SUM |
|  | Columbia <br> River Falls |  | Fall |  |  | Fall Cowlitz Hat. | 8,800 | Cowlitz Tule | CWF |
|  |  |  |  |  |  | Spring Creek Hatchery | 7,000 | Spring Creek Tule | SPR |
|  |  |  |  |  |  | Lower Bonneville Hatchery | 26,200 | Columbia Lower River Hatchery | LRH |
|  |  | Upriver <br> Brights |  | Columbia Upriver Bright |  | Columbia Upriver Brights | 40,000 | Columbia Upriver Bright | URB |
|  |  |  |  |  |  |  |  | Hanford Wild | HAN |
|  |  | Deschutes |  | Deschutes River Fall |  |  |  | NA |  |
|  |  |  |  |  |  | Lyons Ferry | 3,430 | Lyons Ferry | LYF |
|  |  |  |  |  |  | Mid Columbia River Brights | 12,500 | NA |  |
|  |  | Lewis River |  | Lewis | 5,700 | Lewis River Wild | 5,700 | Lewis River Wild | LRW |
| North <br> Oregon <br> Coast | Far North Migrating Oregon Coastal Falls | Nehalem | Fall | Nehalem | 6,989 | Oregon Coast | 62,382 | Salmon River |  |
|  |  | Siuslaw |  | Siuslaw | 12,925 |  |  |  |  |
|  |  | Siletz |  | Siletz | 2,944 |  |  |  |  |
| Mid-Oregon Coast | Not an Annex stock |  | Fall | Umpqua |  |  |  | NA |  |
|  |  |  |  | Mid South Oregon Coastal Falls |  |  |  | NA |  |

Interim goal for modeling based on stock recruitment analysis of model data.
NA - not available

## Appendix B. ISBM indices.

## LIST OF APPENDIX B TABLES

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Appendix B.1. ISBM Indices for Canadian fisheries, CWT-based exploitation rate analysis (19992007).

Appendix B.2.ISBM Indices for U.S. fisheries, CWT-based exploitation rate analysis (1999-2007).
Appendix B.3. ISBM Indices for Canadian fisheries, from the Chinook model (1999-2009) used to establish the AI for each year. Order of the stock groups corresponds to Annex 4, Chapter 3, Attachment IV and V of the PST 1999 Revised Annexes. 65
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Appendix B.1. ISBM Indices for Canadian fisheries, CWT-based exploitation rate analysis (1999-2007).

|  | Escapement Indicator Stocks | CWT Indices ${ }^{1}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stock Group |  | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| Lower Strait of Georgia | Cowichan <br> Nanaimo ${ }^{5}$ | $\begin{aligned} & \hline 0.517 \\ & 0.163 \end{aligned}$ | $\begin{aligned} & 0.196 \\ & 0.154 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0.260 \\ & 0.260 \end{aligned}$ | $\begin{array}{r} 0.247 \\ 0.247 \end{array}$ | $0.363^{6}$ <br> $N^{7}{ }^{7}$ | $\begin{gathered} 0.284 \\ \text { NA } \\ \hline \end{gathered}$ | $\begin{gathered} 0.132 \\ \text { NA } \\ \hline \end{gathered}$ | $\begin{gathered} 0.191 \\ \text { NA } \\ \hline \end{gathered}$ | $\begin{gathered} 0.043 \\ \text { NA } \\ \hline \end{gathered}$ |
| Fraser Late | Harrison River ${ }^{3}$ | 0.112 | 0.073 | 0.090 | 0.105 | $0.055^{9}$ | 0.032 | 0.058 | 0.032 | 0.035 |
| North Puget Sound Natural Springs | Nooksack Skagit | $\begin{gathered} 0.183 \\ \text { NA } \end{gathered}$ | $\begin{gathered} 1.176 \\ \text { NA } \end{gathered}$ | $\begin{gathered} 0.040 \\ \text { NA } \\ \hline \end{gathered}$ | $\begin{gathered} 0.023 \\ \text { NA } \\ \hline \end{gathered}$ | $\begin{gathered} 0.046 \\ \text { NA } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \end{aligned}$ | NA <br> NA | $\begin{aligned} & \text { NA } \\ & \text { NA } \end{aligned}$ |
| Upper Strait of Georgia | Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish | 0.021 | 0.123 | 0.040 | 0.063 | 0.006 | 0.018 | 0.028 | 0.079 | 0.268 |
| Fraser Early (spring and summers) | Upper Fraser, Mid Fraser, Thompson | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| West Coast <br> Vancouver Island <br> Falls ${ }^{12}$ | WCVI (Artlish, Burman, Kauok, Tahsis, Tashish, Marble) | 0.245 | 0.061 | 0.100 | 0.248 | 0.496 | 0.488 | 0.986 | $0.267^{10}$ | 0.906 |
| Puget Sound Natural Summer / Falls | Skagit <br> Stillaguamish <br> Snohomish <br> Lake Washington <br> Green River | $\begin{gathered} \hline \text { NA } \\ 0.194 \\ \text { NA } \\ \text { NA } \\ 0.171 \end{gathered}$ | $\begin{gathered} \text { NA } \\ 0.111 \\ \text { NA } \\ \text { NA } \\ 0.154 \end{gathered}$ | $\begin{gathered} \mathrm{NA} \\ 0.145 \\ \mathrm{NA} \\ \mathrm{NA} \\ 0.350 \\ \hline \end{gathered}$ | $\begin{gathered} \text { NA } \\ \text { NA } \\ \text { NA } \\ \text { NA } \\ 0.323 \\ \hline \end{gathered}$ | $\begin{gathered} \text { NA } \\ \text { NA } \\ \text { NA } \\ \text { NA } \\ 0.328 \end{gathered}$ | $\begin{gathered} \text { NA } \\ 0.027 \\ \text { NA } \\ \text { NA } \\ 0.162 \\ \hline \end{gathered}$ | $\begin{gathered} \text { NA } \\ 0.057 \\ \text { NA } \\ \text { NA } \\ 0.085 \end{gathered}$ | $\begin{gathered} \text { NA } \\ 0.074 \\ \text { NA } \\ \text { NA } \\ 0.109 \end{gathered}$ | $\begin{gathered} \text { NA } \\ 0.192 \\ \text { NA } \\ \text { NA } \\ 0.076 \\ \hline \end{gathered}$ |
| $\begin{aligned} & \text { North / Central B. } \\ & \text { C. } \\ & \hline \end{aligned}$ | Yakoun, Nass, Skeena, Area 8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Washington Coastal Fall Naturals ${ }^{4}$ | Hoko, Grays Harbor, Queets, Hoh, Quillayute | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Columbia River Falls ${ }^{4}$ | Upriver Brights <br> Deschutes <br> Lewis ${ }^{3}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \text { NA } \end{aligned}$ | NA <br> NA <br> NA | NA <br> NA <br> NA | NA <br> NA <br> NA | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \text { NA } \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \text { NA } \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \text { NA } \end{aligned}$ | NA <br> NA <br> NA | NA <br> NA <br> NA |
| Columbia R Summers ${ }^{4}$ | Mid-Columbia Summers ${ }^{3}$ | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Far North Migrating OR Coastal Falls ${ }^{4}$ | $\begin{gathered} \text { Nehalem }^{3}, \text { Siletz }^{3}, \\ \text { Siuslaw }^{3} \end{gathered}$ | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Appendix B.2.ISBM Indices for U.S. fisheries, CWT-based exploitation rate analysis (1999-2007).

| Stock Group | Escapement Indicator Stocks | CWT Indices ${ }^{1}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| Washington Coastal Fall Naturals | Hoko Grays Harbor Queets Hoh Quillayute | $\begin{aligned} & \hline \text { NA } \\ & 0.43 \\ & 1.00 \\ & 1.54 \\ & 1.30 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & 1.63 \\ & 0.85 \\ & 2.75 \\ & 2.47 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & 0.86 \\ & 1.44 \\ & 1.66 \\ & 1.48 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & 0.54 \\ & 0.84 \\ & 0.95 \\ & 1.42 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & 0.15 \\ & 0.85 \\ & 1.34 \\ & 0.99 \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & 0.53 \\ & 0.84 \\ & 1.22 \\ & 1.15 \\ & \hline \end{aligned}$ | $\begin{gathered} \text { NA } \\ 0.56 \\ 2.05 \\ 1.03 \\ 1.03 \\ \hline \end{gathered}$ | $\begin{aligned} & \mathrm{NA}^{2} \\ & 0.52 \\ & 0.60 \\ & 1.29 \\ & 1.18 \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{NA}^{1} \\ 0.790 \\ 1.050 \\ 2.230 \\ 1.470 \end{gathered}$ |
| Columbia River Falls | Upriver Brights Deschutes Lewis ${ }^{5}$ | $\begin{gathered} 1.37 \\ 0.51 \\ 0 \end{gathered}$ | $\begin{aligned} & 2.53 \\ & 0.71 \\ & 0.36 \end{aligned}$ | $\begin{aligned} & 1.35 \\ & 0.52 \\ & 0.58 \end{aligned}$ | $\begin{aligned} & 1.32 \\ & 0.59 \\ & 0.56 \end{aligned}$ | $\begin{gathered} 1.43 \\ 0.049 \\ 1.03 \\ \hline \end{gathered}$ | $\begin{aligned} & 1.74 \\ & 0.51 \\ & 0.17 \end{aligned}$ | $\begin{aligned} & 1.78 \\ & 0.67 \\ & 0.98 \end{aligned}$ | $\begin{aligned} & 3.08 \\ & 0.58 \\ & 1.33 \end{aligned}$ | $\begin{aligned} & 3.100 \\ & 0.510 \\ & 0.790 \end{aligned}$ |
| Puget Sound Natural Summer / Falls | Skagit <br> Stillaguamish Snohomish Lake Washington Green R | $\begin{aligned} & \text { NA } \\ & 0.12 \\ & \text { NA } \\ & \text { NA } \\ & 0.5 \end{aligned}$ | $\begin{gathered} \text { NA } \\ 0.04 \\ \text { NA } \\ \text { NA } \\ 0.7 \end{gathered}$ | $\begin{aligned} & \text { NA } \\ & 0.89 \\ & \text { NA } \\ & \text { NA } \\ & 1.18 \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \text { NA } \\ & \text { NA } \\ & 1.07 \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \text { NA } \\ & \text { NA } \\ & 1.03 \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & 0.01 \\ & \text { NA } \\ & \text { NA } \\ & 1.01 \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & 0.22 \\ & \text { NA } \\ & \text { NA } \\ & 0.17 \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & 0.08 \\ & \text { NA } \\ & \text { NA } \\ & 0.37 \end{aligned}$ | $\begin{gathered} \text { NA } \\ 0.120 \\ \text { NA } \\ \text { NA } \\ 0.380 \end{gathered}$ |
| Fraser Late | Harrison River ${ }^{3}$ | 0.47 | 0.13 | 0.31 | 0.41 | 0.64 | 0.32 | 0.24 | 0.16 | 0.080 |
| Columbia R Summers | Mid-Columbia Summers ${ }^{3}$ | 1.64 | 4.82 | 5.32 | 7.25 | 10.04 | 2.69 | 6.08 | 0.48 | 1.840 |
| Far North Migrating OR Coastal Falls | $\begin{gathered} \text { Nehalem }^{3} \\ \text { Siletz }^{3} \\ \text { Siuslaw }^{3} \\ \hline \end{gathered}$ | $\begin{aligned} & 1.96 \\ & 0.82 \\ & 1.22 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.97 \\ & 1.16 \\ & 2.45 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.94 \\ & 1.19 \\ & 2.18 \\ & \hline \end{aligned}$ | $\begin{array}{r} 2.170 \\ 1.310 \\ 2.560 \\ \hline \end{array}$ | $\begin{aligned} & 3.11 \\ & 1.59 \\ & 3.82 \\ & \hline \end{aligned}$ | $\begin{array}{r} 1.80 \\ 2.29 \\ 1.03 \\ \hline \end{array}$ | $\begin{aligned} & 2.00 \\ & 1.19 \\ & 1.63 \\ & \hline \end{aligned}$ | $\begin{array}{r} 3.48 \\ 2.34 \\ 2.23 \\ \hline \end{array}$ | $\begin{aligned} & 2.010 \\ & 1.600 \\ & 1.000 \\ & \hline \end{aligned}$ |
| North Puget Sound Natural Springs | Nooksack Skagit | $\begin{aligned} & 0.44 \\ & \text { NA } \end{aligned}$ | $\begin{gathered} 0 \\ \text { NA } \\ \hline \end{gathered}$ | $\begin{gathered} 0.04 \\ \text { NA } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { NA } \\ & 1.12 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { NA } \\ & \text { NA } \end{aligned}$ |
| Lower Strait of Georgia ${ }^{4}$ | Cowichan, Nanaimo | $\begin{aligned} & \text { NA } \\ & \text { NA } \end{aligned}$ | $\begin{aligned} & \hline 0.69 \\ & 0.69 \\ & \hline \end{aligned}$ | $\begin{aligned} & 11.35 \\ & 11.35 \\ & \hline \end{aligned}$ | $\begin{aligned} & 5.78 \\ & 5.78 \\ & \hline \end{aligned}$ | $\begin{aligned} & 4.99 \\ & 4.99 \\ & \hline \end{aligned}$ | $\begin{aligned} & 7.25 \\ & 7.25 \end{aligned}$ | $\begin{aligned} & 10.23 \\ & 10.23 \end{aligned}$ | $\begin{aligned} & 15.07 \\ & 15.07 \end{aligned}$ | $\begin{aligned} & 1.550 \\ & 1.550 \end{aligned}$ |
| Upper Strait of Georgia ${ }^{4}$ | Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Fraser Early (spring and summers) ${ }^{4}$ | Upper Fraser, Mid Fraser, Thompson | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| West Coast Vancouver Island Falls ${ }^{4}$ | WCVI (Artlish, Burman, Kauok, Tahsis, Tashish, Marble) | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| North / Central B. C. | Yakoun, Nass, Skeena, Area 8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Appendix B.3. ISBM Indices for Canadian fisheries, from the Chinook model (1999-2009) used to establish the AI for each year.
Order of the stock groups corresponds to Annex 4, Chapter 3, Attachment IV and V of the PST 1999 Revised Annexes.


Appendix B.4. ISBM Indices for U.S. fisheries, from the Chinook model (1999-2009) used to establish the AI for each year. Order of the stock groups corresponds to Annex 4, Chapter 3, Attachment IV and V of the PST 1999 Revised Annexes.

${ }^{1}$ The CWT-based estimates, not the model estimates, are to be used in postseason assessments.
${ }^{2}$ NA means not available because of insufficient data (lack of stock specific tag codes, base period CWT recoveries, etc).
${ }^{3}$ Stock or stock group with an agreed CTC escapement goal.
${ }^{4}$ Stock group not in Annex Attachment IV.
${ }^{5}$ Indices for this stock are calculated from CWT recoveries for Cowichan; differences between Nanaimo and Cowichan stock indices are due to differences in terminal harvest.
${ }^{6}$ An inconsistency was discovered between the approaches used to calculate the model-based and CWT-based indices. The former included harvest rates for terminal sport while the latter did not. Terminal sport harvest rates are now included in the calculation of both indices. Further review is yet required to determine whether the base period terminal sport harvest rates obtained from analyses of Big Qualicum CWT recoveries adequately represent impacts that would have occurred on Cowichan Chinook.
${ }^{7}$ Several problems have been identified in the approach previously used to calculate the CWT-based indices for Nanaimo Chinook; indices for this stock will not be reported as their utility is questionable.
${ }^{8}$ Although model-based indices were previously calculated separately for Cowichan and Nanaimo Chinook; these did not adequately represent impacts on either LGS stock. This is because the model-based data represent an aggregate of the two stocks and methods do not currently exist to correctly disaggregate these data for calculation of the ISBM values. Until such methods are developed, a single index value only will be reported representing the aggregate.
${ }^{9}$ The terminal sport harvest rates for Chilliwack Hatchery Chinook, the indicator stock, were removed from the calculation for the Harrison River naturals this year because sport harvest has been essentially zero on the natural population.
${ }^{10}$ A review ${ }^{\text {of }}$ the approach used to calculate both the CWT-based and model data-based indices for the WCVI naturals was carried out in 2008. A similar approach was adopted for both indices but due to modifications to the formerly used procedures, the historical time series of values was updated.
${ }^{11}$ For the Canadian ISBM fisheries, both Lake Washington and Green are assumed to have the same distribution and thus the same index value.
${ }^{12}$ ISBM indices for WCVI naturals are based on information from Robertson Cr. hatchery stock, including terminal harvest rates. Prior to this report, harvest rates for terminal net and sport fisheries were treated as equal between the naturals and the hatchery indicator. However, this ignored the fact that since 1999 , there has been no terminal net harvest of the vast majority of natural stocks on the WCVI. Consequently, indices for WCVI naturals were adjusted to reflect this zero terminal net harvest rate. In addition, some inconsistencies were noted in the treatment of terminal harvest rates between the model and CWT indices for this stock group. These inconsistencies were eliminated.

## Appendix C. Percent distribution of landed catch and total mortality among fisheries and escapement for exploitation rate indicator stocks by calendar year.

These data result from cohort analysis of CWT recoveries for the indicator stocks; data within a row for each calendar year sum to $100 \%$. Some changes are present in these distribution tables compared to those presented in previous reports. There are various reasons for the changes including updates to escapement time series, in the case of some Columbia River stocks. Also, a computational rule used in producing the stock-specific distribution tables determines whether data are reported for any particular calendar year. The rule is that at least three year classes of CWT recoveries (out of four or five) must be available in any calendar year.

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## Appendix C.1. Percent distribution of Alaska Spring reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1983 | 25.1\% | 1.3\% | 6.3\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 62.2\% |
| 1984 | 21.7\% | 2.6\% | 13.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 59.4\% |
| 1985 | 23.8\% | 4.6\% | 10.9\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 2.2\% | 56.3\% |
| 1986 | 22.3\% | 4.3\% | 11.1\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 3.8\% | 56.8\% |
| 1987 | 27.1\% | 2.6\% | 6.7\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 7.9\% | 54.6\% |
| 1988 | 27.8\% | 1.8\% | 9.6\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 7.2\% | 52.0\% |
| 1989 | 21.3\% | 4.7\% | 8.7\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 6.0\% | 53.6\% |
| 1990 | 30.8\% | 2.4\% | 9.4\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.9\% | 44.7\% |
| 1991 | 35.4\% | 3.5\% | 9.7\% | 0.6\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.9\% | 38.3\% |
| 1992 | 23.1\% | 6.6\% | 11.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 12.3\% | 46.1\% |
| 1993 | 18.7\% | 3.5\% | 11.2\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 9.1\% | 54.6\% |
| 1994 | 13.9\% | 12.3\% | 12.0\% | 0.4\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.7\% | 4.1\% | 53.0\% |
| 1995 | 24.8\% | 5.0\% | 11.4\% | 0.3\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.9\% | 8.5\% | 40.5\% |
| 1996 | 23.3\% | 4.8\% | 15.6\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.4\% | 15.9\% | 34.4\% |
| 1997 | 23.8\% | 4.7\% | 13.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 18.2\% | 36.5\% |
| 1998 | 25.1\% | 6.9\% | 12.9\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 15.6\% | 35.2\% |
| 1999 | 19.1\% | 2.5\% | 15.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 14.7\% | 45.1\% |
| 2000 | 21.4\% | 2.8\% | 13.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 12.6\% | 47.3\% |
| 2001 | 15.3\% | 2.3\% | 9.4\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 9.2\% | 61.5\% |
| 2002 | 11.1\% | 1.8\% | 7.5\% | 1.0\% | 0.7\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 8.6\% | 67.0\% |
| 2003 | 15.4\% | 1.6\% | 7.7\% | 0.7\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.8\% | 64.5\% |
| 2004 | 15.2\% | 5.0\% | 5.3\% | 0.4\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 9.2\% | 64.0\% |
| 2005 | 22.5\% | 5.4\% | 10.9\% | 0.3\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 19.2\% | 40.9\% |
| 2006 | 31.8\% | 3.8\% | 5.7\% | 0.6\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 9.6\% | 46.3\% |
| 2007 | 29.8\% | 3.2\% | 6.3\% | 0.3\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 10.0\% | 48.7\% |
| 1983-2007 | 22.8\% | 4.0\% | 10.1\% | 0.5\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 9.7\% | 50.5\% |
| 1979-1984 | 23.4\% | 2.0\% | 9.6\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 60.8\% |
| 1985-1995 | 24.5\% | 4.7\% | 10.2\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 7.6\% | 50.1\% |
| 1996-1998 | 24.1\% | 5.5\% | 13.8\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.1\% | 16.6\% | 35.4\% |
| 1999-2007 | 20.2\% | 3.2\% | 9.0\% | 0.4\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 11.5\% | 53.9\% |

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| Catch Year | AABM |  |  |  |  |  |  | Geo St |  | Canada |  |  | ISBM |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | SEAK |  | NBC |  | WCVI |  |  |  |  | /OR co |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport |  |  |  | Troll | Net | Sport | Troll | Net | Sport | Net | Sport |  | Troll | Net | Sport |
| 1983 | 32.0\% | 1.5\% | 10.5\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 51.2\% |
| 1984 | 26.0\% | 2.6\% | 17.2\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 2.0\% | 50.9\% |
| 1985 | 27.6\% | 10.1\% | 12.5\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 2.0\% | 45.9\% |
| 1986 | 26.1\% | 10.2\% | 11.7\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 3.5\% | 47.0\% |
| 1987 | 35.8\% | 5.2\% | 6.7\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 6.9\% | 44.4\% |
| 1988 | 31.7\% | 5.7\% | 9.9\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 6.6\% | 44.4\% |
| 1989 | 24.8\% | 12.4\% | 9.5\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 5.1\% | 43.0\% |
| 1990 | 36.4\% | 6.6\% | 9.8\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.5\% | 35.6\% |
| 1991 | 36.9\% | 8.7\% | 9.7\% | 0.6\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.8\% | 32.7\% |
| 1992 | 22.4\% | 20.2\% | 10.3\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 10.1\% | 36.2\% |
| 1993 | 22.3\% | 7.3\% | 12.2\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 8.4\% | 47.1\% |
| 1994 | 17.2\% | 26.5\% | 11.4\% | 0.4\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 3.2\% | 37.9\% |
| 1995 | 30.0\% | 5.9\% | 12.1\% | 0.3\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.9\% | 7.7\% | 34.3\% |
| 1996 | 26.1\% | 6.3\% | 16.4\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.2\% | 14.8\% | 30.6\% |
| 1997 | 24.7\% | 7.6\% | 14.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 17.2\% | 32.7\% |
| 1998 | 24.7\% | 16.3\% | 13.4\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 13.5\% | 27.9\% |
| 1999 | 21.2\% | 4.9\% | 17.7\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 13.8\% | 38.4\% |
| 2000 | 24.6\% | 5.1\% | 14.2\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 12.0\% | 40.6\% |
| 2001 | 18.0\% | 4.7\% | 10.5\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 8.9\% | 55.6\% |
| 2002 | 12.9\% | 4.6\% | 9.2\% | 1.1\% | 0.9\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 8.5\% | 60.1\% |
| 2003 | 16.8\% | 4.9\% | 9.2\% | 0.7\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.7\% | 58.4\% |
| 2004 | 16.4\% | 13.7\% | 6.2\% | 0.4\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 8.5\% | 53.8\% |
| 2005 | 25.5\% | 7.2\% | 13.0\% | 0.4\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 18.2\% | 34.9\% |
| 2006 | 34.8\% | 4.4\% | 7.2\% | 0.7\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 9.4\% | 41.1\% |
| 2007 | 32.5\% | 7.9\% | 6.8\% | 0.3\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 9.4\% | 41.2\% |
| 1983-2007 | 25.9\% | 8.4\% | 11.3\% | 0.6\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 8.9\% | 42.6\% |
| 1979-1984 | 29.0\% | 2.0\% | 13.8\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 51.0\% |
| 1985-1995 | 28.3\% | 10.8\% | 10.5\% | 0.7\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 6.7\% | 40.8\% |
| 1996-1998 | 25.2\% | 10.0\% | 14.6\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 15.2\% | 30.4\% |
| 1999-2007 | 22.5\% | 6.4\% | 10.5\% | 0.4\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 10.9\% | 47.1\% |

Appendix C.3. Percent distribution of Kitsumkalum River Summer reported catch among fisheries and escapement.

| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1984 | 50.8\% | 0.0\% | 0.0\% | 18.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 30.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985 | 26.1\% | 0.0\% | 1.6\% | 7.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 51.6\% |
| 1986 | 8.9\% | 0.0\% | 0.0\% | 14.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 65.7\% |
| 1987 | 7.4\% | 0.0\% | 0.0\% | 9.1\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 71.4\% |
| 1988 | 17.4\% | 0.6\% | 1.9\% | 3.1\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.7\% | 46.6\% |
| 1989 | 10.9\% | 0.3\% | 6.8\% | 5.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 59.1\% |
| 1990 | 10.7\% | 0.0\% | 2.8\% | 6.6\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 7.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.6\% | 65.0\% |
| 1991 | 14.6\% | 0.0\% | 3.7\% | 8.8\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 16.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% | 41.8\% |
| 1992 | 13.9\% | 0.0\% | 1.9\% | 7.0\% | 5.4\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 60.7\% |
| 1993 | 10.4\% | 0.9\% | 2.2\% | 10.0\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 53.5\% |
| 1994 | 11.1\% | 0.0\% | 0.0\% | 5.6\% | 6.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 57.9\% |
| 1995 | 11.8\% | 0.0\% | 2.7\% | 7.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 28.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 41.9\% |
| 1996 | 8.3\% | 0.2\% | 6.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 62.0\% |
| 1997 | 10.2\% | 0.0\% | 7.4\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.1\% | 61.5\% |
| 1998 | 8.5\% | 0.0\% | 3.0\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 81.0\% |
| 1999 | 13.9\% | 0.0\% | 9.2\% | 0.0\% | 10.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 64.4\% |
| 2000 | 8.5\% | 0.0\% | 8.2\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 6.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 70.0\% |
| 2001 | 10.2\% | 0.0\% | 9.0\% | 0.6\% | 4.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 65.9\% |
| 2002 | 13.2\% | 0.2\% | 5.5\% | 1.5\% | 11.7\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 60.5\% |
| 2003 | 13.7\% | 0.0\% | 1.6\% | 4.9\% | 4.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.0\% | 69.0\% |
| 2004 | 8.2\% | 2.6\% | 5.5\% | 0.9\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 74.2\% |
| 2005 | 13.5\% | 0.0\% | 2.3\% | 2.3\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.2\% | 62.0\% |
| 2006 | 12.4\% | 1.7\% | 1.7\% | 2.8\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.9\% | 62.8\% |
| 2007 | 10.9\% | 0.4\% | 2.5\% | 1.9\% | 11.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 70.7\% |
| 1983-2007 | 13.6\% | 0.3\% | 3.6\% | 4.9\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 59.1\% |
| 1979-1984 | 50.8\% | 0.0\% | 0.0\% | 18.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 30.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 13.0\% | 0.2\% | 2.1\% | 7.6\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 14.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 55.9\% |
| 1996-1998 | 9.0\% | 0.1\% | 5.5\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 68.2\% |
| 1999-2007 | 11.6\% | 0.5\% | 5.0\% | 1.6\% | 7.4\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 66.6\% |

Appendices
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Appendix C.4. Percent distribution of Kitsumkalum River Summer total fishing mortalities among fisheries and escapement.

| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1984 | 52.6\% | 0.0\% | 0.0\% | 21.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 26.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985 | 29.6\% | 0.0\% | 1.5\% | 7.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 48.5\% |
| 1986 | 10.2\% | 0.0\% | 0.0\% | 13.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 64.8\% |
| 1987 | 12.8\% | 0.0\% | 2.6\% | 9.8\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 62.3\% |
| 1988 | 23.4\% | 2.4\% | 4.9\% | 7.3\% | 3.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 36.6\% |
| 1989 | 14.3\% | 0.6\% | 6.9\% | 5.3\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 55.5\% |
| 1990 | 11.8\% | 0.0\% | 3.3\% | 7.7\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% | 62.1\% |
| 1991 | 19.9\% | 0.0\% | 4.2\% | 10.7\% | 6.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 14.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 36.5\% |
| 1992 | 15.4\% | 0.0\% | 2.0\% | 7.9\% | 5.6\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 58.3\% |
| 1993 | 11.6\% | 1.7\% | 2.1\% | 11.6\% | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 50.8\% |
| 1994 | 13.3\% | 0.0\% | 0.0\% | 6.7\% | 8.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 54.1\% |
| 1995 | 13.2\% | 0.0\% | 2.7\% | 9.6\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 31.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.1\% | 35.6\% |
| 1996 | 10.0\% | 0.2\% | 6.4\% | 0.4\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 57.3\% |
| 1997 | 11.6\% | 0.0\% | 8.5\% | 0.0\% | 7.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.0\% | 57.2\% |
| 1998 | 10.3\% | 0.0\% | 3.5\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 77.8\% |
| 1999 | 14.9\% | 0.0\% | 10.1\% | 0.0\% | 12.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 60.7\% |
| 2000 | 10.1\% | 0.0\% | 10.7\% | 0.0\% | 7.5\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 6.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 64.2\% |
| 2001 | 11.9\% | 0.0\% | 9.9\% | 0.7\% | 4.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 56.3\% |
| 2002 | 14.2\% | 0.8\% | 6.0\% | 1.6\% | 13.8\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 4.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 53.9\% |
| 2003 | 15.5\% | 0.0\% | 1.9\% | 5.6\% | 5.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.2\% | 65.3\% |
| 2004 | 8.3\% | 7.1\% | 5.6\% | 0.9\% | 7.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 67.2\% |
| 2005 | 15.6\% | 0.0\% | 2.6\% | 2.4\% | 8.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.2\% | 58.0\% |
| 2006 | 14.0\% | 1.9\% | 2.9\% | 2.9\% | 7.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.9\% | 57.8\% |
| 2007 | 10.9\% | 0.9\% | 2.6\% | 1.8\% | 12.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 68.3\% |
| 1983-2007 | 15.6\% | 0.6\% | 4.2\% | 5.6\% | 5.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 10.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 54.5\% |
| 1979-1984 | 52.6\% | 0.0\% | 0.0\% | 21.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 26.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 16.0\% | 0.4\% | 2.8\% | 8.9\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 14.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 51.4\% |
| 1996-1998 | 10.6\% | 0.1\% | 6.1\% | 0.1\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 64.1\% |
| 1999-2007 | 12.8\% | 1.2\% | 5.8\% | 1.8\% | 8.9\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 61.3\% |

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## Appendix C.5. Percent distribution of Robertson Creek Fall reported catch among fisheries and escapement.

| Catch <br> Year | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1979 | 17.9\% | 0.8\% | 0.7\% | 11.5\% | 0.3\% | 8.1\% | 0.1\% | 0.5\% | 1.2\% | 10.9\% | 10.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 32.6\% |
| 1980 | 26.9\% | 7.0\% | 0.9\% | 8.1\% | 0.1\% | 7.0\% | 0.4\% | 0.0\% | 0.1\% | 8.3\% | 5.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 10.2\% | 3.0\% | 22.5\% |
| 1981 | 29.7\% | 1.6\% | 0.8\% | 12.2\% | 0.5\% | 5.3\% | 0.7\% | 0.0\% | 0.6\% | 8.2\% | 5.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 12.6\% | 5.0\% | 16.5\% |
| 1982 | 25.0\% | 3.4\% | 1.5\% | 13.5\% | 0.1\% | 5.8\% | 0.4\% | 0.0\% | 0.9\% | 7.5\% | 6.4\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.6\% | 0.2\% | 0.0\% | 13.5\% | 6.0\% | 15.3\% |
| 1983 | 36.0\% | 3.3\% | 0.6\% | 10.4\% | 0.3\% | 5.2\% | 0.0\% | 0.0\% | 0.3\% | 8.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 17.5\% | 4.6\% | 10.4\% |
| 1984 | 26.6\% | 4.0\% | 0.0\% | 14.7\% | 0.0\% | 6.9\% | 0.0\% | 0.0\% | 0.8\% | 3.0\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 17.3\% | 15.9\% | 7.6\% |
| 1985 | 14.1\% | 5.8\% | 0.0\% | 17.7\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.8\% | 0.5\% | 6.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 1.5\% | 17.7\% | 31.3\% |
| 1986 | 13.9\% | 4.6\% | 0.0\% | 8.1\% | 0.7\% | 4.4\% | 0.9\% | 0.0\% | 0.0\% | 1.1\% | 4.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.4\% | 25.6\% | 35.0\% |
| 1987 | 6.5\% | 1.5\% | 0.6\% | 6.1\% | 0.5\% | 2.2\% | 0.1\% | 0.0\% | 0.5\% | 2.9\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 20.8\% | 54.3\% |
| 1988 | 9.9\% | 2.1\% | 0.9\% | 6.6\% | 1.1\% | 4.1\% | 4.7\% | 0.0\% | 0.6\% | 1.2\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.2\% | 0.0\% | 7.9\% | 13.9\% | 44.4\% |
| 1989 | 8.0\% | 2.5\% | 0.4\% | 7.8\% | 1.0\% | 1.6\% | 1.7\% | 0.0\% | 0.8\% | 0.8\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 19.3\% | 16.9\% | 36.9\% |
| 1990 | 15.8\% | 1.1\% | 1.3\% | 7.3\% | 0.9\% | 6.3\% | 2.0\% | 0.0\% | 0.3\% | 2.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 9.8\% | 8.8\% | 41.9\% |
| 1991 | 16.9\% | 1.1\% | 3.0\% | 9.1\% | 0.8\% | 4.5\% | 1.1\% | 0.0\% | 0.3\% | 2.7\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 14.3\% | 12.6\% | 32.3\% |
| 1992 | 13.7\% | 3.0\% | 1.7\% | 7.2\% | 1.5\% | 18.8\% | 2.1\% | 0.0\% | 0.1\% | 3.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.4\% | 5.9\% | 41.1\% |
| 1993 | 13.9\% | 1.0\% | 2.5\% | 7.1\% | 1.4\% | 13.8\% | 2.6\% | 0.0\% | 0.5\% | 2.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 7.5\% | 13.1\% | 33.2\% |
| 1994 | 15.8\% | 2.2\% | 3.7\% | 9.5\% | 1.1\% | 5.3\% | 4.3\% | 0.0\% | 0.4\% | 1.1\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 12.6\% | 17.0\% | 25.6\% |
| 1995 | 15.1\% | 0.0\% | 4.0\% | 3.0\% | 2.0\% | 1.5\% | 3.1\% | 0.0\% | 1.4\% | 0.3\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 7.1\% | 9.2\% | 52.6\% |
| 1996 | 5.6\% | 0.1\% | 1.9\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 87.4\% |
| 1997 | 10.7\% | 3.2\% | 3.9\% | 4.5\% | 3.3\% | 0.1\% | 2.1\% | 0.0\% | 0.5\% | 1.8\% | 0.4\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 17.8\% | 44.9\% |
| 1998 | 16.3\% | 1.2\% | 5.0\% | 6.1\% | 3.1\% | 0.0\% | 3.3\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.1\% | 15.6\% | 44.6\% |
| 1999 | 11.8\% | 0.4\% | 7.7\% | 3.2\% | 6.1\% | 0.0\% | 3.3\% | 0.0\% | 0.8\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 18.3\% | 41.5\% |
| 2000 | 5.3\% | 0.0\% | 0.0\% | 0.0\% | 9.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 84.1\% |
| 2001 | 3.0\% | 0.0\% | 1.6\% | 0.0\% | 0.4\% | 0.0\% | 2.1\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 89.2\% |
| 2002 | 11.1\% | 0.3\% | 1.5\% | 3.4\% | 4.1\% | 0.4\% | 2.9\% | 0.0\% | 0.6\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.7\% | 15.0\% | 53.0\% |
| 2003 | 12.5\% | 1.9\% | 3.0\% | 0.7\% | 4.3\% | 0.0\% | 1.7\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 14.2\% | 52.8\% |
| 2004 | 11.8\% | 7.5\% | 2.6\% | 2.4\% | 4.8\% | 0.2\% | 1.3\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 12.5\% | 43.1\% |
| 2005 | 13.8\% | 2.5\% | 3.6\% | 2.8\% | 8.9\% | 0.0\% | 1.7\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.0\% | 8.1\% | 25.9\% |
| 2006 | 9.8\% | 1.9\% | 2.4\% | 2.4\% | 5.4\% | 0.0\% | 3.4\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 26.6\% | 11.0\% | 35.7\% |
| 2007 | 14.9\% | 1.6\% | 3.3\% | 5.0\% | 10.1\% | 0.1\% | 3.9\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 26.9\% | 12.1\% | 21.2\% |
| 1983-2007 | 14.9\% | 2.3\% | 2.0\% | 6.6\% | 2.6\% | 3.6\% | 1.7\% | 0.0\% | 0.7\% | 2.3\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.1\% | 0.0\% | 9.8\% | 11.3\% | 39.9\% |
| 1979-1984 | 27.0\% | 3.3\% | 0.7\% | 11.7\% | 0.2\% | 6.4\% | 0.3\% | 0.1\% | 0.6\% | 7.7\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 11.8\% | 6.6\% | 17.5\% |
| 1985-1995 | 13.1\% | 2.3\% | 1.6\% | 8.1\% | 1.0\% | 5.9\% | 2.1\% | 0.0\% | 0.5\% | 1.6\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.2\% | 0.0\% | 7.4\% | 14.7\% | 39.0\% |
| 1996-1998 | 10.8\% | 1.5\% | 3.6\% | 3.5\% | 3.0\% | 0.0\% | 1.8\% | 0.0\% | 0.9\% | 0.9\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 11.2\% | 59.0\% |
| 1999-2007 | 10.4\% | 1.8\% | 2.9\% | 2.2\% | 5.9\% | 0.1\% | 2.3\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.5\% | 10.3\% | 49.6\% |

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## Appendix C.6. Percent distribution of Robertson Creek Fall total fishing mortalities among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1979 | 20.7\% | 0.7\% | 0.7\% | 12.8\% | 0.3\% | 9.0\% | 0.1\% | 0.5\% | 1.1\% | 12.0\% | 9.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 28.1\% |
| 1980 | 27.7\% | 6.9\% | 1.0\% | 8.6\% | 0.1\% | 7.5\% | 0.4\% | 0.0\% | 0.1\% | 8.7\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 9.6\% | 3.0\% | 20.6\% |
| 1981 | 32.9\% | 1.5\% | 1.0\% | 13.1\% | 0.5\% | 5.8\% | 0.6\% | 0.0\% | 0.6\% | 8.9\% | 5.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 11.1\% | 4.6\% | 13.7\% |
| 1982 | 28.5\% | 3.1\% | 1.6\% | 14.2\% | 0.1\% | 6.1\% | 0.4\% | 0.0\% | 0.8\% | 7.8\% | 5.8\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.6\% | 0.2\% | 0.0\% | 12.0\% | 5.6\% | 13.0\% |
| 1983 | 40.6\% | 3.0\% | 0.6\% | 10.1\% | 0.3\% | 5.0\% | 0.0\% | 0.0\% | 0.3\% | 7.7\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 15.9\% | 4.4\% | 9.2\% |
| 1984 | 27.9\% | 3.8\% | 0.0\% | 14.7\% | 0.0\% | 7.1\% | 0.0\% | 0.0\% | 0.8\% | 3.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 16.4\% | 15.9\% | 7.1\% |
| 1985 | 14.9\% | 16.8\% | 0.0\% | 16.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.7\% | 0.4\% | 5.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 1.2\% | 15.4\% | 25.4\% |
| 1986 | 17.8\% | 12.6\% | 0.0\% | 8.6\% | 1.1\% | 4.4\% | 0.8\% | 0.0\% | 0.0\% | 1.2\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.3\% | 21.3\% | 26.2\% |
| 1987 | 10.2\% | 3.4\% | 1.1\% | 7.5\% | 0.6\% | 2.7\% | 0.2\% | 0.0\% | 0.5\% | 3.5\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 19.6\% | 47.1\% |
| 1988 | 11.0\% | 4.7\% | 1.2\% | 7.3\% | 1.1\% | 4.7\% | 4.8\% | 0.0\% | 0.7\% | 1.3\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.2\% | 0.0\% | 7.4\% | 13.5\% | 39.7\% |
| 1989 | 11.0\% | 6.9\% | 0.5\% | 9.0\% | 1.0\% | 1.9\% | 1.6\% | 0.0\% | 0.8\% | 1.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 17.2\% | 15.6\% | 31.0\% |
| 1990 | 19.5\% | 2.9\% | 1.5\% | 8.8\% | 0.9\% | 6.7\% | 1.9\% | 0.0\% | 0.3\% | 2.3\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 8.8\% | 8.1\% | 35.9\% |
| 1991 | 20.0\% | 2.4\% | 3.1\% | 9.8\% | 0.8\% | 4.8\% | 1.0\% | 0.0\% | 0.3\% | 2.9\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 13.0\% | 12.0\% | 28.5\% |
| 1992 | 16.8\% | 8.3\% | 1.7\% | 7.4\% | 1.4\% | 18.6\% | 1.9\% | 0.0\% | 0.1\% | 3.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.3\% | 5.2\% | 34.0\% |
| 1993 | 16.0\% | 2.3\% | 2.5\% | 7.6\% | 1.4\% | 14.5\% | 2.5\% | 0.0\% | 0.5\% | 2.1\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 6.9\% | 12.6\% | 29.9\% |
| 1994 | 18.1\% | 4.9\% | 3.6\% | 9.2\% | 1.1\% | 5.2\% | 4.2\% | 0.0\% | 0.4\% | 1.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 11.5\% | 16.4\% | 23.1\% |
| 1995 | 17.3\% | 0.0\% | 4.5\% | 3.6\% | 2.5\% | 1.9\% | 3.2\% | 0.0\% | 1.5\% | 0.4\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 6.6\% | 9.9\% | 48.0\% |
| 1996 | 9.3\% | 0.1\% | 4.5\% | 2.8\% | 2.4\% | 0.8\% | 0.0\% | 0.0\% | 1.8\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 75.4\% |
| 1997 | 13.7\% | 8.2\% | 4.4\% | 5.0\% | 3.6\% | 0.2\% | 1.9\% | 0.0\% | 0.6\% | 2.0\% | 0.5\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% | 16.1\% | 37.9\% |
| 1998 | 16.8\% | 3.0\% | 5.0\% | 6.1\% | 3.6\% | 0.0\% | 3.3\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 15.7\% | 41.8\% |
| 1999 | 12.4\% | 0.8\% | 7.8\% | 3.2\% | 6.9\% | 0.0\% | 3.4\% | 0.0\% | 0.8\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 18.8\% | 39.3\% |
| 2000 | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 14.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 78.0\% |
| 2001 | 4.4\% | 0.0\% | 3.0\% | 0.0\% | 0.6\% | 0.0\% | 2.4\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 84.9\% |
| 2002 | 13.0\% | 0.7\% | 1.9\% | 3.8\% | 4.9\% | 0.4\% | 3.1\% | 0.0\% | 0.6\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.2\% | 15.7\% | 48.4\% |
| 2003 | 13.5\% | 5.3\% | 3.4\% | 0.7\% | 5.1\% | 0.0\% | 2.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.1\% | 14.8\% | 46.8\% |
| 2004 | 11.6\% | 20.3\% | 2.5\% | 2.3\% | 5.3\% | 0.1\% | 1.2\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 10.2\% | 11.5\% | 33.7\% |
| 2005 | 14.9\% | 2.9\% | 4.1\% | 3.0\% | 10.9\% | 0.0\% | 1.8\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 29.9\% | 8.2\% | 23.6\% |
| 2006 | 11.5\% | 3.3\% | 2.6\% | 2.6\% | 5.8\% | 0.0\% | 3.5\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.2\% | 11.1\% | 32.7\% |
| 2007 | 16.2\% | 3.2\% | 3.4\% | 5.0\% | 11.5\% | 0.1\% | 4.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.7\% | 12.0\% | 19.1\% |
| 1983-2007 | 17.0\% | 4.6\% | 2.3\% | 7.0\% | 3.0\% | 3.8\% | 1.7\% | 0.0\% | 0.8\% | 2.4\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.1\% | 0.0\% | 9.0\% | 10.9\% | 35.2\% |
| 1979-1984 | 29.7\% | 3.2\% | 0.8\% | 12.3\% | 0.2\% | 6.8\% | 0.3\% | 0.1\% | 0.6\% | 8.0\% | 5.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 10.8\% | 6.3\% | 15.3\% |
| 1985-1995 | 15.7\% | 5.9\% | 1.8\% | 8.6\% | 1.1\% | 6.1\% | 2.0\% | 0.0\% | 0.5\% | 1.7\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.2\% | 0.0\% | 6.7\% | 13.6\% | 33.5\% |
| 1996-1998 | 13.3\% | 3.8\% | 4.6\% | 4.6\% | 3.2\% | 0.3\% | 1.7\% | 0.0\% | 1.0\% | 0.9\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 11.3\% | 51.7\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 1999-2007 } \\ & \text { Appendices } \end{aligned}$ | 11.5\% | 4.1\% | 3.2\% | 2.3\% | 7.2\% | 0.1\% | 2.4\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.4\% <br> Page | $\begin{aligned} & 10.4 \% \\ & 76 \end{aligned}$ | 45.2\% |

## Appendix C.7. Percent distribution of Quinsam River Fall reported catch among fisheries and escapement.



## Appendix C.8. Percent distribution of Quinsam River Fall total fishing mortalities among fisheries and escapement.

| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1979 | 6.4\% | 4.9\% | 1.0\% | 6.6\% | 3.0\% | 0.1\% | 0.0\% | 2.3\% | 4.1\% | 11.6\% | 22.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 37.6\% |
| 1980 | 15.2\% | 4.8\% | 3.2\% | 10.9\% | 5.1\% | 0.0\% | 0.0\% | 1.5\% | 5.1\% | 17.2\% | 21.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.8\% |
| 1981 | 11.6\% | 2.3\% | 1.8\% | 13.8\% | 6.6\% | 0.6\% | 0.0\% | 2.1\% | 9.8\% | 13.0\% | 16.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.8\% |
| 1982 | 19.9\% | 6.8\% | 5.4\% | 8.7\% | 2.2\% | 0.4\% | 0.0\% | 0.0\% | 3.6\% | 6.6\% | 25.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.1\% |
| 1983 | 25.1\% | 1.4\% | 0.3\% | 14.4\% | 2.9\% | 0.7\% | 0.0\% | 0.2\% | 4.1\% | 11.5\% | 24.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.0\% |
| 1984 | 15.5\% | 5.9\% | 5.4\% | 6.6\% | 4.1\% | 0.9\% | 0.0\% | 0.9\% | 6.7\% | 5.1\% | 20.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 28.2\% |
| 1985 | 27.2\% | 12.7\% | 4.2\% | 4.7\% | 1.0\% | 0.1\% | 0.0\% | 0.0\% | 3.7\% | 3.3\% | 17.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 25.9\% |
| 1986 | 15.4\% | 10.8\% | 3.1\% | 6.6\% | 3.0\% | 0.0\% | 0.0\% | 0.2\% | 5.3\% | 7.2\% | 24.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.2\% |
| 1987 | 15.9\% | 10.4\% | 2.7\% | 6.8\% | 5.6\% | 0.4\% | 0.3\% | 0.2\% | 3.2\% | 6.7\% | 20.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 27.5\% |
| 1988 | 19.7\% | 4.4\% | 1.3\% | 6.9\% | 3.0\% | 0.8\% | 0.9\% | 0.2\% | 3.7\% | 2.6\% | 9.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 47.1\% |
| 1989 | 14.1\% | 8.1\% | 2.8\% | 4.0\% | 3.2\% | 0.3\% | 0.0\% | 0.0\% | 7.6\% | 2.0\% | 16.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 41.3\% |
| 1990 | 17.5\% | 5.1\% | 0.5\% | 6.9\% | 8.3\% | 1.4\% | 0.0\% | 1.6\% | 1.9\% | 5.0\% | 13.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 37.9\% |
| 1991 | 11.7\% | 8.0\% | 1.5\% | 6.1\% | 11.6\% | 0.6\% | 0.7\% | 0.7\% | 3.9\% | 9.7\% | 12.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.9\% |
| 1992 | 16.3\% | 1.2\% | 2.6\% | 11.1\% | 6.6\% | 0.3\% | 0.0\% | 0.4\% | 3.4\% | 9.9\% | 9.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 38.3\% |
| 1993 | 8.7\% | 7.2\% | 1.3\% | 6.4\% | 8.4\% | 1.3\% | 0.0\% | 0.8\% | 10.5\% | 6.4\% | 20.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 28.6\% |
| 1994 | 6.8\% | 12.7\% | 4.0\% | 9.6\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 6.2\% | 1.4\% | 15.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 38.7\% |
| 1995 | 8.5\% | 5.1\% | 0.0\% | 11.2\% | 10.5\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 0.0\% | 18.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 39.5\% |
| 1996 | 7.2\% | 0.7\% | 0.0\% | 1.4\% | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% | 0.0\% | 20.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 58.7\% |
| 1997 | 9.9\% | 5.9\% | 3.0\% | 4.3\% | 10.7\% | 0.8\% | 4.7\% | 0.0\% | 9.1\% | 3.6\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 44.4\% |
| 1998 | 14.7\% | 6.3\% | 2.2\% | 0.0\% | 11.1\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 58.9\% |
| 1999 | 9.9\% | 7.2\% | 5.2\% | 1.4\% | 13.5\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.2\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 59.2\% |
| 2000 | 14.3\% | 3.7\% | 5.5\% | 0.2\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 64.7\% |
| 2001 | 10.7\% | 2.8\% | 2.0\% | 0.1\% | 6.7\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 75.3\% |
| 2002 | 14.4\% | 6.8\% | 0.9\% | 0.6\% | 17.8\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 57.3\% |
| 2003 | 19.1\% | 5.6\% | 0.9\% | 0.0\% | 24.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 50.1\% |
| 2004 | 6.9\% | 34.6\% | 1.4\% | 0.2\% | 15.7\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 39.5\% |
| 2005 | 18.2\% | 3.2\% | 3.1\% | 0.4\% | 17.7\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 54.9\% |
| 2006 | 17.7\% | 5.9\% | 1.3\% | 0.7\% | 8.4\% | 0.0\% | 0.7\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 60.9\% |
| 2007 | 18.5\% | 6.3\% | 0.9\% | 4.1\% | 15.3\% | 0.0\% | 0.0\% | 0.0\% | 5.6\% | 5.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 43.5\% |
| 1983-2007 | 14.4\% | 6.9\% | 2.3\% | 5.3\% | 8.3\% | 0.3\% | 0.3\% | 0.4\% | 4.6\% | 4.4\% | 11.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 41.0\% |
| 1979-1984 | 15.6\% | 4.4\% | 2.8\% | 10.2\% | 4.0\% | 0.4\% | 0.0\% | 1.2\% | 5.6\% | 10.8\% | 21.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.3\% |
| 1985-1995 | 14.7\% | 7.8\% | 2.2\% | 7.3\% | 6.0\% | 0.5\% | 0.2\% | 0.4\% | 5.1\% | 4.9\% | 16.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 34.7\% |
| 1996-1998 | 10.6\% | 4.3\% | 1.7\% | 1.9\% | 8.7\% | 0.3\% | 1.6\% | 0.0\% | 7.2\% | 1.2\% | 8.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 54.0\% |
| 1999-2007 | 14.4\% | 8.4\% | 2.3\% | 0.9\% | 14.0\% | 0.0\% | 0.1\% | 0.0\% | 2.3\% | 0.6\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 56.1\% |

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## Appendix C.10. Percent distribution of Puntledge River Summer total fishing mortalities among fisheries and escapement.



## Appendix C.11. Percent distribution of Big Qualicum reported catch among fisheries and escapement.

| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | port |  |
| 1979 | 3.4\% | 0.9\% | 0.3\% | 1.7\% | 0.4\% | 2.2\% | 0.1\% | 21.2\% | 15.3\% | 9.4\% | 12.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 29.9\% |
| 1980 | 1.4\% | 1.6\% | 0.4\% | 4.4\% | 1.4\% | 4.2\% | 0.0\% | 15.2\% | 20.1\% | 6.6\% | 12.8\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.3\% | 0.2\% | 0.0\% | 0.0\% | 3.7\% | 27.7\% |
| 1981 | 1.9\% | 0.3\% | 0.4\% | 1.3\% | 0.8\% | 1.5\% | 0.3\% | 17.8\% | 33.4\% | 11.4\% | 14.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.6\% | 0.0\% | 0.0\% | 4.1\% | 12.1\% |
| 1982 | 4.5\% | 0.4\% | 1.2\% | 4.5\% | 0.4\% | 4.3\% | 0.0\% | 12.7\% | 11.4\% | 5.8\% | 20.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.7\% | 0.0\% | 0.0\% | 1.6\% | 30.9\% |
| 1983 | 5.4\% | 0.3\% | 0.3\% | 4.9\% | 1.0\% | 1.1\% | 0.0\% | 13.5\% | 14.8\% | 6.8\% | 19.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 8.3\% | 23.7\% |
| 1984 | 1.4\% | 0.4\% | 0.0\% | 1.4\% | 5.8\% | 1.4\% | 0.0\% | 8.9\% | 38.8\% | 6.6\% | 9.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.6\% | 20.7\% |
| 1985 | 3.9\% | 0.3\% | 0.0\% | 1.7\% | 1.7\% | 1.4\% | 0.0\% | 1.7\% | 24.3\% | 3.8\% | 19.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 0.0\% | 9.7\% | 29.4\% |
| 1986 | 1.9\% | 0.2\% | 0.0\% | 0.7\% | 2.8\% | 1.4\% | 0.0\% | 8.1\% | 30.8\% | 12.6\% | 15.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 20.1\% |
| 1987 | 8.7\% | 0.0\% | 0.9\% | 3.9\% | 2.7\% | 4.2\% | 0.0\% | 2.0\% | 22.6\% | 2.4\% | 7.7\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 6.6\% | 36.6\% |
| 1988 | 2.8\% | 0.5\% | 0.0\% | 2.3\% | 1.3\% | 2.8\% | 2.0\% | 1.8\% | 25.3\% | 1.3\% | 14.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 39.0\% |
| 1989 | 4.2\% | 1.6\% | 0.6\% | 3.2\% | 1.8\% | 4.8\% | 0.0\% | 1.8\% | 19.4\% | 0.6\% | 9.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 18.0\% | 33.7\% |
| 1990 | 4.8\% | 1.9\% | 0.0\% | 6.0\% | 2.4\% | 3.0\% | 0.0\% | 3.5\% | 14.6\% | 1.6\% | 17.7\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 4.6\% | 37.9\% |
| 1991 | 2.4\% | 1.3\% | 0.0\% | 2.1\% | 1.9\% | 1.9\% | 0.0\% | 5.3\% | 28.2\% | 1.1\% | 8.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 10.9\% | 35.4\% |
| 1992 | 2.3\% | 0.0\% | 2.5\% | 5.4\% | 7.7\% | 3.4\% | 0.0\% | 9.0\% | 26.3\% | 5.9\% | 5.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 25.6\% |
| 1993 | 1.2\% | 1.2\% | 0.0\% | 1.5\% | 3.2\% | 1.7\% | 0.0\% | 3.4\% | 36.9\% | 3.9\% | 9.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 4.6\% | 31.5\% |
| 1994 | 4.4\% | 0.0\% | 0.0\% | 1.6\% | 2.0\% | 2.8\% | 0.0\% | 4.4\% | 23.4\% | 1.6\% | 6.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 6.0\% | 45.2\% |
| 1995 | 7.0\% | 0.0\% | 0.0\% | 1.5\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 10.9\% | 0.0\% | 7.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.0\% | 60.7\% |
| 1996 | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 44.3\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 2.1\% | 47.9\% |
| 1997 | 3.0\% | 0.0\% | 0.0\% | 5.0\% | 2.0\% | 0.0\% | 4.5\% | 1.0\% | 9.0\% | 1.5\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.4\% | 51.7\% |
| 1998 | 7.0\% | 0.5\% | 0.0\% | 0.0\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 10.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.6\% | 67.0\% |
| 1999 | 5.5\% | 2.4\% | 0.0\% | 2.0\% | 3.5\% | 0.0\% | 3.5\% | 0.0\% | 9.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 68.6\% |
| 2000 | 13.8\% | 0.9\% | 0.0\% | 0.0\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 7.6\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 67.1\% |
| 2001 | 4.1\% | 6.8\% | 0.0\% | 0.0\% | 10.7\% | 0.6\% | 0.0\% | 0.0\% | 8.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 65.6\% |
| 2002 | 9.8\% | 0.0\% | 2.9\% | 3.3\% | 9.4\% | 2.3\% | 2.9\% | 0.0\% | 5.5\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 57.3\% |
| 2003 | 7.7\% | 0.4\% | 1.6\% | 0.0\% | 13.3\% | 3.2\% | 0.0\% | 0.0\% | 8.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 65.3\% |
| 2004 | 6.9\% | 0.0\% | 0.3\% | 4.8\% | 4.8\% | 1.3\% | 0.0\% | 0.0\% | 7.7\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 72.0\% |
| 2005 | 8.9\% | 0.4\% | 0.0\% | 2.0\% | 9.3\% | 5.8\% | 2.8\% | 0.0\% | 6.0\% | 0.0\% | 0.8\% | 0.0\% | 0.6\% | 0.0\% | 0.6\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 58.5\% |
| 2006 | 4.2\% | 1.2\% | 1.7\% | 1.4\% | 3.6\% | 0.5\% | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 79.9\% |
| 2007 | 10.1\% | 0.2\% | 0.7\% | 5.9\% | 12.4\% | 0.5\% | 1.8\% | 0.0\% | 4.7\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 57.9\% |
| 1983-2007 | 5.0\% | 0.8\% | 0.5\% | 2.5\% | 4.1\% | 1.9\% | 0.6\% | 4.5\% | 18.0\% | 2.9\% | 7.4\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.8\% | 0.2\% | 0.0\% | 0.0\% | 5.7\% | 44.8\% |
| 1979-1984 | 3.0\% | 0.7\% | 0.4\% | 3.0\% | 1.6\% | 2.5\% | 0.1\% | 14.9\% | 22.3\% | 7.8\% | 14.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.3\% | 0.0\% | 0.0\% | 4.2\% | 24.2\% |
| 1985-1995 | 4.0\% | 0.6\% | 0.4\% | 2.7\% | 2.7\% | 2.5\% | 0.2\% | 3.7\% | 23.9\% | 3.2\% | 11.1\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.7\% | 0.4\% | 0.0\% | 0.0\% | 7.9\% | 35.9\% |
| 1996-1998 | 4.3\% | 0.2\% | 0.0\% | 1.7\% | 3.0\% | 0.0\% | 1.5\% | 0.3\% | 21.4\% | 0.5\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 10.4\% | 55.5\% |
| 1999-2007 | 7.9\% | 1.4\% | 0.8\% | 2.1\% | 7.9\% | 1.6\% | 1.2\% | 0.0\% | 6.8\% | 0.3\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 0.2\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 65.8\% |

Appendices
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## Appendix C.12. Percent distribution of Big Qualicum total fishing mortalities among fisheries and escapement.



## Appendix C.13. Percent distribution of Nanaimo River Fall reported catch among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1984 | 4.1\% | 0.0\% | 0.0\% | 2.1\% | 2.7\% | 1.7\% | 0.8\% | 1.0\% | 32.0\% | 12.8\% | 20.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 1.0\% | 0.0\% | 0.0\% | 9.9\% | 11.6\% |
| 1991 | 0.3\% | 0.3\% | 0.0\% | 0.8\% | 2.1\% | 0.5\% | 0.9\% | 6.0\% | 29.5\% | 0.9\% | 11.6\% | 0.0\% | 0.9\% | 0.1\% | 0.0\% | 2.8\% | 0.7\% | 0.0\% | 0.0\% | 12.5\% | 30.0\% |
| 1992 | 0.1\% | 0.0\% | 0.0\% | 0.8\% | 3.2\% | 5.4\% | 0.3\% | 7.3\% | 28.7\% | 1.3\% | 7.3\% | 0.0\% | 0.4\% | 0.0\% | 0.1\% | 0.7\% | 0.6\% | 0.0\% | 0.0\% | 3.2\% | 40.5\% |
| 1993 | 0.1\% | 0.1\% | 0.0\% | 1.5\% | 1.9\% | 2.5\% | 0.6\% | 4.8\% | 44.5\% | 1.1\% | 5.2\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.2\% | 1.0\% | 0.0\% | 0.0\% | 7.5\% | 28.3\% |
| 1994 | 0.5\% | 0.0\% | 0.0\% | 0.8\% | 2.3\% | 4.0\% | 1.3\% | 0.8\% | 21.6\% | 0.0\% | 8.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 4.3\% | 55.1\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 1.2\% | 0.9\% | 0.0\% | 14.6\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.7\% | 5.0\% | 73.5\% |
| 1996 | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.5\% | 0.0\% | 43.6\% | 0.0\% | 2.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.5\% | 2.5\% | 0.0\% | 8.6\% | 13.7\% | 25.9\% |
| 1997 | 6.3\% | 0.0\% | 0.0\% | 3.6\% | 0.0\% | 0.9\% | 0.4\% | 0.0\% | 27.7\% | 2.2\% | 1.8\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 4.0\% | 3.1\% | 0.0\% | 0.0\% | 7.1\% | 41.5\% |
| 1998 | 1.0\% | 3.6\% | 0.0\% | 5.2\% | 3.6\% | 0.5\% | 0.0\% | 0.0\% | 13.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 19.3\% | 51.0\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 2.4\% | 0.0\% | 20.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 2.0\% | 0.0\% | 2.4\% | 5.9\% | 62.5\% |
| 2000 | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 4.7\% | 0.0\% | 18.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.7\% | 20.7\% | 40.8\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 0.0\% | 0.0\% | 6.7\% | 1.7\% | 81.0\% |
| 2002 | 0.2\% | 0.1\% | 0.0\% | 0.0\% | 1.8\% | 1.0\% | 0.0\% | 0.0\% | 24.8\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 2.9\% | 0.0\% | 9.1\% | 7.2\% | 50.4\% |
| 2003 | 0.5\% | 0.3\% | 0.0\% | 0.0\% | 7.3\% | 3.7\% | 0.6\% | 0.0\% | 13.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 1.5\% | 1.5\% | 0.0\% | 2.1\% | 2.7\% | 65.9\% |
| 2004 | 1.2\% | 0.0\% | 0.0\% | 0.6\% | 7.2\% | 4.7\% | 1.9\% | 0.0\% | 7.8\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 1.4\% | 2.0\% | 0.0\% | 11.3\% | 1.4\% | 59.8\% |
| 2005 | 0.5\% | 0.0\% | 0.5\% | 1.4\% | 7.0\% | 5.3\% | 1.4\% | 0.0\% | 5.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.5\% | 0.0\% | 33.7\% | 0.0\% | 42.2\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.8\% | 0.0\% | 9.1\% | 0.0\% | 88.2\% |
| 1983-2006 | 0.9\% | 0.3\% | 0.0\% | 1.0\% | 2.6\% | 2.1\% | 1.0\% | 1.2\% | 20.7\% | 1.1\% | 3.5\% | 0.0\% | 0.2\% | 0.1\% | 0.0\% | 1.4\% | 1.2\% | 0.0\% | 5.6\% | 7.2\% | 49.9\% |
| 1979-1984 | 4.1\% | 0.0\% | 0.0\% | 2.1\% | 2.7\% | 1.7\% | 0.8\% | 1.0\% | 32.0\% | 12.8\% | 20.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 1.0\% | 0.0\% | 0.0\% | 9.9\% | 11.6\% |
| 1985-1995 | 0.2\% | 0.1\% | 0.0\% | 0.8\% | 2.1\% | 2.7\% | 0.8\% | 3.8\% | 27.8\% | 0.7\% | 6.9\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.8\% | 0.9\% | 0.0\% | 0.1\% | 6.5\% | 45.5\% |
| 1996-1998 | 2.4\% | 1.4\% | 0.0\% | 2.9\% | 1.7\% | 0.5\% | 0.3\% | 0.0\% | 28.1\% | 0.7\% | 1.9\% | 0.0\% | 0.1\% | 0.4\% | 0.0\% | 1.5\% | 1.9\% | 0.0\% | 3.2\% | 13.4\% | 39.5\% |
| 1999-2007 | 0.5\% | 0.0\% | 0.1\% | 0.2\% | 3.1\% | 2.3\% | 1.4\% | 0.0\% | 12.2\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 1.8\% | 1.2\% | 0.0\% | 10.6\% | 5.0\% | 61.4\% |

## 

| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1984 | 3.9\% | 0.0\% | 0.0\% | 2.0\% | 2.8\% | 1.9\% | 0.7\% | 1.1\% | 32.7\% | 12.8\% | 19.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 1.1\% | 0.0\% | 0.0\% | 10.2\% | 11.2\% |
| 1991 | 0.2\% | 0.5\% | 0.0\% | 0.9\% | 2.6\% | 2.1\% | 0.8\% | 8.4\% | 33.4\% | 1.2\% | 9.8\% | 0.0\% | 0.8\% | 0.2\% | 0.0\% | 3.2\% | 1.0\% | 0.0\% | 0.0\% | 12.0\% | 22.8\% |
| 1992 | 0.2\% | 0.0\% | 0.0\% | 1.0\% | 3.4\% | 6.1\% | 0.3\% | 9.8\% | 31.8\% | 1.5\% | 6.6\% | 0.0\% | 0.5\% | 0.0\% | 0.1\% | 0.9\% | 0.9\% | 0.0\% | 0.0\% | 3.5\% | 33.3\% |
| 1993 | 0.1\% | 0.4\% | 0.0\% | 1.8\% | 1.7\% | 2.8\% | 0.5\% | 6.3\% | 47.4\% | 1.4\% | 4.5\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.2\% | 1.0\% | 0.0\% | 0.0\% | 7.8\% | 23.6\% |
| 1994 | 0.7\% | 0.0\% | 0.0\% | 0.9\% | 2.7\% | 4.4\% | 1.3\% | 0.9\% | 25.1\% | 0.0\% | 8.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 4.7\% | 48.9\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 1.8\% | 1.0\% | 0.0\% | 17.6\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.7\% | 6.1\% | 65.6\% |
| 1996 | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 1.2\% | 0.3\% | 0.4\% | 0.0\% | 46.9\% | 0.0\% | 2.6\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.5\% | 3.1\% | 0.0\% | 7.6\% | 14.6\% | 21.3\% |
| 1997 | 6.8\% | 0.0\% | 0.0\% | 4.1\% | 0.0\% | 1.1\% | 0.4\% | 0.0\% | 28.9\% | 2.3\% | 3.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 4.9\% | 4.5\% | 0.0\% | 0.0\% | 7.5\% | 35.0\% |
| 1998 | 1.3\% | 9.6\% | 0.0\% | 6.3\% | 4.6\% | 0.4\% | 0.0\% | 0.0\% | 14.2\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 20.0\% | 40.8\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 2.2\% | 0.0\% | 22.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 3.3\% | 0.0\% | 2.2\% | 6.9\% | 57.2\% |
| 2000 | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 4.9\% | 0.0\% | 20.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.3\% | 23.4\% | 37.5\% |
| 2001 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 1.2\% | 0.0\% | 0.0\% | 13.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.6\% | 10.4\% | 0.0\% | 5.6\% | 3.1\% | 58.8\% |
| 2002 | 0.4\% | 0.2\% | 0.0\% | 0.0\% | 2.9\% | 1.2\% | 0.0\% | 0.0\% | 26.5\% | 0.0\% | 2.5\% | 0.0\% | 0.1\% | 0.2\% | 0.0\% | 2.5\% | 3.9\% | 0.0\% | 8.4\% | 7.8\% | 43.3\% |
| 2003 | 0.6\% | 0.8\% | 0.1\% | 0.2\% | 9.3\% | 3.8\% | 0.8\% | 0.0\% | 14.4\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.6\% | 0.0\% | 1.9\% | 2.9\% | 0.0\% | 2.6\% | 2.9\% | 58.9\% |
| 2004 | 1.3\% | 0.0\% | 0.0\% | 0.6\% | 9.5\% | 4.7\% | 2.0\% | 0.0\% | 8.8\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 1.4\% | 2.6\% | 0.0\% | 11.1\% | 1.6\% | 55.4\% |
| 2005 | 0.5\% | 0.0\% | 0.5\% | 1.3\% | 8.3\% | 5.2\% | 1.5\% | 0.0\% | 6.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.7\% | 0.0\% | 33.7\% | 0.0\% | 40.3\% |
| 2006 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.4\% | 0.4\% | 0.0\% | 4.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.5\% | 1.6\% | 0.0\% | 8.8\% | 0.3\% | 82.8\% |
| 1983-2006 | 1.0\% | 0.8\% | 0.0\% | 1.1\% | 3.2\% | 2.4\% | 1.0\% | 1.6\% | 23.2\% | 1.1\% | 3.7\% | 0.0\% | 0.2\% | 0.1\% | 0.0\% | 1.6\% | 2.4\% | 0.0\% | 5.4\% | 7.8\% | 43.3\% |
| 1979-1984 | 3.9\% | 0.0\% | 0.0\% | 2.0\% | 2.8\% | 1.9\% | 0.7\% | 1.1\% | 32.7\% | 12.8\% | 19.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 1.1\% | 0.0\% | 0.0\% | 10.2\% | 11.2\% |
| 1985-1995 | 0.2\% | 0.2\% | 0.0\% | 0.9\% | 2.4\% | 3.4\% | 0.8\% | 5.1\% | 31.1\% | 0.8\% | 6.6\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.9\% | 1.4\% | 0.0\% | 0.1\% | 6.8\% | 38.8\% |
| 1996-1998 | 2.7\% | 3.6\% | 0.0\% | 3.5\% | 1.9\% | 0.6\% | 0.3\% | 0.0\% | 30.0\% | 0.8\% | 2.6\% | 0.0\% | 0.1\% | 0.5\% | 0.0\% | 1.8\% | 2.5\% | 0.0\% | 2.8\% | 14.0\% | 32.4\% |
| 1999-2007 | 0.5\% | 0.1\% | 0.1\% | 0.3\% | 4.2\% | 2.4\% | 1.5\% | 0.0\% | 14.6\% | 0.0\% | 0.3\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 2.2\% | 3.2\% | 0.0\% | 10.3\% | 5.7\% | 54.3\% |

Appendix C.15. Percent distribution of Dome Creek Spring reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 5.8\% | 0.0\% | 12.3\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 3.2\% | 75.2\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 0.0\% | 33.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 4.6\% | 53.7\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.4\% | 0.0\% | 7.2\% | 0.0\% | 30.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 58.8\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 64.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 26.5\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.6\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 54.3\% | 0.0\% | 30.7\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 2.4\% | 0.0\% | 0.0\% | 15.7\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 49.4\% | 3.2\% | 26.1\% |
| 2002 | 0.0\% | 0.0\% | 0.0\% | 10.9\% | 0.0\% | 12.2\% | 0.0\% | 0.0\% | 10.2\% | 0.0\% | 17.7\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 45.6\% |
| 2003 | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 0.0\% | 0.0\% | 7.6\% | 0.0\% | 15.1\% | 0.0\% | 51.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.3\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 0.0\% | 56.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.7\% | 28.9\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 0.0\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 56.7\% | 0.0\% | 33.3\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.7\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 21.4\% | 0.0\% | 42.9\% | 0.0\% | 21.4\% |
| 1983-2007 | 0.1\% | 0.0\% | 0.0\% | 1.6\% | 0.3\% | 1.7\% | 0.6\% | 0.0\% | 12.2\% | 0.0\% | 19.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.1\% | 1.7\% | 0.0\% | 19.8\% | 3.2\% | 38.9\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.4\% | 0.1\% | 0.0\% | 5.7\% | 0.0\% | 42.9\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.4\% | 0.5\% | 0.0\% | 0.0\% | 2.9\% | 46.3\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.3\% | 2.2\% | 0.8\% | 0.0\% | 16.2\% | 0.0\% | 13.9\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 30.8\% | 3.4\% | 26.4\% |



| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 7.1\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 12.3\% | 3.3\% | 72.5\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.9\% | 0.3\% | 0.0\% | 0.0\% | 6.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 33.5\% | 4.6\% | 50.9\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.3\% | 0.0\% | 8.7\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 29.9\% | 0.0\% | 56.6\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 68.0\% | 3.9\% | 23.7\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.3\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 53.3\% | 0.0\% | 28.5\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.7\% | 2.2\% | 0.0\% | 0.0\% | 18.4\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 48.2\% | 3.3\% | 23.9\% |
| 2002 | 0.0\% | 0.0\% | 0.0\% | 11.1\% | 0.0\% | 11.8\% | 0.0\% | 0.0\% | 11.8\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.3\% | 0.0\% | 43.8\% |
| 2003 | 0.0\% | 0.0\% | 0.0\% | 6.6\% | 0.0\% | 0.0\% | 9.0\% | 0.0\% | 15.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 50.0\% | 0.0\% | 18.9\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 54.9\% | 7.8\% | 27.2\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 0.0\% | 0.0\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 57.5\% | 0.0\% | 32.2\% |
| 1983-2007 | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.5\% | 2.3\% | 0.9\% | 0.0\% | 9.7\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.1\% | 0.5\% | 0.0\% | 42.6\% | 2.3\% | 37.8\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.3\% | 0.6\% | 0.1\% | 0.0\% | 6.6\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.5\% | 0.9\% | 0.0\% | 43.8\% | 2.9\% | 43.7\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 3.7\% | 0.6\% | 3.2\% | 1.5\% | 0.0\% | 11.7\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 47.0\% | 1.9\% | 29.1\% |

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## Appendix C.17. Percent distribution of Shuswap River Summer reported catch among fisheries and escapement.

| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1995 | 17.0\% | 0.0\% | 5.2\% | 12.7\% | 9.5\% | 3.9\% | 0.0\% | 0.0\% | 2.0\% | 1.0\% | 8.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.6\% | 0.0\% | 0.0\% | 6.9\% | 1.0\% | 26.8\% |
| 1996 | 14.2\% | 0.0\% | 0.0\% | 0.0\% | 4.9\% | 0.0\% | 1.5\% | 0.0\% | 2.9\% | 0.0\% | 6.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.4\% | 1.2\% | 61.4\% |
| 1997 | 18.7\% | 0.9\% | 0.0\% | 12.9\% | 7.1\% | 0.6\% | 0.0\% | 0.0\% | 7.4\% | 0.9\% | 28.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.4\% |
| 1998 | 22.3\% | 0.2\% | 8.7\% | 9.4\% | 9.7\% | 0.0\% | 0.2\% | 0.0\% | 6.3\% | 0.0\% | 8.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 33.3\% |
| 1999 | 28.2\% | 0.0\% | 13.0\% | 0.9\% | 14.1\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% | 0.0\% | 9.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 28.0\% |
| 2000 | 9.5\% | 0.0\% | 6.7\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 0.0\% | 6.2\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 68.5\% |
| 2001 | 5.5\% | 0.6\% | 0.3\% | 0.0\% | 6.8\% | 0.0\% | 0.0\% | 0.1\% | 4.0\% | 0.9\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 4.9\% | 4.7\% | 72.0\% |
| 2002 | 16.3\% | 0.0\% | 3.0\% | 11.5\% | 6.7\% | 1.5\% | 0.0\% | 0.0\% | 2.6\% | 0.1\% | 9.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 48.0\% |
| 2003 | 10.1\% | 0.7\% | 2.0\% | 7.9\% | 7.2\% | 0.0\% | 0.3\% | 0.0\% | 5.2\% | 0.8\% | 3.8\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 59.2\% |
| 2004 | 16.5\% | 0.0\% | 1.9\% | 8.6\% | 9.2\% | 0.9\% | 0.0\% | 0.0\% | 4.2\% | 0.0\% | 12.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 43.1\% |
| 2005 | 13.6\% | 0.0\% | 0.8\% | 11.0\% | 15.6\% | 0.4\% | 3.1\% | 0.0\% | 4.1\% | 0.0\% | 5.7\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 41.0\% |
| 2006 | 11.4\% | 0.0\% | 2.0\% | 12.7\% | 13.7\% | 0.3\% | 0.9\% | 0.0\% | 6.9\% | 0.0\% | 6.8\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 41.6\% |
| 2007 | 5.6\% | 0.2\% | 2.9\% | 3.3\% | 9.8\% | 0.0\% | 0.7\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.4\% | 5.3\% | 60.7\% |
| 1983-2007 | 14.3\% | 0.2\% | 3.4\% | 8.3\% | 8.8\% | 1.4\% | 0.5\% | 0.0\% | 4.2\% | 1.3\% | 8.6\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 2.0\% | 1.9\% | 43.6\% |
| 1996-1998 | 18.4\% | 0.4\% | 2.9\% | 7.4\% | 7.2\% | 0.2\% | 0.6\% | 0.0\% | 5.5\% | 0.3\% | 14.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 2.5\% | 0.7\% | 37.7\% |
| 1999-2007 | 13.0\% | 0.2\% | 3.6\% | 6.2\% | 9.6\% | 0.3\% | 0.5\% | 0.0\% | 4.4\% | 0.2\% | 6.0\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.4\% | 0.0\% | 0.0\% | 1.5\% | 2.5\% | 51.3\% |

## Appendix C.18. Percent distribution of Shuswap River Summer total fishing mortalities among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | ISBM Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1995 | 22.3\% | 0.0\% | 5.0\% | 15.1\% | 8.9\% | 4.5\% | 0.0\% | 0.0\% | 2.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 0.0\% | 0.0\% | 15.2\% | 0.7\% | 20.3\% |
| 1996 | 17.5\% | 0.0\% | 0.0\% | 0.4\% | 4.7\% | 0.3\% | 1.6\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.6\% | 1.3\% | 57.4\% |
| 1997 | 20.9\% | 1.5\% | 0.0\% | 13.2\% | 8.0\% | 0.7\% | 0.0\% | 0.0\% | 7.5\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 0.0\% | 0.0\% | 27.9\% | 0.0\% | 15.0\% |
| 1998 | 23.4\% | 0.4\% | 9.5\% | 9.5\% | 11.2\% | 0.0\% | 0.1\% | 0.0\% | 6.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 8.6\% | 0.7\% | 28.9\% |
| 1999 | 32.0\% | 0.0\% | 13.6\% | 1.0\% | 14.6\% | 0.0\% | 0.0\% | 0.0\% | 6.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.9\% | 0.7\% | 24.1\% |
| 2000 | 10.9\% | 0.0\% | 10.2\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 6.5\% | 1.4\% | 61.0\% |
| 2001 | 7.5\% | 1.4\% | 0.3\% | 0.0\% | 8.4\% | 0.0\% | 0.0\% | 0.1\% | 4.8\% | 2.2\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 5.4\% | 4.6\% | 65.1\% |
| 2002 | 18.0\% | 0.0\% | 3.4\% | 12.6\% | 8.0\% | 1.5\% | 0.0\% | 0.0\% | 2.9\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.2\% | 0.5\% | 43.8\% |
| 2003 | 10.9\% | 2.3\% | 2.3\% | 8.6\% | 8.4\% | 0.0\% | 0.3\% | 0.0\% | 5.6\% | 1.1\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 3.6\% | 1.7\% | 54.2\% |
| 2004 | 17.8\% | 0.0\% | 2.3\% | 9.3\% | 12.3\% | 0.9\% | 0.0\% | 0.0\% | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 11.3\% | 1.6\% | 38.4\% |
| 2005 | 15.0\% | 0.0\% | 0.9\% | 12.3\% | 17.6\% | 0.4\% | 3.2\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 5.2\% | 3.8\% | 36.7\% |
| 2006 | 11.9\% | 0.0\% | 2.1\% | 13.1\% | 15.5\% | 0.3\% | 1.0\% | 0.0\% | 7.3\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 6.3\% | 2.7\% | 38.6\% |
| 2007 | 6.1\% | 0.3\% | 15.4\% | 3.6\% | 17.3\% | 0.0\% | 0.8\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.4\% | 4.2\% | 42.5\% |
| 1983-2007 | 7.6\% | 10.8\% | 0.7\% | 0.5\% | 0.0\% | 4.8\% | 0.4\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 9.8\% | 1.8\% | 40.5\% | 7.6\% | 10.8\% | 0.7\% |
| 1996-1998 | 20.6\% | 0.6\% | 3.2\% | 7.7\% | 8.0\% | 0.3\% | 0.6\% | 0.0\% | 5.7\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 16.7\% | 0.7\% | 33.8\% |
| 1999-2007 | 14.5\% | 0.4\% | 5.6\% | 6.7\% | 12.0\% | 0.3\% | 0.6\% | 0.0\% | 4.8\% | 0.4\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.4\% | 0.0\% | 0.0\% | 6.9\% | 2.4\% | 44.9\% |

## Appendix C.19. Percent distribution of Nicola River Spring reported catch among fisheries and escapement.

| Catch <br> Year | AABM |  |  |  |  |  |  | Geo St |  | Canada |  |  | ISBM |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  |  |  |  | OR |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport |  |  |  | Troll | Net | Sport | Troll | Net | Sport | Net | Sport |  | Troll | Net | Sport |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.7\% | 1.1\% | 0.3\% | 0.0\% | 2.4\% | 0.0\% | 1.7\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 7.8\% | 3.8\% | 81.6\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 13.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 83.7\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 0.0\% | 13.8\% | 5.4\% | 67.9\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 11.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.6\% | 78.6\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 2.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.8\% | 1.4\% | 70.3\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 29.1\% | 4.0\% | 62.3\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.8\% | 3.6\% | 70.2\% |
| 2002 | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 0.5\% | 1.3\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 6.6\% | 0.0\% | 1.2\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 82.0\% |
| 2003 | 0.1\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.7\% | 0.4\% | 0.0\% | 1.9\% | 0.0\% | 0.5\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.7\% | 5.1\% | 68.5\% |
| 2004 | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 24.3\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 68.0\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 5.8\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.9\% | 10.0\% | 53.6\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.5\% | 8.7\% | 67.0\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.8\% | 23.3\% | 46.6\% |
| 1983-2007 | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.3\% | 1.4\% | 0.1\% | 0.0\% | 2.6\% | 0.0\% | 4.6\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 13.2\% | 8.3\% | 68.1\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 9.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 4.6\% | 4.5\% | 76.7\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.2\% | 1.7\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 3.8\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.1\% | 6.7\% | 65.4\% |

## Appendix C.20. Percent distribution of Nicola River Spring total fishing mortalities among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | Geo St |  | Canada |  |  | ISBM |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  |  |  |  | OR |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport |  |  |  | Troll | Net | Sport | Troll | Net | Sport | Net | Sport |  | Troll | Net | Sport |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.8\% | 1.3\% | 0.4\% | 0.0\% | 2.6\% | 0.0\% | 1.8\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 9.2\% | 4.0\% | 79.2\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.3\% | 0.6\% | 0.0\% | 0.0\% | 2.3\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.5\% | 0.6\% | 81.1\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.2\% | 0.0\% | 14.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.8\% | 0.0\% | 12.0\% | 4.6\% | 53.4\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.2\% | 7.8\% | 75.4\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 27.3\% | 1.5\% | 69.9\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 29.7\% | 4.2\% | 61.4\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.1\% | 0.0\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.9\% | 3.8\% | 69.4\% |
| 2002 | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 0.5\% | 1.2\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 4.5\% | 80.7\% |
| 2003 | 0.1\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.8\% | 0.5\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.1\% | 5.4\% | 67.7\% |
| 2004 | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.0\% | 0.0\% | 66.7\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 6.6\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.8\% | 10.5\% | 52.4\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.4\% | 9.2\% | 65.8\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.6\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.9\% | 24.1\% | 45.3\% |
| 1983-2007 | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.4\% | 1.4\% | 0.1\% | 0.0\% | 2.9\% | 0.0\% | 1.4\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 18.8\% | 6.2\% | 66.8\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.5\% | 0.2\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 0.0\% | 12.9\% | 4.3\% | 70.0\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.3\% | 1.7\% | 0.1\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.9\% | 7.0\% | 64.4\% |

Appendix C.21. Percent distribution of Cowichan River Fall reported catch among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 1.3\% | 0.0\% | 18.7\% | 32.3\% | 1.4\% | 17.6\% | 0.0\% | 0.7\% | 0.0\% | 0.3\% | 3.2\% | 2.0\% | 0.0\% | 1.3\% | 1.8\% | 19.3\% |
| 1991 | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 1.5\% | 3.4\% | 0.8\% | 7.3\% | 52.2\% | 0.2\% | 5.6\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 3.7\% | 0.9\% | 0.0\% | 0.9\% | 0.8\% | 21.5\% |
| 1992 | 0.1\% | 0.0\% | 0.0\% | 0.4\% | 0.9\% | 9.5\% | 1.4\% | 17.1\% | 44.8\% | 1.0\% | 5.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 1.4\% | 1.3\% | 0.0\% | 1.8\% | 0.5\% | 14.3\% |
| 1993 | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 1.5\% | 7.7\% | 1.6\% | 10.0\% | 48.2\% | 0.5\% | 3.9\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.9\% | 0.4\% | 0.0\% | 2.5\% | 0.7\% | 21.2\% |
| 1994 | 0.6\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 3.9\% | 0.8\% | 4.5\% | 29.7\% | 0.2\% | 8.3\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 3.6\% | 0.5\% | 0.0\% | 8.4\% | 2.2\% | 36.5\% |
| 1995 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 0.7\% | 0.0\% | 29.5\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.7\% | 0.0\% | 3.5\% | 3.9\% | 53.4\% |
| 1996 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 37.8\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 3.3\% | 0.0\% | 10.8\% | 2.1\% | 43.1\% |
| 1997 | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 2.3\% | 0.9\% | 0.0\% | 18.9\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 2.4\% | 0.0\% | 0.8\% | 2.2\% | 67.8\% |
| 1998 | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.5\% | 1.4\% | 0.0\% | 17.9\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 17.5\% | 6.7\% | 49.0\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 4.1\% | 0.0\% | 33.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.7\% | 6.7\% | 0.0\% | 0.0\% | 4.5\% | 5.3\% | 43.8\% |
| 2000 | 1.2\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 4.2\% | 0.0\% | 12.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 1.3\% | 0.0\% | 1.2\% | 6.2\% | 67.7\% |
| 2001 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 9.1\% | 0.0\% | 0.0\% | 22.7\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 10.9\% | 0.9\% | 0.0\% | 14.8\% | 2.1\% | 38.3\% |
| 2002 | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 3.5\% | 2.7\% | 0.0\% | 15.6\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 3.3\% | 3.5\% | 0.0\% | 24.4\% | 11.8\% | 29.9\% |
| 2003 | 2.1\% | 0.3\% | 0.0\% | 2.4\% | 5.4\% | 9.5\% | 2.7\% | 0.0\% | 25.3\% | 3.3\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 6.3\% | 2.4\% | 0.0\% | 10.1\% | 1.8\% | 28.0\% |
| 2004 | 0.0\% | 0.3\% | 0.0\% | 0.9\% | 4.0\% | 17.3\% | 11.8\% | 0.0\% | 18.6\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 6.2\% | 1.9\% | 0.0\% | 6.2\% | 3.1\% | 27.2\% |
| 2005 | 0.0\% | 0.3\% | 0.0\% | 1.2\% | 6.8\% | 23.3\% | 1.9\% | 0.0\% | 6.8\% | 0.0\% | 0.9\% | 0.0\% | 0.3\% | 0.0\% | 0.9\% | 13.7\% | 0.6\% | 0.0\% | 15.5\% | 0.0\% | 27.6\% |
| 2006 | 1.1\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 21.2\% | 10.3\% | 0.0\% | 12.8\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.7\% | 4.8\% | 4.0\% | 0.0\% | 13.6\% | 0.0\% | 28.6\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.8\% | 1.3\% | 0.0\% | 3.9\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 6.5\% | 0.0\% | 0.0\% | 11.7\% | 0.0\% | 67.5\% |
| 1983-2007 | 0.6\% | 0.1\% | 0.0\% | 0.3\% | 1.5\% | 7.0\% | 2.6\% | 3.2\% | 25.7\% | 0.4\% | 2.5\% | 0.0\% | 0.6\% | 0.0\% | 0.2\% | 4.7\% | 1.5\% | 0.0\% | 8.3\% | 2.8\% | 38.0\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.7\% | 5.0\% | 0.9\% | 9.6\% | 39.5\% | 0.6\% | 7.1\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 2.5\% | 1.0\% | 0.0\% | 3.1\% | 1.6\% | 27.7\% |
| 1996-1998 | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.9\% | 1.1\% | 0.0\% | 24.9\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 1.9\% | 0.0\% | 9.7\% | 3.7\% | 53.3\% |
| 1999-2007 | 0.6\% | 0.1\% | 0.0\% | 0.6\% | 2.4\% | 10.3\% | 4.3\% | 0.0\% | 16.8\% | 0.4\% | 0.2\% | 0.0\% | 0.8\% | 0.0\% | 0.3\% | 6.9\% | 1.6\% | 0.0\% | 11.3\% | 3.4\% | 39.9\% |

## 

| Catch <br> Year | SEAK |  |  | AABM |  |  |  |  |  |  |  |  |  | ISBM |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.6\% | 2.8\% | 0.1\% | 17.3\% | 40.2\% | 1.4\% | 13.5\% | 0.0\% | 0.8\% | 0.0\% | 0.2\% | 4.5\% | 2.5\% | 0.0\% | 1.0\% | 1.5\% | 13.4\% |
| 1991 | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 1.5\% | 4.5\% | 0.7\% | 10.3\% | 53.3\% | 0.4\% | 4.8\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 3.8\% | 1.0\% | 0.0\% | 0.8\% | 0.8\% | 16.9\% |
| 1992 | 0.1\% | 0.1\% | 0.0\% | 0.4\% | 0.9\% | 9.6\% | 1.2\% | 20.1\% | 45.4\% | 1.1\% | 4.6\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 1.4\% | 1.4\% | 0.0\% | 1.5\% | 0.5\% | 11.4\% |
| 1993 | 0.3\% | 0.0\% | 0.0\% | 0.1\% | 1.3\% | 8.1\% | 1.4\% | 12.4\% | 49.9\% | 0.5\% | 3.4\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.9\% | 0.5\% | 0.0\% | 2.2\% | 0.7\% | 17.6\% |
| 1994 | 0.6\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 4.2\% | 0.8\% | 5.2\% | 33.5\% | 0.2\% | 8.3\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 4.4\% | 0.6\% | 0.0\% | 7.7\% | 2.5\% | 31.2\% |
| 1995 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 0.6\% | 0.0\% | 33.0\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 1.1\% | 0.0\% | 3.3\% | 4.2\% | 46.1\% |
| 1996 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 1.0\% | 0.0\% | 42.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 4.9\% | 0.0\% | 10.0\% | 2.4\% | 37.0\% |
| 1997 | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 2.9\% | 0.9\% | 0.0\% | 22.2\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 3.5\% | 0.0\% | 0.8\% | 2.6\% | 60.2\% |
| 1998 | 4.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.4\% | 1.5\% | 0.0\% | 20.4\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 17.1\% | 7.5\% | 44.4\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 4.1\% | 0.0\% | 37.6\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.6\% | 8.9\% | 0.0\% | 0.0\% | 4.1\% | 5.5\% | 37.2\% |
| 2000 | 1.6\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 4.5\% | 0.0\% | 14.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.2\% | 2.4\% | 0.0\% | 1.2\% | 7.3\% | 61.3\% |
| 2001 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 8.5\% | 0.0\% | 0.0\% | 25.7\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 12.9\% | 2.8\% | 0.0\% | 13.6\% | 2.3\% | 32.7\% |
| 2002 | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 4.1\% | 3.3\% | 2.7\% | 0.0\% | 17.4\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 3.6\% | 5.0\% | 0.0\% | 22.8\% | 12.9\% | 26.3\% |
| 2003 | 2.2\% | 0.7\% | 0.0\% | 2.5\% | 6.4\% | 8.6\% | 3.0\% | 0.0\% | 26.7\% | 4.4\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 7.7\% | 3.5\% | 0.0\% | 8.9\% | 1.7\% | 23.2\% |
| 2004 | 0.0\% | 0.8\% | 0.0\% | 0.8\% | 5.3\% | 16.0\% | 12.0\% | 0.0\% | 20.7\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 6.9\% | 2.1\% | 0.0\% | 5.9\% | 3.5\% | 23.4\% |
| 2005 | 0.0\% | 0.3\% | 0.0\% | 1.3\% | 8.5\% | 22.2\% | 2.1\% | 0.0\% | 7.4\% | 0.0\% | 1.1\% | 0.0\% | 0.3\% | 0.0\% | 0.8\% | 17.2\% | 1.1\% | 0.0\% | 14.3\% | 0.0\% | 23.5\% |
| 2006 | 1.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 20.5\% | 11.0\% | 0.0\% | 13.7\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.7\% | 4.8\% | 5.1\% | 0.0\% | 13.4\% | 0.0\% | 26.7\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.5\% | 1.3\% | 0.0\% | 5.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 7.9\% | 0.0\% | 0.0\% | 11.7\% | 0.0\% | 65.0\% |
| 1983-2007 | 0.7\% | 0.1\% | 0.0\% | 0.4\% | 1.8\% | 7.0\% | 2.7\% | 3.6\% | 28.3\% | 0.5\% | 2.4\% | 0.0\% | 0.6\% | 0.0\% | 0.2\% | 5.6\% | 2.1\% | 0.0\% | 7.8\% | 3.1\% | 33.2\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.7\% | 5.8\% | 0.8\% | 10.9\% | 42.6\% | 0.6\% | 6.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 2.9\% | 1.2\% | 0.0\% | 2.8\% | 1.7\% | 22.8\% |
| 1996-1998 | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 1.2\% | 1.1\% | 0.0\% | 28.2\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 2.8\% | 0.0\% | 9.3\% | 4.2\% | 47.2\% |
| 1999-2007 | 0.7\% | 0.2\% | 0.0\% | 0.6\% | 2.9\% | 9.8\% | 4.5\% | 0.0\% | 18.8\% | 0.5\% | 0.2\% | 0.0\% | 0.8\% | 0.0\% | 0.3\% | 8.4\% | 2.4\% | 0.0\% | 10.6\% | 3.7\% | 35.5\% |

## Appendix C.23. Percent distribution of Chilliwack River Fall reported catch among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1985 | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 0.2\% | 34.5\% | 0.0\% | 5.4\% | 22.5\% | 2.3\% | 6.7\% | 0.0\% | 4.0\% | 0.0\% | 0.4\% | 4.2\% | 3.3\% | 0.0\% | 0.0\% | 0.9\% | 14.6\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.2\% | 19.5\% | 0.0\% | 7.8\% | 19.3\% | 2.5\% | 14.1\% | 0.0\% | 2.6\% | 0.0\% | 0.2\% | 4.0\% | 5.6\% | 0.0\% | 0.0\% | 1.1\% | 22.2\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.3\% | 16.2\% | 0.5\% | 14.6\% | 19.5\% | 0.4\% | 2.6\% | 0.0\% | 3.8\% | 0.0\% | 0.2\% | 3.8\% | 2.5\% | 0.0\% | 0.0\% | 1.3\% | 33.5\% |
| 1988 | 0.4\% | 0.1\% | 0.0\% | 0.2\% | 0.0\% | 17.9\% | 0.0\% | 6.6\% | 10.6\% | 0.0\% | 2.4\% | 0.0\% | 4.2\% | 0.0\% | 0.1\% | 3.0\% | 1.7\% | 0.0\% | 0.0\% | 2.6\% | 50.3\% |
| 1989 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.5\% | 0.0\% | 1.4\% | 15.3\% | 0.0\% | 4.2\% | 0.0\% | 5.3\% | 0.0\% | 0.2\% | 3.8\% | 1.2\% | 0.0\% | 0.0\% | 0.7\% | 48.3\% |
| 1990 | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 9.5\% | 2.4\% | 3.6\% | 10.5\% | 0.2\% | 5.7\% | 0.0\% | 6.2\% | 0.0\% | 0.5\% | 12.1\% | 5.0\% | 0.0\% | 0.0\% | 1.2\% | 42.0\% |
| 1991 | 0.2\% | 0.1\% | 0.0\% | 0.4\% | 0.2\% | 18.3\% | 0.7\% | 7.8\% | 12.4\% | 0.2\% | 5.1\% | 0.0\% | 13.4\% | 0.0\% | 0.1\% | 5.3\% | 4.5\% | 0.0\% | 0.0\% | 1.7\% | 29.5\% |
| 1992 | 0.3\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 18.0\% | 0.1\% | 5.3\% | 9.6\% | 0.6\% | 1.3\% | 0.0\% | 8.3\% | 0.0\% | 0.1\% | 0.9\% | 3.2\% | 0.0\% | 0.0\% | 1.2\% | 50.7\% |
| 1993 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 11.8\% | 0.4\% | 6.6\% | 6.6\% | 0.0\% | 1.5\% | 0.0\% | 7.1\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 1.6\% | 63.0\% |
| 1994 | 0.3\% | 0.2\% | 0.0\% | 0.7\% | 0.0\% | 6.8\% | 2.4\% | 2.8\% | 5.2\% | 0.3\% | 6.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 3.7\% | 3.6\% | 0.0\% | 0.0\% | 5.5\% | 60.8\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 8.7\% | 0.5\% | 0.0\% | 5.4\% | 0.0\% | 2.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 1.1\% | 1.7\% | 0.0\% | 0.0\% | 1.1\% | 78.3\% |
| 1996 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 13.2\% | 0.0\% | 2.4\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 0.9\% | 2.8\% | 0.0\% | 0.0\% | 2.4\% | 73.0\% |
| 1997 | 0.7\% | 0.0\% | 0.0\% | 0.1\% | 0.6\% | 9.9\% | 2.0\% | 0.0\% | 12.0\% | 0.4\% | 2.5\% | 0.0\% | 4.9\% | 0.0\% | 0.1\% | 2.3\% | 3.2\% | 0.0\% | 0.0\% | 3.0\% | 58.3\% |
| 1998 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 0.3\% | 0.0\% | 2.7\% | 0.0\% | 0.5\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.3\% | 0.4\% | 0.0\% | 0.0\% | 1.2\% | 91.0\% |
| 1999 | 0.1\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 0.3\% | 1.9\% | 0.0\% | 8.7\% | 0.0\% | 0.4\% | 0.0\% | 11.6\% | 0.0\% | 0.5\% | 0.7\% | 0.4\% | 0.0\% | 0.0\% | 1.6\% | 73.5\% |
| 2000 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 5.1\% | 2.0\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.5\% | 0.4\% | 0.0\% | 0.0\% | 2.2\% | 82.1\% |
| 2001 | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.3\% | 3.3\% | 1.5\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 0.4\% | 0.9\% | 2.2\% | 0.0\% | 0.0\% | 11.2\% | 68.8\% |
| 2002 | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 8.4\% | 4.5\% | 0.0\% | 3.0\% | 0.0\% | 0.6\% | 0.0\% | 7.0\% | 0.0\% | 1.1\% | 0.3\% | 1.3\% | 0.0\% | 0.0\% | 4.7\% | 68.8\% |
| 2003 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 5.7\% | 2.3\% | 0.0\% | 2.5\% | 0.0\% | 0.3\% | 0.0\% | 7.5\% | 0.0\% | 0.4\% | 0.3\% | 0.8\% | 0.0\% | 0.0\% | 6.2\% | 73.6\% |
| 2004 | 0.1\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 5.0\% | 2.0\% | 0.0\% | 1.8\% | 0.0\% | 0.7\% | 0.0\% | 5.9\% | 0.0\% | 0.2\% | 0.1\% | 0.8\% | 0.0\% | 0.0\% | 4.4\% | 78.9\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 7.4\% | 3.8\% | 0.0\% | 3.0\% | 0.0\% | 3.1\% | 0.0\% | 3.4\% | 0.0\% | 0.8\% | 0.8\% | 0.5\% | 0.0\% | 0.0\% | 5.8\% | 71.1\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 6.9\% | 1.8\% | 0.0\% | 1.9\% | 0.0\% | 0.4\% | 0.0\% | 2.1\% | 0.0\% | 0.2\% | 0.2\% | 1.0\% | 0.0\% | 0.0\% | 4.3\% | 80.5\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 7.1\% | 2.6\% | 0.0\% | 0.8\% | 0.0\% | 2.8\% | 0.0\% | 2.0\% | 0.0\% | 0.1\% | 0.4\% | 0.4\% | 0.0\% | 0.2\% | 5.8\% | 77.3\% |
| 1983-2007 | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 10.4\% | 1.4\% | 2.7\% | 8.5\% | 0.3\% | 2.8\% | 0.0\% | 5.2\% | 0.0\% | 0.2\% | 2.2\% | 2.1\% | 0.0\% | 0.0\% | 3.1\% | 60.4\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.3\% | 0.0\% | 0.0\% | 0.3\% | 0.2\% | 16.4\% | 0.6\% | 5.6\% | 12.4\% | 0.6\% | 4.7\% | 0.0\% | 5.2\% | 0.0\% | 0.2\% | 3.8\% | 3.0\% | 0.0\% | 0.0\% | 1.7\% | 44.8\% |
| 1996-1998 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 3.4\% | 0.9\% | 0.0\% | 9.3\% | 0.1\% | 1.8\% | 0.0\% | 4.1\% | 0.0\% | 0.0\% | 1.2\% | 2.1\% | 0.0\% | 0.0\% | 2.2\% | 74.1\% |
| 1999-2007 | 0.1\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 5.5\% | 2.5\% | 0.0\% | 3.4\% | 0.0\% | 0.9\% | 0.0\% | 5.4\% | 0.0\% | 0.4\% | 0.5\% | 0.9\% | 0.0\% | 0.0\% | 5.1\% | 74.9\% |



| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | port |  |
| 1985 | 1.1\% | 0.1\% | 0.0\% | 0.4\% | 0.2\% | 34.2\% | 0.0\% | 6.2\% | 21.7\% | 2.3\% | 6.4\% | 0.0\% | 3.9\% | 0.0\% | 0.4\% | 4.9\% | 4.3\% | 0.0\% | 0.0\% | 0.9\% | 13.1\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.2\% | 20.5\% | 0.0\% | 9.5\% | 17.8\% | 2.6\% | 13.1\% | 0.0\% | 2.8\% | 0.0\% | 0.2\% | 5.0\% | 7.6\% | 0.0\% | 0.0\% | 1.0\% | 18.9\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.3\% | 19.0\% | 0.5\% | 16.0\% | 18.6\% | 0.5\% | 2.3\% | 0.0\% | 4.0\% | 0.0\% | 0.2\% | 3.9\% | 2.7\% | 0.0\% | 0.0\% | 1.2\% | 29.9\% |
| 1988 | 0.4\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 18.6\% | 0.0\% | 6.6\% | 11.1\% | 0.0\% | 2.3\% | 0.0\% | 4.3\% | 0.0\% | 0.1\% | 4.1\% | 2.8\% | 0.0\% | 0.0\% | 2.6\% | 46.7\% |
| 1989 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.0\% | 0.0\% | 1.8\% | 18.4\% | 0.0\% | 3.7\% | 0.0\% | 6.0\% | 0.0\% | 0.2\% | 3.8\% | 1.3\% | 0.0\% | 0.0\% | 0.6\% | 39.7\% |
| 1990 | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 11.3\% | 2.2\% | 3.7\% | 11.2\% | 0.1\% | 5.0\% | 0.0\% | 6.5\% | 0.0\% | 0.5\% | 16.7\% | 7.9\% | 0.0\% | 0.0\% | 1.0\% | 32.5\% |
| 1991 | 0.3\% | 0.2\% | 0.0\% | 0.4\% | 0.2\% | 20.0\% | 0.7\% | 9.3\% | 13.3\% | 0.2\% | 4.5\% | 0.0\% | 13.8\% | 0.0\% | 0.1\% | 6.0\% | 5.2\% | 0.0\% | 0.0\% | 1.6\% | 24.3\% |
| 1992 | 0.3\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 20.2\% | 0.1\% | 6.7\% | 10.4\% | 0.7\% | 1.2\% | 0.0\% | 8.7\% | 0.0\% | 0.1\% | 0.9\% | 3.5\% | 0.0\% | 0.0\% | 1.2\% | 45.6\% |
| 1993 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 13.3\% | 0.4\% | 8.2\% | 7.3\% | 0.0\% | 1.4\% | 0.0\% | 7.6\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 1.6\% | 58.6\% |
| 1994 | 0.4\% | 0.3\% | 0.0\% | 0.8\% | 0.0\% | 8.4\% | 2.7\% | 3.4\% | 6.2\% | 0.4\% | 6.6\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 5.5\% | 6.0\% | 0.0\% | 0.0\% | 5.2\% | 52.5\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 13.0\% | 0.5\% | 0.0\% | 6.4\% | 0.0\% | 2.4\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 1.4\% | 2.4\% | 0.0\% | 0.0\% | 1.1\% | 71.5\% |
| 1996 | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 2.1\% | 0.6\% | 0.0\% | 15.7\% | 0.0\% | 2.8\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 1.2\% | 4.6\% | 0.0\% | 0.0\% | 2.4\% | 66.0\% |
| 1997 | 0.8\% | 0.0\% | 0.0\% | 0.2\% | 0.8\% | 12.4\% | 1.9\% | 0.0\% | 13.7\% | 0.4\% | 2.8\% | 0.0\% | 5.4\% | 0.0\% | 0.1\% | 2.5\% | 4.0\% | 0.0\% | 0.0\% | 2.9\% | 52.0\% |
| 1998 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 0.3\% | 0.0\% | 3.2\% | 0.0\% | 0.6\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.3\% | 0.9\% | 0.0\% | 0.0\% | 1.3\% | 89.1\% |
| 1999 | 0.1\% | 0.0\% | 0.0\% | 0.1\% | 0.3\% | 0.3\% | 1.9\% | 0.0\% | 10.5\% | 0.0\% | 0.4\% | 0.0\% | 13.6\% | 0.0\% | 0.5\% | 0.7\% | 0.5\% | 0.0\% | 0.0\% | 1.7\% | 69.3\% |
| 2000 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 5.5\% | 2.4\% | 0.0\% | 4.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 0.0\% | 0.1\% | 0.8\% | 1.1\% | 0.0\% | 0.0\% | 2.3\% | 78.7\% |
| 2001 | 0.1\% | 0.2\% | 0.0\% | 0.0\% | 0.3\% | 3.5\% | 1.6\% | 0.0\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 0.0\% | 0.4\% | 1.1\% | 5.0\% | 0.0\% | 0.0\% | 11.2\% | 63.2\% |
| 2002 | 0.3\% | 0.0\% | 0.0\% | 0.1\% | 0.3\% | 8.6\% | 5.1\% | 0.0\% | 3.6\% | 0.0\% | 0.6\% | 0.0\% | 8.1\% | 0.0\% | 1.2\% | 0.4\% | 2.1\% | 0.0\% | 0.0\% | 4.8\% | 64.9\% |
| 2003 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 5.9\% | 2.8\% | 0.0\% | 2.9\% | 0.0\% | 0.3\% | 0.0\% | 8.5\% | 0.0\% | 0.5\% | 0.3\% | 1.3\% | 0.0\% | 0.0\% | 6.4\% | 70.7\% |
| 2004 | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 5.2\% | 2.3\% | 0.0\% | 2.1\% | 0.0\% | 0.7\% | 0.0\% | 6.8\% | 0.0\% | 0.2\% | 0.1\% | 1.1\% | 0.0\% | 0.0\% | 4.7\% | 76.5\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 7.5\% | 4.3\% | 0.0\% | 3.5\% | 0.0\% | 3.1\% | 0.0\% | 3.8\% | 0.0\% | 0.9\% | 0.9\% | 0.9\% | 0.0\% | 0.0\% | 6.0\% | 68.9\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 7.3\% | 2.1\% | 0.0\% | 2.3\% | 0.0\% | 0.4\% | 0.0\% | 2.7\% | 0.0\% | 0.3\% | 0.3\% | 1.8\% | 0.0\% | 0.0\% | 4.5\% | 77.9\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 8.3\% | 3.0\% | 0.0\% | 1.1\% | 0.0\% | 3.1\% | 0.0\% | 2.5\% | 0.0\% | 0.1\% | 0.7\% | 2.0\% | 0.0\% | 0.2\% | 6.0\% | 72.5\% |
| 1983-2007 | 0.3\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 11.7\% | 1.5\% | 3.1\% | 9.2\% | 0.3\% | 2.8\% | 0.0\% | 5.7\% | 0.0\% | 0.3\% | 2.7\% | 3.0\% | 0.0\% | 0.0\% | 3.1\% | 55.8\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.4\% | 0.1\% | 0.0\% | 0.3\% | 0.2\% | 18.4\% | 0.6\% | 6.5\% | 13.0\% | 0.6\% | 4.4\% | 0.0\% | 5.5\% | 0.0\% | 0.2\% | 4.7\% | 4.1\% | 0.0\% | 0.0\% | 1.6\% | 39.4\% |
| 1996-1998 | 0.5\% | 0.0\% | 0.0\% | 0.1\% | 0.3\% | 4.9\% | 0.9\% | 0.0\% | 10.9\% | 0.1\% | 2.1\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 1.4\% | 3.1\% | 0.0\% | 0.0\% | 2.2\% | 69.0\% |
| 1999-2007 | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 5.8\% | 2.8\% | 0.0\% | 4.1\% | 0.0\% | 1.0\% | 0.0\% | 6.3\% | 0.0\% | 0.5\% | 0.6\% | 1.7\% | 0.0\% | 0.0\% | 5.3\% | 71.4\% |

Appendices
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## Appendix C.25. Percent distribution of Nooksack Spring Yearling reported catch among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1996 | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 4.2\% | 0.0\% | 16.8\% | 0.0\% | 5.3\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.2\% | 6.4\% | 0.0\% | 0.1\% | 0.0\% | 63.6\% |
| 1997 | 3.5\% | 0.2\% | 0.7\% | 0.2\% | 0.2\% | 1.6\% | 2.9\% | 0.0\% | 10.3\% | 0.1\% | 0.4\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.5\% | 5.3\% | 0.0\% | 0.8\% | 0.0\% | 72.9\% |
| 1998 | 8.1\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 2.4\% | 0.0\% | 2.9\% | 0.0\% | 0.1\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 83.6\% |
| 1999 | 1.6\% | 0.9\% | 0.0\% | 0.0\% | 1.1\% | 1.1\% | 5.4\% | 0.0\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 84.4\% |
| 2000 | 4.6\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 19.5\% | 4.5\% | 0.0\% | 11.8\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 58.6\% |
| 2001 | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.9\% | 4.4\% | 0.0\% | 4.2\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.5\% | 0.7\% | 0.0\% | 0.3\% | 0.0\% | 77.5\% |
| 2002 | 5.5\% | 0.0\% | 0.5\% | 0.8\% | 1.4\% | 17.4\% | 2.1\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.4\% | 0.2\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 69.8\% |
| 2003 | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 13.6\% | 2.3\% | 0.0\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 1.8\% | 0.0\% | 1.0\% | 0.0\% | 71.1\% |
| 2004 | 1.3\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 32.2\% | 4.8\% | 0.0\% | 8.9\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 48.9\% |
| 2005 | 3.4\% | 0.1\% | 0.0\% | 0.2\% | 0.0\% | 32.0\% | 3.9\% | 0.0\% | 7.5\% | 0.0\% | 0.4\% | 0.0\% | 0.5\% | 0.0\% | 0.2\% | 0.0\% | 0.5\% | 0.0\% | 0.9\% | 0.0\% | 50.4\% |
| 2006 | 1.9\% | 0.0\% | 0.6\% | 1.2\% | 0.0\% | 32.2\% | 6.2\% | 0.0\% | 7.3\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.2\% | 2.9\% | 0.0\% | 2.3\% | 0.4\% | 43.6\% |
| 2007 | 5.4\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 24.9\% | 9.0\% | 0.0\% | 6.9\% | 0.0\% | 0.2\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 0.0\% | 0.6\% | 0.4\% | 48.1\% |
| 1983-2007 | 3.4\% | 0.1\% | 0.2\% | 0.2\% | 0.4\% | 15.5\% | 4.3\% | 0.0\% | 7.3\% | 0.0\% | 0.5\% | 0.0\% | 0.7\% | 0.0\% | 0.1\% | 0.2\% | 2.0\% | 0.0\% | 0.5\% | 0.1\% | 64.4\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1996-1998 | 4.3\% | 0.1\% | 0.2\% | 0.1\% | 0.5\% | 1.1\% | 3.2\% | 0.0\% | 10.0\% | 0.0\% | 2.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 4.1\% | 0.0\% | 0.3\% | 0.0\% | 73.4\% |
| 1999-2007 | 3.2\% | 0.1\% | 0.2\% | 0.3\% | 0.3\% | 20.3\% | 4.7\% | 0.0\% | 6.4\% | 0.0\% | 0.1\% | 0.0\% | 0.8\% | 0.0\% | 0.1\% | 0.2\% | 1.3\% | 0.0\% | 0.6\% | 0.1\% | 61.4\% |

## Appendix C.26. Percent distribution of Nooksack Spring Yearling total fishing mortalities among fisheries and escapement.

| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1996 | 3.4\% | 0.0\% | 0.2\% | 0.0\% | 1.1\% | 0.7\% | 4.2\% | 0.0\% | 18.6\% | 0.0\% | 6.3\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.2\% | 9.4\% | 0.0\% | 0.1\% | 0.0\% | 55.2\% |
| 1997 | 4.0\% | 0.4\% | 0.8\% | 0.3\% | 0.2\% | 2.0\% | 2.9\% | 0.0\% | 11.4\% | 0.0\% | 1.3\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.4\% | 6.4\% | 0.0\% | 0.8\% | 0.0\% | 68.3\% |
| 1998 | 8.8\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 2.7\% | 0.0\% | 3.3\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 81.3\% |
| 1999 | 2.0\% | 2.3\% | 0.0\% | 0.0\% | 1.3\% | 1.1\% | 5.7\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 80.7\% |
| 2000 | 5.3\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 19.9\% | 4.8\% | 0.0\% | 13.5\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 55.0\% |
| 2001 | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.1\% | 5.0\% | 0.0\% | 5.1\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.5\% | 1.6\% | 0.0\% | 0.3\% | 0.0\% | 74.4\% |
| 2002 | 6.2\% | 0.0\% | 0.5\% | 0.9\% | 1.7\% | 17.7\% | 2.3\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.5\% | 0.2\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 67.6\% |
| 2003 | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 14.2\% | 3.0\% | 0.0\% | 6.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 3.3\% | 0.0\% | 0.9\% | 0.0\% | 67.1\% |
| 2004 | 1.6\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 31.7\% | 5.4\% | 0.0\% | 10.6\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 46.0\% |
| 2005 | 3.9\% | 0.1\% | 0.0\% | 0.2\% | 0.0\% | 32.4\% | 4.4\% | 0.0\% | 8.3\% | 0.0\% | 0.5\% | 0.0\% | 0.5\% | 0.0\% | 0.2\% | 0.0\% | 0.8\% | 0.0\% | 0.8\% | 0.0\% | 47.9\% |
| 2006 | 2.3\% | 0.0\% | 0.5\% | 1.2\% | 0.0\% | 32.3\% | 6.8\% | 0.0\% | 8.6\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.2\% | 3.9\% | 0.0\% | 2.3\% | 0.4\% | 40.3\% |
| 2007 | 5.8\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 24.8\% | 9.6\% | 0.0\% | 8.0\% | 0.0\% | 0.2\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 5.2\% | 0.0\% | 0.5\% | 0.3\% | 43.8\% |
| 1983-2007 | 4.1\% | 0.3\% | 0.3\% | 0.3\% | 0.4\% | 15.7\% | 4.7\% | 0.0\% | 8.3\% | 0.0\% | 0.7\% | 0.0\% | 0.8\% | 0.0\% | 0.1\% | 0.2\% | 3.0\% | 0.0\% | 0.5\% | 0.1\% | 60.6\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1996-1998 | 5.4\% | 0.3\% | 0.3\% | 0.1\% | 0.4\% | 1.5\% | 3.3\% | 0.0\% | 11.1\% | 0.0\% | 2.6\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 5.6\% | 0.0\% | 0.3\% | 0.0\% | 68.2\% |
| 1999-2007 | 3.6\% | 0.3\% | 0.3\% | 0.3\% | 0.4\% | 20.4\% | 5.2\% | 0.0\% | 7.4\% | 0.0\% | 0.1\% | 0.0\% | 0.9\% | 0.0\% | 0.1\% | 0.2\% | 2.1\% | 0.0\% | 0.5\% | 0.1\% | 58.1\% |

## Appendix C.27. Percent distribution of Skagit Spring Fingerling reported catch among fisheries and escapement.

| Catch <br> Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  |  |  |  | /OR |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport |  |  |  | Troll | Net | Sport | Troll | Net | Sport | Net | Sport |  | Troll | Net | Sport |
| 1997 | 1.0\% | 0.0\% | 0.0\% | 0.4\% | 0.9\% | 1.4\% | 4.0\% | 0.0\% | 8.7\% | 0.6\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 7.3\% | 0.0\% | 0.6\% | 0.0\% | 72.5\% |
| 1998 | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 3.0\% | 0.0\% | 9.3\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 2.6\% | 0.0\% | 1.2\% | 0.0\% | 79.5\% |
| 1999 | 0.5\% | 0.6\% | 0.0\% | 0.2\% | 0.7\% | 0.5\% | 6.1\% | 0.0\% | 4.7\% | 0.0\% | 0.1\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.5\% | 1.7\% | 0.0\% | 1.0\% | 0.0\% | 83.2\% |
| 2000 | 1.6\% | 0.0\% | 0.4\% | 0.0\% | 0.4\% | 5.6\% | 6.2\% | 0.0\% | 9.2\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 2.5\% | 0.0\% | 0.1\% | 0.0\% | 73.9\% |
| 2001 | 1.3\% | 0.2\% | 0.3\% | 0.2\% | 1.3\% | 5.2\% | 3.8\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 4.3\% | 0.0\% | 0.5\% | 0.0\% | 77.2\% |
| 2002 | 2.5\% | 0.0\% | 0.5\% | 0.5\% | 0.9\% | 6.7\% | 4.6\% | 0.0\% | 6.8\% | 0.0\% | 0.1\% | 0.0\% | 0.3\% | 0.0\% | 0.1\% | 0.0\% | 2.5\% | 0.0\% | 0.6\% | 0.0\% | 74.0\% |
| 2003 | 2.2\% | 0.0\% | 0.9\% | 1.2\% | 1.3\% | 18.2\% | 0.7\% | 0.0\% | 5.3\% | 0.0\% | 0.1\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.1\% | 1.2\% | 0.0\% | 0.7\% | 0.0\% | 66.6\% |
| 2004 | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 11.4\% | 2.6\% | 0.0\% | 9.1\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 1.3\% | 0.0\% | 71.3\% |
| 2005 | 1.3\% | 0.1\% | 0.0\% | 0.0\% | 2.3\% | 10.9\% | 5.3\% | 0.0\% | 5.4\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 3.7\% | 70.2\% |
| 2006 | 0.4\% | 0.1\% | 0.2\% | 0.2\% | 0.5\% | 6.6\% | 2.6\% | 0.0\% | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.5\% | 2.6\% | 0.0\% | 1.0\% | 15.3\% | 63.7\% |
| 2007 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.2\% | 6.5\% | 0.0\% | 5.5\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.3\% | 2.9\% | 0.0\% | 1.4\% | 19.5\% | 53.6\% |
| 1983-2007 | 1.2\% | 0.1\% | 0.2\% | 0.3\% | 0.8\% | 6.9\% | 4.1\% | 0.0\% | 6.9\% | 0.1\% | 0.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 2.7\% | 0.0\% | 0.8\% | 3.5\% | 71.4\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1996-1998 | 1.5\% | 0.0\% | 0.0\% | 0.2\% | 1.0\% | 0.7\% | 3.5\% | 0.0\% | 9.0\% | 0.3\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 4.9\% | 0.0\% | 0.9\% | 0.0\% | 76.0\% |
| 1999-2007 | 1.1\% | 0.1\% | 0.2\% | 0.3\% | 0.8\% | 8.3\% | 4.3\% | 0.0\% | 6.4\% | 0.0\% | 0.1\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.2\% | 2.2\% | 0.0\% | 0.8\% | 4.3\% | 70.4\% |

## Appendix C.28. Percent distribution of Skagit Spring Fingerling total fishing mortalities among fisheries and escapement.

| Catch <br> Year | AABM |  |  |  |  |  |  | Geo St |  | Canada |  |  | ISBM |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  |  |  |  | IOR |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport |  |  |  | Troll | Net | Sport | Troll | Net | Sport | Net | Sport |  | Troll | Net | Sport |
| 1997 | 1.2\% | 0.0\% | 0.0\% | 0.4\% | 1.2\% | 1.6\% | 4.3\% | 0.0\% | 9.9\% | 0.5\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 8.9\% | 0.0\% | 0.5\% | 0.0\% | 67.5\% |
| 1998 | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 3.3\% | 0.0\% | 10.7\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 6.3\% | 0.0\% | 1.1\% | 0.0\% | 73.4\% |
| 1999 | 0.9\% | 1.3\% | 0.0\% | 0.2\% | 0.8\% | 0.6\% | 6.5\% | 0.0\% | 5.8\% | 0.0\% | 0.1\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.5\% | 2.8\% | 0.0\% | 1.0\% | 0.0\% | 79.1\% |
| 2000 | 2.0\% | 0.0\% | 0.6\% | 0.0\% | 0.5\% | 6.0\% | 6.7\% | 0.0\% | 10.9\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 5.0\% | 0.0\% | 0.1\% | 0.0\% | 67.8\% |
| 2001 | 1.8\% | 0.4\% | 0.4\% | 0.3\% | 1.6\% | 5.0\% | 4.1\% | 0.0\% | 6.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 9.4\% | 0.0\% | 0.5\% | 0.0\% | 70.2\% |
| 2002 | 2.8\% | 0.0\% | 0.5\% | 0.5\% | 1.1\% | 6.7\% | 5.1\% | 0.0\% | 7.7\% | 0.0\% | 0.1\% | 0.0\% | 0.3\% | 0.0\% | 0.1\% | 0.0\% | 3.7\% | 0.0\% | 0.5\% | 0.0\% | 70.8\% |
| 2003 | 2.4\% | 0.0\% | 1.0\% | 1.3\% | 1.6\% | 18.7\% | 0.8\% | 0.0\% | 6.1\% | 0.0\% | 0.1\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.1\% | 1.8\% | 0.0\% | 0.7\% | 0.0\% | 63.9\% |
| 2004 | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 11.8\% | 2.9\% | 0.0\% | 10.8\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 1.3\% | 0.0\% | 67.6\% |
| 2005 | 1.6\% | 0.2\% | 0.0\% | 0.0\% | 3.0\% | 11.2\% | 6.0\% | 0.0\% | 6.5\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.3\% | 4.0\% | 66.3\% |
| 2006 | 0.5\% | 0.1\% | 0.3\% | 0.3\% | 0.6\% | 6.9\% | 2.9\% | 0.0\% | 7.1\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.5\% | 4.2\% | 0.0\% | 1.0\% | 16.4\% | 59.2\% |
| 2007 | 0.4\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 8.9\% | 6.7\% | 0.0\% | 6.3\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.3\% | 3.6\% | 0.0\% | 1.3\% | 21.2\% | 50.3\% |
| 1983-2007 | 1.4\% | 0.2\% | 0.3\% | 0.3\% | 1.1\% | 7.0\% | 4.5\% | 0.0\% | 8.0\% | 0.0\% | 0.4\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 4.4\% | 0.0\% | 0.8\% | 3.8\% | 66.9\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1996-1998 | 1.7\% | 0.0\% | 0.0\% | 0.2\% | 1.4\% | 0.8\% | 3.8\% | 0.0\% | 10.3\% | 0.3\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 7.6\% | 0.0\% | 0.8\% | 0.0\% | 70.5\% |
| 1999-2007 | 1.4\% | 0.2\% | 0.3\% | 0.3\% | 1.0\% | 8.4\% | 4.6\% | 0.0\% | 7.5\% | 0.0\% | 0.1\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.2\% | 3.7\% | 0.0\% | 0.7\% | 4.6\% | 66.1\% |


\section*{| Appendix C.29. Percent distribution of Skagit Spring Yearling reported catch among fisheries and escapement. |
| :--- |
| ISBM |}


| Catch <br> Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1985 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 0.0\% | 0.0\% | 29.2\% | 0.0\% | 26.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.0\% | 15.8\% | 0.0\% | 0.0\% | 0.0\% | 11.7\% |
| 1986 | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.2\% | 5.7\% | 6.2\% | 35.5\% | 4.3\% | 9.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 7.6\% | 0.0\% | 0.0\% | 0.0\% | 20.4\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 4.6\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 10.2\% | 0.0\% | 12.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 24.1\% | 20.4\% | 0.0\% | 0.0\% | 0.0\% | 23.1\% |
| 1988 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 9.6\% | 0.4\% | 14.5\% | 0.0\% | 13.6\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 20.6\% | 14.5\% | 0.0\% | 0.0\% | 0.0\% | 23.2\% |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 1.8\% | 0.0\% | 17.5\% | 0.8\% | 3.4\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 12.4\% | 8.4\% | 0.0\% | 18.0\% | 0.0\% | 29.9\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 4.9\% | 8.7\% | 3.1\% | 11.0\% | 0.4\% | 5.9\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 13.5\% | 22.7\% | 0.0\% | 1.9\% | 0.0\% | 23.4\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 10.2\% | 0.0\% | 19.6\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 20.9\% | 0.0\% | 1.1\% | 0.0\% | 42.2\% |
| 1998 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 1.3\% | 7.3\% | 0.0\% | 9.1\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 17.1\% | 0.0\% | 0.7\% | 0.0\% | 57.7\% |
| 1999 | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 1.2\% | 4.5\% | 0.0\% | 7.7\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 9.0\% | 0.0\% | 1.3\% | 0.0\% | 75.2\% |
| 2000 | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 6.4\% | 2.7\% | 0.0\% | 15.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 15.6\% | 0.0\% | 0.6\% | 0.0\% | 56.9\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 2.4\% | 0.0\% | 12.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 10.8\% | 0.0\% | 2.0\% | 0.0\% | 66.4\% |
| 2002 | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 14.8\% | 0.0\% | 14.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 8.5\% | 0.0\% | 0.7\% | 0.0\% | 59.0\% |
| 2003 | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.3\% | 20.3\% | 3.9\% | 0.0\% | 9.3\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.6\% | 7.5\% | 0.0\% | 0.2\% | 0.0\% | 56.7\% |
| 2004 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 13.0\% | 3.7\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.2\% | 3.9\% | 0.0\% | 0.8\% | 0.1\% | 71.2\% |
| 2005 | 1.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 7.7\% | 5.3\% | 0.0\% | 10.4\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.1\% | 6.1\% | 0.0\% | 1.0\% | 6.5\% | 61.0\% |
| 2006 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.6\% | 6.4\% | 0.0\% | 11.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.6\% | 3.5\% | 0.0\% | 1.2\% | 27.5\% | 39.1\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 8.2\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.3\% | 1.1\% | 14.5\% | 0.0\% | 0.4\% | 23.6\% | 44.4\% |
| 1983-2007 | 0.4\% | 0.0\% | 0.0\% | 0.3\% | 0.4\% | 5.6\% | 5.6\% | 0.6\% | 13.9\% | 0.3\% | 4.4\% | 0.0\% | 1.0\% | 0.0\% | 0.1\% | 5.4\% | 12.2\% | 0.0\% | 1.8\% | 3.4\% | 44.8\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.2\% | 0.0\% | 0.0\% | 0.8\% | 0.2\% | 4.4\% | 4.3\% | 1.6\% | 19.6\% | 0.9\% | 11.8\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 14.0\% | 14.9\% | 0.0\% | 3.3\% | 0.0\% | 21.9\% |
| 1996-1998 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 1.6\% | 8.8\% | 0.0\% | 14.3\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 19.0\% | 0.0\% | 0.9\% | 0.0\% | 50.0\% |
| 1999-2007 | 0.4\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 7.2\% | 5.8\% | 0.0\% | 10.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.1\% | 0.5\% | 8.8\% | 0.0\% | 0.9\% | 6.4\% | 58.9\% |


| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1985 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.9\% | 0.0\% | 0.0\% | 29.2\% | 0.0\% | 25.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.2\% | 18.5\% | 0.0\% | 0.0\% | 0.0\% | 10.8\% |
| 1986 | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.2\% | 5.8\% | 6.2\% | 35.4\% | 4.0\% | 9.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 9.3\% | 0.0\% | 0.0\% | 0.0\% | 19.0\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 4.9\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 7.4\% | 0.0\% | 9.2\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 19.0\% | 39.9\% | 0.0\% | 0.0\% | 0.0\% | 15.3\% |
| 1988 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 9.3\% | 0.5\% | 17.1\% | 0.0\% | 12.6\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 19.5\% | 16.2\% | 0.0\% | 0.0\% | 0.0\% | 20.3\% |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 1.9\% | 0.0\% | 19.5\% | 0.8\% | 3.4\% | 0.0\% | 4.7\% | 0.0\% | 0.0\% | 11.5\% | 10.4\% | 0.0\% | 16.7\% | 0.0\% | 26.9\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 5.1\% | 8.6\% | 3.3\% | 11.5\% | 0.4\% | 5.6\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 12.9\% | 24.3\% | 0.0\% | 1.8\% | 0.0\% | 21.7\% |
| 1997 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 2.6\% | 9.1\% | 0.0\% | 19.5\% | 0.0\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 31.2\% | 0.0\% | 0.8\% | 0.0\% | 31.4\% |
| 1998 | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 1.2\% | 7.2\% | 0.0\% | 10.1\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 21.1\% | 0.0\% | 0.7\% | 0.0\% | 52.4\% |
| 1999 | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 1.2\% | 4.6\% | 0.0\% | 8.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 12.6\% | 0.0\% | 1.2\% | 0.0\% | 71.2\% |
| 2000 | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 6.0\% | 2.8\% | 0.0\% | 16.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 20.0\% | 0.0\% | 0.5\% | 0.0\% | 52.1\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 2.2\% | 0.0\% | 11.8\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 26.1\% | 0.0\% | 1.6\% | 0.0\% | 52.9\% |
| 2002 | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 15.5\% | 0.0\% | 16.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 13.3\% | 0.0\% | 0.6\% | 0.0\% | 51.8\% |
| 2003 | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.4\% | 19.9\% | 4.7\% | 0.0\% | 10.5\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.5\% | 10.2\% | 0.0\% | 0.2\% | 0.0\% | 52.5\% |
| 2004 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 13.2\% | 4.1\% | 0.0\% | 6.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.2\% | 5.4\% | 0.0\% | 0.8\% | 0.1\% | 68.2\% |
| 2005 | 1.1\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 7.5\% | 5.7\% | 0.0\% | 11.7\% | 0.0\% | 0.3\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.1\% | 8.3\% | 0.0\% | 0.9\% | 6.9\% | 56.9\% |
| 2006 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.5\% | 7.0\% | 0.0\% | 12.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.5\% | 6.9\% | 0.0\% | 1.1\% | 26.9\% | 34.5\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 8.2\% | 0.0\% | 4.6\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.2\% | 1.0\% | 17.3\% | 0.0\% | 0.4\% | 24.0\% | 41.2\% |
| 1983-2007 | 0.4\% | 0.0\% | 0.0\% | 0.4\% | 0.5\% | 5.6\% | 5.7\% | 0.6\% | 14.5\% | 0.3\% | 4.1\% | 0.0\% | 1.0\% | 0.0\% | 0.1\% | 4.9\% | 17.1\% | 0.0\% | 1.6\% | 3.4\% | 39.9\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.3\% | 0.0\% | 0.0\% | 0.8\% | 0.2\% | 4.6\% | 4.3\% | 1.7\% | 20.0\% | 0.9\% | 10.9\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 12.5\% | 19.8\% | 0.0\% | 3.1\% | 0.0\% | 19.0\% |
| 1996-1998 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 1.9\% | 8.1\% | 0.0\% | 14.8\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 26.2\% | 0.0\% | 0.7\% | 0.0\% | 41.9\% |
| 1999-2007 | 0.5\% | 0.0\% | 0.0\% | 0.1\% | 0.3\% | 7.0\% | 6.1\% | 0.0\% | 10.8\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.1\% | 0.4\% | 13.3\% | 0.0\% | 0.8\% | 6.4\% | 53.5\% |

## Appendix C.31. Percent distribution of So. Puget Sound Fall Yearling reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1982 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 3.2\% | 2.5\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 12.0\% | 66.1\% | 0.0\% | 2.5\% | 1.4\% | 8.5\% |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% | 0.0\% | 0.0\% | 0.5\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.9\% | 76.2\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.3\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.8\% | 43.3\% | 0.0\% | 0.8\% | 0.0\% | 14.2\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.6\% | 0.0\% | 1.4\% | 0.0\% | 0.1\% | 33.1\% | 52.4\% | 0.0\% | 0.3\% | 0.6\% | 11.0\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.6\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 12.6\% | 57.2\% | 0.0\% | 0.2\% | 0.4\% | 19.6\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.6\% | 1.2\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 4.6\% | 0.0\% | 0.8\% | 27.4\% | 48.4\% | 0.0\% | 1.0\% | 0.0\% | 11.2\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 10.9\% | 52.5\% | 0.0\% | 0.0\% | 3.0\% | 29.4\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.7\% | 0.0\% | 0.5\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.5\% | 61.3\% | 0.0\% | 0.0\% | 0.0\% | 17.8\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.4\% | 2.0\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 10.0\% | 66.8\% | 0.0\% | 0.4\% | 1.5\% | 10.0\% |
| 1996 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 2.9\% | 88.7\% | 0.0\% | 0.3\% | 0.6\% | 3.3\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.4\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 2.3\% | 4.0\% | 64.3\% | 0.0\% | 0.0\% | 0.0\% | 25.2\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 2.2\% | 82.2\% | 0.0\% | 3.3\% | 0.0\% | 10.0\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.4\% | 0.0\% | 0.0\% | 0.0\% | 7.7\% | 0.0\% | 0.0\% | 2.6\% | 69.2\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 0.0\% | 0.0\% | 12.0\% | 70.7\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 74.6\% | 0.0\% | 0.0\% | 0.0\% | 17.9\% |
| 2002 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.3\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% |
| 2004 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 10.7\% | 0.0\% | 0.0\% | 0.0\% | 86.4\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 1.2\% | 16.1\% | 53.5\% | 0.0\% | 3.1\% | 0.0\% | 24.0\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.6\% | 4.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 21.3\% | 29.6\% | 0.0\% | 3.0\% | 0.0\% | 30.7\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 1.8\% | 14.2\% | 49.5\% | 0.0\% | 2.5\% | 0.0\% | 26.0\% |
| 1983-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.7\% | 0.0\% | 1.5\% | 0.2\% | 0.1\% | 0.0\% | 2.0\% | 0.0\% | 0.3\% | 12.0\% | 60.0\% | 0.0\% | 0.9\% | 0.4\% | 19.0\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.3\% | 0.0\% | 0.0\% | 1.8\% | 1.4\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 18.2\% | 61.9\% | 0.0\% | 1.1\% | 0.5\% | 9.5\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 0.6\% | 0.0\% | 1.0\% | 0.0\% | 0.5\% | 0.0\% | 1.9\% | 0.0\% | 0.1\% | 18.4\% | 56.4\% | 0.0\% | 0.3\% | 0.9\% | 16.5\% |
| 1996-1998 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.6\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.8\% | 3.0\% | 78.4\% | 0.0\% | 1.2\% | 0.2\% | 12.8\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 1.2\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.4\% | 8.3\% | 55.1\% | 0.0\% | 1.1\% | 0.0\% | 26.7\% |


| Catch <br> Year | AABM |  |  |  |  |  |  | Geo St |  | Canada |  |  | ISBM |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  |  |  |  | A/OR |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport |  |  |  | Troll | Net | Sport | Troll | Net | Sport | Net | Sport |  | Troll | Net | Sport |
| 1982 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 2.7\% | 2.2\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 10.8\% | 70.3\% | 0.0\% | 1.9\% | 1.1\% | 6.5\% |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 0.0\% | 0.0\% | 0.4\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 78.8\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 31.0\% | 46.5\% | 0.0\% | 0.7\% | 0.0\% | 12.9\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.5\% | 0.0\% | 1.6\% | 0.0\% | 0.1\% | 31.3\% | 54.6\% | 0.0\% | 0.3\% | 0.7\% | 9.8\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 11.3\% | 62.1\% | 0.0\% | 0.2\% | 0.3\% | 16.5\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 1.2\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 0.0\% | 0.7\% | 26.1\% | 50.9\% | 0.0\% | 0.9\% | 0.0\% | 9.6\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 7.1\% | 71.9\% | 0.0\% | 0.0\% | 1.8\% | 15.8\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.7\% | 0.0\% | 0.7\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.3\% | 65.1\% | 0.0\% | 0.0\% | 0.0\% | 14.8\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 1.6\% | 0.0\% | 2.0\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 7.9\% | 73.4\% | 0.0\% | 0.3\% | 1.3\% | 6.9\% |
| 1996 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 1.2\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 2.6\% | 89.4\% | 0.0\% | 0.2\% | 0.6\% | 2.8\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.3\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 2.1\% | 3.4\% | 69.9\% | 0.0\% | 0.0\% | 0.0\% | 20.6\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 1.7\% | 86.1\% | 0.0\% | 2.6\% | 0.0\% | 7.8\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 0.0\% | 0.0\% | 1.0\% | 84.3\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 0.0\% | 0.0\% | 9.7\% | 74.2\% | 0.0\% | 0.0\% | 0.0\% | 5.4\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 81.3\% | 0.0\% | 0.0\% | 0.0\% | 13.2\% |
| 2002 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 89.5\% | 0.0\% | 0.0\% | 0.0\% | 10.5\% |
| 2004 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 10.7\% | 41.2\% | 0.0\% | 0.4\% | 0.0\% | 44.5\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 1.3\% | 14.1\% | 60.1\% | 0.0\% | 2.6\% | 0.0\% | 19.6\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.6\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 16.4\% | 47.0\% | 0.0\% | 2.2\% | 0.0\% | 22.4\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 1.9\% | 13.1\% | 54.8\% | 0.0\% | 2.2\% | 0.0\% | 22.7\% |
| 1983-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.7\% | 0.0\% | 1.1\% | 0.2\% | 0.2\% | 0.0\% | 1.7\% | 0.0\% | 0.3\% | 11.1\% | 67.6\% | 0.0\% | 0.7\% | 0.3\% | 13.5\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 1.7\% | 1.3\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 16.9\% | 65.2\% | 0.0\% | 0.9\% | 0.4\% | 8.0\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 0.6\% | 0.0\% | 0.9\% | 0.0\% | 0.5\% | 0.0\% | 1.9\% | 0.0\% | 0.1\% | 16.5\% | 63.0\% | 0.0\% | 0.3\% | 0.7\% | 12.3\% |
| 1996-1998 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.5\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.7\% | 2.6\% | 81.8\% | 0.0\% | 1.0\% | 0.2\% | 10.4\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 1.2\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.4\% | 8.1\% | 66.6\% | 0.0\% | 0.9\% | 0.0\% | 17.5\% |

## Appendix C.33. Percent distribution of Samish Fall Fingerling reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  |  | St |  | Canada |  |  | ISBM /OR coast |  | Pug | ound |  | Termi |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.3\% | 6.8\% | 1.9\% | 0.9\% | 16.3\% | 0.2\% | 3.7\% | 0.0\% | 7.4\% | 0.0\% | 0.0\% | 36.2\% | 9.7\% | 0.0\% | 0.0\% | 0.0\% | 16.5\% |
| 1990 | 2.1\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 18.8\% | 2.0\% | 3.4\% | 9.8\% | 0.1\% | 1.5\% | 0.0\% | 9.1\% | 0.0\% | 0.1\% | 29.2\% | 7.4\% | 0.0\% | 0.3\% | 0.0\% | 15.6\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.4\% | 3.2\% | 1.7\% | 9.7\% | 0.1\% | 3.0\% | 0.0\% | 9.0\% | 0.0\% | 0.7\% | 21.7\% | 8.8\% | 0.0\% | 1.5\% | 1.3\% | 25.8\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 11.4\% | 0.9\% | 2.1\% | 12.5\% | 0.0\% | 2.3\% | 0.0\% | 10.2\% | 0.0\% | 0.7\% | 15.6\% | 15.8\% | 0.0\% | 0.0\% | 0.7\% | 27.4\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.3\% | 12.1\% | 8.5\% | 2.8\% | 16.2\% | 0.2\% | 2.8\% | 0.0\% | 3.9\% | 0.0\% | 0.1\% | 16.5\% | 12.6\% | 0.0\% | 0.0\% | 0.0\% | 23.6\% |
| 1994 | 0.2\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 12.0\% | 5.4\% | 1.2\% | 12.6\% | 0.0\% | 2.3\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 38.4\% | 3.5\% | 0.0\% | 0.0\% | 0.4\% | 21.2\% |
| 1995 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% | 3.4\% | 0.0\% | 5.1\% | 0.0\% | 1.0\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 27.2\% | 12.7\% | 0.0\% | 0.0\% | 2.3\% | 38.8\% |
| 1996 | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 10.7\% | 0.0\% | 0.5\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 33.9\% | 9.6\% | 0.0\% | 0.0\% | 14.5\% | 28.1\% |
| 1997 | 0.5\% | 0.2\% | 0.0\% | 0.3\% | 0.3\% | 2.0\% | 1.8\% | 0.0\% | 8.2\% | 0.7\% | 0.9\% | 0.0\% | 0.9\% | 0.0\% | 0.1\% | 34.5\% | 9.4\% | 0.0\% | 0.0\% | 0.3\% | 40.0\% |
| 1998 | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 1.7\% | 0.0\% | 10.9\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 44.2\% | 3.5\% | 0.0\% | 0.0\% | 0.6\% | 33.3\% |
| 1999 | 3.7\% | 0.0\% | 0.0\% | 1.2\% | 3.3\% | 1.6\% | 10.2\% | 0.0\% | 11.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 38.6\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 25.2\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.4\% | 9.8\% | 0.0\% | 6.4\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 37.5\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 33.0\% |
| 2001 | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.3\% | 5.2\% | 5.2\% | 0.0\% | 7.5\% | 0.0\% | 0.1\% | 0.0\% | 2.4\% | 0.0\% | 0.1\% | 39.2\% | 4.0\% | 0.0\% | 0.5\% | 0.0\% | 35.4\% |
| 2002 | 0.8\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 8.7\% | 6.7\% | 0.0\% | 7.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 0.6\% | 36.4\% | 4.4\% | 0.0\% | 0.3\% | 0.0\% | 31.5\% |
| 2003 | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.6\% | 2.6\% | 0.0\% | 5.1\% | 0.0\% | 0.3\% | 0.0\% | 6.2\% | 0.0\% | 0.5\% | 38.7\% | 2.2\% | 0.0\% | 0.3\% | 0.0\% | 29.8\% |
| 2004 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.7\% | 6.3\% | 0.0\% | 4.9\% | 0.0\% | 0.0\% | 0.0\% | 10.5\% | 0.0\% | 0.4\% | 30.2\% | 5.9\% | 0.0\% | 1.2\% | 0.0\% | 32.5\% |
| 2005 | 0.3\% | 0.2\% | 0.0\% | 0.3\% | 0.0\% | 11.3\% | 7.6\% | 0.0\% | 12.8\% | 0.0\% | 0.0\% | 0.0\% | 7.1\% | 0.0\% | 0.8\% | 33.9\% | 3.5\% | 0.0\% | 0.9\% | 0.0\% | 21.4\% |
| 2006 | 0.8\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 8.2\% | 5.3\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 6.0\% | 0.0\% | 1.2\% | 51.4\% | 5.9\% | 0.0\% | 0.5\% | 0.0\% | 15.1\% |
| 2007 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.4\% | 4.5\% | 0.0\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 0.3\% | 31.1\% | 3.2\% | 0.0\% | 0.6\% | 18.5\% | 23.3\% |
| 1983-2007 | 0.7\% | 0.0\% | 0.0\% | 0.2\% | 0.3\% | 8.5\% | 4.6\% | 0.6\% | 9.4\% | 0.1\% | 1.0\% | 0.0\% | 4.7\% | 0.0\% | 0.3\% | 33.4\% | 6.7\% | 0.0\% | 0.3\% | 2.0\% | 27.2\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.4\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 11.5\% | 3.6\% | 1.7\% | 11.7\% | 0.1\% | 2.4\% | 0.0\% | 6.5\% | 0.0\% | 0.2\% | 26.4\% | 10.1\% | 0.0\% | 0.3\% | 0.7\% | 24.1\% |
| 1996-1998 | 1.3\% | 0.1\% | 0.0\% | 0.1\% | 0.1\% | 1.3\% | 1.4\% | 0.0\% | 9.9\% | 0.2\% | 0.4\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 37.5\% | 7.5\% | 0.0\% | 0.0\% | 5.1\% | 33.8\% |
| 1999-2007 | 0.8\% | 0.1\% | 0.0\% | 0.3\% | 0.4\% | 8.6\% | 6.5\% | 0.0\% | 7.3\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 0.4\% | 37.4\% | 3.8\% | 0.0\% | 0.5\% | 2.1\% | 27.5\% |

## Appendix C.34. Percent distribution of Samish Fall Fingerling total fishing mortalities among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  |  | o St |  | Canada |  | WA | ISBM |  | Puge | ound |  | Termi |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1989 | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 9.1\% | 1.8\% | 1.3\% | 17.1\% | 0.2\% | 3.3\% | 0.0\% | 8.0\% | 0.0\% | 0.0\% | 33.2\% | 11.0\% | 0.0\% | 0.0\% | 0.0\% | 14.3\% |
| 1990 | 2.2\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 20.2\% | 2.0\% | 3.5\% | 10.2\% | 0.1\% | 1.5\% | 0.0\% | 9.4\% | 0.0\% | 0.1\% | 27.4\% | 8.1\% | 0.0\% | 0.3\% | 0.0\% | 14.4\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.5\% | 3.2\% | 2.0\% | 10.4\% | 0.1\% | 2.9\% | 0.0\% | 9.4\% | 0.0\% | 0.8\% | 20.4\% | 10.0\% | 0.0\% | 1.4\% | 1.3\% | 23.6\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 11.6\% | 0.8\% | 2.5\% | 12.8\% | 0.0\% | 1.9\% | 0.0\% | 9.9\% | 0.0\% | 0.7\% | 14.2\% | 22.4\% | 0.0\% | 0.0\% | 0.7\% | 21.8\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.3\% | 13.8\% | 8.0\% | 3.8\% | 17.9\% | 0.2\% | 2.5\% | 0.0\% | 4.1\% | 0.0\% | 0.1\% | 15.3\% | 13.5\% | 0.0\% | 0.0\% | 0.0\% | 20.1\% |
| 1994 | 0.5\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 13.2\% | 5.5\% | 1.4\% | 13.7\% | 0.0\% | 2.3\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 36.9\% | 4.2\% | 0.0\% | 0.0\% | 0.4\% | 19.2\% |
| 1995 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.3\% | 3.3\% | 0.0\% | 5.3\% | 0.0\% | 1.6\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 24.3\% | 20.4\% | 0.0\% | 0.0\% | 2.2\% | 32.3\% |
| 1996 | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 1.0\% | 0.7\% | 0.0\% | 11.4\% | 0.0\% | 0.6\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 32.6\% | 14.3\% | 0.0\% | 0.0\% | 14.8\% | 22.9\% |
| 1997 | 0.6\% | 0.4\% | 0.0\% | 0.4\% | 0.4\% | 2.5\% | 1.7\% | 0.0\% | 9.3\% | 0.8\% | 1.1\% | 0.0\% | 1.1\% | 0.0\% | 0.1\% | 33.6\% | 11.3\% | 0.0\% | 0.0\% | 0.4\% | 36.5\% |
| 1998 | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 1.8\% | 0.0\% | 11.9\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 43.2\% | 5.0\% | 0.0\% | 0.0\% | 0.6\% | 31.6\% |
| 1999 | 4.0\% | 0.0\% | 0.0\% | 1.5\% | 3.6\% | 1.5\% | 10.5\% | 0.0\% | 12.4\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 36.4\% | 5.8\% | 0.0\% | 0.0\% | 0.0\% | 22.5\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.4\% | 9.5\% | 0.0\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 40.2\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 25.9\% |
| 2001 | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.3\% | 4.8\% | 5.3\% | 0.0\% | 8.6\% | 0.0\% | 0.2\% | 0.0\% | 2.7\% | 0.0\% | 0.1\% | 37.7\% | 7.8\% | 0.0\% | 0.4\% | 0.0\% | 31.3\% |
| 2002 | 0.9\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 8.4\% | 7.3\% | 0.0\% | 7.6\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 0.6\% | 35.4\% | 6.1\% | 0.0\% | 0.3\% | 0.0\% | 29.7\% |
| 2003 | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.8\% | 3.1\% | 0.0\% | 5.7\% | 0.0\% | 0.3\% | 0.0\% | 6.6\% | 0.0\% | 0.5\% | 37.4\% | 3.1\% | 0.0\% | 0.3\% | 0.0\% | 28.3\% |
| 2004 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.6\% | 6.7\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 11.9\% | 0.0\% | 0.4\% | 28.8\% | 8.7\% | 0.0\% | 1.1\% | 0.0\% | 28.9\% |
| 2005 | 0.4\% | 0.1\% | 0.0\% | 0.4\% | 0.0\% | 10.9\% | 7.9\% | 0.0\% | 14.0\% | 0.0\% | 0.0\% | 0.0\% | 7.5\% | 0.0\% | 0.8\% | 32.6\% | 6.3\% | 0.0\% | 0.8\% | 0.0\% | 18.3\% |
| 2006 | 0.9\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 8.0\% | 5.6\% | 0.0\% | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 6.6\% | 0.0\% | 1.2\% | 49.6\% | 8.1\% | 0.0\% | 0.4\% | 0.0\% | 13.3\% |
| 2007 | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 4.5\% | 0.0\% | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.4\% | 30.2\% | 9.7\% | 0.0\% | 0.5\% | 17.8\% | 18.8\% |
| 1983-2007 | 0.8\% | 0.1\% | 0.0\% | 0.3\% | 0.3\% | 8.9\% | 4.7\% | 0.8\% | 10.2\% | 0.1\% | 1.0\% | 0.0\% | 4.9\% | 0.0\% | 0.3\% | 32.1\% | 9.6\% | 0.0\% | 0.3\% | 2.0\% | 23.9\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.4\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 12.8\% | 3.5\% | 2.0\% | 12.5\% | 0.1\% | 2.3\% | 0.0\% | 6.6\% | 0.0\% | 0.2\% | 24.5\% | 12.8\% | 0.0\% | 0.2\% | 0.6\% | 20.8\% |
| 1996-1998 | 1.4\% | 0.2\% | 0.0\% | 0.1\% | 0.1\% | 1.7\% | 1.4\% | 0.0\% | 10.9\% | 0.3\% | 0.6\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 36.4\% | 10.2\% | 0.0\% | 0.0\% | 5.2\% | 30.3\% |
| 1999-2007 | 0.9\% | 0.1\% | 0.0\% | 0.3\% | 0.4\% | 8.2\% | 6.7\% | 0.0\% | 8.1\% | 0.0\% | 0.1\% | 0.0\% | 4.8\% | 0.0\% | 0.4\% | 36.5\% | 6.9\% | 0.0\% | 0.4\% | 2.0\% | 24.1\% |

## Appendix C.35. Percent distribution of Skagit Summer Fingerling reported catch among fisheries and escapement.

| Catch <br> Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1998 | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 1.7\% | 2.9\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 87.3\% |
| 1999 | 7.1\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.2\% | 0.0\% | 7.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 61.9\% |
| 2000 | 5.9\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 7.8\% | 0.0\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 5.5\% | 0.0\% | 0.0\% | 0.0\% | 68.5\% |
| 2001 | 6.9\% | 1.8\% | 0.9\% | 0.0\% | 1.6\% | 7.5\% | 6.3\% | 0.0\% | 8.7\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.3\% | 1.3\% | 0.0\% | 0.5\% | 0.0\% | 64.1\% |
| 2002 | 12.6\% | 0.0\% | 0.8\% | 1.4\% | 1.6\% | 6.4\% | 1.7\% | 0.0\% | 3.9\% | 0.0\% | 0.3\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 70.2\% |
| 2003 | 6.2\% | 0.1\% | 0.0\% | 3.8\% | 3.2\% | 10.8\% | 3.7\% | 0.0\% | 6.0\% | 0.0\% | 0.1\% | 0.0\% | 0.4\% | 0.0\% | 0.4\% | 0.5\% | 0.4\% | 0.0\% | 0.2\% | 0.0\% | 64.2\% |
| 2004 | 4.9\% | 0.0\% | 0.0\% | 2.3\% | 1.2\% | 10.7\% | 1.2\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 1.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 75.8\% |
| 2005 | 7.4\% | 0.2\% | 0.4\% | 1.4\% | 3.2\% | 7.0\% | 4.0\% | 0.0\% | 1.8\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.7\% | 0.0\% | 3.8\% | 0.2\% | 69.3\% |
| 2006 | 3.1\% | 1.0\% | 0.1\% | 0.5\% | 3.6\% | 4.0\% | 3.1\% | 0.0\% | 2.0\% | 0.0\% | 0.1\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.2\% | 0.5\% | 0.0\% | 3.0\% | 0.0\% | 78.3\% |
| 2007 | 5.3\% | 0.3\% | 0.1\% | 1.0\% | 1.3\% | 8.3\% | 3.4\% | 0.0\% | 0.6\% | 0.0\% | 0.1\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.2\% | 0.3\% | 0.0\% | 2.8\% | 0.0\% | 75.5\% |
| 1983-2007 | 6.3\% | 0.7\% | 0.2\% | 1.1\% | 1.7\% | 5.9\% | 5.4\% | 0.0\% | 4.0\% | 0.0\% | 0.1\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.5\% | 1.0\% | 0.0\% | 1.2\% | 0.0\% | 71.5\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1996-1998 | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 1.7\% | 2.9\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 87.3\% |
| 1999-2007 | 6.6\% | 0.8\% | 0.3\% | 1.2\% | 1.7\% | 6.3\% | 5.7\% | 0.0\% | 4.3\% | 0.0\% | 0.1\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.5\% | 1.0\% | 0.0\% | 1.4\% | 0.0\% | 69.8\% |


| Appendix C.36. Percent distribution of Skagit Summer Fingerling total fishing mortalities among fisheries and escapement. |
| :--- |
| AABM |


| Catch Year | AABM |  |  |  |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  |  |  |  | ermin |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport |  |  |  | Troll | Net | Sport |  |  | Troll | Net | Sport | Net | Sport | Troll | Net | Sport | Esc. |
| 1998 | 3.9\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 1.7\% | 2.8\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 84.8\% |
| 1999 | 10.1\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.7\% | 0.0\% | 8.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 55.3\% |
| 2000 | 10.4\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 7.8\% | 0.0\% | 7.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 11.9\% | 0.0\% | 0.0\% | 0.0\% | 56.0\% |
| 2001 | 9.8\% | 4.4\% | 1.0\% | 0.0\% | 1.8\% | 6.9\% | 6.5\% | 0.0\% | 9.6\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 2.7\% | 0.0\% | 0.5\% | 0.0\% | 56.5\% |
| 2002 | 13.3\% | 0.0\% | 0.9\% | 1.5\% | 1.9\% | 6.3\% | 1.8\% | 0.0\% | 4.2\% | 0.0\% | 2.9\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 66.3\% |
| 2003 | 6.8\% | 0.6\% | 0.0\% | 4.2\% | 4.1\% | 10.9\% | 4.5\% | 0.0\% | 6.5\% | 0.0\% | 0.2\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.5\% | 0.5\% | 0.0\% | 0.2\% | 0.0\% | 60.5\% |
| 2004 | 5.6\% | 0.0\% | 0.0\% | 2.8\% | 1.8\% | 11.0\% | 1.4\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.9\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 73.0\% |
| 2005 | 8.8\% | 0.3\% | 0.6\% | 1.7\% | 4.1\% | 7.1\% | 4.5\% | 0.0\% | 2.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 1.1\% | 0.0\% | 3.7\% | 0.2\% | 65.3\% |
| 2006 | 3.5\% | 1.2\% | 0.2\% | 0.6\% | 4.5\% | 4.2\% | 3.5\% | 0.0\% | 2.3\% | 0.0\% | 0.1\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.2\% | 0.8\% | 0.0\% | 3.0\% | 0.0\% | 75.4\% |
| 2007 | 6.6\% | 1.1\% | 0.2\% | 1.1\% | 1.4\% | 8.2\% | 3.5\% | 0.0\% | 0.7\% | 0.0\% | 0.1\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.2\% | 0.5\% | 0.0\% | 2.8\% | 0.0\% | 72.8\% |
| 1983-2007 | 7.9\% | 1.3\% | 0.3\% | 1.2\% | 2.2\% | 6.0\% | 5.7\% | 0.0\% | 4.6\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.4\% | 2.0\% | 0.0\% | 1.2\% | 0.0\% | 66.6\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1996-1998 | 3.9\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 1.7\% | 2.8\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 84.8\% |
| 1999-2007 | 8.3\% | 1.4\% | 0.3\% | 1.3\% | 2.2\% | 6.5\% | 6.0\% | 0.0\% | 4.8\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.5\% | 2.0\% | 0.0\% | 1.3\% | 0.0\% | 64.6\% |

## Appendix C.37. Percent distribution of Stillaguamish Fall Fingerling reported catch among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | SB |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 3.6\% | 7.2\% | 0.0\% | 0.0\% | 15.7\% | 19.3\% | 26.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 19.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985 | 7.3\% | 0.0\% | 0.0\% | 4.2\% | 0.0\% | 29.2\% | 9.4\% | 0.0\% | 10.4\% | 0.0\% | 15.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.4\% | 13.5\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% |
| 1986 | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.6\% | 0.0\% | 0.0\% | 20.2\% | 0.0\% | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.9\% | 21.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1990 | 0.6\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 21.2\% | 6.5\% | 0.6\% | 9.4\% | 8.0\% | 10.9\% | 0.0\% | 5.6\% | 0.0\% | 0.0\% | 7.4\% | 13.6\% | 0.0\% | 2.1\% | 0.0\% | 13.3\% |
| 1991 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 4.7\% | 2.1\% | 0.0\% | 3.6\% | 0.0\% | 1.0\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 3.7\% | 6.5\% | 0.0\% | 1.9\% | 0.0\% | 71.7\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 18.1\% | 4.2\% | 0.0\% | 5.3\% | 0.0\% | 5.2\% | 0.0\% | 6.0\% | 0.0\% | 0.0\% | 10.2\% | 29.6\% | 0.0\% | 2.4\% | 0.0\% | 18.6\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 1.3\% | 11.3\% | 9.4\% | 0.2\% | 8.3\% | 0.4\% | 2.3\% | 0.0\% | 5.3\% | 0.0\% | 0.4\% | 0.5\% | 20.2\% | 0.0\% | 1.0\% | 0.0\% | 38.7\% |
| 1994 | 2.4\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 6.7\% | 5.3\% | 0.0\% | 7.8\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 5.8\% | 0.0\% | 0.2\% | 0.0\% | 66.7\% |
| 1995 | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 9.8\% | 0.0\% | 4.2\% | 0.0\% | 10.8\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 2.1\% | 14.0\% | 0.0\% | 0.3\% | 0.0\% | 52.9\% |
| 1996 | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 7.2\% | 0.0\% | 5.9\% | 0.0\% | 8.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.4\% | 0.0\% | 0.3\% | 0.0\% | 57.7\% |
| 1997 | 9.0\% | 0.4\% | 0.0\% | 0.5\% | 1.0\% | 6.9\% | 5.0\% | 0.0\% | 4.7\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 15.3\% | 0.0\% | 0.5\% | 0.0\% | 53.8\% |
| 1998 | 9.3\% | 0.2\% | 0.3\% | 1.0\% | 0.6\% | 1.0\% | 2.1\% | 0.0\% | 1.6\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 1.9\% | 0.0\% | 0.3\% | 0.0\% | 80.2\% |
| 1999 | 0.6\% | 1.5\% | 0.0\% | 0.0\% | 0.3\% | 1.1\% | 7.4\% | 0.0\% | 5.7\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 2.5\% | 0.0\% | 0.2\% | 0.0\% | 79.9\% |
| 2000 | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 1.2\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.1\% | 0.0\% | 86.2\% |
| 2001 | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.3\% | 4.2\% | 0.0\% | 4.6\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 1.1\% | 10.2\% | 0.0\% | 0.4\% | 0.0\% | 71.9\% |
| 2006 | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 11.2\% | 1.0\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 1.6\% | 3.2\% | 0.0\% | 0.6\% | 0.0\% | 76.0\% |
| 2007 | 0.6\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 15.6\% | 5.8\% | 0.0\% | 8.9\% | 0.0\% | 0.5\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 4.3\% | 4.9\% | 0.0\% | 0.6\% | 0.0\% | 56.6\% |
| 1983-2007 | 2.7\% | 0.2\% | 0.0\% | 0.7\% | 0.6\% | 10.6\% | 4.7\% | 0.0\% | 7.1\% | 1.6\% | 5.3\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 4.0\% | 11.8\% | 0.0\% | 0.6\% | 0.0\% | 48.5\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 3.6\% | 7.2\% | 0.0\% | 0.0\% | 15.7\% | 19.3\% | 26.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 19.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 2.2\% | 0.0\% | 0.0\% | 0.9\% | 0.2\% | 15.8\% | 5.8\% | 0.1\% | 8.7\% | 1.0\% | 6.6\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 6.5\% | 15.6\% | 0.0\% | 1.0\% | 0.0\% | 32.9\% |
| 1996-1998 | 6.4\% | 0.2\% | 0.1\% | 0.5\% | 1.0\% | 2.6\% | 4.8\% | 0.0\% | 4.1\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 11.9\% | 0.0\% | 0.4\% | 0.0\% | 63.9\% |
| 1999-2007 | 1.9\% | 0.4\% | 0.0\% | 0.0\% | 0.3\% | 7.7\% | 3.9\% | 0.0\% | 4.6\% | 0.0\% | 0.2\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 1.5\% | 4.4\% | 0.0\% | 0.4\% | 0.0\% | 74.1\% |


| Appendix C.38. Percent distribution of Stillaguamish Fall Fingerling total fishing mortalities among fisheries and escapement. |
| :--- |
| AABM |


| Catch | SEAK |  |  | AABM | C | WCVI |  | Geo St | St | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1984 | 0.9\% | 0.0\% | 0.0\% | 3.7\% | 2.8\% | 10.3\% | 0.0\% | 0.0\% | 13.1\% | 16.8\% | 21.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 26.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985 | 7.1\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 30.1\% | 8.8\% | 0.0\% | 8.8\% | 0.0\% | 13.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 17.7\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% |
| 1986 | 6.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.0\% | 0.0\% | 0.0\% | 20.6\% | 0.0\% | 4.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.5\% | 21.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1990 | 0.7\% | 0.0\% | 0.0\% | 1.0\% | 0.2\% | 21.4\% | 6.1\% | 0.7\% | 9.7\% | 7.8\% | 9.5\% | 0.0\% | 6.6\% | 0.0\% | 0.0\% | 7.1\% | 16.5\% | 0.0\% | 1.7\% | 0.0\% | 10.9\% |
| 1991 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 5.5\% | 2.3\% | 0.0\% | 4.2\% | 0.0\% | 0.9\% | 0.0\% | 4.9\% | 0.0\% | 0.0\% | 3.7\% | 8.4\% | 0.0\% | 1.9\% | 0.0\% | 67.7\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 17.9\% | 3.7\% | 0.0\% | 5.3\% | 0.0\% | 4.1\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 9.1\% | 38.9\% | 0.0\% | 1.8\% | 0.0\% | 13.2\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 1.3\% | 13.5\% | 9.1\% | 0.3\% | 9.5\% | 0.5\% | 2.2\% | 0.0\% | 5.8\% | 0.0\% | 0.3\% | 0.4\% | 21.3\% | 0.0\% | 0.9\% | 0.0\% | 34.1\% |
| 1994 | 2.9\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 7.3\% | 5.7\% | 0.0\% | 8.6\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 7.1\% | 0.0\% | 0.2\% | 0.0\% | 63.1\% |
| 1995 | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.8\% | 9.0\% | 0.0\% | 4.4\% | 0.0\% | 12.6\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 2.0\% | 24.8\% | 0.0\% | 0.2\% | 0.0\% | 40.0\% |
| 1996 | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 1.1\% | 7.0\% | 0.0\% | 6.4\% | 0.0\% | 9.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.8\% | 0.0\% | 0.2\% | 0.0\% | 48.0\% |
| 1997 | 9.7\% | 0.8\% | 0.0\% | 0.5\% | 1.3\% | 7.7\% | 4.8\% | 0.0\% | 5.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 18.3\% | 0.0\% | 0.5\% | 0.0\% | 48.4\% |
| 1998 | 10.5\% | 0.7\% | 0.4\% | 1.6\% | 0.8\% | 0.9\% | 2.3\% | 0.0\% | 1.8\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 2.9\% | 0.0\% | 0.3\% | 0.0\% | 76.2\% |
| 1999 | 0.7\% | 7.1\% | 0.0\% | 0.0\% | 0.3\% | 1.0\% | 7.5\% | 0.0\% | 6.2\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 3.5\% | 0.0\% | 0.1\% | 0.0\% | 72.9\% |
| 2000 | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 1.2\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 0.0\% | 0.1\% | 0.0\% | 84.2\% |
| 2001 | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.2\% | 4.2\% | 0.0\% | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 1.0\% | 15.9\% | 0.0\% | 0.3\% | 0.0\% | 66.6\% |
| 2006 | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 11.4\% | 1.2\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 1.7\% | 4.7\% | 0.0\% | 0.6\% | 0.0\% | 72.9\% |
| 2007 | 1.2\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 15.6\% | 6.1\% | 0.0\% | 10.5\% | 0.0\% | 0.8\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 4.4\% | 9.0\% | 0.0\% | 0.5\% | 0.0\% | 48.9\% |
| 1983-2007 | 3.1\% | 0.6\% | 0.0\% | 0.8\% | 0.5\% | 11.2\% | 4.6\% | 0.1\% | 7.3\% | 1.5\% | 4.9\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 3.7\% | 15.6\% | 0.0\% | 0.5\% | 0.0\% | 44.0\% |
| 1979-1984 | 0.9\% | 0.0\% | 0.0\% | 3.7\% | 2.8\% | 10.3\% | 0.0\% | 0.0\% | 13.1\% | 16.8\% | 21.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 26.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 2.4\% | 0.0\% | 0.0\% | 0.9\% | 0.2\% | 16.4\% | 5.6\% | 0.1\% | 8.9\% | 1.0\% | 6.1\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 6.1\% | 19.5\% | 0.0\% | 0.8\% | 0.0\% | 28.7\% |
| 1996-1998 | 7.1\% | 0.5\% | 0.1\% | 0.7\% | 1.1\% | 3.2\% | 4.7\% | 0.0\% | 4.4\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 15.6\% | 0.0\% | 0.3\% | 0.0\% | 57.5\% |
| 1999-2007 | 2.1\% | 1.6\% | 0.0\% | 0.0\% | 0.3\% | 7.8\% | 4.1\% | 0.0\% | 5.2\% | 0.0\% | 0.2\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 1.5\% | 7.1\% | 0.0\% | 0.3\% | 0.0\% | 69.1\% |

## Appendix C.39. Percent distribution of Nisqually Fall Fingerling reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  |  | o St |  | Canada |  | - | ISBM | st | Pug | oun |  | Terminal |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 14.7\% | 0.0\% | 2.5\% | 10.2\% | 0.0\% | 6.1\% | 0.0\% | 4.6\% | 0.0\% | 0.0\% | 10.2\% | 46.7\% | 0.0\% | 1.0\% | 0.0\% | 1.5\% |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 31.2\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 2.4\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 15.6\% | 21.0\% | 0.0\% | 21.0\% | 0.0\% | 5.9\% |
| 1985 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 30.3\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 6.1\% | 0.0\% | 7.6\% | 0.0\% | 0.0\% | 21.2\% | 16.7\% | 0.0\% | 10.6\% | 0.0\% | 4.5\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.7\% | 0.0\% | 0.0\% | 13.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.2\% | 14.8\% | 0.0\% | 23.5\% | 0.0\% | 19.1\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.7\% | 0.0\% | 1.3\% | 12.0\% | 2.0\% | 2.0\% | 0.0\% | 5.3\% | 0.0\% | 0.0\% | 2.0\% | 16.0\% | 0.0\% | 33.3\% | 2.7\% | 12.7\% |
| 1988 | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 2.2\% | 5.4\% | 0.0\% | 4.0\% | 13.7\% | 2.2\% | 5.4\% | 0.0\% | 8.7\% | 0.0\% | 0.0\% | 7.2\% | 10.5\% | 0.0\% | 10.1\% | 0.0\% | 30.0\% |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 4.4\% | 6.3\% | 0.0\% | 2.5\% | 0.0\% | 4.3\% | 0.0\% | 13.3\% | 2.1\% | 0.4\% | 12.4\% | 17.5\% | 0.0\% | 28.1\% | 0.4\% | 8.0\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.6\% | 5.8\% | 0.0\% | 3.1\% | 0.2\% | 0.2\% | 0.0\% | 10.2\% | 0.0\% | 0.1\% | 2.1\% | 11.7\% | 0.0\% | 35.8\% | 0.0\% | 8.2\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 8.2\% | 2.1\% | 0.0\% | 3.3\% | 0.0\% | 2.5\% | 0.0\% | 16.5\% | 0.0\% | 0.8\% | 6.6\% | 23.5\% | 0.0\% | 16.5\% | 0.0\% | 18.1\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 7.6\% | 4.2\% | 0.0\% | 2.9\% | 0.0\% | 2.9\% | 0.0\% | 7.6\% | 0.0\% | 0.0\% | 10.2\% | 16.7\% | 0.0\% | 8.1\% | 0.0\% | 39.3\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 1.9\% | 0.3\% | 3.5\% | 0.0\% | 3.2\% | 0.0\% | 2.9\% | 0.0\% | 0.7\% | 3.4\% | 18.4\% | 0.0\% | 19.0\% | 0.0\% | 34.3\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.6\% | 0.5\% | 0.0\% | 2.4\% | 0.0\% | 2.5\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 5.2\% | 19.9\% | 0.0\% | 17.0\% | 0.4\% | 46.7\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 5.4\% | 3.1\% | 0.0\% | 1.7\% | 0.0\% | 0.4\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 1.5\% | 24.4\% | 0.0\% | 30.8\% | 0.0\% | 29.6\% |
| 1996 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 3.3\% | 0.0\% | 1.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 1.6\% | 21.3\% | 0.0\% | 40.5\% | 0.0\% | 29.4\% |
| 1997 | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.6\% | 2.4\% | 4.5\% | 0.0\% | 0.6\% | 0.0\% | 0.3\% | 0.0\% | 0.8\% | 0.0\% | 1.0\% | 0.8\% | 22.1\% | 0.0\% | 18.1\% | 1.3\% | 47.0\% |
| 1998 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.5\% | 0.7\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.5\% | 11.3\% | 0.0\% | 35.9\% | 0.7\% | 47.9\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 2.7\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 0.3\% | 1.3\% | 19.0\% | 0.0\% | 42.7\% | 0.0\% | 27.8\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.9\% | 2.8\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 1.6\% | 2.6\% | 16.0\% | 0.0\% | 44.0\% | 0.0\% | 14.3\% |
| 2001 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 2.9\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 0.0\% | 0.4\% | 0.4\% | 15.4\% | 0.0\% | 29.2\% | 0.0\% | 42.6\% |
| 2002 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.9\% | 3.4\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 0.0\% | 0.6\% | 0.6\% | 7.9\% | 0.0\% | 41.2\% | 3.2\% | 32.1\% |
| 2003 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 5.5\% | 1.6\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 0.4\% | 11.2\% | 0.0\% | 43.5\% | 1.8\% | 29.9\% |
| 2004 | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 1.1\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 0.0\% | 0.6\% | 0.6\% | 8.1\% | 0.0\% | 31.2\% | 0.0\% | 44.5\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 2.0\% | 0.0\% | 3.5\% | 0.0\% | 0.3\% | 0.0\% | 3.7\% | 0.0\% | 1.9\% | 0.6\% | 5.8\% | 0.0\% | 10.4\% | 0.0\% | 66.4\% |
| 2006 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.3\% | 1.7\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 0.0\% | 0.3\% | 0.8\% | 5.7\% | 0.0\% | 39.0\% | 0.0\% | 39.5\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 10.0\% | 1.4\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 0.3\% | 0.8\% | 10.5\% | 0.0\% | 35.7\% | 0.0\% | 36.0\% |
| 1983-2007 | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 9.3\% | 2.1\% | 0.3\% | 3.7\% | 0.2\% | 1.6\% | 0.0\% | 4.8\% | 0.1\% | 0.4\% | 4.8\% | 16.5\% | 0.0\% | 26.7\% | 0.4\% | 28.6\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 23.0\% | 0.0\% | 1.3\% | 5.8\% | 0.0\% | 4.3\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 12.9\% | 33.8\% | 0.0\% | 11.0\% | 0.0\% | 3.7\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.3\% | 11.6\% | 2.4\% | 0.5\% | 5.3\% | 0.4\% | 2.8\% | 0.0\% | 6.9\% | 0.2\% | 0.2\% | 7.6\% | 17.3\% | 0.0\% | 21.2\% | 0.3\% | 22.8\% |
| 1996-1998 | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.3\% | 1.0\% | 2.1\% | 0.0\% | 1.8\% | 0.0\% | 0.5\% | 0.0\% | 1.0\% | 0.0\% | 0.3\% | 0.9\% | 18.2\% | 0.0\% | 31.5\% | 0.7\% | 41.4\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 6.4\% | 2.2\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 4.1\% | 0.0\% | 0.7\% | 0.9\% | 11.1\% | 0.0\% | 35.2\% | 0.5\% | 37.0\% |

Appendices
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| Catch <br> Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 13.9\% | 0.0\% | 1.7\% | 7.3\% | 0.0\% | 4.9\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 8.4\% | 56.8\% | 0.0\% | 1.0\% | 0.0\% | 1.0\% |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 31.1\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 2.5\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 15.2\% | 24.6\% | 0.0\% | 18.9\% | 0.0\% | 4.9\% |
| 1985 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 28.6\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 0.0\% | 7.1\% | 0.0\% | 0.0\% | 21.4\% | 21.4\% | 0.0\% | 9.5\% | 0.0\% | 3.6\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.4\% | 0.0\% | 0.0\% | 12.5\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.9\% | 19.5\% | 0.0\% | 21.9\% | 0.0\% | 17.2\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.4\% | 0.0\% | 1.1\% | 10.7\% | 2.7\% | 1.6\% | 0.0\% | 5.9\% | 0.0\% | 0.0\% | 1.6\% | 21.4\% | 0.0\% | 28.3\% | 2.1\% | 10.2\% |
| 1988 | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 2.6\% | 5.8\% | 0.0\% | 3.7\% | 15.0\% | 2.1\% | 4.5\% | 0.0\% | 8.1\% | 0.0\% | 0.0\% | 7.9\% | 19.7\% | 0.0\% | 8.1\% | 0.0\% | 21.8\% |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 5.4\% | 6.0\% | 0.0\% | 3.0\% | 0.0\% | 3.8\% | 0.0\% | 14.6\% | 2.2\% | 0.3\% | 11.7\% | 18.4\% | 0.0\% | 26.6\% | 0.4\% | 7.2\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.5\% | 5.9\% | 0.0\% | 3.2\% | 0.2\% | 0.1\% | 0.0\% | 10.5\% | 0.0\% | 0.1\% | 1.9\% | 13.0\% | 0.0\% | 33.8\% | 0.0\% | 7.6\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 9.1\% | 1.8\% | 0.0\% | 3.6\% | 0.0\% | 2.2\% | 0.0\% | 17.2\% | 0.0\% | 0.7\% | 6.2\% | 25.9\% | 0.0\% | 15.0\% | 0.0\% | 16.1\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 7.2\% | 3.7\% | 0.0\% | 2.9\% | 0.0\% | 2.1\% | 0.0\% | 7.0\% | 0.0\% | 0.0\% | 11.8\% | 28.5\% | 0.0\% | 6.6\% | 0.0\% | 29.3\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.7\% | 1.7\% | 0.4\% | 4.1\% | 0.0\% | 2.9\% | 0.0\% | 3.2\% | 0.0\% | 0.7\% | 3.8\% | 20.9\% | 0.0\% | 17.9\% | 0.0\% | 29.7\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 0.4\% | 0.0\% | 2.3\% | 0.0\% | 2.6\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 5.2\% | 38.1\% | 0.0\% | 13.0\% | 0.4\% | 33.1\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 8.0\% | 3.0\% | 0.0\% | 2.0\% | 0.0\% | 0.7\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 1.5\% | 27.7\% | 0.0\% | 28.8\% | 0.0\% | 25.8\% |
| 1996 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 1.2\% | 0.0\% | 3.6\% | 0.0\% | 1.2\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 1.5\% | 26.3\% | 0.0\% | 37.4\% | 0.0\% | 26.4\% |
| 1997 | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.8\% | 2.8\% | 4.3\% | 0.0\% | 0.7\% | 0.0\% | 0.6\% | 0.0\% | 0.8\% | 0.0\% | 1.0\% | 0.8\% | 29.6\% | 0.0\% | 16.6\% | 1.4\% | 40.2\% |
| 1998 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.4\% | 0.7\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.5\% | 25.6\% | 0.0\% | 31.1\% | 0.7\% | 38.4\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 2.7\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.3\% | 1.3\% | 23.4\% | 0.0\% | 40.8\% | 0.0\% | 24.8\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 2.7\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 1.4\% | 2.2\% | 29.2\% | 0.0\% | 36.0\% | 0.0\% | 11.4\% |
| 2001 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 2.8\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 0.0\% | 0.4\% | 0.4\% | 25.9\% | 0.0\% | 26.1\% | 0.0\% | 35.2\% |
| 2002 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% | 3.6\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 3.7\% | 0.0\% | 0.6\% | 0.6\% | 12.2\% | 0.0\% | 39.2\% | 3.4\% | 28.9\% |
| 2003 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 5.3\% | 1.9\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 4.6\% | 0.0\% | 0.0\% | 0.4\% | 15.0\% | 0.0\% | 41.6\% | 1.9\% | 27.3\% |
| 2004 | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 1.2\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 7.3\% | 0.0\% | 0.7\% | 0.7\% | 13.0\% | 0.0\% | 29.6\% | 0.0\% | 40.1\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.6\% | 2.1\% | 0.0\% | 3.9\% | 0.0\% | 0.3\% | 0.0\% | 4.2\% | 0.0\% | 2.0\% | 0.7\% | 13.0\% | 0.0\% | 9.8\% | 0.0\% | 58.4\% |
| 2006 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.3\% | 1.8\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 0.3\% | 0.8\% | 9.5\% | 0.0\% | 37.7\% | 0.0\% | 35.7\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 9.7\% | 1.4\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 0.0\% | 0.3\% | 0.8\% | 14.3\% | 0.0\% | 34.5\% | 0.0\% | 33.1\% |
| 1983-2007 | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 9.7\% | 2.1\% | 0.3\% | 3.7\% | 0.2\% | 1.4\% | 0.0\% | 5.0\% | 0.1\% | 0.4\% | 4.7\% | 22.9\% | 0.0\% | 24.4\% | 0.4\% | 24.3\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 22.5\% | 0.0\% | 0.9\% | 4.3\% | 0.0\% | 3.7\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 11.8\% | 40.7\% | 0.0\% | 9.9\% | 0.0\% | 3.0\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.4\% | 12.5\% | 2.4\% | 0.5\% | 5.4\% | 0.5\% | 2.4\% | 0.0\% | 7.0\% | 0.2\% | 0.2\% | 7.6\% | 23.1\% | 0.0\% | 19.0\% | 0.3\% | 18.3\% |
| 1996-1998 | 0.1\% | 0.2\% | 0.0\% | 0.0\% | 0.4\% | 1.3\% | 2.1\% | 0.0\% | 2.0\% | 0.0\% | 0.6\% | 0.0\% | 1.0\% | 0.0\% | 0.3\% | 0.9\% | 27.1\% | 0.0\% | 28.4\% | 0.7\% | 35.0\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 6.1\% | 2.3\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 0.7\% | 0.9\% | 17.3\% | 0.0\% | 32.8\% | 0.6\% | 32.8\% |

Appendices
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## Appendix C.41. Percent distribution of George Adams Fall Fingerling reported catch among fisheries and escapement.

| Catch <br> Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1982 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.9\% | 0.0\% | 0.3\% | 4.1\% | 0.5\% | 0.6\% | 0.0\% | 3.0\% | 0.0\% | 0.4\% | 30.4\% | 10.3\% | 0.0\% | 7.7\% | 0.0\% | 21.9\% |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.8\% | 0.5\% | 0.0\% | 3.5\% | 1.6\% | 5.7\% | 0.0\% | 0.2\% | 0.0\% | 0.9\% | 21.0\% | 24.9\% | 0.0\% | 8.7\% | 0.0\% | 17.2\% |
| 1984 | 0.0\% | 0.1\% | 0.0\% | 0.5\% | 0.4\% | 18.0\% | 0.0\% | 1.2\% | 4.5\% | 3.2\% | 1.9\% | 0.0\% | 2.2\% | 0.0\% | 0.4\% | 12.7\% | 20.2\% | 0.0\% | 18.6\% | 0.0\% | 16.0\% |
| 1989 | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 8.5\% | 1.7\% | 0.0\% | 3.8\% | 0.0\% | 4.8\% | 0.0\% | 12.9\% | 0.2\% | 0.9\% | 18.1\% | 14.8\% | 0.0\% | 20.3\% | 1.4\% | 12.2\% |
| 1990 | 0.1\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 19.3\% | 5.0\% | 0.0\% | 4.7\% | 0.3\% | 1.6\% | 0.0\% | 15.0\% | 0.0\% | 0.4\% | 11.3\% | 17.7\% | 0.0\% | 17.0\% | 0.3\% | 6.8\% |
| 1991 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.4\% | 4.5\% | 0.0\% | 2.2\% | 0.0\% | 0.4\% | 0.0\% | 8.6\% | 0.0\% | 0.0\% | 18.8\% | 17.2\% | 0.0\% | 14.5\% | 0.8\% | 14.4\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.6\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 5.7\% | 0.0\% | 20.3\% | 0.0\% | 0.0\% | 2.6\% | 39.6\% | 0.0\% | 6.8\% | 0.0\% | 7.3\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 34.2\% | 7.9\% | 0.9\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 0.0\% | 0.0\% | 4.4\% | 21.9\% | 0.0\% | 0.0\% | 0.0\% | 18.4\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.0\% | 7.0\% | 0.0\% | 0.0\% | 0.0\% | 72.1\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.8\% | 3.9\% | 0.0\% | 3.9\% | 0.0\% | 2.4\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 4.4\% | 18.5\% | 0.0\% | 0.0\% | 0.0\% | 58.0\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 0.0\% | 12.6\% | 0.0\% | 2.4\% | 0.0\% | 5.9\% | 0.0\% | 0.6\% | 0.0\% | 13.2\% | 0.0\% | 0.0\% | 0.0\% | 60.6\% |
| 1997 | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 1.5\% | 0.0\% | 3.2\% | 0.0\% | 0.3\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 0.9\% | 20.1\% | 0.0\% | 0.0\% | 0.0\% | 64.3\% |
| 1998 | 0.7\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 1.1\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 1.8\% | 7.4\% | 0.0\% | 0.0\% | 0.0\% | 86.2\% |
| 1999 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 9.0\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 4.9\% | 0.0\% | 1.3\% | 2.3\% | 9.5\% | 0.0\% | 0.6\% | 0.0\% | 68.6\% |
| 2000 | 0.4\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 19.7\% | 8.0\% | 0.0\% | 2.7\% | 0.0\% | 0.1\% | 0.0\% | 3.6\% | 0.0\% | 0.0\% | 0.4\% | 6.1\% | 0.0\% | 0.0\% | 12.0\% | 46.8\% |
| 2001 | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 12.5\% | 2.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 6.4\% | 0.0\% | 1.0\% | 5.6\% | 8.4\% | 0.0\% | 5.4\% | 0.5\% | 54.7\% |
| 2002 | 1.5\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 11.2\% | 10.2\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 4.1\% | 0.0\% | 1.0\% | 7.2\% | 4.7\% | 0.0\% | 3.9\% | 9.4\% | 44.1\% |
| 2003 | 0.5\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 11.7\% | 2.0\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 6.4\% | 0.0\% | 0.2\% | 4.2\% | 6.1\% | 0.0\% | 6.3\% | 11.9\% | 47.8\% |
| 2004 | 0.5\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 14.7\% | 3.0\% | 0.2\% | 2.3\% | 0.0\% | 0.3\% | 0.0\% | 6.1\% | 0.0\% | 0.5\% | 7.2\% | 5.4\% | 0.0\% | 4.6\% | 1.1\% | 53.8\% |
| 2005 | 0.3\% | 0.0\% | 0.0\% | 0.1\% | 0.8\% | 11.9\% | 8.5\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% | 0.0\% | 1.3\% | 2.6\% | 6.4\% | 0.0\% | 2.9\% | 6.2\% | 46.5\% |
| 2006 | 0.4\% | 0.2\% | 0.0\% | 0.7\% | 0.0\% | 12.2\% | 1.8\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 0.0\% | 0.4\% | 7.6\% | 8.4\% | 0.0\% | 6.2\% | 1.3\% | 51.2\% |
| 2007 | 0.2\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 10.0\% | 1.6\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 0.0\% | 0.2\% | 2.5\% | 11.1\% | 0.0\% | 10.4\% | 11.1\% | 46.7\% |
| 1983-2007 | 0.4\% | 0.1\% | 0.0\% | 0.1\% | 0.1\% | 12.2\% | 3.5\% | 0.4\% | 3.4\% | 0.3\% | 1.2\% | 0.0\% | 5.9\% | 0.0\% | 0.4\% | 8.2\% | 13.6\% | 0.0\% | 6.1\% | 2.5\% | 41.6\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.1\% | 18.2\% | 0.2\% | 0.5\% | 4.0\% | 1.7\% | 2.8\% | 0.0\% | 1.8\% | 0.0\% | 0.6\% | 21.4\% | 18.5\% | 0.0\% | 11.7\% | 0.0\% | 18.3\% |
| 1985-1995 | 0.1\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 14.8\% | 3.3\% | 1.1\% | 2.9\% | 0.0\% | 2.1\% | 0.0\% | 9.5\% | 0.0\% | 0.2\% | 10.5\% | 19.5\% | 0.0\% | 8.4\% | 0.4\% | 27.0\% |
| 1996-1998 | 0.9\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 2.4\% | 0.0\% | 5.5\% | 0.0\% | 0.9\% | 0.0\% | 3.6\% | 0.0\% | 0.2\% | 0.9\% | 13.6\% | 0.0\% | 0.0\% | 0.0\% | 70.4\% |
| 1999-2007 | 0.5\% | 0.1\% | 0.0\% | 0.2\% | 0.1\% | 11.6\% | 5.1\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 5.2\% | 0.0\% | 0.7\% | 4.4\% | 7.3\% | 0.0\% | 4.5\% | 5.9\% | 51.1\% |


| Catch <br> Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1982 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.7\% | 0.0\% | 0.2\% | 4.1\% | 0.6\% | 0.8\% | 0.0\% | 2.9\% | 0.0\% | 0.5\% | 29.2\% | 12.3\% | 0.0\% | 7.5\% | 0.0\% | 20.3\% |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.7\% | 0.3\% | 0.0\% | 2.4\% | 1.2\% | 4.2\% | 0.0\% | 0.1\% | 0.0\% | 0.6\% | 19.7\% | 41.7\% | 0.0\% | 6.0\% | 0.0\% | 11.0\% |
| 1984 | 0.0\% | 0.1\% | 0.0\% | 0.6\% | 0.5\% | 18.1\% | 0.0\% | 1.2\% | 4.4\% | 3.2\% | 1.8\% | 0.0\% | 2.3\% | 0.0\% | 0.4\% | 12.9\% | 22.1\% | 0.0\% | 17.8\% | 0.0\% | 14.6\% |
| 1989 | 0.0\% | 0.7\% | 0.0\% | 0.1\% | 0.0\% | 10.2\% | 1.8\% | 0.0\% | 3.9\% | 0.1\% | 4.4\% | 0.0\% | 13.1\% | 0.2\% | 0.8\% | 17.5\% | 17.7\% | 0.0\% | 17.9\% | 1.4\% | 10.3\% |
| 1990 | 0.8\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 21.2\% | 4.6\% | 0.0\% | 4.9\% | 0.4\% | 1.5\% | 0.0\% | 15.5\% | 0.0\% | 0.4\% | 10.5\% | 18.1\% | 0.0\% | 15.4\% | 0.3\% | 5.9\% |
| 1991 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.4\% | 4.5\% | 0.0\% | 2.3\% | 0.0\% | 0.4\% | 0.0\% | 8.7\% | 0.0\% | 0.0\% | 17.9\% | 18.8\% | 0.0\% | 13.7\% | 0.9\% | 13.3\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.6\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 5.1\% | 0.0\% | 20.3\% | 0.0\% | 0.0\% | 2.3\% | 41.5\% | 0.0\% | 6.0\% | 0.0\% | 6.5\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 34.1\% | 7.4\% | 1.5\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 8.1\% | 0.0\% | 0.0\% | 4.4\% | 25.2\% | 0.0\% | 0.0\% | 0.0\% | 15.6\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 10.4\% | 0.0\% | 0.0\% | 0.0\% | 64.6\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.6\% | 3.8\% | 0.0\% | 4.2\% | 0.0\% | 3.5\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 4.2\% | 28.1\% | 0.0\% | 0.0\% | 0.0\% | 45.8\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 4.6\% | 0.0\% | 14.3\% | 0.0\% | 2.7\% | 0.0\% | 5.7\% | 0.0\% | 0.5\% | 0.0\% | 15.4\% | 0.0\% | 0.0\% | 0.0\% | 55.5\% |
| 1997 | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 1.3\% | 0.0\% | 3.2\% | 0.0\% | 0.5\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 0.8\% | 25.7\% | 0.0\% | 0.0\% | 0.0\% | 58.3\% |
| 1998 | 0.7\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 1.2\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 2.0\% | 26.8\% | 0.0\% | 0.0\% | 0.0\% | 65.9\% |
| 1999 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 9.2\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% | 0.0\% | 1.5\% | 2.2\% | 12.7\% | 0.0\% | 0.6\% | 0.0\% | 63.6\% |
| 2000 | 0.4\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 19.2\% | 8.3\% | 0.0\% | 2.9\% | 0.0\% | 0.2\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 0.3\% | 12.0\% | 0.0\% | 0.0\% | 12.0\% | 40.7\% |
| 2001 | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 11.8\% | 2.1\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% | 0.0\% | 1.0\% | 5.5\% | 15.3\% | 0.0\% | 5.0\% | 0.6\% | 47.9\% |
| 2002 | 1.7\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 11.0\% | 11.1\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 1.0\% | 7.0\% | 7.0\% | 0.0\% | 3.6\% | 9.8\% | 40.3\% |
| 2003 | 0.6\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 11.5\% | 2.3\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 6.9\% | 0.0\% | 0.2\% | 4.1\% | 9.0\% | 0.0\% | 6.0\% | 12.4\% | 43.5\% |
| 2004 | 0.6\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 14.5\% | 3.3\% | 0.1\% | 2.5\% | 0.0\% | 0.6\% | 0.0\% | 6.7\% | 0.0\% | 0.6\% | 7.6\% | 8.5\% | 0.0\% | 4.5\% | 1.2\% | 48.6\% |
| 2005 | 0.3\% | 0.0\% | 0.0\% | 0.1\% | 0.9\% | 11.4\% | 8.9\% | 0.0\% | 6.5\% | 0.0\% | 0.0\% | 0.0\% | 7.4\% | 0.0\% | 1.3\% | 2.6\% | 9.6\% | 0.0\% | 2.7\% | 6.8\% | 41.4\% |
| 2006 | 0.4\% | 0.2\% | 0.0\% | 0.8\% | 0.0\% | 12.0\% | 2.0\% | 0.0\% | 5.0\% | 0.0\% | 0.0\% | 0.0\% | 5.6\% | 0.0\% | 0.4\% | 7.7\% | 12.2\% | 0.0\% | 6.0\% | 1.4\% | 46.2\% |
| 2007 | 0.2\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 9.0\% | 1.6\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 0.0\% | 0.1\% | 2.5\% | 23.8\% | 0.0\% | 8.7\% | 10.6\% | 36.9\% |
| 1983-2007 | 0.4\% | 0.2\% | 0.0\% | 0.2\% | 0.1\% | 12.3\% | 3.6\% | 0.5\% | 3.6\% | 0.2\% | 1.2\% | 0.0\% | 6.0\% | 0.0\% | 0.4\% | 8.1\% | 18.8\% | 0.0\% | 5.5\% | 2.6\% | 36.2\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 17.5\% | 0.1\% | 0.5\% | 3.6\% | 1.7\% | 2.3\% | 0.0\% | 1.8\% | 0.0\% | 0.5\% | 20.6\% | 25.4\% | 0.0\% | 10.4\% | 0.0\% | 15.3\% |
| 1985-1995 | 0.1\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 15.9\% | 3.2\% | 1.4\% | 3.0\% | 0.1\% | 2.1\% | 0.0\% | 9.5\% | 0.0\% | 0.2\% | 10.5\% | 22.8\% | 0.0\% | 7.6\% | 0.4\% | 23.1\% |
| 1996-1998 | 0.9\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 2.4\% | 0.0\% | 6.1\% | 0.0\% | 1.1\% | 0.0\% | 3.5\% | 0.0\% | 0.2\% | 0.9\% | 22.6\% | 0.0\% | 0.0\% | 0.0\% | 59.9\% |
| 1999-2007 | 0.6\% | 0.2\% | 0.0\% | 0.3\% | 0.2\% | 11.3\% | 5.4\% | 0.0\% | 3.3\% | 0.0\% | 0.1\% | 0.0\% | 5.6\% | 0.0\% | 0.7\% | 4.4\% | 12.2\% | 0.0\% | 4.1\% | 6.1\% | 45.4\% |


| Appendix C.43. Percent distribution of So. Puget Sound Fall Fingerling reported catch among fisheries and escapement. |
| :--- |
| AABM |


| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1982 | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 22.4\% | 0.1\% | 2.4\% | 11.5\% | 0.8\% | 2.0\% | 0.0\% | 2.8\% | 0.0\% | 0.1\% | 17.9\% | 21.4\% | 0.0\% | 7.1\% | 0.0\% | 10.9\% |
| 1983 | 0.1\% | 0.0\% | 0.0\% | 0.7\% | 0.1\% | 18.2\% | 0.3\% | 0.3\% | 4.1\% | 1.8\% | 3.2\% | 0.0\% | 1.6\% | 0.0\% | 0.1\% | 20.5\% | 28.0\% | 0.0\% | 6.7\% | 0.2\% | 14.2\% |
| 1984 | 0.1\% | 0.2\% | 0.0\% | 0.7\% | 0.1\% | 20.9\% | 0.3\% | 1.3\% | 7.3\% | 1.4\% | 1.2\% | 0.0\% | 1.4\% | 0.0\% | 0.1\% | 15.2\% | 22.1\% | 0.0\% | 9.3\% | 0.2\% | 18.4\% |
| 1985 | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 18.6\% | 0.8\% | 0.4\% | 5.9\% | 0.3\% | 2.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 17.6\% | 18.2\% | 0.0\% | 11.7\% | 0.0\% | 21.6\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.0\% | 0.0\% | 0.0\% | 7.5\% | 0.0\% | 2.9\% | 0.0\% | 4.0\% | 0.0\% | 1.3\% | 9.8\% | 21.0\% | 0.0\% | 0.8\% | 0.0\% | 33.8\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.7\% | 0.0\% | 0.0\% | 12.7\% | 0.0\% | 3.9\% | 0.0\% | 7.2\% | 0.5\% | 0.2\% | 13.4\% | 10.6\% | 0.0\% | 0.0\% | 0.0\% | 38.8\% |
| 1988 | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 0.5\% | 5.5\% | 4.2\% | 0.2\% | 7.3\% | 0.5\% | 4.6\% | 0.0\% | 7.1\% | 0.0\% | 0.6\% | 25.2\% | 14.1\% | 0.0\% | 1.2\% | 0.0\% | 28.7\% |
| 1989 | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 7.4\% | 2.5\% | 0.2\% | 4.3\% | 0.3\% | 4.0\% | 0.0\% | 11.0\% | 0.0\% | 0.4\% | 15.3\% | 15.7\% | 0.0\% | 6.1\% | 0.0\% | 32.3\% |
| 1990 | 0.0\% | 0.0\% | 0.1\% | 0.3\% | 0.0\% | 22.7\% | 4.3\% | 0.3\% | 3.4\% | 0.3\% | 1.2\% | 0.0\% | 9.0\% | 0.0\% | 0.4\% | 14.0\% | 11.6\% | 0.0\% | 9.7\% | 0.4\% | 22.4\% |
| 1991 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.2\% | 2.6\% | 0.1\% | 1.7\% | 0.1\% | 1.0\% | 0.0\% | 11.6\% | 0.0\% | 0.3\% | 11.8\% | 12.6\% | 0.0\% | 14.7\% | 0.2\% | 27.5\% |
| 1992 | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 17.2\% | 2.2\% | 0.3\% | 3.4\% | 0.9\% | 3.1\% | 0.0\% | 9.1\% | 0.0\% | 0.7\% | 14.1\% | 17.4\% | 0.0\% | 9.6\% | 0.0\% | 21.5\% |
| 1993 | 0.2\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 15.6\% | 4.6\% | 0.7\% | 3.1\% | 0.1\% | 2.9\% | 0.0\% | 5.5\% | 0.0\% | 0.2\% | 8.3\% | 20.8\% | 0.0\% | 7.5\% | 0.0\% | 30.4\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 9.1\% | 1.3\% | 0.0\% | 3.0\% | 0.0\% | 4.3\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 11.3\% | 9.5\% | 0.0\% | 5.0\% | 0.3\% | 55.1\% |
| 1995 | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 3.7\% | 1.1\% | 0.0\% | 1.8\% | 0.0\% | 1.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 4.6\% | 11.7\% | 0.0\% | 1.0\% | 0.0\% | 73.4\% |
| 1996 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 1.8\% | 0.0\% | 4.1\% | 0.0\% | 0.4\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 3.7\% | 14.8\% | 0.0\% | 2.6\% | 0.0\% | 69.4\% |
| 1997 | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 5.2\% | 1.5\% | 0.0\% | 1.8\% | 0.0\% | 0.6\% | 0.0\% | 1.6\% | 0.0\% | 0.1\% | 2.2\% | 12.9\% | 0.0\% | 0.7\% | 0.2\% | 72.5\% |
| 1998 | 1.3\% | 0.0\% | 0.0\% | 0.9\% | 0.2\% | 0.5\% | 0.8\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 4.2\% | 5.8\% | 0.0\% | 3.8\% | 0.5\% | 79.3\% |
| 1999 | 0.5\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.7\% | 4.0\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 0.3\% | 4.5\% | 4.8\% | 0.0\% | 4.7\% | 0.0\% | 74.8\% |
| 2000 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.1\% | 3.8\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 6.3\% | 6.4\% | 0.0\% | 5.9\% | 0.0\% | 65.7\% |
| 2001 | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 8.1\% | 3.2\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 0.0\% | 0.4\% | 4.2\% | 8.7\% | 0.0\% | 7.2\% | 0.0\% | 60.6\% |
| 2002 | 0.7\% | 0.0\% | 0.0\% | 0.7\% | 0.3\% | 12.7\% | 3.1\% | 0.0\% | 4.3\% | 0.0\% | 0.1\% | 0.0\% | 4.0\% | 0.0\% | 0.5\% | 3.6\% | 6.3\% | 0.0\% | 14.4\% | 0.0\% | 49.4\% |
| 2003 | 0.6\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 14.2\% | 3.7\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 4.9\% | 0.0\% | 0.4\% | 7.0\% | 9.5\% | 0.0\% | 7.5\% | 0.0\% | 47.6\% |
| 2004 | 0.4\% | 0.1\% | 0.0\% | 0.6\% | 0.2\% | 17.8\% | 4.2\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 9.7\% | 0.0\% | 1.4\% | 8.1\% | 9.1\% | 0.0\% | 6.4\% | 0.0\% | 39.4\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.3\% | 13.5\% | 4.5\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 5.6\% | 0.0\% | 1.2\% | 4.1\% | 6.1\% | 0.0\% | 1.8\% | 0.0\% | 58.7\% |
| 2006 | 0.3\% | 0.0\% | 0.1\% | 0.5\% | 0.4\% | 12.2\% | 2.6\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 6.1\% | 0.0\% | 0.5\% | 6.3\% | 6.5\% | 0.0\% | 7.8\% | 0.0\% | 54.7\% |
| 2007 | 0.2\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 11.7\% | 4.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 0.0\% | 0.2\% | 3.2\% | 10.0\% | 0.0\% | 12.5\% | 0.2\% | 51.3\% |
| 1983-2007 | 0.3\% | 0.0\% | 0.0\% | 0.3\% | 0.1\% | 12.1\% | 2.4\% | 0.2\% | 4.2\% | 0.3\% | 1.5\% | 0.0\% | 4.7\% | 0.0\% | 0.4\% | 9.9\% | 12.9\% | 0.0\% | 6.4\% | 0.1\% | 44.3\% |
| 1979-1984 | 0.2\% | 0.1\% | 0.0\% | 0.5\% | 0.1\% | 20.5\% | 0.2\% | 1.3\% | 7.6\% | 1.3\% | 2.1\% | 0.0\% | 2.0\% | 0.0\% | 0.1\% | 17.9\% | 23.8\% | 0.0\% | 7.7\% | 0.1\% | 14.5\% |
| 1985-1995 | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 13.3\% | 2.1\% | 0.2\% | 4.9\% | 0.2\% | 2.8\% | 0.0\% | 6.2\% | 0.0\% | 0.4\% | 13.2\% | 14.8\% | 0.0\% | 6.1\% | 0.1\% | 35.0\% |
| 1996-1998 | 0.6\% | 0.0\% | 0.0\% | 0.4\% | 0.1\% | 1.9\% | 1.4\% | 0.0\% | 2.5\% | 0.0\% | 0.3\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 3.4\% | 11.2\% | 0.0\% | 2.4\% | 0.2\% | 73.7\% |
| 1999-2007 | 0.4\% | 0.0\% | 0.0\% | 0.4\% | 0.2\% | 11.1\% | 3.7\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 0.0\% | 0.6\% | 5.2\% | 7.5\% | 0.0\% | 7.6\% | 0.0\% | 55.8\% |

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Appendix C.44. Percent distribution of So. Puget Sound Fall Fingerling total fishing mortalities among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1982 | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.1\% | 24.1\% | 0.1\% | 2.1\% | 10.5\% | 1.0\% | 1.8\% | 0.0\% | 2.8\% | 0.0\% | 0.1\% | 16.9\% | 24.1\% | 0.0\% | 6.4\% | 0.0\% | 9.3\% |
| 1983 | 0.1\% | 0.0\% | 0.0\% | 0.7\% | 0.1\% | 17.7\% | 0.2\% | 0.2\% | 3.5\% | 1.8\% | 2.8\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 19.5\% | 34.9\% | 0.0\% | 5.6\% | 0.2\% | 11.1\% |
| 1984 | 0.1\% | 0.2\% | 0.0\% | 0.7\% | 0.1\% | 21.1\% | 0.3\% | 1.3\% | 7.1\% | 1.4\% | 1.1\% | 0.0\% | 1.5\% | 0.0\% | 0.1\% | 14.7\% | 24.3\% | 0.0\% | 9.0\% | 0.2\% | 16.8\% |
| 1985 | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 18.5\% | 0.9\% | 0.3\% | 5.9\% | 0.3\% | 1.9\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 17.4\% | 20.7\% | 0.0\% | 11.1\% | 0.0\% | 20.2\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.9\% | 0.0\% | 0.0\% | 7.1\% | 0.0\% | 2.9\% | 0.0\% | 4.0\% | 0.0\% | 1.3\% | 9.1\% | 26.5\% | 0.0\% | 0.7\% | 0.0\% | 29.5\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.3\% | 0.0\% | 0.0\% | 10.5\% | 0.0\% | 3.4\% | 0.0\% | 8.9\% | 0.9\% | 0.2\% | 11.0\% | 15.1\% | 0.0\% | 0.0\% | 0.0\% | 28.8\% |
| 1988 | 0.4\% | 0.0\% | 0.0\% | 0.2\% | 0.4\% | 10.2\% | 3.3\% | 0.2\% | 9.1\% | 1.0\% | 3.5\% | 0.0\% | 7.6\% | 0.0\% | 0.5\% | 21.2\% | 22.1\% | 0.0\% | 0.9\% | 0.0\% | 19.3\% |
| 1989 | 0.1\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 8.8\% | 2.4\% | 0.2\% | 5.0\% | 0.4\% | 3.7\% | 0.0\% | 12.2\% | 0.0\% | 0.4\% | 14.7\% | 17.0\% | 0.0\% | 5.8\% | 0.0\% | 28.9\% |
| 1990 | 0.0\% | 0.1\% | 0.1\% | 0.3\% | 0.0\% | 23.9\% | 4.3\% | 0.3\% | 3.5\% | 0.3\% | 1.2\% | 0.0\% | 9.2\% | 0.0\% | 0.4\% | 13.3\% | 13.0\% | 0.0\% | 9.1\% | 0.4\% | 20.6\% |
| 1991 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.5\% | 2.6\% | 0.2\% | 1.8\% | 0.1\% | 0.9\% | 0.0\% | 12.3\% | 0.0\% | 0.4\% | 11.3\% | 13.9\% | 0.0\% | 13.9\% | 0.2\% | 25.3\% |
| 1992 | 0.6\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 17.4\% | 2.1\% | 0.3\% | 3.5\% | 0.9\% | 2.9\% | 0.0\% | 9.1\% | 0.0\% | 0.6\% | 12.8\% | 23.3\% | 0.0\% | 8.3\% | 0.0\% | 17.9\% |
| 1993 | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 18.1\% | 4.4\% | 1.0\% | 3.5\% | 0.1\% | 2.6\% | 0.0\% | 5.9\% | 0.0\% | 0.2\% | 7.8\% | 22.6\% | 0.0\% | 6.9\% | 0.0\% | 26.5\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 9.6\% | 1.3\% | 0.0\% | 3.3\% | 0.0\% | 5.1\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 11.1\% | 16.6\% | 0.0\% | 4.5\% | 0.3\% | 47.1\% |
| 1995 | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 5.4\% | 1.2\% | 0.0\% | 2.1\% | 0.0\% | 1.7\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 4.8\% | 17.3\% | 0.0\% | 1.0\% | 0.0\% | 64.9\% |
| 1996 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.9\% | 1.8\% | 0.0\% | 4.8\% | 0.0\% | 0.6\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 3.7\% | 18.0\% | 0.0\% | 2.5\% | 0.0\% | 64.6\% |
| 1997 | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 6.2\% | 1.5\% | 0.0\% | 1.9\% | 0.0\% | 0.9\% | 0.0\% | 1.7\% | 0.0\% | 0.1\% | 2.1\% | 16.1\% | 0.0\% | 0.7\% | 0.1\% | 67.7\% |
| 1998 | 1.4\% | 0.0\% | 0.0\% | 0.9\% | 0.3\% | 0.5\% | 0.8\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 4.3\% | 11.5\% | 0.0\% | 3.7\% | 0.5\% | 73.2\% |
| 1999 | 0.6\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.7\% | 4.3\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 0.0\% | 0.3\% | 4.5\% | 7.4\% | 0.0\% | 4.8\% | 0.0\% | 70.7\% |
| 2000 | 0.4\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 9.0\% | 4.1\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.2\% | 6.5\% | 14.0\% | 0.0\% | 5.5\% | 0.0\% | 57.9\% |
| 2001 | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.3\% | 7.8\% | 3.4\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 0.0\% | 0.4\% | 4.1\% | 13.8\% | 0.0\% | 7.0\% | 0.0\% | 54.9\% |
| 2002 | 0.9\% | 0.0\% | 0.0\% | 0.8\% | 0.4\% | 12.5\% | 3.4\% | 0.0\% | 4.9\% | 0.0\% | 0.2\% | 0.0\% | 4.3\% | 0.0\% | 0.5\% | 3.5\% | 9.0\% | 0.0\% | 13.8\% | 0.0\% | 45.9\% |
| 2003 | 0.7\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 13.8\% | 4.3\% | 0.0\% | 4.2\% | 0.0\% | 0.0\% | 0.0\% | 5.3\% | 0.0\% | 0.4\% | 6.6\% | 12.8\% | 0.0\% | 7.1\% | 0.0\% | 43.9\% |
| 2004 | 0.4\% | 0.2\% | 0.0\% | 0.6\% | 0.2\% | 17.1\% | 4.5\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 10.2\% | 0.0\% | 1.4\% | 7.7\% | 14.3\% | 0.0\% | 5.8\% | 0.0\% | 34.6\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.4\% | 13.3\% | 4.9\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 6.2\% | 0.0\% | 1.2\% | 4.1\% | 9.9\% | 0.0\% | 1.7\% | 0.0\% | 53.5\% |
| 2006 | 0.3\% | 0.0\% | 0.1\% | 0.5\% | 0.5\% | 12.1\% | 2.8\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 0.0\% | 0.5\% | 6.3\% | 11.2\% | 0.0\% | 7.3\% | 0.0\% | 49.4\% |
| 2007 | 0.2\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 11.5\% | 4.2\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 0.0\% | 0.2\% | 3.2\% | 15.6\% | 0.0\% | 11.8\% | 0.2\% | 45.7\% |
| 1983-2007 | 0.4\% | 0.0\% | 0.0\% | 0.3\% | 0.1\% | 13.0\% | 2.4\% | 0.2\% | 4.4\% | 0.3\% | 1.4\% | 0.0\% | 5.0\% | 0.0\% | 0.4\% | 9.3\% | 17.1\% | 0.0\% | 6.0\% | 0.1\% | 39.6\% |
| 1979-1984 | 0.2\% | 0.1\% | 0.0\% | 0.5\% | 0.1\% | 21.0\% | 0.2\% | 1.2\% | 7.0\% | 1.4\% | 1.9\% | 0.0\% | 2.0\% | 0.0\% | 0.1\% | 17.1\% | 27.8\% | 0.0\% | 7.0\% | 0.1\% | 12.4\% |
| 1985-1995 | 0.3\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 15.3\% | 2.0\% | 0.2\% | 5.0\% | 0.3\% | 2.7\% | 0.0\% | 6.6\% | 0.1\% | 0.4\% | 12.2\% | 18.9\% | 0.0\% | 5.6\% | 0.1\% | 29.9\% |
| 1996-1998 | 0.7\% | 0.0\% | 0.0\% | 0.4\% | 0.2\% | 2.5\% | 1.4\% | 0.0\% | 2.9\% | 0.0\% | 0.5\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 3.4\% | 15.2\% | 0.0\% | 2.3\% | 0.2\% | 68.5\% |
| 1999-2007 | 0.4\% | 0.1\% | 0.0\% | 0.4\% | 0.2\% | 10.9\% | 4.0\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 5.2\% | 0.0\% | 0.6\% | 5.2\% | 12.0\% | 0.0\% | 7.2\% | 0.0\% | 50.7\% |

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| Appendix C.45. Percent distribution of White River Spring Yearling reported catch among fisheries and escapement. |
| :--- |
| ISBM |


| $\begin{aligned} & \text { Catch } \\ & \text { Year } \end{aligned}$ | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1982 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 67.1\% | 23.2\% | 0.0\% | 6.1\% | 0.0\% | 1.2\% |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 11.3\% | 59.7\% | 0.0\% | 0.0\% | 0.0\% | 21.5\% |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 0.0\% | 5.2\% | 0.0\% | 5.8\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 3.9\% | 25.2\% | 0.0\% | 5.2\% | 0.0\% | 47.7\% |
| 1985 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 30.8\% | 50.6\% | 0.0\% | 0.0\% | 0.0\% | 13.5\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 2.4\% | 0.4\% | 2.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 15.3\% | 52.3\% | 0.0\% | 0.0\% | 0.0\% | 26.8\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.4\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 11.3\% | 42.3\% | 0.0\% | 0.0\% | 0.0\% | 41.2\% |
| 1988 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.8\% | 0.0\% | 2.5\% | 0.0\% | 0.2\% | 0.0\% | 1.3\% | 0.0\% | 0.2\% | 13.0\% | 48.3\% | 0.0\% | 0.0\% | 0.0\% | 33.6\% |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 1.0\% | 0.0\% | 6.0\% | 0.0\% | 0.2\% | 13.3\% | 40.9\% | 0.0\% | 0.3\% | 0.0\% | 35.8\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.7\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 15.6\% | 42.0\% | 0.0\% | 0.5\% | 0.0\% | 33.3\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 1.3\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 4.1\% | 0.0\% | 0.0\% | 10.8\% | 38.1\% | 0.0\% | 0.0\% | 0.0\% | 43.6\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.8\% | 0.0\% | 1.9\% | 0.0\% | 2.8\% | 0.0\% | 2.4\% | 0.0\% | 0.5\% | 7.1\% | 45.0\% | 0.0\% | 0.8\% | 0.0\% | 36.2\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 2.9\% | 30.6\% | 0.0\% | 0.7\% | 0.0\% | 62.2\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 52.2\% | 0.0\% | 0.0\% | 0.0\% | 42.7\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 18.8\% | 0.0\% | 0.0\% | 0.0\% | 80.9\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 51.1\% | 0.0\% | 0.0\% | 0.0\% | 46.0\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 39.6\% | 0.0\% | 0.0\% | 0.0\% | 57.8\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 1.6\% | 27.0\% | 0.0\% | 0.0\% | 0.0\% | 69.8\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 30.5\% | 0.0\% | 0.0\% | 0.0\% | 64.6\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 37.6\% | 0.0\% | 0.0\% | 0.0\% | 55.3\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.1\% | 0.2\% | 8.3\% | 0.0\% | 1.7\% | 0.0\% | 85.7\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.4\% | 0.2\% | 15.8\% | 0.0\% | 2.2\% | 0.0\% | 80.0\% |
| 1983-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.2\% | 0.2\% | 1.0\% | 0.3\% | 0.6\% | 0.0\% | 1.6\% | 0.0\% | 0.1\% | 10.1\% | 37.1\% | 0.0\% | 0.8\% | 0.0\% | 46.6\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 1.7\% | 0.8\% | 1.9\% | 0.5\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 27.4\% | 36.0\% | 0.0\% | 3.8\% | 0.0\% | 23.5\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.5\% | 0.0\% | 1.3\% | 0.0\% | 1.0\% | 0.0\% | 2.4\% | 0.0\% | 0.1\% | 11.1\% | 41.9\% | 0.0\% | 0.2\% | 0.0\% | 40.9\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 1.7\% | 39.2\% | 0.0\% | 0.0\% | 0.0\% | 57.9\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.1\% | 0.7\% | 23.0\% | 0.0\% | 1.0\% | 0.0\% | 71.4\% |


| Catch <br> Year | AABM |  |  |  |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1982 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 1.9\% | 0.9\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 55.1\% | 33.6\% | 0.0\% | 4.7\% | 0.0\% | 0.9\% |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 10.4\% | 63.5\% | 0.0\% | 0.0\% | 0.0\% | 19.0\% |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 0.0\% | 4.4\% | 0.0\% | 4.8\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 3.5\% | 45.6\% | 0.0\% | 3.5\% | 0.0\% | 32.5\% |
| 1985 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.7\% | 60.3\% | 0.0\% | 0.0\% | 0.0\% | 9.6\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 2.3\% | 0.4\% | 2.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 14.1\% | 56.5\% | 0.0\% | 0.0\% | 0.0\% | 23.6\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.4\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 8.2\% | 61.9\% | 0.0\% | 0.0\% | 0.0\% | 25.9\% |
| 1988 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.8\% | 0.0\% | 2.9\% | 0.0\% | 0.2\% | 0.0\% | 1.4\% | 0.0\% | 0.2\% | 12.6\% | 52.1\% | 0.0\% | 0.0\% | 0.0\% | 29.6\% |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 1.0\% | 0.0\% | 6.3\% | 0.0\% | 0.2\% | 12.0\% | 46.3\% | 0.0\% | 0.3\% | 0.0\% | 31.4\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.6\% | 0.0\% | 5.8\% | 0.0\% | 0.0\% | 14.0\% | 48.1\% | 0.0\% | 0.4\% | 0.0\% | 28.6\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 1.3\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 4.1\% | 0.0\% | 0.0\% | 9.8\% | 46.0\% | 0.0\% | 0.0\% | 0.0\% | 36.7\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.7\% | 0.0\% | 2.1\% | 0.0\% | 2.6\% | 0.0\% | 2.7\% | 0.0\% | 0.5\% | 6.8\% | 48.5\% | 0.0\% | 0.7\% | 0.0\% | 32.9\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 2.5\% | 39.4\% | 0.0\% | 0.6\% | 0.0\% | 54.1\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 59.6\% | 0.0\% | 0.0\% | 0.0\% | 35.7\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 26.2\% | 0.0\% | 0.0\% | 0.0\% | 73.5\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 56.4\% | 0.0\% | 0.0\% | 0.0\% | 40.5\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 47.7\% | 0.0\% | 0.0\% | 0.0\% | 50.0\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 1.4\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 63.8\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 45.2\% | 0.0\% | 0.0\% | 0.0\% | 51.0\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 44.2\% | 0.0\% | 0.0\% | 0.0\% | 49.5\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 0.1\% | 0.2\% | 14.3\% | 0.0\% | 1.7\% | 0.0\% | 79.9\% |
| 2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.5\% | 0.2\% | 19.3\% | 0.0\% | 2.3\% | 0.0\% | 76.4\% |
| 1983-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.2\% | 0.2\% | 1.0\% | 0.3\% | 0.6\% | 0.0\% | 1.6\% | 0.0\% | 0.1\% | 8.7\% | 45.1\% | 0.0\% | 0.7\% | 0.0\% | 40.2\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 0.0\% | 1.5\% | 0.6\% | 1.9\% | 0.5\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 23.0\% | 47.6\% | 0.0\% | 2.7\% | 0.0\% | 17.4\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.4\% | 0.0\% | 1.3\% | 0.0\% | 0.9\% | 0.0\% | 2.4\% | 0.0\% | 0.1\% | 9.8\% | 49.5\% | 0.0\% | 0.2\% | 0.0\% | 34.7\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 1.5\% | 45.8\% | 0.0\% | 0.0\% | 0.0\% | 51.4\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.1\% | 0.6\% | 30.7\% | 0.0\% | 1.0\% | 0.0\% | 64.2\% |

## Appendix C.47. Percent distribution of Hoko Fall Fingerling reported catch among fisheries and escapement.

| Catch | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1989 | 4.8\% | 0.8\% | 0.0\% | 7.7\% | 0.0\% | 10.9\% | 0.0\% | 0.0\% | 1.6\% | 0.4\% | 21.4\% | 0.0\% | 0.8\% | 0.0\% | 0.4\% | 0.4\% | 21.4\% | 0.0\% | 0.0\% | 0.0\% | 29.4\% |
| 1990 | 15.8\% | 1.9\% | 0.5\% | 8.0\% | 0.0\% | 17.0\% | 0.0\% | 0.5\% | 0.3\% | 0.7\% | 4.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.7\% | 14.5\% | 0.0\% | 0.2\% | 0.0\% | 35.2\% |
| 1991 | 15.2\% | 0.0\% | 0.0\% | 5.0\% | 0.6\% | 6.9\% | 0.5\% | 0.0\% | 0.4\% | 1.1\% | 1.0\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 1.0\% | 8.1\% | 0.0\% | 0.1\% | 0.0\% | 59.8\% |
| 1992 | 7.7\% | 1.7\% | 1.2\% | 4.4\% | 0.7\% | 9.8\% | 2.1\% | 0.0\% | 0.5\% | 1.2\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.2\% | 0.0\% | 66.6\% |
| 1993 | 6.6\% | 0.0\% | 2.0\% | 6.6\% | 0.0\% | 14.9\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 5.3\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 4.3\% | 0.0\% | 0.3\% | 0.0\% | 59.4\% |
| 1994 | 13.6\% | 2.1\% | 2.4\% | 14.8\% | 0.0\% | 11.4\% | 2.1\% | 0.0\% | 2.1\% | 0.6\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 47.9\% |
| 1995 | 12.5\% | 0.0\% | 4.1\% | 6.1\% | 0.8\% | 2.9\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 71.6\% |
| 1996 | 10.5\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 85.3\% |
| 1997 | 13.9\% | 0.0\% | 0.0\% | 1.7\% | 0.6\% | 0.9\% | 0.6\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 81.7\% |
| 1998 | 9.0\% | 0.0\% | 0.4\% | 5.9\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 84.1\% |
| 1999 | 6.6\% | 0.0\% | 0.7\% | 4.3\% | 1.0\% | 0.0\% | 1.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 85.7\% |
| 2000 | 4.4\% | 0.2\% | 1.8\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 92.0\% |
| 2001 | 6.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 90.1\% |
| 2002 | 17.1\% | 0.0\% | 0.9\% | 4.3\% | 4.0\% | 1.6\% | 0.0\% | 0.0\% | 2.1\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 68.8\% |
| 2003 | 13.8\% | 0.1\% | 2.6\% | 3.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 78.2\% |
| 2004 | 10.9\% | 0.0\% | 1.0\% | 8.4\% | 0.9\% | 0.7\% | 0.9\% | 0.0\% | 4.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 71.8\% |
| 2005 | 11.3\% | 0.2\% | 1.2\% | 10.9\% | 4.6\% | 0.0\% | 1.2\% | 0.0\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 64.1\% |
| 2006 | 9.5\% | 1.3\% | 2.2\% | 5.8\% | 4.1\% | 0.0\% | 1.2\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 74.1\% |
| 2007 | 17.0\% | 0.3\% | 3.9\% | 8.7\% | 14.5\% | 0.8\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 51.7\% |
| 1983-2007 | 10.9\% | 0.5\% | 1.6\% | 5.6\% | 1.7\% | 4.1\% | 0.6\% | 0.0\% | 1.3\% | 0.2\% | 1.9\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.1\% | 2.9\% | 0.0\% | 0.1\% | 0.0\% | 68.3\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 10.9\% | 0.9\% | 1.5\% | 7.5\% | 0.3\% | 10.5\% | 0.7\% | 0.1\% | 0.9\% | 0.6\% | 5.2\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.3\% | 7.3\% | 0.0\% | 0.1\% | 0.0\% | 52.9\% |
| 1996-1998 | 11.1\% | 0.0\% | 1.4\% | 2.5\% | 0.2\% | 0.3\% | 0.3\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 83.7\% |
| 1999-2007 | 10.7\% | 0.2\% | 1.8\% | 5.0\% | 3.2\% | 0.4\% | 0.6\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 75.2\% |

Appendix C.48. Percent distribution of Hoko Fall Fingerling total fishing mortalities among fisheries and escapement.

| Catch <br> Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | OR |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport |  |  |  | Troll | Net | Sport | Troll | Net | Sport | Net | Sport |  | Troll | Net | Sport |
| 1989 | 11.6\% | 3.1\% | 0.3\% | 8.5\% | 0.0\% | 13.6\% | 0.0\% | 0.0\% | 1.7\% | 1.1\% | 16.1\% | 0.0\% | 0.6\% | 0.0\% | 0.6\% | 1.4\% | 20.9\% | 0.0\% | 0.0\% | 0.0\% | 20.6\% |
| 1990 | 18.5\% | 4.8\% | 0.6\% | 8.4\% | 0.0\% | 16.9\% | 0.0\% | 0.4\% | 0.3\% | 0.9\% | 3.6\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.6\% | 14.1\% | 0.0\% | 0.1\% | 0.0\% | 30.1\% |
| 1991 | 18.8\% | 0.0\% | 0.1\% | 5.2\% | 0.5\% | 7.0\% | 0.4\% | 0.0\% | 0.4\% | 1.1\% | 0.9\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.9\% | 8.7\% | 0.0\% | 0.1\% | 0.0\% | 55.5\% |
| 1992 | 8.5\% | 4.9\% | 1.6\% | 5.5\% | 0.8\% | 10.3\% | 2.1\% | 0.0\% | 0.6\% | 1.1\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.2\% | 0.0\% | 60.3\% |
| 1993 | 12.3\% | 1.1\% | 2.3\% | 7.7\% | 0.0\% | 14.9\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 4.6\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 4.3\% | 0.0\% | 0.3\% | 0.0\% | 51.4\% |
| 1994 | 20.8\% | 4.8\% | 2.8\% | 13.5\% | 0.0\% | 10.7\% | 1.8\% | 0.0\% | 2.0\% | 0.5\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 40.4\% |
| 1995 | 16.3\% | 0.0\% | 4.7\% | 7.8\% | 0.8\% | 3.7\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 64.4\% |
| 1996 | 14.0\% | 0.0\% | 4.4\% | 0.7\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 79.2\% |
| 1997 | 16.5\% | 0.0\% | 0.0\% | 1.8\% | 0.7\% | 1.1\% | 0.5\% | 0.0\% | 0.0\% | 0.2\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 78.6\% |
| 1998 | 10.0\% | 0.0\% | 0.3\% | 6.4\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 82.8\% |
| 1999 | 7.9\% | 0.0\% | 0.7\% | 4.7\% | 1.1\% | 0.0\% | 1.5\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.7\% |
| 2000 | 6.0\% | 0.2\% | 2.9\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 89.0\% |
| 2001 | 8.7\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 85.8\% |
| 2002 | 19.5\% | 0.0\% | 1.0\% | 4.7\% | 4.7\% | 1.5\% | 0.0\% | 0.0\% | 2.2\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 65.0\% |
| 2003 | 15.0\% | 0.2\% | 2.9\% | 3.3\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 76.2\% |
| 2004 | 12.5\% | 0.0\% | 1.2\% | 9.3\% | 1.2\% | 0.7\% | 0.9\% | 0.0\% | 5.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 68.1\% |
| 2005 | 12.8\% | 0.2\% | 1.3\% | 12.2\% | 5.7\% | 0.0\% | 1.3\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 59.2\% |
| 2006 | 10.7\% | 1.9\% | 2.3\% | 6.3\% | 4.7\% | 0.0\% | 1.4\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 70.9\% |
| 2007 | 17.7\% | 0.5\% | 4.0\% | 8.5\% | 16.4\% | 0.8\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 48.9\% |
| 1983-2007 | 13.6\% | 1.1\% | 1.9\% | 6.0\% | 1.9\% | 4.3\% | 0.6\% | 0.0\% | 1.4\% | 0.3\% | 1.6\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.2\% | 2.9\% | 0.0\% | 0.1\% | 0.0\% | 63.7\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 15.3\% | 2.7\% | 1.8\% | 8.1\% | 0.3\% | 11.0\% | 0.6\% | 0.1\% | 0.9\% | 0.7\% | 4.3\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.4\% | 7.4\% | 0.0\% | 0.1\% | 0.0\% | 46.1\% |
| 1996-1998 | 13.5\% | 0.0\% | 1.6\% | 3.0\% | 0.2\% | 0.8\% | 0.3\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 80.2\% |
| 1999-2007 | 12.3\% | 0.3\% | 2.1\% | 5.4\% | 3.8\% | 0.4\% | 0.6\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 71.9\% |

## Appendix C.49. Percent distribution of Sooes Fall Fingerling reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1989 | 7.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 8.2\% | 0.0\% | 0.0\% | 0.0\% | 6.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 75.3\% |
| 1990 | 9.9\% | 2.8\% | 4.3\% | 14.2\% | 0.0\% | 17.7\% | 0.0\% | 0.0\% | 7.1\% | 1.4\% | 2.8\% | 0.0\% | 1.4\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 34.8\% |
| 1991 | 11.9\% | 0.0\% | 0.0\% | 9.9\% | 0.0\% | 5.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.9\% | 0.0\% | 0.0\% | 0.0\% | 64.3\% |
| 1992 | 8.5\% | 0.0\% | 0.0\% | 9.5\% | 0.0\% | 19.3\% | 1.7\% | 0.0\% | 1.0\% | 2.0\% | 3.4\% | 0.0\% | 0.3\% | 0.0\% | 0.7\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 51.9\% |
| 1993 | 4.6\% | 0.0\% | 0.0\% | 7.6\% | 2.1\% | 16.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 2.1\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 64.1\% |
| 1994 | 17.0\% | 3.0\% | 4.0\% | 10.5\% | 1.0\% | 8.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 55.5\% |
| 1995 | 8.5\% | 0.0\% | 0.0\% | 4.6\% | 0.0\% | 9.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 73.9\% |
| 1996 | 8.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 90.3\% |
| 1997 | 10.3\% | 0.0\% | 5.2\% | 5.5\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 1.4\% | 0.7\% | 0.3\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 20.7\% | 0.0\% | 49.3\% |
| 1998 | 9.0\% | 0.0\% | 1.5\% | 17.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 72.0\% |
| 1999 | 12.3\% | 0.0\% | 12.3\% | 4.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 70.5\% |
| 2000 | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 8.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 89.0\% |
| 2001 | 6.1\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 88.5\% |
| 2002 | 10.7\% | 0.2\% | 1.3\% | 2.8\% | 2.1\% | 0.8\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.4\% |
| 2003 | 12.0\% | 0.1\% | 0.0\% | 4.8\% | 2.6\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.7\% | 0.0\% | 25.1\% | 0.0\% | 52.8\% |
| 2004 | 17.4\% | 0.5\% | 2.0\% | 14.9\% | 0.0\% | 0.8\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 61.0\% |
| 2005 | 27.0\% | 0.0\% | 2.3\% | 25.2\% | 6.1\% | 1.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 34.0\% |
| 2006 | 22.4\% | 1.4\% | 2.7\% | 26.5\% | 3.7\% | 1.4\% | 2.7\% | 0.0\% | 5.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 1.4\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 30.6\% |
| 2007 | 12.7\% | 0.0\% | 0.0\% | 27.0\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 6.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.6\% |
| 1983-2007 | 11.4\% | 0.5\% | 2.1\% | 9.7\% | 2.7\% | 4.3\% | 1.5\% | 0.0\% | 1.4\% | 0.4\% | 1.0\% | 0.0\% | 0.2\% | 0.0\% | 0.5\% | 0.2\% | 0.5\% | 0.0\% | 2.5\% | 0.0\% | 61.0\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 9.6\% | 1.0\% | 1.2\% | 8.0\% | 0.4\% | 11.1\% | 1.4\% | 0.0\% | 1.2\% | 0.9\% | 2.7\% | 0.0\% | 0.3\% | 0.0\% | 0.6\% | 0.0\% | 1.1\% | 0.0\% | 0.4\% | 0.0\% | 60.0\% |
| 1996-1998 | 9.3\% | 0.0\% | 2.2\% | 7.7\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.5\% | 0.2\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.2\% | 0.9\% | 0.0\% | 0.0\% | 6.9\% | 0.0\% | 70.5\% |
| 1999-2007 | 13.4\% | 0.2\% | 2.8\% | 11.7\% | 5.3\% | 0.4\% | 1.7\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.6\% | 0.1\% | 0.3\% | 0.0\% | 2.8\% | 0.0\% | 58.6\% |


| $\begin{aligned} & \text { Catch } \\ & \text { Year } \end{aligned}$ | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1989 | 11.0\% | 3.7\% | 0.5\% | 3.1\% | 0.0\% | 4.7\% | 7.3\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 62.3\% |
| 1990 | 11.6\% | 7.0\% | 4.1\% | 16.3\% | 0.0\% | 17.4\% | 0.0\% | 0.0\% | 6.4\% | 1.7\% | 2.3\% | 0.0\% | 1.7\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 28.5\% |
| 1991 | 14.1\% | 0.0\% | 0.3\% | 10.6\% | 0.0\% | 7.2\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 0.0\% | 0.0\% | 0.0\% | 59.0\% |
| 1992 | 11.0\% | 0.3\% | 0.3\% | 10.7\% | 0.0\% | 20.4\% | 1.5\% | 0.0\% | 1.2\% | 2.1\% | 3.0\% | 0.0\% | 0.3\% | 0.0\% | 0.6\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 46.6\% |
| 1993 | 7.5\% | 0.4\% | 0.0\% | 7.9\% | 2.0\% | 16.9\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 2.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 59.8\% |
| 1994 | 21.0\% | 7.4\% | 3.5\% | 9.6\% | 0.9\% | 7.4\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 48.5\% |
| 1995 | 14.9\% | 0.0\% | 0.0\% | 6.1\% | 0.0\% | 12.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 62.4\% |
| 1996 | 15.5\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 82.3\% |
| 1997 | 12.0\% | 0.0\% | 5.8\% | 5.8\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 1.3\% | 0.6\% | 0.6\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 3.9\% | 0.0\% | 0.0\% | 19.8\% | 0.0\% | 46.4\% |
| 1998 | 10.3\% | 0.0\% | 1.8\% | 19.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 68.7\% |
| 1999 | 13.5\% | 0.0\% | 13.5\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 67.4\% |
| 2000 | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 10.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.9\% |
| 2001 | 9.6\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.4\% |
| 2002 | 13.2\% | 0.4\% | 1.6\% | 3.4\% | 2.7\% | 0.7\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 76.3\% |
| 2003 | 14.0\% | 0.4\% | 0.0\% | 5.5\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.9\% | 0.0\% | 24.6\% | 0.0\% | 49.5\% |
| 2004 | 19.3\% | 1.4\% | 2.1\% | 16.1\% | 0.0\% | 0.7\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.4\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 56.7\% |
| 2005 | 27.5\% | 0.0\% | 2.3\% | 25.6\% | 7.3\% | 1.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 31.9\% |
| 2006 | 22.8\% | 1.7\% | 2.6\% | 26.7\% | 3.9\% | 1.3\% | 3.0\% | 0.0\% | 5.2\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 1.3\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 28.9\% |
| 2007 | 11.8\% | 0.0\% | 0.0\% | 26.5\% | 36.8\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.1\% |
| 1983-2007 | 13.7\% | 1.2\% | 2.5\% | 10.4\% | 3.0\% | 4.8\% | 1.5\% | 0.0\% | 1.4\% | 0.4\% | 1.0\% | 0.0\% | 0.2\% | 0.0\% | 0.5\% | 0.3\% | 0.7\% | 0.0\% | 2.5\% | 0.0\% | 55.9\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 13.0\% | 2.7\% | 1.2\% | 9.2\% | 0.4\% | 12.4\% | 1.3\% | 0.0\% | 1.1\% | 1.0\% | 2.6\% | 0.0\% | 0.3\% | 0.0\% | 0.5\% | 0.1\% | 1.4\% | 0.0\% | 0.3\% | 0.0\% | 52.5\% |
| 1996-1998 | 12.6\% | 0.0\% | 2.5\% | 8.6\% | 0.0\% | 0.1\% | 0.9\% | 0.0\% | 0.4\% | 0.2\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.1\% | 1.3\% | 0.0\% | 0.0\% | 6.6\% | 0.0\% | 65.8\% |
| 1999-2007 | 14.6\% | 0.4\% | 3.4\% | 12.0\% | 6.0\% | 0.4\% | 2.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.6\% | 0.1\% | 0.4\% | 0.0\% | 2.7\% | 0.0\% | 55.2\% |


| Appendix C.51. Percent distribution of Queets Fall Fingerling reported catch among fisheries and escapement. |
| :--- |
| AABM |


| Catch Year | SEAK |  |  | AABM |  |  |  | SBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1981 | 9.5\% | 0.0\% | 0.0\% | 13.7\% | 0.0\% | 11.6\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 3.2\% | 0.0\% | 1.1\% | 6.3\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 25.3\% | 0.0\% | 24.2\% |
| 1982 | 12.6\% | 2.6\% | 0.0\% | 18.2\% | 1.3\% | 13.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 10.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.9\% | 0.0\% | 24.2\% |
| 1983 | 29.9\% | 0.0\% | 0.0\% | 16.3\% | 0.0\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.7\% | 11.6\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 10.2\% | 0.0\% | 20.4\% |
| 1984 | 16.1\% | 0.7\% | 0.0\% | 19.6\% | 2.1\% | 7.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 4.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.8\% | 0.0\% | 23.1\% |
| 1985 | 15.6\% | 0.0\% | 0.0\% | 31.6\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 12.4\% | 0.0\% | 33.6\% |
| 1986 | 17.3\% | 0.0\% | 1.1\% | 11.6\% | 0.0\% | 7.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 1.1\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.4\% | 0.0\% | 50.4\% |
| 1987 | 22.3\% | 0.2\% | 0.0\% | 11.7\% | 0.9\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.6\% | 0.0\% | 0.6\% | 1.5\% | 0.0\% | 0.2\% | 0.6\% | 0.0\% | 21.0\% | 0.0\% | 38.7\% |
| 1988 | 14.4\% | 0.8\% | 1.7\% | 7.8\% | 0.0\% | 4.0\% | 1.1\% | 0.0\% | 0.0\% | 2.5\% | 0.4\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 3.3\% | 0.0\% | 15.8\% | 0.0\% | 47.3\% |
| 1989 | 11.1\% | 0.0\% | 0.0\% | 9.1\% | 1.1\% | 7.6\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.2\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 27.2\% | 0.0\% | 41.1\% |
| 1990 | 12.6\% | 0.0\% | 0.0\% | 5.5\% | 1.8\% | 6.6\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.3\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.0\% | 0.0\% | 58.9\% |
| 1991 | 20.5\% | 0.2\% | 1.1\% | 9.7\% | 1.3\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 15.4\% | 0.0\% | 46.3\% |
| 1992 | 8.4\% | 0.8\% | 2.2\% | 7.8\% | 1.9\% | 17.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 1.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 18.4\% | 0.0\% | 41.7\% |
| 1993 | 15.5\% | 0.0\% | 0.7\% | 14.0\% | 2.1\% | 12.6\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 2.0\% | 0.0\% | 0.8\% | 0.0\% | 16.0\% | 0.0\% | 35.6\% |
| 1994 | 16.1\% | 0.3\% | 0.5\% | 21.7\% | 1.5\% | 4.1\% | 1.0\% | 0.0\% | 0.3\% | 0.2\% | 0.4\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.9\% | 0.0\% | 32.4\% |
| 1995 | 17.2\% | 0.0\% | 1.6\% | 6.0\% | 4.1\% | 0.7\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.1\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 32.8\% | 0.0\% | 35.9\% |
| 1996 | 10.4\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.5\% | 0.6\% | 70.2\% |
| 1997 | 34.5\% | 0.3\% | 0.0\% | 6.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.8\% | 0.0\% | 37.4\% |
| 1998 | 23.7\% | 0.0\% | 3.0\% | 19.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 12.1\% | 4.4\% | 37.0\% |
| 1999 | 9.2\% | 0.0\% | 1.4\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 8.2\% | 0.0\% | 78.3\% |
| 2000 | 23.7\% | 0.0\% | 10.0\% | 10.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 0.0\% | 51.6\% |
| 2001 | 23.4\% | 0.0\% | 5.8\% | 4.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 1.3\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 40.6\% | 0.0\% | 22.3\% |
| 2002 | 25.5\% | 0.0\% | 3.3\% | 4.8\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 24.9\% | 0.0\% | 38.8\% |
| 2003 | 20.9\% | 0.1\% | 3.6\% | 10.7\% | 4.1\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 21.2\% | 0.0\% | 37.9\% |
| 2004 | 15.1\% | 0.4\% | 3.1\% | 6.7\% | 7.2\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 11.5\% | 0.0\% | 53.7\% |
| 2005 | 14.4\% | 0.0\% | 3.3\% | 6.8\% | 2.5\% | 3.5\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 0.0\% | 48.5\% |
| 2006 | 21.8\% | 0.3\% | 2.4\% | 12.0\% | 5.0\% | 3.8\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.6\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 14.9\% | 0.0\% | 38.0\% |
| 2007 | 25.2\% | 0.0\% | 3.2\% | 9.6\% | 24.5\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 14.5\% | 0.0\% | 20.2\% |
| 1983-2007 | 18.0\% | 0.2\% | 1.8\% | 11.0\% | 2.4\% | 4.3\% | 0.1\% | 0.0\% | 0.0\% | 0.3\% | 0.4\% | 0.0\% | 0.3\% | 1.7\% | 0.2\% | 0.1\% | 0.4\% | 0.0\% | 18.0\% | 0.2\% | 40.3\% |
| 1979-1984 | 17.0\% | 0.8\% | 0.0\% | 16.9\% | 0.8\% | 9.8\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 1.7\% | 0.0\% | 1.0\% | 8.3\% | 0.0\% | 0.3\% | 0.8\% | 0.0\% | 19.0\% | 0.0\% | 23.0\% |
| 1985-1995 | 15.5\% | 0.2\% | 0.8\% | 12.4\% | 1.3\% | 6.1\% | 0.2\% | 0.0\% | 0.1\% | 0.6\% | 0.4\% | 0.0\% | 0.2\% | 0.9\% | 0.2\% | 0.0\% | 0.7\% | 0.0\% | 18.2\% | 0.0\% | 42.0\% |
| 1996-1998 | 22.8\% | 0.1\% | 1.5\% | 8.4\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 16.8\% | 1.6\% | 48.2\% |
| 1999-2007 | 19.9\% | 0.1\% | 4.0\% | 7.6\% | 5.0\% | 1.1\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.4\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 17.7\% | 0.0\% | 43.3\% |

Appendices
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Appendix C.53. Percent distribution of Willamette Spring reported catch among fisheries and escapement.

| $\begin{aligned} & \text { Catch } \\ & \text { Year } \end{aligned}$ | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1980 | 3.5\% | 0.5\% | 0.1\% | 5.8\% | 0.1\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.5\% | 0.0\% | 0.5\% | 0.0\% | 0.7\% | 0.0\% | 0.1\% | 0.0\% | 0.3\% | 7.6\% | 77.5\% |
| 1981 | 4.5\% | 0.6\% | 0.1\% | 6.2\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.1\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 9.3\% | 75.2\% |
| 1982 | 4.1\% | 1.1\% | 0.1\% | 6.6\% | 0.1\% | 4.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.4\% | 0.0\% | 1.1\% | 0.0\% | 1.8\% | 0.1\% | 0.1\% | 0.0\% | 7.2\% | 23.0\% | 50.1\% |
| 1983 | 12.8\% | 0.1\% | 0.0\% | 12.0\% | 0.0\% | 1.9\% | 0.0\% | 0.5\% | 0.3\% | 0.3\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.5\% | 0.0\% | 0.5\% | 0.0\% | 6.5\% | 20.3\% | 42.6\% |
| 1984 | 4.0\% | 0.3\% | 0.3\% | 2.1\% | 0.1\% | 1.9\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 6.2\% | 23.8\% | 59.8\% |
| 1985 | 5.1\% | 0.1\% | 0.0\% | 0.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 18.1\% | 20.5\% | 54.6\% |
| 1986 | 3.1\% | 0.4\% | 0.0\% | 6.6\% | 0.0\% | 5.5\% | 0.6\% | 0.0\% | 0.0\% | 0.6\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 9.2\% | 16.4\% | 54.4\% |
| 1987 | 9.8\% | 0.0\% | 0.6\% | 13.3\% | 0.0\% | 0.9\% | 1.3\% | 0.0\% | 0.0\% | 0.8\% | 1.1\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 6.3\% | 26.7\% | 36.5\% |
| 1988 | 8.6\% | 0.2\% | 0.4\% | 6.2\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.1\% | 0.0\% | 2.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 6.9\% | 28.6\% | 42.9\% |
| 1989 | 4.4\% | 0.0\% | 0.2\% | 1.8\% | 0.0\% | 1.4\% | 0.5\% | 0.0\% | 0.5\% | 0.0\% | 0.3\% | 0.0\% | 1.5\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 12.6\% | 20.0\% | 56.6\% |
| 1990 | 6.3\% | 0.3\% | 0.2\% | 1.4\% | 0.2\% | 2.1\% | 0.7\% | 0.0\% | 0.0\% | 0.2\% | 0.6\% | 0.0\% | 1.3\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 17.0\% | 27.6\% | 42.0\% |
| 1991 | 3.1\% | 1.2\% | 0.6\% | 1.7\% | 0.0\% | 0.4\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.7\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 6.0\% | 42.6\% | 43.0\% |
| 1992 | 3.5\% | 1.3\% | 0.2\% | 1.7\% | 0.2\% | 2.7\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 2.4\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 5.8\% | 30.6\% | 50.4\% |
| 1993 | 8.1\% | 0.0\% | 0.0\% | 1.3\% | 0.1\% | 1.4\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 43.0\% | 43.6\% |
| 1994 | 4.1\% | 0.3\% | 0.9\% | 0.7\% | 0.1\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 5.1\% | 38.6\% | 48.8\% |
| 1995 | 2.8\% | 0.1\% | 0.3\% | 1.0\% | 0.0\% | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.3\% | 43.6\% | 50.9\% |
| 1996 | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 1.2\% | 7.7\% | 88.6\% |
| 1997 | 3.6\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 15.8\% | 79.0\% |
| 1998 | 4.2\% | 0.1\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.4\% | 16.2\% | 78.5\% |
| 1999 | 4.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 14.6\% | 79.3\% |
| 2000 | 7.8\% | 0.1\% | 0.4\% | 0.1\% | 0.7\% | 0.3\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 29.3\% | 58.0\% |
| 2001 | 1.4\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.5\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 3.5\% | 23.1\% | 70.8\% |
| 2002 | 1.8\% | 0.1\% | 0.1\% | 0.9\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 15.8\% | 20.0\% | 59.4\% |
| 2003 | 4.8\% | 0.0\% | 0.1\% | 0.4\% | 0.2\% | 2.4\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 15.6\% | 74.6\% |
| 2004 | 2.9\% | 0.3\% | 0.1\% | 0.6\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.1\% | 20.1\% | 62.7\% |
| 2005 | 2.7\% | 0.0\% | 0.1\% | 0.3\% | 0.3\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 5.0\% | 15.5\% | 69.7\% |
| 2006 | 3.0\% | 0.0\% | 0.0\% | 0.3\% | 0.4\% | 4.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 7.9\% | 24.5\% | 58.1\% |
| 2007 | 3.9\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 17.7\% | 71.6\% |
| 1983-2007 | 4.7\% | 0.3\% | 0.2\% | 2.6\% | 0.1\% | 1.8\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 0.0\% | 0.9\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 5.7\% | 22.9\% | 60.0\% |
| 1979-1984 | 5.8\% | 0.5\% | 0.1\% | 6.6\% | 0.1\% | 2.4\% | 0.0\% | 0.1\% | 0.1\% | 0.2\% | 0.2\% | 0.0\% | 1.0\% | 0.0\% | 0.6\% | 0.0\% | 0.2\% | 0.0\% | 4.4\% | 16.8\% | 61.0\% |
| 1985-1995 | 5.4\% | 0.4\% | 0.3\% | 3.3\% | 0.0\% | 1.7\% | 0.3\% | 0.0\% | 0.1\% | 0.2\% | 0.5\% | 0.0\% | 1.1\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 8.0\% | 30.7\% | 47.6\% |
| 1996-1998 | 3.3\% | 0.0\% | 0.1\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.8\% | 13.2\% | 82.0\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Appendices | 3.6\% | $0.1 \%$ | $0.1 \%$ | 0.3\% | 0.2\% | 2.3\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 5.3\% | 20.0\% | 67.1\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ce 122 |  |

Appendices
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| Appendix C.54. Percent distribution of Willamette Spring total fishing mortalities among fisheries and escapement. |
| :--- | :--- |


| Catch Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | rt |  |
| 1980 | 5.0\% | 0.5\% | 0.2\% | 8.1\% | 0.1\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.5\% | 0.0\% | 0.7\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 7.6\% | 72.5\% |
| 1981 | 5.7\% | 0.6\% | 0.1\% | 8.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.1\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 9.5\% | 71.4\% |
| 1982 | 5.8\% | 1.2\% | 0.2\% | 8.2\% | 0.1\% | 5.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.4\% | 0.0\% | 1.3\% | 0.0\% | 1.9\% | 0.2\% | 0.2\% | 0.0\% | 6.8\% | 22.7\% | 45.9\% |
| 1983 | 18.9\% | 0.1\% | 0.0\% | 13.2\% | 0.0\% | 2.0\% | 0.0\% | 0.5\% | 0.3\% | 0.3\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.5\% | 0.0\% | 0.7\% | 0.0\% | 5.9\% | 18.8\% | 36.6\% |
| 1984 | 4.6\% | 0.3\% | 0.4\% | 2.5\% | 0.1\% | 2.1\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.1\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 6.3\% | 24.5\% | 57.6\% |
| 1985 | 7.9\% | 0.3\% | 0.0\% | 0.5\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 17.5\% | 20.8\% | 51.8\% |
| 1986 | 4.9\% | 1.2\% | 0.0\% | 7.5\% | 0.0\% | 6.2\% | 0.7\% | 0.0\% | 0.0\% | 0.7\% | 2.6\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 16.3\% | 50.3\% |
| 1987 | 18.8\% | 0.0\% | 1.0\% | 15.4\% | 0.0\% | 1.5\% | 1.2\% | 0.0\% | 0.0\% | 1.2\% | 1.0\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 5.3\% | 22.5\% | 28.4\% |
| 1988 | 11.5\% | 0.4\% | 0.6\% | 7.8\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 30.0\% | 36.0\% |
| 1989 | 5.7\% | 0.0\% | 0.2\% | 2.2\% | 0.0\% | 1.6\% | 0.6\% | 0.0\% | 0.6\% | 0.0\% | 0.2\% | 0.0\% | 1.7\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 12.2\% | 21.8\% | 52.8\% |
| 1990 | 10.3\% | 0.8\% | 0.3\% | 2.0\% | 0.2\% | 2.7\% | 0.7\% | 0.0\% | 0.0\% | 0.2\% | 0.6\% | 0.0\% | 1.5\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 15.6\% | 27.9\% | 37.3\% |
| 1991 | 4.1\% | 2.9\% | 0.7\% | 2.1\% | 0.0\% | 0.4\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.7\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 44.1\% | 38.5\% |
| 1992 | 7.7\% | 3.2\% | 0.2\% | 2.0\% | 0.2\% | 3.1\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 2.8\% | 0.0\% | 0.4\% | 0.0\% | 0.6\% | 0.0\% | 5.3\% | 30.5\% | 43.5\% |
| 1993 | 13.5\% | 0.0\% | 0.0\% | 1.5\% | 0.1\% | 1.5\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 43.8\% | 37.0\% |
| 1994 | 5.8\% | 0.7\% | 1.1\% | 0.9\% | 0.1\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 4.8\% | 40.4\% | 44.5\% |
| 1995 | 5.3\% | 0.1\% | 0.4\% | 1.4\% | 0.0\% | 0.5\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 45.7\% | 45.5\% |
| 1996 | 3.4\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 1.2\% | 8.7\% | 85.9\% |
| 1997 | 4.5\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 17.2\% | 76.4\% |
| 1998 | 5.7\% | 0.4\% | 0.3\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.4\% | 18.1\% | 74.4\% |
| 1999 | 9.2\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 15.8\% | 72.2\% |
| 2000 | 13.8\% | 0.2\% | 1.0\% | 0.1\% | 0.8\% | 0.3\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 31.2\% | 49.4\% |
| 2001 | 1.6\% | 0.1\% | 0.1\% | 0.1\% | 0.2\% | 0.5\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 3.7\% | 26.7\% | 66.6\% |
| 2002 | 2.2\% | 0.3\% | 0.1\% | 1.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 15.3\% | 22.2\% | 56.8\% |
| 2003 | 6.0\% | 0.0\% | 0.1\% | 0.5\% | 0.2\% | 2.5\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 17.0\% | 71.5\% |
| 2004 | 3.8\% | 1.1\% | 0.1\% | 0.7\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.0\% | 22.4\% | 58.3\% |
| 2005 | 3.2\% | 0.0\% | 0.1\% | 0.3\% | 0.4\% | 5.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 5.0\% | 17.0\% | 67.1\% |
| 2006 | 4.3\% | 0.0\% | 0.0\% | 0.4\% | 0.5\% | 4.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 7.7\% | 27.0\% | 53.7\% |
| 2007 | 5.7\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 20.1\% | 67.0\% |
| 1983-2007 | 7.1\% | 0.5\% | 0.3\% | 3.1\% | 0.1\% | 2.1\% | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.2\% | 0.0\% | 1.0\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 5.5\% | 23.9\% | 55.3\% |
| 1979-1984 | 8.0\% | 0.5\% | 0.2\% | 8.0\% | 0.1\% | 2.9\% | 0.0\% | 0.1\% | 0.1\% | 0.3\% | 0.2\% | 0.0\% | 1.1\% | 0.0\% | 0.7\% | 0.0\% | 0.2\% | 0.0\% | 4.2\% | 16.6\% | 56.8\% |
| 1985-1995 | 8.7\% | 0.9\% | 0.4\% | 3.9\% | 0.1\% | 2.1\% | 0.4\% | 0.0\% | 0.1\% | 0.3\% | 0.5\% | 0.0\% | 1.3\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 7.5\% | 31.3\% | 42.3\% |
| 1996-1998 | 4.6\% | 0.1\% | 0.1\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.8\% | 14.7\% | 78.9\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1999-2007 Appendices | 5.5\% | 0.2\% | 0.3\% | 0.3\% | 0.2\% | 2.4\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | Page 123 |  | 62.5\% |

## Appendix C.55. Percent distribution of Columbia River Summers reported catch among fisheries and escapement.

| $\begin{aligned} & \text { Catch } \\ & \text { Year } \end{aligned}$ | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1979 | 11.0\% | 0.0\% | 1.2\% | 7.3\% | 0.0\% | 16.5\% | 0.0\% | 3.0\% | 4.9\% | 2.4\% | 11.6\% | 0.0\% | 0.0\% | 0.0\% | 4.9\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 0.0\% | 32.9\% |
| 1980 | 33.1\% | 0.0\% | 0.9\% | 8.8\% | 0.0\% | 16.7\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 1.2\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 33.1\% |
| 1987 | 13.6\% | 0.0\% | 0.0\% | 5.6\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 4.0\% | 0.0\% | 20.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.2\% | 0.0\% | 33.6\% |
| 1988 | 1.1\% | 0.8\% | 0.0\% | 7.6\% | 1.9\% | 15.9\% | 4.2\% | 0.0\% | 0.0\% | 0.0\% | 9.1\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.2\% | 3.0\% | 37.9\% |
| 1989 | 4.8\% | 0.5\% | 0.6\% | 5.1\% | 0.6\% | 14.8\% | 2.4\% | 0.0\% | 1.4\% | 0.6\% | 2.6\% | 0.0\% | 14.4\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 0.0\% | 8.5\% | 0.0\% | 41.1\% |
| 1990 | 9.7\% | 0.0\% | 0.0\% | 6.6\% | 0.0\% | 19.5\% | 0.0\% | 0.0\% | 0.6\% | 1.1\% | 1.7\% | 0.0\% | 5.7\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 10.8\% | 0.2\% | 41.8\% |
| 1991 | 3.9\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 5.7\% | 0.7\% | 0.0\% | 0.0\% | 0.5\% | 2.7\% | 0.0\% | 3.4\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 0.4\% | 74.7\% |
| 1992 | 14.1\% | 0.0\% | 0.0\% | 3.4\% | 0.0\% | 14.8\% | 0.0\% | 0.0\% | 0.7\% | 2.1\% | 1.0\% | 0.0\% | 6.5\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 1.4\% | 0.0\% | 54.6\% |
| 1993 | 7.1\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 14.3\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 5.2\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 0.0\% | 62.9\% |
| 1994 | 13.5\% | 0.0\% | 0.0\% | 0.0\% | 13.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.8\% | 0.0\% | 62.2\% |
| 1995 | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 88.4\% |
| 1996 | 13.3\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 2.8\% | 0.0\% | 2.8\% | 0.0\% | 0.8\% | 0.0\% | 1.1\% | 0.0\% | 3.9\% | 2.2\% | 70.6\% |
| 1997 | 7.7\% | 0.1\% | 3.2\% | 0.2\% | 1.3\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 1.2\% | 0.6\% | 80.6\% |
| 1998 | 8.5\% | 0.1\% | 0.9\% | 0.5\% | 1.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 1.0\% | 80.3\% |
| 1999 | 10.1\% | 2.6\% | 1.8\% | 0.4\% | 2.6\% | 0.6\% | 5.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 8.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 2.9\% | 63.3\% |
| 2000 | 21.5\% | 1.4\% | 2.6\% | 0.4\% | 2.1\% | 4.4\% | 4.5\% | 0.0\% | 0.6\% | 0.0\% | 0.4\% | 0.0\% | 3.1\% | 0.0\% | 1.4\% | 0.0\% | 0.2\% | 0.0\% | 1.0\% | 2.3\% | 54.1\% |
| 2001 | 13.9\% | 2.8\% | 1.4\% | 0.6\% | 3.5\% | 12.9\% | 2.7\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 17.4\% | 0.0\% | 3.8\% | 0.0\% | 0.6\% | 0.0\% | 0.8\% | 1.7\% | 37.7\% |
| 2002 | 21.8\% | 0.0\% | 1.4\% | 12.4\% | 1.8\% | 15.3\% | 1.2\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 8.5\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 2.3\% | 30.5\% |
| 2003 | 25.9\% | 0.4\% | 1.0\% | 11.1\% | 1.9\% | 12.3\% | 0.3\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 0.0\% | 1.0\% | 0.0\% | 0.1\% | 0.0\% | 2.9\% | 5.8\% | 30.7\% |
| 2004 | 13.0\% | 0.3\% | 1.1\% | 5.0\% | 1.4\% | 12.4\% | 1.3\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 10.2\% | 0.0\% | 1.5\% | 0.0\% | 0.2\% | 0.0\% | 7.8\% | 13.9\% | 31.8\% |
| 2005 | 8.3\% | 0.0\% | 0.7\% | 5.6\% | 1.8\% | 10.4\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 7.0\% | 7.5\% | 51.4\% |
| 2006 | 6.2\% | 0.0\% | 0.3\% | 2.0\% | 0.7\% | 6.3\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.2\% | 0.1\% | 0.0\% | 0.0\% | 7.5\% | 5.5\% | 68.8\% |
| 2007 | 11.7\% | 1.0\% | 1.4\% | 1.7\% | 4.4\% | 7.3\% | 1.3\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 0.0\% | 0.5\% | 0.0\% | 0.1\% | 0.0\% | 10.7\% | 13.1\% | 42.3\% |
| 1983-2007 | 12.0\% | 0.4\% | 0.8\% | 3.8\% | 1.8\% | 9.0\% | 1.2\% | 0.1\% | 0.5\% | 0.7\% | 1.8\% | 0.0\% | 5.9\% | 0.0\% | 1.2\% | 0.1\% | 0.2\% | 0.0\% | 5.4\% | 2.7\% | 52.4\% |
| 1979-1984 | 22.1\% | 0.0\% | 1.1\% | 8.1\% | 0.0\% | 16.6\% | 0.0\% | 1.5\% | 2.4\% | 3.2\% | 6.4\% | 0.0\% | 0.8\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 33.0\% |
| 1985-1995 | 7.9\% | 0.1\% | 0.1\% | 3.6\% | 2.1\% | 10.0\% | 1.0\% | 0.0\% | 0.3\% | 1.0\% | 2.6\% | 0.0\% | 6.8\% | 0.0\% | 0.9\% | 0.2\% | 0.2\% | 0.0\% | 7.7\% | 0.4\% | 55.2\% |
| 1996-1998 | 9.9\% | 0.2\% | 1.4\% | 0.2\% | 0.9\% | 0.5\% | 0.2\% | 0.0\% | 0.7\% | 0.0\% | 1.1\% | 0.0\% | 2.5\% | 0.0\% | 0.3\% | 0.0\% | 0.4\% | 0.0\% | 3.3\% | 1.3\% | 77.1\% |
| 1999-2007 | 14.7\% | 0.9\% | 1.3\% | 4.4\% | 2.2\% | 9.1\% | 2.0\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 7.4\% | 0.0\% | 1.4\% | 0.0\% | 0.1\% | 0.0\% | 4.4\% | 6.1\% | 45.6\% |




## Appendix C.57. Percent distribution of Cowlitz Fall Tule reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1981 | 5.6\% | 0.0\% | 0.0\% | 2.4\% | 6.5\% | 16.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 9.7\% | 0.0\% | 12.9\% | 0.0\% | 0.0\% | 0.0\% | 15.1\% | 0.0\% | 28.0\% |
| 1982 | 3.7\% | 0.0\% | 0.2\% | 1.4\% | 0.0\% | 14.5\% | 0.9\% | 0.0\% | 0.0\% | 0.5\% | 3.2\% | 0.0\% | 18.5\% | 0.0\% | 10.6\% | 2.1\% | 0.0\% | 0.0\% | 7.6\% | 1.8\% | 34.9\% |
| 1983 | 3.7\% | 0.0\% | 0.0\% | 6.7\% | 0.0\% | 17.8\% | 0.0\% | 0.0\% | 0.4\% | 3.7\% | 1.1\% | 0.0\% | 6.9\% | 0.0\% | 17.6\% | 0.4\% | 0.0\% | 0.0\% | 4.4\% | 1.1\% | 36.2\% |
| 1984 | 4.4\% | 0.0\% | 0.0\% | 7.2\% | 0.8\% | 24.5\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 1.9\% | 0.0\% | 4.4\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 15.0\% | 3.5\% | 36.0\% |
| 1985 | 3.7\% | 0.3\% | 0.0\% | 4.0\% | 0.0\% | 11.4\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 5.6\% | 0.0\% | 4.4\% | 0.0\% | 5.2\% | 0.4\% | 0.4\% | 0.0\% | 6.1\% | 8.1\% | 49.9\% |
| 1986 | 0.4\% | 0.1\% | 0.0\% | 0.2\% | 0.0\% | 12.6\% | 0.0\% | 0.0\% | 0.4\% | 0.6\% | 1.9\% | 0.0\% | 13.0\% | 0.0\% | 5.3\% | 0.2\% | 0.4\% | 0.0\% | 30.7\% | 6.8\% | 27.4\% |
| 1987 | 3.7\% | 0.3\% | 0.0\% | 3.9\% | 0.0\% | 9.7\% | 1.0\% | 0.0\% | 0.0\% | 1.2\% | 0.8\% | 0.0\% | 11.4\% | 0.0\% | 7.2\% | 0.1\% | 0.5\% | 0.0\% | 22.9\% | 8.4\% | 29.0\% |
| 1988 | 1.7\% | 0.3\% | 0.0\% | 1.9\% | 0.0\% | 15.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 15.5\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 24.0\% | 10.3\% | 27.7\% |
| 1989 | 3.3\% | 0.0\% | 0.7\% | 4.5\% | 0.0\% | 6.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 17.8\% | 0.0\% | 3.1\% | 0.0\% | 0.3\% | 0.0\% | 7.1\% | 7.1\% | 48.1\% |
| 1990 | 4.4\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 14.2\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 3.3\% | 0.0\% | 9.5\% | 0.0\% | 7.7\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 1.1\% | 51.8\% |
| 1991 | 9.7\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 5.6\% | 3.2\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 10.5\% | 0.0\% | 4.0\% | 0.0\% | 0.0\% | 0.0\% | 11.3\% | 5.6\% | 45.2\% |
| 1992 | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 17.7\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 7.0\% | 2.2\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 59.1\% |
| 1993 | 3.4\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 6.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 17.5\% | 0.0\% | 7.4\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 15.0\% | 43.6\% |
| 1994 | 4.2\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 88.7\% |
| 1995 | 0.6\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 1.8\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 4.7\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 1.2\% | 1.8\% | 83.4\% |
| 1996 | 4.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 3.7\% | 83.0\% |
| 1997 | 4.9\% | 0.0\% | 9.8\% | 3.0\% | 0.0\% | 4.9\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 68.3\% |
| 1998 | 3.7\% | 0.0\% | 0.0\% | 7.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.9\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 76.5\% |
| 1999 | 4.4\% | 0.0\% | 3.7\% | 0.0\% | 4.4\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.7\% | 57.4\% |
| 2000 | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.3\% | 11.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.5\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 5.2\% | 5.2\% | 52.1\% |
| 2001 | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.5\% | 0.0\% | 9.4\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 2.4\% | 70.6\% |
| 2002 | 6.2\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 7.8\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.7\% | 0.0\% | 21.4\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 3.8\% | 27.6\% |
| 2003 | 5.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 10.0\% | 1.9\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 17.1\% | 0.0\% | 6.6\% | 0.0\% | 0.0\% | 0.0\% | 8.9\% | 5.2\% | 42.6\% |
| 2004 | 4.3\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 6.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.8\% | 0.0\% | 9.1\% | 0.0\% | 1.9\% | 0.0\% | 9.1\% | 2.4\% | 48.1\% |
| 2005 | 2.6\% | 7.4\% | 0.0\% | 2.6\% | 0.0\% | 4.8\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.8\% | 0.0\% | 5.2\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 3.9\% | 59.3\% |
| 2006 | 5.9\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.6\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 11.0\% | 65.4\% |
| 2007 | 2.3\% | 1.5\% | 0.0\% | 6.1\% | 0.0\% | 10.6\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.1\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 59.8\% |
| 1983-2007 | 3.8\% | 0.4\% | 0.5\% | 2.5\% | 0.5\% | 8.8\% | 1.3\% | 0.0\% | 0.3\% | 0.6\% | 1.0\% | 0.0\% | 10.9\% | 0.1\% | 5.6\% | 0.2\% | 0.3\% | 0.0\% | 6.9\% | 4.6\% | 51.8\% |
| 1979-1984 | 4.4\% | 0.0\% | 0.1\% | 4.4\% | 1.8\% | 18.2\% | 0.2\% | 0.0\% | 0.1\% | 1.6\% | 2.5\% | 0.0\% | 9.9\% | 0.0\% | 10.3\% | 0.6\% | 0.0\% | 0.0\% | 10.5\% | 1.6\% | 33.8\% |
| 1985-1995 | 3.4\% | 0.1\% | 0.1\% | 2.3\% | 0.1\% | 9.5\% | 0.6\% | 0.0\% | 0.1\% | 0.8\% | 1.4\% | 0.0\% | 10.4\% | 0.2\% | 4.2\% | 0.2\% | 0.5\% | 0.0\% | 10.0\% | 5.8\% | 50.3\% |
| 1996-1998 | 4.2\% | 0.0\% | 3.3\% | 3.5\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 7.1\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 1.6\% | 75.9\% |
| 1999-2007 | 3.9\% | 1.0\% | 0.4\% | 1.7\% | 0.5\% | 6.2\% | 3.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 13.3\% | 0.0\% | 6.9\% | 0.0\% | 0.2\% | 0.0\% | 3.8\% | 5.4\% | 53.7\% |

Appendices
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## Appendix C.58. Percent distribution of Cowlitz Fall Tule total fishing mortalities among fisheries and escapement.

| Catch <br> Year | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1981 | 6.0\% | 0.0\% | 0.0\% | 2.4\% | 6.3\% | 18.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 0.0\% | 11.3\% | 0.0\% | 12.7\% | 0.5\% | 0.0\% | 0.0\% | 13.7\% | 0.0\% | 25.0\% |
| 1982 | 4.3\% | 0.0\% | 0.4\% | 1.6\% | 0.0\% | 16.8\% | 1.0\% | 0.0\% | 0.0\% | 0.4\% | 3.4\% | 0.0\% | 20.2\% | 0.0\% | 10.9\% | 2.8\% | 0.0\% | 0.0\% | 6.7\% | 1.8\% | 29.8\% |
| 1983 | 4.4\% | 0.0\% | 0.0\% | 7.2\% | 0.0\% | 18.9\% | 0.0\% | 0.0\% | 0.3\% | 3.9\% | 1.0\% | 0.0\% | 7.8\% | 0.0\% | 17.7\% | 0.5\% | 0.0\% | 0.0\% | 4.2\% | 1.0\% | 33.2\% |
| 1984 | 4.5\% | 0.0\% | 0.0\% | 7.5\% | 0.9\% | 25.6\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 1.9\% | 0.0\% | 4.7\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 14.6\% | 3.6\% | 34.2\% |
| 1985 | 4.0\% | 1.1\% | 0.0\% | 4.4\% | 0.0\% | 12.6\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 5.6\% | 0.0\% | 5.1\% | 0.0\% | 5.6\% | 0.5\% | 0.7\% | 0.0\% | 5.8\% | 8.6\% | 45.4\% |
| 1986 | 0.5\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 14.0\% | 0.0\% | 0.0\% | 0.3\% | 0.7\% | 1.8\% | 0.0\% | 14.6\% | 0.0\% | 5.5\% | 0.3\% | 0.5\% | 0.0\% | 29.8\% | 6.7\% | 24.9\% |
| 1987 | 6.0\% | 0.7\% | 0.0\% | 4.6\% | 0.0\% | 11.2\% | 0.9\% | 0.0\% | 0.0\% | 1.4\% | 0.7\% | 0.0\% | 12.1\% | 0.0\% | 7.0\% | 0.1\% | 0.5\% | 0.0\% | 21.1\% | 7.9\% | 25.6\% |
| 1988 | 1.8\% | 0.8\% | 0.0\% | 2.1\% | 0.0\% | 17.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 16.0\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 22.7\% | 10.5\% | 25.7\% |
| 1989 | 4.6\% | 0.0\% | 0.7\% | 4.7\% | 0.0\% | 7.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 18.7\% | 0.0\% | 3.3\% | 0.0\% | 0.3\% | 0.0\% | 6.8\% | 7.3\% | 45.2\% |
| 1990 | 4.4\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 15.5\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 3.7\% | 0.0\% | 10.1\% | 0.0\% | 7.7\% | 0.0\% | 4.0\% | 0.0\% | 0.0\% | 1.0\% | 47.8\% |
| 1991 | 12.4\% | 0.0\% | 0.0\% | 3.6\% | 0.0\% | 6.6\% | 2.9\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 11.7\% | 0.0\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 10.9\% | 5.8\% | 40.9\% |
| 1992 | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 20.2\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 7.9\% | 2.5\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 54.2\% |
| 1993 | 4.3\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 7.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 18.7\% | 0.0\% | 7.3\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 16.5\% | 38.5\% |
| 1994 | 5.1\% | 0.0\% | 0.0\% | 2.3\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 87.1\% |
| 1995 | 1.2\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 2.3\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 4.6\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 1.2\% | 1.7\% | 81.5\% |
| 1996 | 5.4\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 3.9\% | 80.0\% |
| 1997 | 5.7\% | 0.0\% | 10.9\% | 3.4\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 64.4\% |
| 1998 | 4.8\% | 0.0\% | 0.0\% | 8.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.7\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 73.8\% |
| 1999 | 6.7\% | 0.0\% | 4.0\% | 0.0\% | 5.4\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.4\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.4\% | 52.3\% |
| 2000 | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.5\% | 12.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 5.7\% | 47.2\% |
| 2001 | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.1\% | 0.0\% | 10.2\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 2.9\% | 67.2\% |
| 2002 | 7.1\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 7.2\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 27.4\% | 0.0\% | 21.4\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 4.1\% | 25.2\% |
| 2003 | 5.3\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 10.2\% | 2.2\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 18.2\% | 0.0\% | 6.9\% | 0.0\% | 0.0\% | 0.0\% | 8.6\% | 5.5\% | 40.3\% |
| 2004 | 5.4\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 5.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.3\% | 0.0\% | 9.4\% | 0.0\% | 2.7\% | 0.0\% | 9.0\% | 2.7\% | 44.8\% |
| 2005 | 2.9\% | 8.7\% | 0.0\% | 2.9\% | 0.0\% | 4.5\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.3\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 4.1\% | 56.6\% |
| 2006 | 5.7\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 5.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.1\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 12.1\% | 63.1\% |
| 2007 | 3.2\% | 4.5\% | 0.0\% | 5.8\% | 0.0\% | 9.7\% | 3.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.9\% | 0.0\% | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 51.3\% |
| 1983-2007 | 4.6\% | 0.6\% | 0.6\% | 2.8\% | 0.5\% | 9.6\% | 1.3\% | 0.0\% | 0.3\% | 0.6\% | 1.0\% | 0.0\% | 12.0\% | 0.1\% | 5.8\% | 0.2\% | 0.3\% | 0.0\% | 6.6\% | 4.8\% | 48.3\% |
| 1979-1984 | 4.8\% | 0.0\% | 0.1\% | 4.7\% | 1.8\% | 20.0\% | 0.2\% | 0.0\% | 0.1\% | 1.6\% | 2.4\% | 0.0\% | 11.0\% | 0.0\% | 10.4\% | 1.0\% | 0.0\% | 0.0\% | 9.8\% | 1.6\% | 30.6\% |
| 1985-1995 | 4.2\% | 0.3\% | 0.1\% | 2.7\% | 0.2\% | 10.7\% | 0.6\% | 0.0\% | 0.1\% | 0.9\% | 1.5\% | 0.0\% | 11.2\% | 0.2\% | 4.3\% | 0.2\% | 0.6\% | 0.0\% | 9.5\% | 6.0\% | 47.0\% |
| 1996-1998 | 5.3\% | 0.0\% | 3.6\% | 4.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 7.5\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 1.7\% | 72.7\% |
| 1999-2007 | 4.6\% | 1.5\% | 0.4\% | 1.7\% | 0.6\% | 6.1\% | 3.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 15.1\% | 0.0\% | 7.2\% | 0.0\% | 0.3\% | 0.0\% | 3.6\% | 5.8\% | 49.8\% |

Appendices
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## Appendix C.59. Percent distribution of Spring Creek Tule reported catch among fisheries and escapement.



## Appendix C.60. Percent distribution of Spring Creek Tule total fishing mortalities among fisheries and escapement.




| Catch Year | SEAK |  |  | AABM <br> NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1980 | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.8\% | 1.3\% | 0.0\% | 3.3\% | 0.5\% | 7.7\% | 0.0\% | 18.1\% | 1.0\% | 12.0\% | 3.1\% | 10.2\% | 0.0\% | 5.6\% | 0.0\% | 19.6\% |
| 1981 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 30.6\% | 0.3\% | 0.0\% | 1.8\% | 0.5\% | 2.5\% | 0.0\% | 22.6\% | 0.0\% | 8.0\% | 0.5\% | 3.3\% | 0.0\% | 1.3\% | 0.2\% | 28.2\% |
| 1982 | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 26.0\% | 0.5\% | 0.0\% | 0.8\% | 1.8\% | 0.3\% | 0.0\% | 18.6\% | 0.2\% | 7.6\% | 1.9\% | 1.3\% | 0.0\% | 14.2\% | 0.1\% | 26.5\% |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 34.6\% | 0.4\% | 0.0\% | 1.4\% | 2.3\% | 0.8\% | 0.0\% | 11.3\% | 0.0\% | 4.4\% | 1.3\% | 4.2\% | 0.0\% | 5.5\% | 0.0\% | 33.6\% |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 50.3\% | 0.3\% | 0.5\% | 0.8\% | 3.2\% | 1.6\% | 0.0\% | 5.9\% | 0.0\% | 1.2\% | 0.7\% | 1.0\% | 0.0\% | 10.5\% | 1.5\% | 22.5\% |
| 1985 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 28.0\% | 0.7\% | 0.0\% | 1.1\% | 0.9\% | 1.6\% | 0.0\% | 15.7\% | 0.3\% | 3.9\% | 1.3\% | 1.3\% | 0.0\% | 2.5\% | 0.6\% | 42.1\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 9.3\% | 2.7\% | 0.0\% | 2.5\% | 0.0\% | 8.1\% | 0.0\% | 6.9\% | 0.0\% | 2.2\% | 1.4\% | 3.4\% | 0.0\% | 9.8\% | 5.9\% | 47.8\% |
| 1987 | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 26.9\% | 2.5\% | 0.0\% | 0.5\% | 1.6\% | 0.2\% | 0.0\% | 16.6\% | 0.5\% | 4.0\% | 0.7\% | 1.5\% | 0.0\% | 19.4\% | 4.0\% | 21.3\% |
| 1988 | 0.3\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 28.8\% | 2.4\% | 0.0\% | 1.0\% | 0.6\% | 0.0\% | 0.0\% | 11.5\% | 0.5\% | 0.9\% | 0.3\% | 0.5\% | 0.0\% | 23.5\% | 1.8\% | 27.6\% |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 22.4\% | 0.0\% | 2.4\% | 0.0\% | 2.0\% | 0.0\% | 5.9\% | 0.8\% | 49.2\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 16.3\% | 0.0\% | 6.9\% | 0.0\% | 1.4\% | 0.0\% | 0.3\% | 2.8\% | 50.3\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.2\% | 2.0\% | 0.0\% | 0.7\% | 0.2\% | 2.5\% | 0.0\% | 9.3\% | 0.0\% | 4.3\% | 0.2\% | 1.1\% | 0.0\% | 2.0\% | 9.5\% | 57.9\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.3\% | 1.9\% | 0.0\% | 0.0\% | 0.5\% | 1.0\% | 0.0\% | 28.0\% | 0.0\% | 5.4\% | 0.0\% | 1.9\% | 0.0\% | 0.8\% | 3.7\% | 40.5\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.5\% | 4.5\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 19.7\% | 0.0\% | 2.5\% | 0.0\% | 4.1\% | 0.0\% | 2.1\% | 4.3\% | 43.7\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 27.6\% | 0.0\% | 0.0\% | 10.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 62.1\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 10.0\% | 86.7\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 0.0\% | 85.5\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.4\% | 3.9\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 8.7\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 8.2\% | 55.6\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 1.0\% | 5.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 22.2\% | 63.6\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 9.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 6.2\% | 68.7\% |
| 2000 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.0\% | 11.5\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 2.8\% | 3.7\% | 60.1\% |
| 2001 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 2.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 19.3\% | 0.0\% | 3.6\% | 0.1\% | 0.3\% | 0.0\% | 1.4\% | 4.8\% | 59.1\% |
| 2002 | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.6\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.6\% | 0.0\% | 7.8\% | 0.1\% | 0.0\% | 0.0\% | 8.5\% | 3.1\% | 45.8\% |
| 2003 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.2\% | 5.7\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 15.2\% | 0.0\% | 7.0\% | 0.0\% | 0.7\% | 0.0\% | 7.2\% | 2.3\% | 45.3\% |
| 2004 | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 0.8\% | 22.6\% | 8.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 8.4\% | 0.0\% | 3.7\% | 0.0\% | 0.1\% | 0.0\% | 17.4\% | 1.2\% | 36.1\% |
| 2005 | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 30.0\% | 6.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 21.7\% | 0.2\% | 32.1\% |
| 2006 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.9\% | 14.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.8\% | 1.2\% | 54.2\% |
| 2007 | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 14.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 2.8\% | 69.5\% |
| 1983-2007 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 18.4\% | 3.2\% | 0.0\% | 1.1\% | 0.5\% | 1.1\% | 0.0\% | 11.7\% | 0.1\% | 3.6\% | 0.4\% | 1.4\% | 0.0\% | 7.0\% | 3.6\% | 47.7\% |
| 1979-1984 | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 31.7\% | 0.6\% | 0.1\% | 1.6\% | 1.7\% | 2.6\% | 0.0\% | 15.3\% | 0.2\% | 6.6\% | 1.5\% | 4.0\% | 0.0\% | 7.5\% | 0.4\% | 26.1\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.3\% | 1.5\% | 0.0\% | 1.5\% | 0.4\% | 1.6\% | 0.0\% | 13.3\% | 0.1\% | 2.9\% | 0.4\% | 1.6\% | 0.0\% | 6.3\% | 3.9\% | 48.1\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 5.8\% | 3.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 10.1\% | 68.2\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} \text { 1999-2007 } \\ \text { Appendices } \end{gathered}$ | 0.1\% | 0.1\% | 0.0\% | 0.1\% | 0.1\% | 15.4\% | 6.8\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 9.7\% | 0.0\% | 3.3\% | 0.0\% | 0.2\% | 0.0\% | 8.7\% <br> Page | $\begin{gathered} \hline 2.8 \% \\ 130 \end{gathered}$ | 52.3\% |




| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1979 | 18.3\% | 0.3\% | 0.6\% | 7.9\% | 0.1\% | 13.3\% | 0.0\% | 0.4\% | 0.1\% | 4.1\% | 4.4\% | 0.0\% | 1.3\% | 0.1\% | 1.1\% | 0.1\% | 0.3\% | 0.0\% | 21.9\% | 0.5\% | 25.3\% |
| 1980 | 20.8\% | 0.6\% | 0.6\% | 7.0\% | 0.1\% | 7.8\% | 0.0\% | 0.5\% | 0.6\% | 1.7\% | 1.9\% | 0.0\% | 1.1\% | 0.0\% | 0.8\% | 0.0\% | 0.4\% | 0.0\% | 6.2\% | 0.7\% | 49.2\% |
| 1981 | 17.1\% | 0.0\% | 0.4\% | 5.9\% | 0.0\% | 4.1\% | 0.2\% | 0.2\% | 0.2\% | 1.1\% | 1.8\% | 0.0\% | 0.6\% | 0.0\% | 0.9\% | 0.0\% | 0.2\% | 0.0\% | 3.5\% | 0.0\% | 63.9\% |
| 1982 | 8.9\% | 0.4\% | 0.3\% | 4.4\% | 0.2\% | 5.5\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 1.6\% | 0.0\% | 0.8\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 74.5\% |
| 1983 | 22.2\% | 0.3\% | 0.0\% | 11.3\% | 0.2\% | 3.8\% | 0.0\% | 0.0\% | 0.2\% | 2.0\% | 3.4\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.4\% | 0.0\% | 48.8\% |
| 1984 | 17.6\% | 1.2\% | 0.2\% | 10.1\% | 0.2\% | 8.2\% | 0.2\% | 0.0\% | 0.2\% | 2.2\% | 2.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 14.4\% | 1.3\% | 40.9\% |
| 1985 | 12.9\% | 2.3\% | 0.3\% | 8.9\% | 0.0\% | 8.1\% | 0.1\% | 0.0\% | 0.1\% | 0.8\% | 2.4\% | 0.0\% | 0.5\% | 0.0\% | 0.5\% | 0.1\% | 0.5\% | 0.0\% | 30.9\% | 3.6\% | 28.2\% |
| 1986 | 12.2\% | 1.4\% | 0.1\% | 8.2\% | 0.0\% | 6.7\% | 0.1\% | 0.0\% | 0.1\% | 1.3\% | 1.2\% | 0.0\% | 0.8\% | 0.0\% | 0.2\% | 0.1\% | 0.6\% | 0.0\% | 31.8\% | 1.9\% | 33.4\% |
| 1987 | 19.4\% | 1.0\% | 0.4\% | 13.1\% | 0.1\% | 8.5\% | 0.3\% | 0.0\% | 0.0\% | 2.0\% | 0.7\% | 0.0\% | 1.5\% | 0.1\% | 0.4\% | 0.0\% | 0.6\% | 0.0\% | 31.3\% | 2.5\% | 18.3\% |
| 1988 | 11.4\% | 2.1\% | 0.5\% | 7.9\% | 0.0\% | 12.4\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.7\% | 0.0\% | 2.2\% | 0.0\% | 0.5\% | 0.1\% | 0.2\% | 0.0\% | 43.9\% | 2.0\% | 15.5\% |
| 1989 | 14.5\% | 0.0\% | 0.2\% | 15.2\% | 0.5\% | 8.1\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 1.4\% | 0.0\% | 1.2\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 40.4\% | 1.7\% | 16.1\% |
| 1990 | 14.2\% | 0.0\% | 1.1\% | 10.8\% | 0.0\% | 8.7\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.7\% | 0.0\% | 1.3\% | 0.0\% | 0.4\% | 0.0\% | 0.8\% | 0.0\% | 32.6\% | 1.3\% | 27.2\% |
| 1991 | 8.1\% | 1.3\% | 3.4\% | 6.7\% | 0.0\% | 10.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.5\% | 4.7\% | 46.3\% |
| 1992 | 3.7\% | 0.0\% | 0.0\% | 3.7\% | 0.0\% | 12.6\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 16.9\% | 6.7\% | 51.5\% |
| 1993 | 16.5\% | 0.0\% | 0.0\% | 7.5\% | 0.5\% | 19.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 1.6\% | 0.0\% | 1.1\% | 0.0\% | 0.7\% | 0.0\% | 13.9\% | 4.3\% | 34.5\% |
| 1994 | 11.8\% | 1.8\% | 0.0\% | 8.5\% | 1.7\% | 7.3\% | 0.6\% | 0.0\% | 0.0\% | 0.2\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.6\% | 3.6\% | 49.9\% |
| 1995 | 10.2\% | 0.1\% | 2.4\% | 2.7\% | 0.0\% | 7.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.7\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 9.6\% | 3.9\% | 62.1\% |
| 1996 | 4.4\% | 0.0\% | 0.0\% | 1.4\% | 0.2\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 22.2\% | 5.8\% | 63.9\% |
| 1997 | 12.7\% | 0.5\% | 3.2\% | 4.9\% | 0.9\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.7\% | 11.8\% | 44.4\% |
| 1998 | 9.9\% | 4.5\% | 2.8\% | 2.9\% | 1.2\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.1\% | 7.0\% | 58.4\% |
| 1999 | 13.4\% | 1.5\% | 2.8\% | 4.1\% | 1.1\% | 0.0\% | 0.3\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 12.8\% | 9.3\% | 52.8\% |
| 2000 | 22.2\% | 0.1\% | 3.3\% | 0.0\% | 2.6\% | 1.1\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 19.0\% | 4.3\% | 44.9\% |
| 2001 | 5.4\% | 0.0\% | 1.0\% | 0.0\% | 0.9\% | 0.8\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 13.0\% | 8.3\% | 67.7\% |
| 2002 | 16.2\% | 0.0\% | 2.5\% | 1.6\% | 0.9\% | 1.4\% | 0.5\% | 0.0\% | 0.5\% | 0.0\% | 1.1\% | 0.0\% | 1.9\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 17.5\% | 7.8\% | 47.0\% |
| 2003 | 14.9\% | 2.6\% | 0.6\% | 4.9\% | 1.1\% | 0.7\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 14.3\% | 7.0\% | 52.1\% |
| 2004 | 10.7\% | 4.2\% | 0.8\% | 3.7\% | 1.9\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 1.4\% | 0.0\% | 0.2\% | 0.0\% | 14.9\% | 6.5\% | 52.8\% |
| 2005 | 14.8\% | 1.8\% | 0.9\% | 9.3\% | 4.7\% | 3.4\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 13.6\% | 7.3\% | 39.9\% |
| 2006 | 14.0\% | 1.9\% | 1.4\% | 7.0\% | 1.7\% | 1.5\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 12.9\% | 15.8\% | 39.7\% |
| 2007 | 11.8\% | 0.3\% | 1.2\% | 6.6\% | 9.0\% | 1.2\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 11.2\% | 15.7\% | 40.5\% |
| 1983-2007 | 13.5\% | 1.0\% | 1.1\% | 6.4\% | 1.0\% | 5.7\% | 0.4\% | 0.0\% | 0.1\% | 0.6\% | 1.0\% | 0.0\% | 0.9\% | 0.0\% | 0.5\% | 0.0\% | 0.2\% | 0.0\% | 18.1\% | 5.0\% | 44.5\% |
| 1979-1984 | 17.5\% | 0.5\% | 0.3\% | 7.7\% | 0.1\% | 7.1\% | 0.1\% | 0.2\% | 0.2\% | 1.9\% | 2.6\% | 0.0\% | 0.7\% | 0.0\% | 0.6\% | 0.0\% | 0.3\% | 0.0\% | 9.3\% | 0.4\% | 50.4\% |
| 1985-1995 | 12.3\% | 0.9\% | 0.8\% | 8.5\% | 0.3\% | 9.9\% | 0.2\% | 0.0\% | 0.0\% | 0.5\% | 1.1\% | 0.0\% | 1.0\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 25.8\% | 3.3\% | 34.8\% |
| 1996-1998 | 9.0\% | 1.7\% | 2.0\% | 3.1\% | 0.8\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 18.3\% | 8.2\% | 55.6\% |
| 1999-2007 | 13.7\% | 1.4\% | 1.6\% | 4.1\% | 2.7\% | 1.3\% | 1.0\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 1.0\% | 0.0\% | 0.8\% | 0.0\% | 0.1\% | 0.0\% | 14.4\% | 9.1\% | 48.6\% |

Appendices
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## Appendix C.65. Percent distribution of Hanford Wild Brights reported catch among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1990 | 8.4\% | 0.5\% | 0.0\% | 4.3\% | 0.0\% | 8.4\% | 3.6\% | 0.0\% | 0.0\% | 0.5\% | 0.7\% | 0.0\% | 0.5\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 22.5\% | 6.1\% | 43.6\% |
| 1991 | 8.6\% | 0.0\% | 1.3\% | 9.4\% | 0.5\% | 4.7\% | 0.0\% | 0.0\% | 0.8\% | 0.2\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 23.3\% | 3.9\% | 45.7\% |
| 1992 | 16.4\% | 1.7\% | 1.4\% | 5.9\% | 0.0\% | 16.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 18.5\% | 1.7\% | 36.2\% |
| 1993 | 14.0\% | 0.0\% | 2.1\% | 2.9\% | 1.3\% | 5.3\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 16.1\% | 7.4\% | 42.1\% |
| 1994 | 14.4\% | 0.8\% | 0.0\% | 4.8\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 1.4\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.4\% | 5.4\% | 55.3\% |
| 1995 | 11.0\% | 0.0\% | 3.7\% | 4.3\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.8\% | 7.0\% | 62.0\% |
| 1996 | 9.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 28.4\% | 7.8\% | 53.5\% |
| 1997 | 16.2\% | 0.6\% | 0.9\% | 3.6\% | 2.5\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.9\% | 7.4\% | 53.1\% |
| 1998 | 12.7\% | 0.0\% | 0.0\% | 8.4\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.2\% | 6.3\% | 53.0\% |
| 1999 | 10.4\% | 0.4\% | 2.1\% | 7.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.9\% | 6.7\% | 60.4\% |
| 2000 | 16.4\% | 0.5\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 29.1\% | 5.5\% | 46.8\% |
| 2001 | 4.3\% | 1.2\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.5\% | 14.4\% | 57.6\% |
| 2002 | 13.9\% | 0.0\% | 1.3\% | 0.7\% | 0.7\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 10.0\% | 10.7\% | 58.2\% |
| 2003 | 12.6\% | 0.0\% | 0.9\% | 3.9\% | 0.6\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 14.3\% | 9.2\% | 57.2\% |
| 2004 | 17.3\% | 0.0\% | 2.9\% | 6.1\% | 2.3\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.2\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 14.9\% | 4.0\% | 48.7\% |
| 2005 | 11.8\% | 0.0\% | 0.0\% | 8.0\% | 3.3\% | 4.2\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 12.2\% | 15.1\% | 40.8\% |
| 2006 | 17.2\% | 0.0\% | 0.9\% | 5.0\% | 0.0\% | 2.8\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.2\% | 19.4\% | 36.5\% |
| 2007 | 19.9\% | 0.0\% | 1.0\% | 5.6\% | 16.4\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.0\% | 11.2\% | 33.9\% |
| 1983-2007 | 13.1\% | 0.3\% | 1.2\% | 4.5\% | 1.7\% | 3.2\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.9\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 16.6\% | 8.3\% | 49.1\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 12.1\% | 0.5\% | 1.4\% | 5.3\% | 0.3\% | 6.9\% | 0.9\% | 0.0\% | 0.1\% | 0.1\% | 0.7\% | 0.0\% | 1.2\% | 0.0\% | 0.4\% | 0.0\% | 0.1\% | 0.0\% | 17.1\% | 5.3\% | 47.5\% |
| 1996-1998 | 12.9\% | 0.2\% | 0.3\% | 4.0\% | 1.6\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.8\% | 7.2\% | 53.2\% |
| 1999-2007 | 13.8\% | 0.2\% | 1.3\% | 4.0\% | 2.6\% | 1.7\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.9\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 15.1\% | 10.7\% | 48.9\% |

## Appendix C.66. Percent distribution of Hanford Wild Brights total fishing mortalities among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1990 | 9.3\% | 1.1\% | 0.4\% | 5.1\% | 0.0\% | 8.9\% | 3.6\% | 0.0\% | 0.0\% | 0.4\% | 0.6\% | 0.0\% | 0.6\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 21.7\% | 6.6\% | 40.8\% |
| 1991 | 10.7\% | 0.0\% | 1.4\% | 10.4\% | 0.5\% | 5.1\% | 0.0\% | 0.0\% | 1.0\% | 0.2\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 22.1\% | 4.0\% | 43.2\% |
| 1992 | 18.1\% | 5.4\% | 1.5\% | 6.9\% | 0.0\% | 16.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 16.3\% | 1.5\% | 31.4\% |
| 1993 | 20.6\% | 0.0\% | 2.1\% | 3.0\% | 1.2\% | 6.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 14.4\% | 7.2\% | 36.9\% |
| 1994 | 17.5\% | 1.9\% | 0.0\% | 5.2\% | 0.0\% | 4.7\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 1.3\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.7\% | 5.5\% | 51.2\% |
| 1995 | 13.1\% | 0.0\% | 4.1\% | 5.4\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.3\% | 7.1\% | 58.0\% |
| 1996 | 12.8\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 27.1\% | 7.9\% | 50.0\% |
| 1997 | 17.8\% | 1.2\% | 1.0\% | 3.6\% | 3.1\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.3\% | 7.6\% | 50.4\% |
| 1998 | 14.5\% | 0.0\% | 0.0\% | 9.4\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.5\% | 6.6\% | 50.1\% |
| 1999 | 13.8\% | 1.5\% | 2.3\% | 7.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.3\% | 6.5\% | 55.8\% |
| 2000 | 19.7\% | 0.4\% | 2.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 27.8\% | 5.6\% | 44.0\% |
| 2001 | 5.9\% | 2.7\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.7\% | 15.1\% | 54.1\% |
| 2002 | 17.6\% | 0.0\% | 1.4\% | 0.8\% | 0.9\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 9.5\% | 11.0\% | 54.1\% |
| 2003 | 13.6\% | 0.0\% | 0.9\% | 4.1\% | 0.8\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 14.1\% | 9.7\% | 55.5\% |
| 2004 | 18.9\% | 0.0\% | 3.1\% | 6.5\% | 3.1\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.2\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 14.3\% | 4.2\% | 46.3\% |
| 2005 | 13.0\% | 0.0\% | 0.0\% | 8.6\% | 4.0\% | 4.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 11.7\% | 15.7\% | 38.4\% |
| 2006 | 19.1\% | 0.0\% | 1.0\% | 5.2\% | 0.0\% | 2.8\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.4\% | 19.8\% | 34.3\% |
| 2007 | 23.4\% | 0.0\% | 0.9\% | 5.6\% | 18.1\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.2\% | 10.9\% | 30.2\% |
| 1983-2007 | 15.5\% | 0.8\% | 1.3\% | 4.9\% | 1.9\% | 3.4\% | 0.5\% | 0.0\% | 0.1\% | 0.0\% | 0.3\% | 0.0\% | 0.9\% | 0.0\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 15.7\% | 8.5\% | 45.8\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 14.9\% | 1.4\% | 1.6\% | 6.0\% | 0.3\% | 7.4\% | 0.9\% | 0.0\% | 0.2\% | 0.1\% | 0.7\% | 0.0\% | 1.2\% | 0.0\% | 0.4\% | 0.0\% | 0.2\% | 0.0\% | 15.9\% | 5.3\% | 43.6\% |
| 1996-1998 | 15.1\% | 0.4\% | 0.3\% | 4.6\% | 2.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.0\% | 7.4\% | 50.2\% |
| 1999-2007 | 16.1\% | 0.5\% | 1.5\% | 4.3\% | 3.0\% | 1.7\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 1.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 14.4\% | 11.0\% | 45.9\% |

## Appendix C.67. Percent distribution of Lyons Ferry reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1988 | 2.8\% | 0.0\% | 0.0\% | 3.3\% | 0.0\% | 18.6\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 1.0\% | 0.0\% | 10.8\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 29.7\% | 3.6\% | 29.4\% |
| 1989 | 2.8\% | 0.0\% | 0.0\% | 6.3\% | 0.0\% | 15.9\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 12.3\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 27.2\% | 3.2\% | 26.5\% |
| 1990 | 5.3\% | 0.0\% | 0.0\% | 3.5\% | 0.0\% | 16.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 9.6\% | 0.0\% | 3.4\% | 0.0\% | 1.4\% | 0.0\% | 26.4\% | 1.0\% | 32.8\% |
| 1991 | 2.7\% | 0.0\% | 1.8\% | 4.9\% | 0.0\% | 8.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 4.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 12.8\% | 1.3\% | 61.1\% |
| 1992 | 1.2\% | 1.2\% | 0.0\% | 3.5\% | 0.0\% | 10.6\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 0.0\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.2\% | 1.8\% | 62.4\% |
| 1993 | 3.6\% | 0.0\% | 0.0\% | 4.7\% | 0.0\% | 10.3\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 2.0\% | 0.0\% | 7.9\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 13.8\% | 0.0\% | 55.3\% |
| 1994 | 6.1\% | 0.5\% | 1.4\% | 6.1\% | 0.0\% | 7.1\% | 0.0\% | 0.0\% | 0.7\% | 0.7\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.3\% | 0.5\% | 67.0\% |
| 2003 | 6.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 11.6\% | 3.6\% | 70.4\% |
| 2004 | 2.3\% | 0.0\% | 0.0\% | 1.4\% | 1.4\% | 1.7\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.2\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 2.5\% | 78.3\% |
| 2005 | 3.5\% | 0.2\% | 0.0\% | 3.0\% | 1.2\% | 3.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.7\% | 0.0\% | 2.5\% | 0.0\% | 1.4\% | 0.0\% | 13.2\% | 0.9\% | 66.5\% |
| 2006 | 2.1\% | 0.0\% | 0.0\% | 0.3\% | 1.8\% | 0.4\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 5.3\% | 0.7\% | 85.0\% |
| 2007 | 0.2\% | 0.1\% | 0.0\% | 0.8\% | 0.6\% | 2.8\% | 0.8\% | 0.0\% | 0.3\% | 0.0\% | 0.1\% | 0.0\% | 0.9\% | 0.0\% | 1.7\% | 0.0\% | 0.3\% | 0.0\% | 8.0\% | 6.1\% | 77.5\% |
| 1983-2007 | 3.3\% | 0.2\% | 0.3\% | 3.1\% | 0.4\% | 8.1\% | 0.5\% | 0.0\% | 0.1\% | 0.2\% | 1.0\% | 0.0\% | 5.7\% | 0.0\% | 1.5\% | 0.0\% | 0.3\% | 0.0\% | 14.0\% | 2.1\% | 59.3\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 3.5\% | 0.2\% | 0.5\% | 4.6\% | 0.0\% | 12.5\% | 0.5\% | 0.0\% | 0.1\% | 0.3\% | 1.6\% | 0.0\% | 7.2\% | 0.0\% | 1.4\% | 0.0\% | 0.2\% | 0.0\% | 17.9\% | 1.6\% | 47.8\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1999-2007 | 3.0\% | 0.1\% | 0.0\% | 1.1\% | 1.0\% | 2.0\% | 0.5\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 0.0\% | 1.6\% | 0.0\% | 0.3\% | 0.0\% | 8.5\% | 2.8\% | 75.6\% |

## Appendix C.68. Percent distribution of Lyons Ferry total fishing mortalities among fisheries and escapement.

| Catch <br> Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1988 | 3.2\% | 0.0\% | 0.1\% | 4.0\% | 0.0\% | 21.1\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.9\% | 0.0\% | 11.6\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 27.7\% | 3.5\% | 26.8\% |
| 1989 | 4.2\% | 0.0\% | 0.0\% | 7.0\% | 0.0\% | 17.9\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 12.9\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 25.4\% | 3.3\% | 23.8\% |
| 1990 | 5.5\% | 0.0\% | 0.0\% | 3.7\% | 0.0\% | 17.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 10.0\% | 0.0\% | 3.5\% | 0.0\% | 1.7\% | 0.0\% | 25.7\% | 1.1\% | 31.3\% |
| 1991 | 3.4\% | 0.0\% | 2.1\% | 5.5\% | 0.0\% | 10.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 4.2\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 12.6\% | 1.3\% | 58.0\% |
| 1992 | 1.6\% | 5.2\% | 0.0\% | 4.2\% | 0.0\% | 12.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 6.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.8\% | 2.1\% | 55.2\% |
| 1993 | 5.4\% | 0.7\% | 0.4\% | 5.8\% | 0.0\% | 11.6\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 1.8\% | 0.0\% | 8.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 13.0\% | 0.0\% | 50.7\% |
| 1994 | 7.1\% | 1.2\% | 1.3\% | 5.9\% | 0.0\% | 7.4\% | 0.0\% | 0.0\% | 0.7\% | 0.7\% | 3.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 7.4\% | 0.7\% | 63.7\% |
| 2003 | 7.7\% | 0.0\% | 0.0\% | 0.5\% | 0.2\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.3\% | 0.0\% | 1.4\% | 0.0\% | 0.2\% | 0.0\% | 11.6\% | 4.6\% | 66.2\% |
| 2004 | 2.6\% | 0.0\% | 0.0\% | 1.6\% | 1.8\% | 1.8\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 0.0\% | 1.9\% | 0.0\% | 0.2\% | 0.0\% | 4.8\% | 2.7\% | 75.9\% |
| 2005 | 4.0\% | 0.2\% | 0.0\% | 3.3\% | 1.6\% | 4.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 0.0\% | 2.7\% | 0.0\% | 2.0\% | 0.0\% | 13.3\% | 1.1\% | 63.9\% |
| 2006 | 3.0\% | 0.0\% | 0.0\% | 0.4\% | 2.6\% | 0.4\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 5.4\% | 0.8\% | 81.7\% |
| 2007 | 0.4\% | 0.2\% | 0.0\% | 1.3\% | 1.0\% | 3.9\% | 1.0\% | 0.0\% | 0.4\% | 0.0\% | 0.1\% | 0.0\% | 1.1\% | 0.0\% | 1.9\% | 0.0\% | 1.8\% | 0.0\% | 8.2\% | 7.6\% | 71.3\% |
| 1983-2007 | 4.0\% | 0.6\% | 0.3\% | 3.6\% | 0.6\% | 9.0\% | 0.6\% | 0.0\% | 0.1\% | 0.2\% | 1.0\% | 0.0\% | 6.2\% | 0.0\% | 1.6\% | 0.0\% | 0.5\% | 0.0\% | 13.6\% | 2.4\% | 55.7\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 4.3\% | 1.0\% | 0.6\% | 5.1\% | 0.0\% | 13.9\% | 0.6\% | 0.0\% | 0.1\% | 0.3\% | 1.7\% | 0.0\% | 7.6\% | 0.0\% | 1.5\% | 0.0\% | 0.3\% | 0.0\% | 17.1\% | 1.7\% | 44.2\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1999-2007 | 3.5\% | 0.1\% | 0.0\% | 1.4\% | 1.4\% | 2.3\% | 0.6\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 0.0\% | 1.8\% | 0.0\% | 0.8\% | 0.0\% | 8.7\% | 3.4\% | 71.8\% |

## Appendix C.69. Percent distribution of Lewis River Wild reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Troll | Terminal |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport |  | Net | Sport |  |
| 1981 | 6.4\% | 0.0\% | 0.0\% | 3.3\% | 2.1\% | 6.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.9\% | 0.0\% | 2.0\% | 0.0\% | 2.6\% | 0.1\% | 0.2\% | 0.0\% | 4.1\% | 13.1\% | 57.8\% |
| 1982 | 6.0\% | 1.3\% | 0.2\% | 3.0\% | 0.0\% | 10.7\% | 0.0\% | 0.4\% | 0.0\% | 1.4\% | 1.5\% | 0.0\% | 4.1\% | 0.9\% | 7.5\% | 0.6\% | 0.8\% | 0.0\% | 4.7\% | 15.3\% | 41.7\% |
| 1986 | 4.9\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 6.8\% | 2.5\% | 0.0\% | 0.0\% | 2.2\% | 0.9\% | 0.0\% | 3.3\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 26.6\% | 11.5\% | 39.0\% |
| 1987 | 4.1\% | 0.0\% | 0.0\% | 4.7\% | 0.0\% | 8.4\% | 0.9\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 2.7\% | 0.4\% | 0.9\% | 0.0\% | 0.3\% | 0.0\% | 25.3\% | 5.1\% | 46.0\% |
| 1988 | 4.4\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 8.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 4.7\% | 0.0\% | 1.1\% | 0.0\% | 1.1\% | 0.0\% | 23.1\% | 14.5\% | 38.7\% |
| 1989 | 1.8\% | 0.2\% | 0.2\% | 4.5\% | 0.5\% | 5.1\% | 0.5\% | 0.0\% | 0.0\% | 0.2\% | 1.5\% | 0.0\% | 4.9\% | 0.2\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 9.2\% | 6.6\% | 63.9\% |
| 1990 | 5.4\% | 0.0\% | 0.0\% | 1.7\% | 0.6\% | 12.1\% | 0.8\% | 0.0\% | 0.0\% | 0.4\% | 0.6\% | 0.0\% | 4.0\% | 0.0\% | 1.8\% | 0.0\% | 1.1\% | 0.0\% | 3.3\% | 2.2\% | 65.8\% |
| 1991 | 6.0\% | 0.1\% | 0.0\% | 3.8\% | 1.1\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.7\% | 0.0\% | 2.4\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 15.8\% | 6.0\% | 56.6\% |
| 1992 | 1.6\% | 0.0\% | 0.0\% | 3.8\% | 0.7\% | 6.2\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.7\% | 0.0\% | 0.9\% | 0.0\% | 4.5\% | 21.7\% | 55.1\% |
| 1993 | 3.6\% | 0.0\% | 1.0\% | 4.9\% | 0.0\% | 7.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.8\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% | 8.6\% | 64.3\% |
| 1994 | 6.4\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 83.2\% |
| 1995 | 6.6\% | 0.0\% | 2.3\% | 3.2\% | 0.0\% | 5.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.6\% | 57.6\% |
| 1996 | 7.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 4.6\% | 84.0\% |
| 1997 | 12.6\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 80.7\% |
| 1998 | 8.1\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 2.0\% | 84.8\% |
| 1999 | 11.8\% | 0.0\% | 0.0\% | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 82.4\% |
| 2000 | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.4\% | 3.0\% | 77.6\% |
| 2001 | 4.9\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 8.5\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.8\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 2.2\% | 3.1\% | 69.1\% |
| 2002 | 11.4\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 6.1\% | 5.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.3\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 2.5\% | 60.9\% |
| 2003 | 9.4\% | 0.0\% | 0.0\% | 1.5\% | 1.1\% | 5.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.4\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 6.8\% | 5.9\% | 58.8\% |
| 2004 | 6.0\% | 0.0\% | 0.5\% | 3.1\% | 0.8\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 1.9\% | 82.4\% |
| 2005 | 3.3\% | 0.0\% | 0.0\% | 11.4\% | 3.5\% | 4.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 11.4\% | 16.4\% | 47.7\% |
| 2006 | 13.6\% | 0.0\% | 0.5\% | 6.8\% | 1.4\% | 8.3\% | 0.9\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% | 19.0\% | 39.8\% |
| 2007 | 34.3\% | 0.0\% | 1.1\% | 6.1\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.2\% | 0.0\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 0.0\% | 42.5\% |
| 1983-2007 | 7.6\% | 0.1\% | 0.4\% | 3.4\% | 0.5\% | 5.1\% | 0.6\% | 0.0\% | 0.1\% | 0.4\% | 0.4\% | 0.0\% | 2.8\% | 0.1\% | 1.2\% | 0.0\% | 0.2\% | 0.0\% | 7.5\% | 8.0\% | 61.7\% |
| 1979-1984 | 6.2\% | 0.6\% | 0.1\% | 3.2\% | 1.1\% | 8.3\% | 0.0\% | 0.2\% | 0.0\% | 1.4\% | 1.2\% | 0.0\% | 3.1\% | 0.4\% | 5.0\% | 0.4\% | 0.5\% | 0.0\% | 4.4\% | 14.2\% | 49.7\% |
| 1985-1995 | 4.5\% | 0.0\% | 0.4\% | 3.4\% | 0.3\% | 6.9\% | 0.5\% | 0.0\% | 0.0\% | 0.6\% | 0.8\% | 0.0\% | 2.6\% | 0.1\% | 0.8\% | 0.0\% | 0.3\% | 0.0\% | 11.6\% | 10.1\% | 57.0\% |
| 1996-1998 | 9.5\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 3.4\% | 83.2\% |
| 1999-2007 | 10.8\% | 0.0\% | 0.6\% | 3.9\% | 0.8\% | 4.0\% | 1.1\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 5.7\% | 62.4\% |

Appendices
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## Appendix C.70. Percent distribution of Lewis River Wild total fishing mortalities among fisheries and escapement.

| Catch Year | AABM |  |  |  |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1981 | 7.4\% | 0.0\% | 0.0\% | 3.8\% | 2.1\% | 7.5\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 1.0\% | 0.0\% | 2.5\% | 0.0\% | 2.9\% | 0.2\% | 0.2\% | 0.0\% | 4.0\% | 13.7\% | 53.1\% |
| 1982 | 7.4\% | 1.2\% | 0.2\% | 3.5\% | 0.0\% | 11.7\% | 0.0\% | 0.4\% | 0.0\% | 1.6\% | 1.4\% | 0.0\% | 4.2\% | 0.8\% | 7.5\% | 0.6\% | 0.8\% | 0.0\% | 4.5\% | 15.2\% | 38.8\% |
| 1986 | 6.4\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 8.0\% | 2.6\% | 0.0\% | 0.0\% | 2.2\% | 1.0\% | 0.0\% | 3.8\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 25.5\% | 11.6\% | 36.0\% |
| 1987 | 5.7\% | 0.0\% | 0.0\% | 5.3\% | 0.0\% | 9.5\% | 0.9\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 2.9\% | 0.4\% | 0.9\% | 0.0\% | 0.3\% | 0.0\% | 24.5\% | 5.3\% | 42.7\% |
| 1988 | 5.2\% | 0.0\% | 0.0\% | 3.5\% | 0.0\% | 10.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 5.0\% | 0.0\% | 1.1\% | 0.0\% | 1.4\% | 0.0\% | 21.9\% | 15.2\% | 35.4\% |
| 1989 | 2.4\% | 0.6\% | 0.3\% | 5.1\% | 0.4\% | 5.8\% | 0.5\% | 0.0\% | 0.0\% | 0.2\% | 1.6\% | 0.0\% | 5.4\% | 0.3\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 9.0\% | 7.1\% | 60.5\% |
| 1990 | 7.8\% | 0.0\% | 0.0\% | 1.9\% | 0.6\% | 13.3\% | 0.8\% | 0.0\% | 0.0\% | 0.5\% | 0.7\% | 0.0\% | 4.2\% | 0.0\% | 1.9\% | 0.0\% | 1.3\% | 0.0\% | 3.2\% | 2.3\% | 61.5\% |
| 1991 | 7.0\% | 0.3\% | 0.0\% | 4.1\% | 1.2\% | 6.4\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.7\% | 0.0\% | 2.5\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 15.4\% | 6.6\% | 54.2\% |
| 1992 | 1.7\% | 0.0\% | 0.0\% | 4.3\% | 0.7\% | 6.7\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.7\% | 0.0\% | 1.0\% | 0.0\% | 4.5\% | 23.2\% | 52.2\% |
| 1993 | 4.4\% | 0.0\% | 1.2\% | 5.7\% | 0.0\% | 8.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 1.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 8.9\% | 61.0\% |
| 1994 | 9.4\% | 0.0\% | 0.0\% | 4.9\% | 0.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 78.2\% |
| 1995 | 7.8\% | 0.0\% | 2.3\% | 3.9\% | 0.0\% | 6.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.3\% | 53.8\% |
| 1996 | 9.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 4.8\% | 81.9\% |
| 1997 | 14.0\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 78.9\% |
| 1998 | 8.1\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 2.0\% | 84.8\% |
| 1999 | 18.3\% | 0.0\% | 1.7\% | 5.0\% | 0.0\% | 1.7\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 70.0\% |
| 2000 | 6.8\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.1\% | 2.7\% | 71.2\% |
| 2001 | 5.9\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 8.9\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.3\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 3.4\% | 65.0\% |
| 2002 | 14.5\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 5.9\% | 5.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.6\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 4.6\% | 2.6\% | 56.1\% |
| 2003 | 10.5\% | 0.0\% | 0.0\% | 1.7\% | 1.3\% | 5.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.3\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 6.5\% | 6.1\% | 56.5\% |
| 2004 | 6.8\% | 0.0\% | 0.5\% | 3.4\% | 1.1\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 2.0\% | 80.9\% |
| 2005 | 3.8\% | 0.0\% | 0.0\% | 12.2\% | 4.3\% | 4.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 11.0\% | 17.0\% | 45.2\% |
| 2006 | 14.4\% | 0.0\% | 0.5\% | 6.8\% | 1.5\% | 8.3\% | 1.0\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 19.7\% | 38.2\% |
| 2007 | 38.7\% | 0.0\% | 1.0\% | 5.7\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.7\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 39.7\% |
| 1983-2007 | 9.3\% | 0.1\% | 0.5\% | 3.7\% | 0.5\% | 5.7\% | 0.8\% | 0.0\% | 0.1\% | 0.4\% | 0.4\% | 0.0\% | 3.2\% | 0.1\% | 1.2\% | 0.0\% | 0.2\% | 0.0\% | 7.3\% | 8.3\% | 58.2\% |
| 1979-1984 | 7.4\% | 0.6\% | 0.1\% | 3.6\% | 1.1\% | 9.6\% | 0.0\% | 0.2\% | 0.0\% | 1.6\% | 1.2\% | 0.0\% | 3.3\% | 0.4\% | 5.2\% | 0.4\% | 0.5\% | 0.0\% | 4.3\% | 14.5\% | 46.0\% |
| 1985-1995 | 5.8\% | 0.1\% | 0.4\% | 4.1\% | 0.3\% | 7.9\% | 0.5\% | 0.0\% | 0.0\% | 0.7\% | 0.8\% | 0.0\% | 2.9\% | 0.1\% | 0.8\% | 0.0\% | 0.4\% | 0.0\% | 11.2\% | 10.6\% | 53.6\% |
| 1996-1998 | 10.4\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 3.6\% | 81.9\% |
| 1999-2007 | 13.3\% | 0.0\% | 1.0\% | 3.9\% | 0.9\% | 4.2\% | 1.5\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 5.6\% | 5.9\% | 58.1\% |

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## Appendix C.71. Percent distribution of Salmon River reported catch among fisheries and escapement.

| Catch <br> Year | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1981 | 13.9\% | 0.0\% | 0.4\% | 28.2\% | 0.0\% | 3.7\% | 0.7\% | 0.0\% | 0.0\% | 0.6\% | 1.8\% | 0.0\% | 1.3\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.2\% | 32.2\% |
| 1982 | 10.4\% | 1.5\% | 0.9\% | 14.4\% | 0.0\% | 7.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.8\% | 0.0\% | 2.6\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.3\% | 39.9\% |
| 1983 | 20.9\% | 0.6\% | 0.0\% | 20.5\% | 0.0\% | 10.5\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.0\% | 31.0\% |
| 1984 | 10.5\% | 0.0\% | 0.0\% | 17.5\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 1.2\% | 0.0\% | 0.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 21.0\% | 42.1\% |
| 1985 | 12.3\% | 6.7\% | 0.0\% | 16.2\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.6\% | 41.2\% |
| 1986 | 14.6\% | 0.0\% | 0.0\% | 12.9\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.0\% | 49.9\% |
| 1987 | 10.4\% | 0.0\% | 0.0\% | 15.3\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.0\% | 44.8\% |
| 1988 | 9.6\% | 0.0\% | 0.0\% | 6.4\% | 0.0\% | 3.9\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.5\% | 62.7\% |
| 1989 | 8.4\% | 0.0\% | 0.0\% | 11.4\% | 0.0\% | 3.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 3.4\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 24.0\% | 46.8\% |
| 1990 | 11.9\% | 0.7\% | 0.0\% | 10.6\% | 1.3\% | 7.8\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.9\% | 0.0\% | 3.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.9\% | 37.9\% |
| 1991 | 18.4\% | 0.0\% | 0.5\% | 15.2\% | 0.8\% | 5.8\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.7\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 24.5\% | 33.4\% |
| 1992 | 2.6\% | 0.6\% | 0.0\% | 6.6\% | 1.8\% | 14.8\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.4\% | 0.0\% | 1.8\% | 0.0\% | 0.5\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 15.3\% | 54.5\% |
| 1993 | 7.7\% | 0.2\% | 0.2\% | 15.3\% | 1.1\% | 18.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.5\% | 0.0\% | 3.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.7\% | 30.6\% |
| 1994 | 8.7\% | 0.2\% | 1.0\% | 14.8\% | 2.1\% | 4.7\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.1\% | 0.0\% | 1.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.3\% | 48.9\% |
| 1995 | 6.8\% | 0.2\% | 0.3\% | 4.6\% | 1.0\% | 0.9\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 30.4\% | 55.3\% |
| 1996 | 11.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 51.6\% | 31.5\% |
| 1997 | 27.7\% | 0.0\% | 1.6\% | 3.3\% | 0.4\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.0\% | 46.1\% |
| 1998 | 10.4\% | 0.4\% | 0.4\% | 11.1\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 31.4\% | 44.2\% |
| 1999 | 12.3\% | 0.4\% | 0.0\% | 2.7\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 34.6\% | 45.1\% |
| 2000 | 12.8\% | 0.0\% | 0.5\% | 2.2\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.7\% | 61.7\% |
| 2001 | 12.2\% | 0.0\% | 0.7\% | 3.3\% | 2.0\% | 0.2\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 25.1\% | 52.2\% |
| 2002 | 17.7\% | 0.0\% | 0.9\% | 7.1\% | 1.5\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.9\% | 36.3\% |
| 2003 | 12.9\% | 0.6\% | 0.6\% | 5.8\% | 1.6\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.5\% | 41.4\% |
| 2004 | 18.1\% | 0.8\% | 0.8\% | 7.3\% | 3.5\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.9\% | 42.7\% |
| 2005 | 19.5\% | 0.0\% | 1.2\% | 8.4\% | 5.6\% | 2.6\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.1\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 30.1\% | 29.7\% |
| 2006 | 23.8\% | 0.0\% | 1.6\% | 12.1\% | 7.5\% | 2.0\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.1\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 26.3\% | 20.3\% |
| 2007 | 12.7\% | 0.0\% | 0.9\% | 6.8\% | 7.2\% | 0.2\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.2\% | 46.7\% |
| 1983-2007 | 13.3\% | 0.5\% | 0.5\% | 10.4\% | 1.6\% | 3.6\% | 0.1\% | 0.0\% | 0.0\% | 0.5\% | 0.3\% | 0.0\% | 1.4\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.3\% | 42.6\% |
| 1979-1984 | 13.9\% | 0.5\% | 0.3\% | 20.1\% | 0.0\% | 6.1\% | 0.2\% | 0.0\% | 0.0\% | 1.4\% | 0.9\% | 0.0\% | 1.1\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 18.1\% | 36.3\% |
| 1985-1995 | 10.1\% | 0.8\% | 0.2\% | 11.8\% | 0.7\% | 6.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.5\% | 0.0\% | 1.5\% | 0.0\% | 0.6\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 21.0\% | 46.0\% |
| 1996-1998 | 16.4\% | 0.1\% | 0.7\% | 4.8\% | 0.4\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 34.0\% | 40.6\% |
| 1999-2007 | 15.8\% | 0.2\% | 0.8\% | 6.2\% | 3.7\% | 0.8\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 27.7\% | 41.8\% |

Appendices

Appendix C.72. Percent distribution of Salmon River total fishing mortalities among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1981 | 15.8\% | 0.0\% | 0.4\% | 29.9\% | 0.0\% | 4.7\% | 0.6\% | 0.0\% | 0.0\% | 1.0\% | 1.8\% | 0.0\% | 1.4\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.5\% | 27.9\% |
| 1982 | 14.2\% | 1.8\% | 0.9\% | 17.7\% | 0.0\% | 7.4\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.6\% | 0.0\% | 2.3\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.1\% | 33.4\% |
| 1983 | 26.6\% | 0.7\% | 0.0\% | 21.3\% | 0.0\% | 10.2\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.6\% | 26.3\% |
| 1984 | 11.8\% | 0.0\% | 0.0\% | 18.5\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 1.1\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 21.9\% | 39.1\% |
| 1985 | 15.0\% | 12.2\% | 0.0\% | 15.2\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.3\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.8\% | 33.5\% |
| 1986 | 21.2\% | 0.0\% | 0.0\% | 14.2\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 0.5\% | 0.0\% | 0.5\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.6\% | 41.3\% |
| 1987 | 17.7\% | 0.0\% | 0.0\% | 15.5\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.4\% | 38.6\% |
| 1988 | 15.0\% | 0.0\% | 0.0\% | 8.7\% | 0.0\% | 5.3\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.9\% | 53.6\% |
| 1989 | 18.9\% | 0.0\% | 0.0\% | 16.0\% | 0.0\% | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 3.2\% | 0.0\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 20.9\% | 34.6\% |
| 1990 | 18.8\% | 2.0\% | 0.0\% | 12.8\% | 1.2\% | 7.9\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.8\% | 0.0\% | 2.9\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.7\% | 30.2\% |
| 1991 | 24.1\% | 0.0\% | 0.5\% | 16.4\% | 0.8\% | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.7\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 22.6\% | 28.0\% |
| 1992 | 5.0\% | 1.8\% | 0.0\% | 8.4\% | 2.1\% | 17.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.3\% | 0.0\% | 2.0\% | 0.0\% | 0.5\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 15.0\% | 46.6\% |
| 1993 | 11.2\% | 0.6\% | 0.2\% | 17.1\% | 1.0\% | 19.2\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.4\% | 0.0\% | 3.2\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.8\% | 24.9\% |
| 1994 | 16.2\% | 0.4\% | 1.0\% | 14.9\% | 2.1\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.1\% | 0.0\% | 1.3\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.3\% | 42.1\% |
| 1995 | 10.3\% | 0.3\% | 0.4\% | 6.7\% | 1.3\% | 1.2\% | 0.2\% | 0.0\% | 0.0\% | 0.2\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 30.7\% | 48.4\% |
| 1996 | 20.5\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 46.9\% | 24.6\% |
| 1997 | 32.2\% | 0.0\% | 1.7\% | 3.4\% | 0.5\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.7\% | 41.5\% |
| 1998 | 11.8\% | 1.2\% | 0.5\% | 11.8\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 31.8\% | 40.6\% |
| 1999 | 17.8\% | 0.8\% | 0.0\% | 2.9\% | 4.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 33.7\% | 38.8\% |
| 2000 | 17.4\% | 0.0\% | 0.7\% | 2.6\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.7\% | 55.1\% |
| 2001 | 16.9\% | 0.0\% | 1.0\% | 3.7\% | 2.6\% | 0.2\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 24.9\% | 46.1\% |
| 2002 | 21.9\% | 0.0\% | 1.1\% | 7.9\% | 1.8\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.7\% | 31.0\% |
| 2003 | 15.1\% | 2.3\% | 0.7\% | 6.5\% | 1.9\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.1\% | 36.8\% |
| 2004 | 20.8\% | 2.5\% | 0.9\% | 7.7\% | 4.4\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.3\% | 37.7\% |
| 2005 | 21.3\% | 0.0\% | 1.3\% | 8.8\% | 6.6\% | 2.5\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 0.1\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 29.8\% | 26.8\% |
| 2006 | 26.3\% | 0.0\% | 1.6\% | 12.2\% | 7.8\% | 1.8\% | 2.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.1\% | 2.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.9\% | 18.1\% |
| 2007 | 13.8\% | 0.0\% | 0.8\% | 6.6\% | 8.0\% | 0.1\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.8\% | 44.4\% |
| 1983-2007 | 17.7\% | 1.0\% | 0.5\% | 11.5\% | 1.8\% | 4.0\% | 0.1\% | 0.0\% | 0.0\% | 0.6\% | 0.3\% | 0.0\% | 1.3\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.5\% | 36.7\% |
| 1979-1984 | 17.1\% | 0.6\% | 0.3\% | 21.8\% | 0.0\% | 6.4\% | 0.2\% | 0.0\% | 0.0\% | 1.6\% | 0.9\% | 0.0\% | 1.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 17.5\% | 31.7\% |
| 1985-1995 | 15.8\% | 1.6\% | 0.2\% | 13.3\% | 0.8\% | 6.7\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.4\% | 0.0\% | 1.5\% | 0.0\% | 0.6\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 20.0\% | 38.4\% |
| 1996-1998 | 21.5\% | 0.4\% | 0.7\% | 6.0\% | 0.5\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 32.4\% | 35.6\% |
| 1999-2007 | 19.0\% | 0.6\% | 0.9\% | 6.6\% | 4.4\% | 0.8\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 27.5\% | 37.2\% |

Appendices

## Appendix C.73. Percent distribution of Elk Creek reported catch among fisheries and escapement.

| Catch Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  |  |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1981 | 10.3\% | 0.0\% | 0.9\% | 14.7\% | 0.0\% | 12.9\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 12.1\% | 0.0\% | 44.0\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1982 | 2.1\% | 1.5\% | 0.6\% | 5.2\% | 0.0\% | 14.8\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 1.9\% | 0.0\% | 50.7\% | 0.0\% | 2.6\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.7\% |
| 1983 | 4.2\% | 0.2\% | 0.0\% | 9.4\% | 0.0\% | 11.2\% | 0.2\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 16.9\% | 0.0\% | 0.7\% | 0.1\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 54.8\% |
| 1984 | 4.6\% | 0.0\% | 0.0\% | 8.2\% | 0.3\% | 10.5\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.4\% | 0.0\% | 16.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 57.6\% |
| 1985 | 4.7\% | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 14.7\% | 0.0\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 62.5\% |
| 1986 | 1.7\% | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 15.7\% | 0.6\% | 0.0\% | 0.6\% | 2.7\% | 0.0\% | 0.0\% | 43.4\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 30.1\% |
| 1987 | 1.2\% | 0.0\% | 0.0\% | 5.5\% | 0.0\% | 8.6\% | 1.2\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 0.0\% | 38.8\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 41.7\% |
| 1988 | 0.9\% | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 7.3\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.3\% | 0.0\% | 42.5\% | 0.0\% | 1.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 40.8\% |
| 1989 | 1.0\% | 0.0\% | 0.6\% | 2.3\% | 0.7\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 51.8\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 39.0\% |
| 1990 | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 35.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 54.6\% |
| 1991 | 0.0\% | 1.0\% | 0.0\% | 4.5\% | 0.0\% | 11.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 11.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 68.2\% |
| 1992 | 1.9\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 6.3\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 11.9\% | 0.0\% | 0.5\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 17.5\% | 59.0\% |
| 1993 | 1.6\% | 0.0\% | 0.0\% | 2.1\% | 0.7\% | 5.4\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 27.3\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.0\% | 48.1\% |
| 1994 | 2.3\% | 0.3\% | 0.0\% | 1.9\% | 0.5\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.8\% | 0.0\% | 24.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.6\% | 43.9\% |
| 1995 | 1.8\% | 0.1\% | 0.5\% | 1.1\% | 0.4\% | 2.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 16.4\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 24.1\% | 52.2\% |
| 1996 | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 0.0\% | 38.7\% | 0.0\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 3.6\% | 54.8\% |
| 1997 | 15.3\% | 0.1\% | 0.0\% | 2.0\% | 0.4\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 22.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.4\% | 48.7\% |
| 1998 | 9.3\% | 0.0\% | 0.0\% | 4.3\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.7\% | 56.2\% |
| 1999 | 6.2\% | 0.0\% | 0.3\% | 1.4\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 19.2\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.5\% | 51.7\% |
| 2000 | 5.6\% | 0.0\% | 0.1\% | 1.0\% | 0.8\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.3\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.5\% | 52.2\% |
| 2001 | 3.0\% | 0.1\% | 0.2\% | 1.6\% | 0.0\% | 0.7\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.4\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 71.2\% |
| 2002 | 5.9\% | 0.0\% | 0.6\% | 4.4\% | 0.6\% | 1.1\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.9\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.6\% | 64.3\% |
| 2003 | 6.7\% | 0.0\% | 0.3\% | 4.0\% | 0.4\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.3\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.2\% | 51.4\% |
| 2004 | 4.6\% | 0.0\% | 0.3\% | 2.3\% | 0.3\% | 2.3\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5\% | 70.3\% |
| 2005 | 9.7\% | 0.0\% | 0.2\% | 5.4\% | 1.2\% | 4.9\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.3\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.0\% | 49.4\% |
| 2006 | 5.5\% | 0.0\% | 0.0\% | 4.4\% | 1.8\% | 5.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.5\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.5\% | 49.3\% |
| 2007 | 7.4\% | 0.0\% | 0.7\% | 4.1\% | 2.1\% | 1.6\% | 0.5\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 25.8\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.5\% | 38.5\% |
| 1983-2007 | 4.5\% | 0.2\% | 0.2\% | 3.9\% | 0.4\% | 5.2\% | 0.3\% | 0.0\% | 0.0\% | 0.5\% | 0.8\% | 0.0\% | 25.7\% | 0.0\% | 0.8\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 8.2\% | 49.2\% |
| 1979-1984 | 5.3\% | 0.4\% | 0.4\% | 9.4\% | 0.1\% | 12.4\% | 0.1\% | 0.0\% | 0.0\% | 1.7\% | 3.6\% | 0.0\% | 31.9\% | 0.0\% | 1.5\% | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 0.3\% | 32.8\% |
| 1985-1995 | 1.7\% | 0.2\% | 0.1\% | 3.0\% | 0.2\% | 6.5\% | 0.4\% | 0.0\% | 0.1\% | 0.6\% | 0.5\% | 0.0\% | 28.8\% | 0.0\% | 0.9\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 7.8\% | 49.1\% |
| 1996-1998 | 8.7\% | 0.0\% | 0.0\% | 2.1\% | 0.4\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 26.2\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 8.6\% | 53.3\% |
| 1999-2007 | 6.1\% | 0.0\% | 0.3\% | 3.2\% | 0.8\% | 1.9\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.1\% | 55.4\% |

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## Appendix C.74. Percent distribution of Elk Creek total fishing mortalities among fisheries and escapement.

| Catch Year | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1981 | 9.4\% | 0.3\% | 0.7\% | 13.7\% | 0.0\% | 18.6\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 4.9\% | 0.0\% | 47.6\% | 0.0\% | 1.6\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1982 | 3.4\% | 1.3\% | 0.7\% | 6.0\% | 0.0\% | 15.6\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 1.7\% | 0.0\% | 51.9\% | 0.0\% | 2.4\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.0\% |
| 1983 | 5.3\% | 0.2\% | 0.0\% | 9.9\% | 0.0\% | 11.7\% | 0.2\% | 0.0\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 18.3\% | 0.0\% | 0.7\% | 0.1\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 51.0\% |
| 1984 | 4.9\% | 0.0\% | 0.0\% | 8.5\% | 0.3\% | 10.9\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.4\% | 0.0\% | 17.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4\% | 55.6\% |
| 1985 | 5.5\% | 0.0\% | 0.0\% | 6.2\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 16.3\% | 0.0\% | 4.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.9\% | 58.1\% |
| 1986 | 2.5\% | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 16.2\% | 0.5\% | 0.0\% | 0.5\% | 2.8\% | 0.0\% | 0.0\% | 47.1\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.3\% | 25.2\% |
| 1987 | 1.3\% | 0.0\% | 0.0\% | 6.3\% | 0.0\% | 10.0\% | 1.2\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 41.3\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 36.7\% |
| 1988 | 1.1\% | 0.0\% | 0.0\% | 6.8\% | 0.0\% | 8.7\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.3\% | 0.0\% | 44.6\% | 0.0\% | 1.2\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.3\% | 36.0\% |
| 1989 | 1.3\% | 0.0\% | 0.7\% | 2.4\% | 0.8\% | 3.5\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 54.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 35.8\% |
| 1990 | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 38.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 49.8\% |
| 1991 | 0.0\% | 2.7\% | 0.0\% | 5.8\% | 0.0\% | 13.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 13.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 60.9\% |
| 1992 | 4.3\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 10.2\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 16.9\% | 0.0\% | 0.6\% | 1.5\% | 0.0\% | 0.0\% | 0.0\% | 16.5\% | 46.9\% |
| 1993 | 4.5\% | 0.0\% | 0.0\% | 3.4\% | 0.7\% | 8.2\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 33.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.5\% | 36.7\% |
| 1994 | 5.6\% | 0.7\% | 0.0\% | 2.6\% | 0.6\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.9\% | 0.0\% | 23.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.0\% | 39.0\% |
| 1995 | 3.4\% | 0.2\% | 0.8\% | 1.7\% | 0.4\% | 3.1\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 16.2\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 25.4\% | 46.9\% |
| 1996 | 3.0\% | 0.0\% | 0.0\% | 0.2\% | 0.3\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 39.5\% | 0.0\% | 0.2\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 3.9\% | 52.0\% |
| 1997 | 18.8\% | 0.2\% | 0.0\% | 2.1\% | 0.5\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 24.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.2\% | 42.7\% |
| 1998 | 11.2\% | 0.0\% | 0.0\% | 4.8\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.5\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.1\% | 51.8\% |
| 1999 | 9.0\% | 0.0\% | 0.5\% | 1.5\% | 0.3\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 21.7\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.4\% | 46.1\% |
| 2000 | 7.7\% | 0.1\% | 0.1\% | 1.3\% | 1.0\% | 0.6\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 25.3\% | 0.0\% | 0.7\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 17.3\% | 45.8\% |
| 2001 | 4.3\% | 0.2\% | 0.3\% | 1.9\% | 0.0\% | 0.7\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.2\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.2\% | 67.1\% |
| 2002 | 7.3\% | 0.0\% | 0.8\% | 5.1\% | 0.8\% | 1.1\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.6\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.9\% | 59.9\% |
| 2003 | 7.7\% | 0.0\% | 0.4\% | 4.5\% | 0.5\% | 1.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.2\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.6\% | 47.5\% |
| 2004 | 5.5\% | 0.0\% | 0.3\% | 2.6\% | 0.4\% | 2.3\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 16.5\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 67.3\% |
| 2005 | 11.4\% | 0.0\% | 0.3\% | 6.0\% | 1.5\% | 4.8\% | 1.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.9\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.1\% | 45.1\% |
| 2006 | 6.7\% | 0.0\% | 0.0\% | 4.9\% | 2.3\% | 5.2\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.1\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.6\% | 43.9\% |
| 2007 | 9.9\% | 0.1\% | 0.9\% | 4.7\% | 2.2\% | 1.5\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 27.7\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.7\% | 33.1\% |
| 1983-2007 | 5.8\% | 0.3\% | 0.2\% | 4.3\% | 0.5\% | 6.0\% | 0.3\% | 0.0\% | 0.0\% | 0.5\% | 0.5\% | 0.0\% | 27.9\% | 0.0\% | 0.8\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 8.3\% | 44.3\% |
| 1979-1984 | 5.8\% | 0.4\% | 0.3\% | 9.5\% | 0.1\% | 14.2\% | 0.1\% | 0.0\% | 0.0\% | 1.6\% | 1.8\% | 0.0\% | 33.7\% | 0.0\% | 1.2\% | 0.5\% | 0.1\% | 0.0\% | 0.0\% | 0.3\% | 30.4\% |
| 1985-1995 | 2.9\% | 0.5\% | 0.1\% | 3.5\% | 0.2\% | 7.9\% | 0.4\% | 0.0\% | 0.0\% | 0.6\% | 0.6\% | 0.0\% | 31.4\% | 0.0\% | 0.9\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 7.7\% | 42.9\% |
| 1996-1998 | 11.0\% | 0.1\% | 0.0\% | 2.4\% | 0.4\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.2\% | 0.0\% | 27.6\% | 0.0\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 8.8\% | 48.8\% |
| 1999-2007 | 7.7\% | 0.0\% | 0.4\% | 3.6\% | 1.0\% | 1.9\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 21.0\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.4\% | 50.6\% |

Appendices

## Appendix C.75. Percent distribution of Elwha River reported catch among fisheries and escapement.

| Catch <br> Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1986 | 24.4\% | 1.7\% | 0.0\% | 2.3\% | 0.5\% | 17.7\% | 0.9\% | 0.8\% | 6.4\% | 0.8\% | 6.3\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 12.2\% | 13.5\% | 0.0\% | 0.2\% | 0.0\% | 11.4\% |
| 1987 | 14.6\% | 0.0\% | 0.0\% | 4.5\% | 2.0\% | 14.1\% | 2.5\% | 1.2\% | 8.9\% | 2.2\% | 5.7\% | 0.0\% | 3.0\% | 0.2\% | 0.0\% | 6.5\% | 18.6\% | 0.0\% | 0.0\% | 0.0\% | 15.9\% |
| 1988 | 5.4\% | 0.5\% | 0.5\% | 3.7\% | 2.3\% | 13.8\% | 6.1\% | 0.0\% | 0.0\% | 1.4\% | 1.2\% | 0.0\% | 4.4\% | 0.0\% | 0.0\% | 8.2\% | 8.4\% | 0.0\% | 4.0\% | 0.0\% | 40.2\% |
| 1989 | 6.1\% | 1.8\% | 0.0\% | 4.7\% | 2.2\% | 5.8\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.4\% | 9.4\% | 12.9\% | 0.0\% | 2.2\% | 0.0\% | 48.6\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 12.8\% | 0.0\% | 15.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 10.3\% | 0.0\% | 5.1\% | 0.0\% | 51.3\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 7.1\% | 0.0\% | 7.1\% | 0.0\% | 0.0\% | 71.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1992 | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 43.1\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 8.6\% | 0.0\% | 17.2\% | 0.0\% | 0.0\% | 0.0\% | 22.4\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% |
| 1993 | 9.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.0\% | 11.6\% | 1.6\% | 10.9\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 28.7\% | 0.0\% | 3.1\% | 0.0\% | 17.8\% |
| 1994 | 3.9\% | 0.0\% | 0.0\% | 9.2\% | 0.0\% | 17.1\% | 0.0\% | 3.9\% | 2.6\% | 0.0\% | 7.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 55.3\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 26.5\% | 2.6\% | 0.0\% | 0.0\% | 2.6\% | 6.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.9\% | 10.3\% | 0.0\% | 0.0\% | 0.0\% | 47.0\% |
| 1996 | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 0.0\% | 3.1\% | 0.0\% | 2.4\% | 0.0\% | 0.7\% | 0.0\% | 0.0\% | 0.0\% | 6.2\% | 0.0\% | 0.0\% | 0.0\% | 80.8\% |
| 1997 | 13.6\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 5.4\% | 0.0\% | 0.0\% | 6.5\% | 0.0\% | 3.8\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 11.4\% | 0.0\% | 0.0\% | 0.0\% | 56.5\% |
| 1983-1997 | 6.9\% | 0.3\% | 0.0\% | 3.2\% | 0.8\% | 15.6\% | 2.5\% | 0.6\% | 3.2\% | 0.9\% | 4.1\% | 0.0\% | 3.5\% | 0.0\% | 0.0\% | 9.5\% | 11.9\% | 0.0\% | 1.2\% | 0.0\% | 35.7\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 6.6\% | 0.4\% | 0.0\% | 3.7\% | 1.0\% | 18.2\% | 2.7\% | 0.8\% | 2.9\% | 1.0\% | 4.3\% | 0.0\% | 4.0\% | 0.0\% | 0.0\% | 11.4\% | 12.5\% | 0.0\% | 1.5\% | 0.0\% | 29.1\% |
| 1996-1998 | 8.5\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 2.7\% | 1.7\% | 0.0\% | 4.8\% | 0.0\% | 3.1\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 8.8\% | 0.0\% | 0.0\% | 0.0\% | 68.6\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |

## Appendix C.76. Percent distribution of Elwha River total fishing mortalities among fisheries and escapement.

| Catch | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1986 | 24.7\% | 3.3\% | 0.0\% | 2.5\% | 0.7\% | 17.2\% | 1.1\% | 0.8\% | 5.9\% | 1.0\% | 5.9\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 11.0\% | 14.7\% | 0.0\% | 0.1\% | 0.0\% | 10.0\% |
| 1987 | 16.4\% | 0.0\% | 0.0\% | 5.0\% | 1.9\% | 15.7\% | 2.3\% | 1.3\% | 8.2\% | 2.5\% | 5.0\% | 0.0\% | 2.9\% | 0.2\% | 0.0\% | 5.7\% | 19.5\% | 0.0\% | 0.0\% | 0.0\% | 13.4\% |
| 1988 | 5.8\% | 1.1\% | 0.6\% | 3.9\% | 2.4\% | 15.5\% | 6.0\% | 0.0\% | 0.0\% | 1.5\% | 1.3\% | 0.0\% | 4.5\% | 0.0\% | 0.0\% | 7.8\% | 8.8\% | 0.0\% | 3.7\% | 0.0\% | 37.1\% |
| 1989 | 6.7\% | 5.0\% | 0.0\% | 4.7\% | 2.0\% | 5.7\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.3\% | 8.7\% | 14.0\% | 0.0\% | 2.0\% | 0.0\% | 45.2\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 12.2\% | 0.0\% | 17.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.9\% | 12.2\% | 0.0\% | 4.9\% | 0.0\% | 48.8\% |
| 1991 | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 0.0\% | 7.1\% | 0.0\% | 0.0\% | 50.0\% | 10.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1992 | 3.7\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% | 37.8\% | 3.7\% | 1.2\% | 1.2\% | 0.0\% | 7.3\% | 0.0\% | 13.4\% | 0.0\% | 0.0\% | 0.0\% | 28.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% |
| 1993 | 12.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.2\% | 10.1\% | 2.5\% | 11.4\% | 0.0\% | 0.0\% | 0.0\% | 2.5\% | 0.0\% | 0.0\% | 0.0\% | 28.5\% | 0.0\% | 2.5\% | 0.0\% | 14.6\% |
| 1994 | 9.2\% | 0.0\% | 0.0\% | 9.2\% | 0.0\% | 18.4\% | 0.0\% | 4.6\% | 2.3\% | 0.0\% | 8.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 48.3\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 32.5\% | 2.6\% | 0.0\% | 0.0\% | 3.9\% | 6.5\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 0.6\% | 13.6\% | 0.0\% | 0.0\% | 0.0\% | 35.7\% |
| 1996 | 4.5\% | 0.0\% | 0.0\% | 1.3\% | 0.0\% | 1.6\% | 3.5\% | 0.0\% | 3.5\% | 0.0\% | 2.9\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 7.3\% | 0.0\% | 0.0\% | 0.0\% | 74.8\% |
| 1997 | 15.0\% | 0.0\% | 0.5\% | 2.0\% | 0.0\% | 5.5\% | 0.0\% | 0.0\% | 6.5\% | 0.0\% | 4.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 13.5\% | 0.0\% | 0.0\% | 0.0\% | 52.0\% |
| 1983-1997 | 8.5\% | 0.8\% | 0.1\% | 3.5\% | 0.8\% | 17.3\% | 2.4\% | 0.9\% | 3.2\% | 1.0\% | 3.7\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 7.4\% | 14.2\% | 0.0\% | 1.1\% | 0.0\% | 31.9\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 8.3\% | 0.9\% | 0.1\% | 3.9\% | 1.0\% | 20.0\% | 2.6\% | 1.0\% | 2.9\% | 1.2\% | 3.8\% | 0.0\% | 3.6\% | 0.0\% | 0.0\% | 8.9\% | 15.0\% | 0.0\% | 1.3\% | 0.0\% | 25.5\% |
| 1996-1998 | 9.7\% | 0.0\% | 0.3\% | 1.6\% | 0.0\% | 3.5\% | 1.8\% | 0.0\% | 5.0\% | 0.0\% | 3.4\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 10.4\% | 0.0\% | 0.0\% | 0.0\% | 63.4\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |

## Appendix C.77. Percent distribution of Squaxin Pen Fall Yearling reported catch among fisheries and escapement.

| Catch <br> Year | SEAK |  |  | AABM |  |  |  | ISBM |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport | Esc. |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 0.6\% | 0.0\% | 0.7\% | 0.0\% | 1.3\% | 0.0\% | 4.0\% | 0.0\% | 0.4\% | 32.1\% | 54.5\% | 0.0\% | 0.6\% | 0.0\% | 2.5\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 0.0\% | 0.5\% | 1.1\% | 0.0\% | 0.6\% | 0.0\% | 8.8\% | 0.0\% | 0.4\% | 32.8\% | 48.1\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 2.3\% | 0.8\% | 0.7\% | 2.7\% | 0.0\% | 1.6\% | 0.0\% | 7.1\% | 0.0\% | 0.5\% | 21.2\% | 56.6\% | 0.0\% | 1.1\% | 0.0\% | 4.7\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 9.7\% | 2.3\% | 0.0\% | 5.4\% | 0.0\% | 2.3\% | 0.0\% | 13.5\% | 0.0\% | 0.6\% | 2.3\% | 49.3\% | 0.0\% | 1.1\% | 0.0\% | 13.5\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.7\% | 4.7\% | 0.0\% | 5.9\% | 0.0\% | 3.5\% | 0.0\% | 6.5\% | 0.0\% | 0.0\% | 22.4\% | 10.6\% | 0.0\% | 0.0\% | 0.0\% | 21.8\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 47.5\% | 30.5\% | 0.0\% | 0.0\% | 0.0\% | 22.0\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 4.4\% | 89.8\% | 0.0\% | 0.3\% | 0.0\% | 2.5\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8\% | 0.0\% | 0.0\% | 8.0\% | 85.2\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 1.9\% | 91.3\% | 0.0\% | 1.0\% | 0.0\% | 2.9\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 62.5\% | 0.0\% | 0.0\% | 0.0\% | 25.0\% |
| 1983-1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 6.0\% | 0.8\% | 0.1\% | 1.8\% | 0.0\% | 0.9\% | 0.0\% | 4.7\% | 0.0\% | 0.2\% | 17.3\% | 57.8\% | 0.0\% | 0.4\% | 0.0\% | 9.9\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 7.4\% | 1.4\% | 0.2\% | 2.6\% | 0.0\% | 1.6\% | 0.0\% | 6.7\% | 0.0\% | 0.3\% | 26.4\% | 41.6\% | 0.0\% | 0.5\% | 0.0\% | 11.3\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 4.8\% | 88.8\% | 0.0\% | 0.4\% | 0.0\% | 2.0\% |


| Appendix C.78. Percent distribution of Squaxin Pens Fall Yearling total mortalities among fisheries and escapement. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Catch | AABM |  |  |  |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| Year | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 0.6\% | 0.1\% | 0.7\% | 0.0\% | 1.1\% | 0.0\% | 4.1\% | 0.0\% | 0.4\% | 31.1\% | 56.2\% | 0.0\% | 0.5\% | 0.1\% | 2.0\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 0.0\% | 0.5\% | 1.1\% | 0.0\% | 0.5\% | 0.0\% | 8.9\% | 0.0\% | 0.3\% | 30.8\% | 50.5\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% |
| 1992 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 2.0\% | 0.6\% | 0.6\% | 2.4\% | 0.0\% | 1.2\% | 0.0\% | 6.0\% | 0.0\% | 0.4\% | 21.2\% | 60.8\% | 0.0\% | 0.9\% | 0.0\% | 3.5\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.7\% | 2.0\% | 0.0\% | 5.9\% | 0.0\% | 2.0\% | 0.0\% | 13.0\% | 0.0\% | 0.5\% | 2.5\% | 50.4\% | 0.0\% | 1.0\% | 0.0\% | 12.0\% |
| 1994 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 23.3\% | 4.8\% | 0.0\% | 5.8\% | 0.0\% | 4.2\% | 0.0\% | 6.3\% | 0.0\% | 0.0\% | 20.6\% | 15.3\% | 0.0\% | 0.0\% | 0.0\% | 19.6\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.4\% | 71.1\% | 0.0\% | 0.0\% | 0.0\% | 5.7\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 5.0\% | 90.0\% | 0.0\% | 0.2\% | 0.0\% | 2.0\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 6.4\% | 88.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 1.6\% | 93.0\% | 0.0\% | 0.8\% | 0.0\% | 2.3\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.5\% | 93.9\% | 0.0\% | 0.0\% | 0.0\% | 2.0\% |
| 1983-1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.9\% | 0.8\% | 0.1\% | 1.9\% | 0.0\% | 0.9\% | 0.0\% | 4.5\% | 0.0\% | 0.2\% | 14.2\% | 66.9\% | 0.0\% | 0.3\% | 0.0\% | 5.3\% |
| 1985-1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 7.3\% | 1.3\% | 0.2\% | 2.7\% | 0.0\% | 1.5\% | 0.0\% | 6.4\% | 0.0\% | 0.3\% | 21.4\% | 50.7\% | 0.0\% | 0.4\% | 0.0\% | 7.6\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 4.3\% | 90.4\% | 0.0\% | 0.3\% | 0.0\% | 1.6\% |



| Catch | AABM |  |  |  |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.9\% | 0.0\% | 4.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 84.8\% |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 6.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 13.8\% | 6.9\% | 0.0\% | 0.0\% | 0.0\% | 73.3\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.6\% | 0.0\% | 14.6\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 4.9\% | 34.1\% | 0.0\% | 0.0\% | 0.0\% | 29.3\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 7.0\% | 0.0\% | 32.6\% | 0.0\% | 6.3\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 7.0\% | 5.3\% | 0.0\% | 1.4\% | 0.0\% | 36.1\% |
| 1992 | 0.4\% | 0.4\% | 0.0\% | 0.0\% | 0.4\% | 17.5\% | 2.3\% | 1.3\% | 11.0\% | 0.9\% | 1.6\% | 0.0\% | 0.9\% | 0.0\% | 0.0\% | 0.4\% | 7.8\% | 0.0\% | 0.0\% | 0.0\% | 55.2\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.4\% | 7.6\% | 2.3\% | 12.5\% | 0.0\% | 6.5\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 5.3\% | 11.5\% | 0.0\% | 0.0\% | 0.0\% | 49.2\% |
| 1994 | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 0.0\% | 6.1\% | 28.2\% | 0.0\% | 1.0\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 6.3\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 49.3\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 7.0\% | 0.0\% | 0.0\% | 0.0\% | 67.3\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.0\% | 3.2\% | 0.0\% | 12.4\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 79.6\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.3\% | 0.0\% | 14.2\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 15.9\% | 0.0\% | 0.0\% | 0.0\% | 58.4\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.5\% | 0.0\% | 6.1\% | 0.0\% | 15.8\% | 0.0\% | 5.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 5.3\% | 0.0\% | 2.6\% | 0.0\% | 59.6\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 1.0\% | 0.0\% | 23.6\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 1.5\% | 1.0\% | 0.0\% | 3.1\% | 0.0\% | 64.6\% |
| 1983-1999 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 2.6\% | 2.7\% | 0.8\% | 16.9\% | 0.1\% | 3.6\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 3.9\% | 8.6\% | 0.0\% | 0.6\% | 0.0\% | 58.9\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 2.1\% | 1.2\% | 17.1\% | 0.1\% | 4.3\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 5.1\% | 9.7\% | 0.0\% | 0.2\% | 0.0\% | 55.6\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 4.9\% | 0.0\% | 14.1\% | 0.0\% | 2.6\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 1.8\% | 8.1\% | 0.0\% | 0.9\% | 0.0\% | 65.9\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 1.0\% | 0.0\% | 23.6\% | 0.0\% | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 1.5\% | 1.0\% | 0.0\% | 3.1\% | 0.0\% | 64.6\% |

## Appendix C.80. Percent distribution of Nooksack Spring Fingerling total mortalities among fisheries and escapement.

| Catch | SEAK |  |  | NBC |  | WCVI |  | Geo St |  | Canada |  |  | WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 0.8\% | 2.5\% | 9.2\% | 0.4\% | 4.6\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 8.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 68.1\% |
| 1989 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.5\% | 8.9\% | 0.0\% | 0.0\% | 0.0\% | 68.5\% |
| 1990 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.5\% | 1.4\% | 0.0\% | 26.8\% | 1.4\% | 12.7\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 2.8\% | 28.2\% | 0.0\% | 0.0\% | 0.0\% | 16.9\% |
| 1991 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 6.8\% | 0.0\% | 36.9\% | 0.0\% | 6.3\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 6.5\% | 6.8\% | 0.0\% | 1.2\% | 0.0\% | 30.7\% |
| 1992 | 2.0\% | 0.9\% | 0.0\% | 0.0\% | 0.4\% | 19.5\% | 2.3\% | 1.7\% | 12.0\% | 1.0\% | 1.6\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 0.4\% | 9.7\% | 0.0\% | 0.0\% | 0.0\% | 47.4\% |
| 1993 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 7.7\% | 3.3\% | 14.3\% | 0.0\% | 6.2\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 5.1\% | 12.3\% | 0.0\% | 0.0\% | 0.0\% | 45.6\% |
| 1994 | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.1\% | 0.0\% | 6.0\% | 29.8\% | 0.0\% | 0.9\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 6.0\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 47.5\% |
| 1995 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 24.5\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 12.0\% | 0.0\% | 0.0\% | 0.0\% | 59.9\% |
| 1996 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0\% | 0.5\% | 3.5\% | 0.0\% | 14.6\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 0.0\% | 0.0\% | 0.0\% | 74.4\% |
| 1997 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.5\% | 0.0\% | 15.6\% | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.1\% | 21.9\% | 0.0\% | 0.0\% | 0.0\% | 51.6\% |
| 1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.7\% | 0.0\% | 6.3\% | 0.0\% | 17.2\% | 0.0\% | 6.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 8.6\% | 0.0\% | 2.3\% | 0.0\% | 53.1\% |
| 1999 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 1.4\% | 0.0\% | 26.1\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 1.4\% | 1.9\% | 0.0\% | 2.9\% | 0.0\% | 60.9\% |
| 1983-1999 | 0.2\% | 0.1\% | 0.0\% | 0.0\% | 0.5\% | 3.8\% | 3.0\% | 1.1\% | 19.6\% | 0.2\% | 3.4\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 4.4\% | 10.3\% | 0.0\% | 0.5\% | 0.0\% | 52.0\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1985-1995 | 0.3\% | 0.1\% | 0.0\% | 0.0\% | 0.1\% | 5.3\% | 2.4\% | 1.7\% | 20.2\% | 0.4\% | 4.1\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 5.8\% | 10.7\% | 0.0\% | 0.1\% | 0.0\% | 48.1\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 0.2\% | 5.1\% | 0.0\% | 15.8\% | 0.0\% | 2.9\% | 0.0\% | 0.2\% | 0.0\% | 0.0\% | 1.6\% | 12.0\% | 0.0\% | 0.8\% | 0.0\% | 59.7\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.4\% | 1.4\% | 0.0\% | 26.1\% | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 0.0\% | 0.0\% | 1.4\% | 1.9\% | 0.0\% | 2.9\% | 0.0\% | 60.9\% |


| Catch <br> Year | SEAK |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1979 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.6\% | 0.1\% | 1.8\% | 4.4\% | 0.3\% | 4.1\% | 0.0\% | 1.8\% | 0.0\% | 0.5\% | 6.6\% | 38.4\% | 0.0\% | 0.0\% | 0.0\% | 27.5\% |
| 1980 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 6.9\% | 0.1\% | 0.4\% | 5.0\% | 0.2\% | 1.4\% | 0.0\% | 1.3\% | 0.0\% | 0.0\% | 12.9\% | 49.2\% | 0.0\% | 0.0\% | 0.2\% | 22.4\% |
| 1981 | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 10.2\% | 0.1\% | 0.5\% | 4.9\% | 0.0\% | 4.0\% | 0.0\% | 2.3\% | 0.0\% | 0.3\% | 11.7\% | 45.5\% | 0.0\% | 0.0\% | 0.0\% | 19.9\% |
| 1982 | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 0.2\% | 0.2\% | 3.7\% | 0.3\% | 0.9\% | 0.0\% | 2.3\% | 0.0\% | 0.4\% | 12.7\% | 29.2\% | 0.0\% | 1.2\% | 0.0\% | 32.0\% |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 9.8\% | 0.1\% | 0.7\% | 3.1\% | 1.0\% | 1.7\% | 0.0\% | 1.3\% | 0.0\% | 0.2\% | 19.3\% | 30.6\% | 0.0\% | 4.6\% | 0.0\% | 27.4\% |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 19.0\% | 0.2\% | 0.5\% | 4.4\% | 0.6\% | 1.0\% | 0.0\% | 1.9\% | 0.0\% | 0.0\% | 20.0\% | 24.0\% | 0.0\% | 3.5\% | 0.0\% | 25.0\% |
| 1985 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.4\% | 1.3\% | 0.0\% | 5.0\% | 0.0\% | 5.2\% | 0.0\% | 2.2\% | 0.0\% | 0.0\% | 6.1\% | 23.6\% | 0.0\% | 9.1\% | 0.0\% | 32.0\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.3\% | 0.9\% | 0.0\% | 3.9\% | 0.0\% | 8.2\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 20.5\% | 19.1\% | 0.0\% | 5.6\% | 0.0\% | 22.0\% |
| 1987 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.8\% | 1.5\% | 1.4\% | 4.7\% | 0.3\% | 0.3\% | 0.0\% | 4.1\% | 0.0\% | 0.2\% | 22.6\% | 13.7\% | 0.0\% | 25.6\% | 0.0\% | 14.6\% |
| 1983-1987 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 13.5\% | 0.5\% | 0.6\% | 4.3\% | 0.3\% | 3.0\% | 0.0\% | 2.1\% | 0.0\% | 0.2\% | 14.7\% | 30.4\% | 0.0\% | 5.5\% | 0.0\% | 24.7\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 12.9\% | 0.2\% | 0.7\% | 4.3\% | 0.4\% | 2.2\% | 0.0\% | 1.8\% | 0.0\% | 0.2\% | 13.9\% | 36.2\% | 0.0\% | 1.6\% | 0.0\% | 25.7\% |
| 1985-1995 | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 14.8\% | 1.2\% | 0.5\% | 4.5\% | 0.1\% | 4.6\% | 0.0\% | 2.6\% | 0.0\% | 0.1\% | 16.4\% | 18.8\% | 0.0\% | 13.5\% | 0.0\% | 22.8\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |

Appendix C.82. Percent distribution of University of Washington Accelerated total mortalities among fisheries and escapement.

| Catch <br> Year |  |  |  | AABM |  |  |  | Geo St |  | Canada |  |  | ISBM <br> WA/OR coast |  |  | Puget Sound |  | Terminal |  |  | Esc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SEAK |  |  | NBC |  | WCVI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Troll | Net | Sport | Troll | Sport | Troll | Sport | Troll | Sport | Troll | Net | Sport | Troll | Net | Sport | Net | Sport | Troll | Net | Sport |  |
| 1979 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.0\% | 0.1\% | 1.6\% | 4.1\% | 0.3\% | 3.7\% | 0.0\% | 1.8\% | 0.0\% | 0.5\% | 7.0\% | 42.0\% | 0.0\% | 0.0\% | 0.0\% | 23.9\% |
| 1980 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 8.1\% | 0.1\% | 0.3\% | 3.9\% | 0.2\% | 1.2\% | 0.0\% | 1.5\% | 0.0\% | 0.0\% | 13.1\% | 55.0\% | 0.0\% | 0.0\% | 0.2\% | 16.3\% |
| 1981 | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 10.7\% | 0.1\% | 0.4\% | 4.3\% | 0.0\% | 3.5\% | 0.0\% | 2.2\% | 0.0\% | 0.3\% | 11.1\% | 50.8\% | 0.0\% | 0.0\% | 0.0\% | 15.9\% |
| 1982 | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 19.6\% | 0.2\% | 0.2\% | 3.4\% | 0.3\% | 0.8\% | 0.0\% | 2.5\% | 0.0\% | 0.4\% | 12.9\% | 31.2\% | 0.0\% | 1.1\% | 0.0\% | 27.2\% |
| 1983 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 9.0\% | 0.1\% | 0.6\% | 2.5\% | 0.9\% | 1.4\% | 0.0\% | 1.2\% | 0.0\% | 0.2\% | 20.6\% | 39.3\% | 0.0\% | 3.7\% | 0.0\% | 20.4\% |
| 1984 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 17.9\% | 0.2\% | 0.4\% | 3.9\% | 0.5\% | 1.0\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 20.0\% | 30.5\% | 0.0\% | 3.1\% | 0.0\% | 20.8\% |
| 1985 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.1\% | 1.2\% | 0.0\% | 4.6\% | 0.0\% | 5.0\% | 0.0\% | 2.1\% | 0.0\% | 0.0\% | 6.5\% | 29.9\% | 0.0\% | 8.3\% | 0.0\% | 27.3\% |
| 1986 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 18.8\% | 1.0\% | 0.0\% | 3.5\% | 0.0\% | 7.4\% | 0.0\% | 1.6\% | 0.0\% | 0.0\% | 20.6\% | 24.5\% | 0.0\% | 5.0\% | 0.0\% | 17.8\% |
| 1987 | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.4\% | 1.5\% | 1.4\% | 4.6\% | 0.3\% | 0.3\% | 0.0\% | 4.4\% | 0.0\% | 0.2\% | 22.1\% | 14.9\% | 0.0\% | 25.0\% | 0.0\% | 13.5\% |
| 1983-1987 | 0.1\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 14.0\% | 0.5\% | 0.5\% | 3.9\% | 0.3\% | 2.7\% | 0.0\% | 2.1\% | 0.0\% | 0.2\% | 14.9\% | 35.3\% | 0.0\% | 5.1\% | 0.0\% | 20.3\% |
| 1979-1984 | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 13.4\% | 0.1\% | 0.6\% | 3.7\% | 0.4\% | 1.9\% | 0.0\% | 1.8\% | 0.0\% | 0.2\% | 14.1\% | 41.5\% | 0.0\% | 1.3\% | 0.0\% | 20.7\% |
| 1985-1995 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 15.1\% | 1.2\% | 0.5\% | 4.2\% | 0.1\% | 4.2\% | 0.0\% | 2.7\% | 0.0\% | 0.1\% | 16.4\% | 23.1\% | 0.0\% | 12.8\% | 0.0\% | 19.5\% |
| 1996-1998 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1999-2007 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |

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# Appendix D. CWT (Cohort) release to age 2 survival indices (completed brood years only) and Chinook model-derived age 1 to age 2 survival indices (up to 2002) for exploitation rate indicator stocks. Indices are survival indices relative to base period. 

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$\longrightarrow$ - EV Survival -■- Cohort Survival
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$\longrightarrow$ EV Survival ——— Cohort Survival
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$\longrightarrow$ - EV Survival -■- Cohort Survival
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Figure D.7. Cowichan CWT (cohort) and model (EV) age 2 survival indices (r=correlation between survival indices).


Figure D.8. Chilliwack CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).


Figure D.9. Nooksack Spring Yearling CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival rates).

$\longrightarrow$ - EV Survival -■- Cohort Survival
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Figure D.11. Samish Fall Fingerling CWT (cohort) and model age 2 survival indices (r=correlation between survival indices).

```
GEORGE ADAMS FALL FINGERLING
                                    INDEX OF SURVIVAL
                                    r=0.54
```


$\longrightarrow$ - EV Survival ——— Cohort Sunvival
Figure D.12. George Adams Fall Fingerling CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).

$\longrightarrow$ EEV Survival ——— Cohort Survival
Figure D.13. South Puget Sound Fall Fingerling CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).

SOUTH PUGET SOUND FALL YEARLING INDEX OF SURVIVAL
$r=0.03$


Figure D.14. South Puget Sound Fall Yearling CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).


Figure D.15. Squaxin Pens Fall Yearling CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).

$\longrightarrow$ EV Survival ———Cohort Survival
Figure D.16. White River Spring Yearling CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).


Figure D.17. Elwha Fall Fingerling CWT (cohort) and model age 2 survival indices (r=correlation between survival indices).


Figure D.18. Hoko Fall Fingerling CWT (cohort) and model age 2 survival indices (r=correlation between survival indices).


Figure D.19. Sooes Fall Fingerling CWT (cohort) and model age 2 survival indices (r=correlation between survival indices).

QUEETS
INDEX OF SURVIVAL
$r=0.30$

$\longrightarrow$ —EV Surival ——— Cohort Survival
Figure D.20. Queets Fall Fingerling CWT (cohort) and model age 2 survival indices (r=correlation between survival indices).


Figure D.21. Willamette Spring CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).


Figure D.22. Columbia River Summers CWT (cohort) and model age 2 survival indices (r=correlation between survival indices)


Figure D.23. Cowlitz Fall Tule CWT (cohort) and model age 2 survival indices (r=correlation between survival indices).


Figure D.24. Spring Creek Tule CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).


Figure D.25. Columbia Lower River Hatchery Tule CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).

```
COLUMBIA RIVER UPRIVER BRIGHT
                                    INDEX OF SURVIVAL
                        r=0.45
```


———EV Survival -■— Cohort Survival
Figure D.26. Columbia River Upriver Brights CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).


Figure D.27. Hanford Wild Brights CWT (cohort) and model age 2 survival indices (r=correlation between survival indices).


Figure D.28. Lyons Ferry Fall Hatchery CWT (cohort) and model age 2 survival indices (r=correlation between survival indices).


Figure D.29. Lewis River Wild CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).


Figure D.30. Salmon River (NOC) CWT (cohort) and model age 2 survival indices (r=correlation between survival indices).


Figure D.31. Nanaimo River CWT (cohort) and model age 2 survival indices ( $\mathrm{r}=$ correlation between survival indices).

# Appendix E. Total mortality and landed catch exploitation rates ${ }^{1}$ for exploitation rate indicator stocks ${ }^{2}$ for complete broods up to 2002. 

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Figure E.2. Kitsumkalum River Summers (North/Central BC) total exploitation rates by brood year.

Brood Year Ocean Exploitation Rate ROBERTSON CREEK


Figure E.3. Robertson Creek Falls (West Coast Vancouver Island Hatchery and Natural) ocean exploitation rates by brood year.


Figure E.4. Quinsam River Falls (Upper Strait of Georgia) total exploitation rates by brood year.


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Brood Year Total Exploitation Rate BIG QUALICUM

$\square$ landed catch $\square$ incidental mortality
Figure E.6. Big Qualicum River Falls (Lower Strait of Georgia Hatchery and Natural) total exploitation rates by brood year.


Figure E.7. Cowichan River Falls (Lower Strait of Georgia Natural) total exploitation rates by brood year.


Figure E.8. Chilliwack River Falls (Fraser Late) total exploitation rates by brood year.


Figure E.9. Nooksack Spring Fingerling (Nooksack Spring) ocean exploitation rates by brood year.


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Figure E.13. Samish Fall Fingerling (Samish Fall) ocean exploitation rates by brood year.


Figure E.14. Skagit Summer Fingerling (Skagit Wild) ocean exploitation rates by brood year.


Figure E.15. Stillaguamish Fall Fingerling (Stillaguamish Wild) ocean exploitation rates by brood year.

## Brood Year Ocean Exploitation Rate GEORGE ADAMS FALL FINGERLING



Figure E.16. George Adams Fall Fingerling ocean exploitation rates by brood year.


Figure E.17. South Puget Sound Fall Fingerling (Puget Sound Hatchery Fingerling) ocean exploitation rates by brood year.

Brood Year Ocean Exploitation Rate HOKO FALL FINGERLING


Figure E.18. Hoko Fall Fingerling ocean exploitation rates by brood year.


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Brood Year Total Exploitation Rate QUEETS

$\square$ landed catch Dincidental mortality
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$\square$ landed catch $\square$ incidental mortality
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Brood Year Total Exploitation Rate
SPRING CREEK TULE

$\square$ landed catch $\square$ incidental mortality
Figure E.24. Spring Creek Tule (Spring Creek Hatchery) total exploitation rates by brood year.


Figure E.25. Columbia Lower River Hatchery (Lower Bonneville Hatchery) total exploitation rates by brood year.

Brood Year Total Exploitation Rate COLUMBIA RIVER UPRIVER BRIGHT

$\square$ landed catch $\square$ incidental mortality
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$\square$ landed catch $\square$ incidental mortality
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Figure E.30. Salmon River (Oregon Coast) ocean exploitation rates by brood year.


Figure E.31. Nanaimo River ocean exploitation rates by brood year.


Figure E.32. Elk River ocean exploitation rates by brood year.

## Appendix F. Model estimates of the stock composition of the AABM, and other troll and sport fisheries for 2008 and the average from 1985 to 2007.

"Catch as Percent of Fishery" represents the stock composition of a specific fishery; "Catch as Percent of All Fisheries" represents the proportion of the total catch of a stock that is caught in a specific fishery; "Percent of Total Return" represents the proportion of total return (catch + escapement) caught in a specific fishery.

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Appendix F.1. Southeast Alaska All Gear.

|  | 2008 | Average (1985-2007) |  |  | Escapement Indicator Stocks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Model Stock | Catch as Percent of Fishery | Catch <br> as <br> Percent of Fishery | Catch as <br> Percent of All <br> Fisheries | $\begin{gathered} \text { Catch } \\ \text { as } \\ \text { Percent } \\ \text { of Total } \\ \text { Return } \end{gathered}$ |  |
| North/Central BC | 17.58\% | 16.55\% | 22.88\% | 10.87\% | Yakoun, Nass, Skeena |
|  |  |  |  |  | Area 6 Index |
|  |  |  |  |  | Area 8 Index |
|  |  |  |  |  | Rivers and Smith Inlet |
| WCVI Hatchery | 12.63\% | 16.13\% | 48.25\% | 17.49\% | NA |
| Oregon Coastal North Migrating | 6.95\% | 15.38\% | 35.87\% | 16.38\% | Oregon Coastal |
| Columbia Upriver Bright | 16.16\% | 15.35\% | 28.27\% | 14.08\% | Columbia Upriver Bright |
| Fraser Early | 8.12\% | 5.50\% | 28.90\% | 7.41\% | Upper Fraser |
|  |  |  |  |  | Middle Fraser |
|  |  |  |  |  | Thompson |
| Mid-Columbia Brights | 8.54\% | 5.13\% | 33.16\% | 13.53\% | Not Represented |
| Upper Georgia Strait | 6.09\% | 4.43\% | 34.41\% | 20.61\% | Upper Georgia Strait |
| Alaska South SE | 4.96\% | 4.04\% | 96.57\% | 37.86\% | King Salmon, Andrew Creek, |
|  |  |  |  |  | Blossom, Keta, Unuk, Chickamin |
| Washington Coastal Wild | 3.35\% | 3.43\% | 20.73\% | 11.05\% | Grays Harbor Fall |
|  |  |  |  |  | Quillayute Fall |
|  |  |  |  |  | Hoh Fall |
|  |  |  |  |  | Queets Fall |
| WCVI Wild | 1.57\% | 3.40\% | 49.32\% | 17.58\% | WCVI |
| WA Coastal Hatchery | 3.31\% | 2.67\% | 17.65\% | 10.33\% | NA |
| Columbia Upriver Summer | 6.33\% | 2.53\% | 34.11\% | 15.00\% | Columbia Upriver Summer |
| Willamette River Hatchery | 2.09\% | 2.05\% | 12.74\% | 5.21\% | NA |
| Fall Cowlitz Hatchery | 0.54\% | 1.09\% | 6.21\% | 2.42\% | NA |
| Lewis River Wild | 0.34\% | 0.83\% | 17.76\% | 7.85\% | Lewis River |
| Lower GS Hatchery | 0.22\% | 0.41\% | 3.52\% | 1.93\% | NA |
| Lower Georgia Strait | 0.17\% | 0.23\% | 3.77\% | 2.07\% | Lower Georgia Strait |
| Fraser Late | 0.06\% | 0.20\% | 0.42\% | 0.15\% | Harrison |
| PS Hatchery Fingerling | 0.27\% | 0.15\% | 0.46\% | 0.26\% | NA |
| Skagit Summer/Fall | 0.12\% | 0.10\% | 3.98\% | 1.18\% | Skagit Summer/Fall |
| Spring Cowlitz Hatchery | 0.05\% | 0.09\% | 1.68\% | 0.87\% | NA |
| Snake River Fall | 0.26\% | 0.08\% | 8.73\% | 5.40\% | Not Represented |
| Puget Sound Natural | 0.05\% | 0.06\% | 0.48\% | 0.26\% | Green |
| Stillaguamish Summer/Fall | 0.09\% | 0.06\% | 15.77\% | 6.10\% | Stillaguamish |
| Nooksack Fall | 0.02\% | 0.04\% | 0.15\% | 0.11\% | NA |
| Snohomish Summer/Fall | 0.07\% | 0.04\% | 3.48\% | 1.03\% | Snohomish |
| PS Yearling | 0.06\% | 0.02\% | 0.46\% | 0.32\% | NA |
| Spring Creek Hatchery | 0.00\% | 0.00\% | 0.00\% | 0.00\% | NA |
| Lower Bonneville Hatchery | 0.00\% | 0.00\% | 0.00\% | 0.00\% | NA |
| Nooksack Spring | 0.00\% | 0.00\% | 0.00\% | 0.00\% | Not Represented |

Appendix F.2. North B.C. Troll and Sport.

|  | 2008 | Average (1985-2007) |  |  | Escapement Indicator Stocks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Model Stock | Catch as Percent of Fishery | Catch as Percent of Fishery | Catch as <br> Percent of All <br> Fisheries | Catch as Percent of Total Return |  |
| North/Central BC | 71.44\% | 51.79\% | 67.82\% | 35.52\% | Yakoun, Nass, Skeena |
|  |  |  |  |  | Area 6 Index |
|  |  |  |  |  | Area 8 Index |
|  |  |  |  |  | Rivers and Smith Inlet |
| Oregon Coastal North Migrating | 2.54\% | 12.37\% | 27.66\% | 13.82\% | Oregon Coastal |
| Columbia Upriver Bright | 3.34\% | 6.06\% | 11.33\% | 5.92\% | Columbia Upriver Bright |
| WCVI Hatchery | 2.03\% | 5.45\% | 14.97\% | 6.01\% | NA |
| Upper Georgia Strait | 5.92\% | 4.20\% | 34.54\% | 21.06\% | Upper Georgia Strait |
| Fraser Early | 2.25\% | 2.86\% | 15.84\% | 4.67\% | Upper Fraser |
|  |  |  |  |  | Middle Fraser |
|  |  |  |  |  | Thompson |
| Willamette River Hatchery | 1.17\% | 2.82\% | 15.83\% | 7.32\% | NA |
| Washington Coastal Wild | 1.18\% | 2.67\% | 15.16\% | 8.82\% | Grays Harbor Fall |
|  |  |  |  |  | Quillayute Fall |
|  |  |  |  |  | Hoh Fall |
|  |  |  |  |  | Queets Fall |
| WA Coastal Hatchery | 1.15\% | 2.06\% | 13.49\% | 8.27\% | NA |
| Mid-Columbia Brights | 1.76\% | 1.80\% | 12.94\% | 5.63\% | Not Represented |
| Columbia Upriver Summer | 3.27\% | 1.67\% | 23.83\% | 11.17\% | Columbia Upriver Summer |
| WCVI Wild | 0.25\% | 1.22\% | 15.19\% | 6.00\% | WCVI |
| Lower GS Hatchery | 0.75\% | 0.98\% | 9.01\% | 4.96\% | NA |
| Fall Cowlitz Hatchery | 0.38\% | 0.80\% | 4.46\% | 1.89\% | NA |
| Fraser Late | 0.22\% | 0.79\% | 1.59\% | 0.64\% | Harrison |
| Lower Georgia Strait | 0.29\% | 0.48\% | 8.80\% | 4.98\% | Lower Georgia Strait |
| Nooksack Fall | 0.29\% | 0.38\% | 1.84\% | 1.34\% | NA |
| Skagit Summer/Fall | 0.53\% | 0.33\% | 15.46\% | 4.64\% | Skagit Summer/Fall |
| Lewis River Wild | 0.09\% | 0.29\% | 5.51\% | 2.81\% | Lewis River |
| PS Hatchery Fingerling | 0.38\% | 0.23\% | 0.84\% | 0.47\% | NA |
| Spring Cowlitz Hatchery | 0.09\% | 0.23\% | 4.47\% | 2.47\% | NA |
| Snohomish Summer/Fall | 0.23\% | 0.17\% | 15.17\% | 4.65\% | Snohomish |
| PS Yearling | 0.19\% | 0.09\% | 2.03\% | 1.37\% | NA |
| Puget Sound Natural | 0.06\% | 0.09\% | 0.79\% | 0.42\% | Green |
| Alaska South SE | 0.05\% | 0.09\% | 2.36\% | 0.92\% | King Salmon, Andrew Creek |
|  |  |  |  |  | Blossom, Keta, Unuk, Chickamin |
| Snake River Fall | 0.09\% | 0.04\% | 6.09\% | 4.01\% | Not Represented |
| Stillaguamish Summer/Fall | 0.04\% | 0.03\% | 10.08\% | 3.99\% | Stillaguamish |
| Spring Creek Hatchery | 0.01\% | 0.01\% | 0.06\% | 0.05\% | NA |
| Nooksack Spring | 0.00\% | 0.00\% | 1.58\% | 0.52\% | Not Represented |
| Lower Bonneville Hatchery | 0.00\% | 0.00\% | 0.00\% | 0.00\% | NA |

Appendix F.3. Central B.C. Troll.

|  | 2008 | Average (1985-2007) |  |  | Escapement Indicator Stocks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Model Stock | Catch as Percent of Fishery | Catch as Percent of Fishery | Catch as Percent of All Fisheries | Catch as Percent of Total Return |  |
| Fraser Late | 0.00\% | 18.92\% | 1.85\% | 1.05\% | Harrison |
| WCVI Hatchery | 0.00\% | 16.30\% | 3.16\% | 1.33\% | NA |
| Columbia Upriver Bright | 0.00\% | 7.63\% | 0.81\% | 0.48\% | Columbia Upriver Bright |
| North/Central BC | 0.00\% | 6.47\% | 0.87\% | 0.38\% | Yakoun, Nass, Skeena |
|  |  |  |  |  | Area 6 Index |
|  |  |  |  |  | Area 8 Index |
|  |  |  |  |  | Rivers and Smith Inlet |
| Upper Georgia Strait | 0.00\% | 5.66\% | 2.96\% | 1.93\% | Upper Georgia Strait |
| Columbia Upriver Summer | 0.00\% | 3.49\% | 3.15\% | 1.56\% | Columbia Upriver Summer |
| WCVI Wild | 0.00\% | 3.38\% | 3.12\% | 1.32\% | WCVI |
| Fraser Early | 0.00\% | 3.04\% | 0.89\% | 0.31\% | Upper Fraser |
|  |  |  |  |  | Middle Fraser |
|  |  |  |  |  | Thompson |
| Washington Coastal Wild | 0.00\% | 3.02\% | 1.02\% | 0.68\% | Grays Harbor Fall |
|  |  |  |  |  | Quillayute Fall |
|  |  |  |  |  | Hoh Fall |
|  |  |  |  |  | Queets Fall |
| Lower GS Hatchery | 0.00\% | 2.83\% | 1.23\% | 0.86\% | NA |
| Mid-Columbia Brights | 0.00\% | 2.37\% | 0.96\% | 0.49\% | Not Represented |
| WA Coastal Hatchery | 0.00\% | 2.35\% | 0.95\% | 0.62\% | NA |
| Oregon Coastal North Migrating | 0.00\% | 2.21\% | 0.32\% | 0.17\% | Oregon Coastal |
| Lower Bonneville Hatchery | 0.00\% | 1.85\% | 0.89\% | 0.46\% | NA |
| Lower Georgia Strait | 0.00\% | 1.39\% | 1.17\% | 0.85\% | Lower Georgia Strait |
| Nooksack Fall | 0.00\% | 1.31\% | 0.33\% | 0.27\% | NA |
| PS Hatchery Fingerling | 0.00\% | 1.06\% | 0.22\% | 0.15\% | NA |
| Skagit Summer/Fall | 0.00\% | 0.84\% | 1.91\% | 0.82\% | Skagit Summer/Fall |
| Lewis River Wild | 0.00\% | 0.53\% | 0.55\% | 0.31\% | Lewis River |
| Puget Sound Natural | 0.00\% | 0.49\% | 0.22\% | 0.15\% | Green |
| Snohomish Summer/Fall | 0.00\% | 0.45\% | 1.54\% | 0.84\% | Snohomish |
| Spring Creek Hatchery | 0.00\% | 0.35\% | 0.09\% | 0.07\% | NA |
| Willamette River Hatchery | 0.00\% | 0.29\% | 0.10\% | 0.06\% | NA |
| PS Yearling | 0.00\% | 0.25\% | 0.32\% | 0.26\% | NA |
| Fall Cowlitz Hatchery | 0.00\% | 0.14\% | 0.04\% | 0.02\% | NA |
| Spring Cowlitz Hatchery | 0.00\% | 0.13\% | 0.17\% | 0.12\% | NA |
| Snake River Fall | 0.00\% | 0.09\% | 0.62\% | 0.46\% | Not Represented |
| Stillaguamish Summer/Fall | 0.00\% | 0.09\% | 1.65\% | 0.84\% | Stillaguamish |
| Nooksack Spring | 0.00\% | 0.01\% | 0.25\% | 0.14\% | Not Represented |
| Alaska South SE | 0.00\% | 0.00\% | 0.01\% | 0.00\% | King Salmon, Andrew Creek |
|  |  |  |  |  | Blossom, Keta, Unuk, Chickamin |

Appendix F.4. WCVI Troll and Outside Sport.

|  | 2008 | Average (1985-2007) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Model Stock | Catch <br> as <br> Percent of <br> Fishery | Catch as Percent of Fishery | Catch as Percent of All Fisheries | Catch as Percent of Total Return | Escapement Indicator Stocks |
| Fraser Late | 23.31\% | 22.79\% | 22.32\% | 10.97\% | Harrison |
| PS Hatchery Fingerling | 12.09\% | 9.27\% | 15.74\% | 9.73\% | NA |
| Columbia Upriver Bright | 6.18\% | 8.27\% | 8.96\% | 4.95\% | Columbia Upriver Bright |
| Fall Cowlitz Hatchery | 5.63\% | 7.29\% | 24.31\% | 11.51\% | NA |
| Spring Creek Hatchery | 16.18\% | 7.04\% | 15.00\% | 11.82\% | NA |
| Lower Bonneville Hatchery | 4.34\% | 6.09\% | 31.91\% | 15.59\% | NA |
| Oregon Coastal North Migrating | 0.97\% | 5.05\% | 7.15\% | 3.60\% | Oregon Coastal |
| WCVI Hatchery | 0.00\% | 4.71\% | 7.51\% | 3.44\% | NA |
| Nooksack Fall | 2.15\% | 4.58\% | 10.90\% | 8.47\% | NA |
| Puget Sound Natural | 2.30\% | 3.64\% | 15.85\% | 9.72\% | Green |
| Mid-Columbia Brights | 5.95\% | 3.59\% | 12.95\% | 5.98\% | Not Represented |
| Columbia Upriver Summer | 5.59\% | 2.86\% | 22.02\% | 10.64\% | Columbia Upriver Summer |
| Washington Coastal Wild | 2.52\% | 2.43\% | 8.56\% | 4.84\% | Grays Harbor Fall |
|  |  |  |  |  | Quillayute Fall |
|  |  |  |  |  | Hoh Fall |
|  |  |  |  |  | Queets Fall |
| Willamette River Hatchery | 1.47\% | 2.07\% | 7.00\% | 3.26\% | NA |
| WA Coastal Hatchery | 2.57\% | 1.97\% | 7.74\% | 4.67\% | NA |
| Fraser Early | 1.60\% | 1.37\% | 3.89\% | 1.13\% | Upper Fraser |
|  |  |  |  |  | Middle Fraser |
|  |  |  |  |  | Thompson |
| WCVI Wild | 0.00\% | 1.19\% | 7.50\% | 3.45\% | WCVI |
| Skagit Summer/Fall | 1.56\% | 0.97\% | 20.84\% | 7.32\% | Skagit Summer/Fall |
| PS Yearling | 1.52\% | 0.86\% | 9.62\% | 7.09\% | NA |
| Lewis River Wild | 0.46\% | 0.83\% | 10.49\% | 5.28\% | Lewis River |
| Spring Cowlitz Hatchery | 0.37\% | 0.75\% | 7.72\% | 4.99\% | NA |
| Lower GS Hatchery | 0.53\% | 0.51\% | 2.28\% | 1.35\% | NA |
| Snohomish Summer/Fall | 0.61\% | 0.49\% | 18.93\% | 7.35\% | Snohomish |
| North/Central BC | 0.49\% | 0.48\% | 0.40\% | 0.19\% | Yakoun, Nass, Skeena |
|  |  |  |  |  | Area 6 Index |
|  |  |  |  |  | Area 8 Index |
|  |  |  |  |  | Rivers and Smith Inlet |
| Snake River Fall | 1.15\% | 0.40\% | 23.16\% | 15.88\% | Not Represented |
| Lower Georgia Strait | 0.22\% | 0.25\% | 2.29\% | 1.39\% | Lower Georgia Strait |
| Upper Georgia Strait | 0.13\% | 0.12\% | 0.52\% | 0.33\% | Upper Georgia Strait |
| Stillaguamish Summer/Fall | 0.11\% | 0.11\% | 15.62\% | 6.94\% | Stillaguamish |
| Nooksack Spring | 0.02\% | 0.02\% | 10.01\% | 3.86\% | Not Represented |
| Alaska South SE | 0.00\% | 0.00\% | 0.00\% | 0.00\% | King Salmon, Andrew Creek |
|  |  |  |  |  | Blossom, Keta, Unuk, Chickamin |

Appendix F.5. Strait of Georgia Sport and Troll.

|  | 2008 | Average (1985-2007) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Model Stock | Catch <br> as <br> Percent of Fishery | Catch as Percent of Fishery | Catch as Percent of All Fisherie S | Catch as Percent of Total Return | Escapement Indicator Stocks |
| Fraser Late | 33.53\% | 47.84\% | 42.12\% | 21.37\% | Harrison |
| Lower GS Hatchery | 11.25\% | 11.28\% | 45.68\% | 28.18\% | NA |
| Nooksack Fall | 7.19\% | 9.02\% | 19.64\% | 14.95\% | NA |
| Lower Georgia Strait | 4.49\% | 5.99\% | 46.49\% | 29.63\% | Lower Georgia Strait |
| PS Hatchery Fingerling | 10.09\% | 5.26\% | 8.27\% | 5.08\% | NA |
| Fraser Early | 6.60\% | 4.14\% | 10.53\% | 2.93\% | Upper Fraser |
|  |  |  |  |  | Middle Fraser |
|  |  |  |  |  | Thompson |
| Upper Georgia Strait | 4.92\% | 3.04\% | 11.78\% | 7.13\% | Upper Georgia Strait |
| PS Yearling | 5.91\% | 2.07\% | 20.19\% | 14.77\% | NA |
| Puget Sound Natural | 1.97\% | 2.01\% | 8.01\% | 4.86\% | Green |
| Skagit Summer/Fall | 2.88\% | 1.26\% | 25.68\% | 8.85\% | Skagit Summer/Fall |
| Columbia Upriver Bright | 1.65\% | 1.10\% | 1.04\% | 0.55\% | Columbia Upriver Bright |
| Washington Coastal Wild | 1.05\% | 0.98\% | 3.05\% | 1.75\% | Grays Harbor Fall |
|  |  |  |  |  | Quillayute Fall |
|  |  |  |  |  | Hoh Fall |
|  |  |  |  |  | Queets Fall |
| Spring Creek Hatchery | 1.26\% | 0.89\% | 1.69\% | 1.32\% | NA |
| WCVI Hatchery | 0.92\% | 0.82\% | 1.44\% | 0.49\% | NA |
| WA Coastal Hatchery | 1.11\% | 0.80\% | 2.75\% | 1.70\% | NA |
| Lower Bonneville Hatchery | 0.42\% | 0.74\% | 3.69\% | 1.58\% | NA |
| Snohomish Summer/Fall | 1.22\% | 0.64\% | 23.71\% | 8.74\% | Snohomish |
| North/Central BC | 1.01\% | 0.64\% | 0.55\% | 0.25\% | Yakoun, Nass, Skeena |
|  |  |  |  |  | Area 6 Index |
|  |  |  |  |  | Area 8 Index |
|  |  |  |  |  | Rivers and Smith Inlet |
| Columbia Upriver Summer | 1.12\% | 0.39\% | 3.19\% | 1.40\% | Columbia Upriver Summer |
| Mid-Columbia Brights | 0.72\% | 0.37\% | 1.28\% | 0.58\% | Not Represented |
| Stillaguamish Summer/Fall | 0.28\% | 0.18\% | 23.06\% | 9.99\% | Stillaguamish |
| Nooksack Spring | 0.17\% | 0.18\% | 66.35\% | 26.82\% | Not Represented |
| WCVI Wild | 0.11\% | 0.17\% | 1.43\% | 0.48\% | WCVI |
| Willamette River Hatchery | 0.09\% | 0.13\% | 0.39\% | 0.19\% | NA |
| Spring Cowlitz Hatchery | 0.03\% | 0.05\% | 0.48\% | 0.28\% | NA |
| Fall Cowlitz Hatchery | 0.00\% | 0.02\% | 0.04\% | 0.02\% | NA |
| Lewis River Wild | 0.00\% | 0.02\% | 0.16\% | 0.10\% | Lewis River |
| Snake River Fall | 0.01\% | 0.00\% | 0.08\% | 0.06\% | Not Represented |
| Alaska South SE | 0.00\% | 0.00\% | 0.00\% | 0.00\% | King Salmon, Andrew Creek |
|  |  |  |  |  | Blossom, Keta, Unuk, Chickamin |
| Oregon Coastal North Migrating | 0.00\% | 0.00\% | 0.00\% | 0.00\% | Oregon Coastal |

Appendix F.6. Washington/Oregon Troll and Sport.

|  | 2008 | Average (1985-2007) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Model Stock | Catch as <br> Percent of <br> Fishery | Catch as Percent of Fishery | Catch as <br> Percent of All <br> Fisheries | Catch as Percent of Total Return | Escapement Indicator Stocks |
| Spring Creek Hatchery | 42.40\% | 22.27\% | 30.92\% | 24.55\% | NA |
| Fraser Late | 14.06\% | 20.12\% | 12.21\% | 5.82\% | Harrison |
| Fall Cowlitz Hatchery | 16.43\% | 19.07\% | 40.61\% | 18.24\% | NA |
| Lower Bonneville Hatchery | 6.60\% | 11.47\% | 39.60\% | 17.82\% | NA |
| Spring Cowlitz Hatchery | 2.00\% | 4.80\% | 33.70\% | 19.60\% | NA |
| Columbia Upriver Bright | 4.63\% | 3.95\% | 2.69\% | 1.41\% | Columbia Upriver Bright |
| PS Hatchery Fingerling | 3.29\% | 3.66\% | 3.70\% | 2.21\% | NA |
| Oregon Coastal North Migrating | 0.91\% | 2.75\% | 2.38\% | 1.11\% | Oregon Coastal |
| Willamette River Hatchery | 0.94\% | 1.87\% | 4.03\% | 1.78\% | NA |
| Nooksack Fall | 0.59\% | 1.80\% | 2.48\% | 1.89\% | NA |
| Puget Sound Natural | 0.62\% | 1.46\% | 3.76\% | 2.18\% | Green |
| Lewis River Wild | 0.80\% | 1.43\% | 12.44\% | 5.52\% | Lewis River |
| Mid-Columbia Brights | 1.97\% | 1.34\% | 3.09\% | 1.36\% | Not Represented |
| Washington Coastal Wild | 0.71\% | 1.26\% | 2.44\% | 1.35\% | Grays Harbor Fall |
|  |  |  |  |  | Quillayute Fall |
|  |  |  |  |  | Hoh Fall |
|  |  |  |  |  | Queets Fall |
| WA Coastal Hatchery | 0.73\% | 1.03\% | 2.23\% | 1.32\% | NA |
| Columbia Upriver Summer | 1.24\% | 0.63\% | 3.07\% | 1.44\% | Columbia Upriver Summer |
| Snake River Fall | 1.46\% | 0.61\% | 21.62\% | 14.35\% | Not Represented |
| Fraser Early | 0.30\% | 0.17\% | 0.36\% | 0.10\% | Upper Fraser |
|  |  |  |  |  | Middle Fraser |
|  |  |  |  |  | Thompson |
| PS Yearling | 0.21\% | 0.15\% | 0.99\% | 0.70\% | NA |
| Alaska South SE | 0.05\% | 0.08\% | 0.72\% | 0.28\% | King Salmon, Andrew Creek |
|  |  |  |  |  | Blossom, Keta, Unuk, Chickamin |
| Lower GS Hatchery | 0.03\% | 0.04\% | 0.12\% | 0.07\% | NA |
| WCVI Hatchery | 0.01\% | 0.03\% | 0.03\% | 0.01\% | NA |
| Lower Georgia Strait | 0.01\% | 0.02\% | 0.12\% | 0.07\% | Lower Georgia Strait |
| WCVI Wild | 0.00\% | 0.01\% | 0.03\% | 0.01\% | WCVI |
| Skagit Summer/Fall | 0.01\% | 0.00\% | 0.04\% | 0.01\% | Skagit Summer/Fall |
| Snohomish Summer/Fall | 0.00\% | 0.00\% | 0.03\% | 0.01\% | Snohomish |
| Upper Georgia Strait | 0.00\% | 0.00\% | 0.00\% | 0.00\% | Upper Georgia Strait |
| Nooksack Spring | 0.00\% | 0.00\% | 0.00\% | 0.00\% | Not Represented |
| North/Central BC | 0.00\% | 0.00\% | 0.00\% | 0.00\% | Yakoun, Nass, Skeena |
|  |  |  |  |  | Area 6 Index |
|  |  |  |  |  | Area 8 Index |
|  |  |  |  |  | Rivers and Smith Inlet |
| Stillaguamish Summer/Fall | 0.00\% | 0.00\% | 0.00\% | 0.00\% | Stillaguamish |

## Appendix G. Incidental mortality rates applied in the CTC model. Rates in original model were applied to all years. In the current model, rates in some fisheries vary in accordance to changes in management regulations.

|  |  | Rates in original Model |  |  | Rates applied in Model CLB0807 |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :--- | :--- | :--- | :--- |
| Fishery <br> Number | Fishery | Sublegal <br> Rate | Legal <br> Rate | Dropoff | Sublegal <br> Rate | Legal <br> Rate | Dropoff | Applicable <br> Years |
| 1 | Alaska T | 0.3 | 0.3 | 0 | 0.255 | 0.211 | 0.008 | All |
| 2 | North T | 0.3 | 0.3 | 0 | 0.255 | 0.211 | 0.017 | $1979-1995$ |
| 2 | North T |  |  |  | 0.220 | 0.185 | 0.017 | $1996-2006$ |
| 3 | Centr T | 0.3 | 0.3 | 0 | 0.255 | 0.211 | 0.017 | $1979-1995$ |
| 3 | Centr T |  |  |  | 0.220 | 0.185 | 0.017 | $1996-2006$ |
| 4 | WCVI T | 0.3 | 0.3 | 0 | 0.255 | 0.211 | 0.017 | $1979-1997$ |
| 4 | WCVI T |  |  |  | 0.220 | 0.185 | 0.017 | $1998-2006$ |
| 5 | WA/OR T | 0.3 | 0.3 | 0 | 0.255 | 0.211 | 0.017 | $1979-1983$ |
| 5 | WA/OR T |  |  |  | 0.220 | 0.185 | 0.017 | $1984-2006$ |
| 6 | Geo St T | 0.3 | 0.3 | 0 | 0.255 | 0.211 | 0.017 | $1979-1985,1987$ |
| 6 | Geo St T |  |  |  | 0.220 | 0.185 | 0.017 | $1986,1988-2006$ |
| 7 | Alaska N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 8 | North N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 9 | Centr N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 10 | WCVI N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 11 | J De F N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 12 | PgtNth N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 13 | PgtSth N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 14 | WashCst N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 15 | Col R N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 16 | JohnSt N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 17 | Fraser N | 0.9 | 0.9 | 0 | 0.9 | 0.9 | 0 | All |
| 18 | Alaska S | 0.3 | 0.3 | 0 | 0.123 | 0.123 | 0.036 | All |
| 19 | Nor/Cen S | 0.3 | 0.3 | 0 | 0.123 | 0.123 | 0.036 | All |
| 20 | WCVI S | 0.3 | 0.3 | 0 | 0.123 | 0.123 | 0.069 | All |
| 21 | Wash Ocn S | 0.3 | 0.3 | 0 | 0.123 | 0.123 | 0.069 | All |
| 22 | Pgt Nth S | 0.3 | 0.3 | 0 | 0.123 | 0.123 | 0.145 | All |
| 23 | Pgt Sth S | 0.3 | 0.3 | 0 | 0.123 | 0.123 | 0.145 | All |
| 24 | Geo St S | 0.3 | 0.3 | 0 | 0.322 | 0.322 | 0.069 | $1979-1981$ |
| 24 | Geo St S |  |  |  | 0.123 | 0.123 | 0.069 | $1982-2006$ |
| 25 | Col R S | 0.3 | 0.3 | 0 | 0.123 | 0.123 | 0.069 | All |

Appendix H. Time series of abundance indices from 1979 to 2009 for SEAK, NBC, and WCVI AABM fisheries as estimated by CTC Chinook Model calibration CLB0907.

This time series is NOT the first postseason AI and is for trend analysis only (Figures 3.4 to 3.6). For evaluation of overage and underage (Tables 3.4 and 3.5), use the first postseason AI in Table 3.3 instead. (Source 0907PABD).

| Year | SEAK | NBC | WCVI |
| :---: | :---: | :---: | :---: |
| 1979 | 0.96 | 1.03 | 1.10 |
| 1980 | 1.02 | 0.97 | 0.96 |
| 1981 | 0.92 | 0.94 | 0.93 |
| 1982 | 1.09 | 1.06 | 1.01 |
| 1983 | 1.30 | 1.24 | 0.95 |
| 1984 | 1.48 | 1.41 | 1.01 |
| 1985 | 1.34 | 1.32 | 0.98 |
| 1986 | 1.51 | 1.48 | 1.03 |
| 1987 | 1.76 | 1.75 | 1.19 |
| 1988 | 2.17 | 1.87 | 1.12 |
| 1989 | 1.87 | 1.69 | 0.98 |
| 1990 | 1.90 | 1.65 | 0.89 |
| 1991 | 1.80 | 1.53 | 0.75 |
| 1992 | 1.67 | 1.41 | 0.78 |
| 1993 | 1.68 | 1.43 | 0.69 |
| 1994 | 1.58 | 1.26 | 0.52 |
| 1995 | 1.06 | 0.98 | 0.41 |
| 1996 | 0.94 | 0.93 | 0.49 |
| 1997 | 1.25 | 1.12 | 0.58 |
| 1998 | 1.20 | 1.01 | 0.56 |
| 1999 | 1.09 | 0.95 | 0.49 |
| 2000 | 0.97 | 0.94 | 0.50 |
| 2001 | 1.17 | 1.21 | 0.77 |
| 2002 | 1.76 | 1.70 | 1.13 |
| 2003 | 2.21 | 1.91 | 1.19 |
| 2004 | 2.06 | 1.80 | 0.98 |
| 2005 | 1.81 | 1.55 | 0.79 |
| 2006 | 1.51 | 1.24 | 0.62 |
| 2007 | 1.20 | 0.98 | 0.63 |
| 2008 | 1.01 | 0.93 | 0.72 |
| 2009 | 1.33 | 1.10 |  |

## Appendix I. Abundance indices in total and by model stock for AABM fisheries, from Calibration \#0907.

## LIST OF APPENDIX I TABLES

Table I.1. Abundance indices (AIs) for the Southeast Alaska troll fishery by model stock and year (stock groups 1-15), from CLB 0907. Numbers represent the model stock contribution to the total AI: the summation across all 30 stocks and stock groups equals the AI total for each calendar year.196
Table I.2. Abundance indices (AIs) for the Northern BC troll fishery by stock and year (stock groups 1-15), from CLB 0907. Numbers represent the model stock contribution to the total AI: the summation across all 30 stocks and stock groups equals the AI total for each calendar year.198
Table I.3. Abundance indices (AIs) for the WCVI troll fishery by stock and year (stock groups 1-15), from CLB 0907. Numbers represent the portion of the AI total estimated for each model stock; the summation across all 30 stock groups equals the AI total for each.200

Table I.1. Abundance indices (AIs) for the Southeast Alaska troll fishery by model stock and year (stock groups 1-15), from CLB 0907. Numbers represent the model stock contribution to the total AI: the summation across all 30 stocks and stock groups equals the AI total for each calendar year.

| Year | Alaska <br> South SE | North/ <br> Centr | Fraser Early | Fraser <br> Late | WCVI <br> Hatchery | WCVI <br> Natural | Georgia <br> St. Upper | Georgia St. Lwr Nat | Georgia St. Lwr Hat | Nooksack Fall | Pgt Sd Fing | Pgt Sd <br> NatF | $\begin{aligned} & \text { Pgt Sd } \\ & \text { Year } \end{aligned}$ | Nooksack Spring | Skagit <br> Wild | AI Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | 0.03 | 0.12 | 0.06 | 0.00 | 0.05 | 0.07 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 |
| 1980 | 0.03 | 0.13 | 0.05 | 0.00 | 0.10 | 0.15 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.02 |
| 1981 | 0.04 | 0.14 | 0.04 | 0.00 | 0.08 | 0.12 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 |
| 1982 | 0.05 | 0.14 | 0.04 | 0.00 | 0.19 | 0.21 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 |
| 1983 | 0.06 | 0.16 | 0.04 | 0.00 | 0.30 | 0.14 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 |
| 1984 | 0.06 | 0.19 | 0.05 | 0.00 | 0.28 | 0.10 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.48 |
| 1985 | 0.06 | 0.21 | 0.07 | 0.00 | 0.15 | 0.05 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 |
| 1986 | 0.07 | 0.22 | 0.07 | 0.00 | 0.12 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.51 |
| 1987 | 0.07 | 0.24 | 0.07 | 0.00 | 0.09 | 0.03 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.76 |
| 1988 | 0.06 | 0.25 | 0.07 | 0.00 | 0.22 | 0.06 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 |
| 1989 | 0.04 | 0.26 | 0.07 | 0.00 | 0.32 | 0.07 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.87 |
| 1990 | 0.03 | 0.26 | 0.07 | 0.00 | 0.47 | 0.10 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.90 |
| 1991 | 0.03 | 0.27 | 0.06 | 0.00 | 0.59 | 0.13 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.80 |
| 1992 | 0.03 | 0.27 | 0.06 | 0.00 | 0.55 | 0.13 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 |
| 1993 | 0.04 | 0.24 | 0.06 | 0.00 | 0.52 | 0.14 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.68 |
| 1994 | 0.03 | 0.22 | 0.07 | 0.00 | 0.42 | 0.11 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.58 |
| 1995 | 0.03 | 0.23 | 0.07 | 0.00 | 0.15 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.06 |
| 1996 | 0.03 | 0.23 | 0.08 | 0.00 | 0.05 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.94 |
| 1997 | 0.03 | 0.24 | 0.10 | 0.00 | 0.18 | 0.05 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.25 |
| 1998 | 0.04 | 0.23 | 0.08 | 0.00 | 0.28 | 0.07 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.20 |
| 1999 | 0.04 | 0.24 | 0.07 | 0.00 | 0.14 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 |
| 2000 | 0.05 | 0.26 | 0.07 | 0.00 | 0.05 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.97 |
| 2001 | 0.05 | 0.26 | 0.08 | 0.00 | 0.07 | 0.01 | 0.05 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.17 |
| 2002 | 0.04 | 0.25 | 0.10 | 0.00 | 0.23 | 0.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.76 |
| 2003 | 0.04 | 0.24 | 0.10 | 0.00 | 0.37 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 |
| 2004 | 0.04 | 0.24 | 0.09 | 0.00 | 0.37 | 0.03 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 |
| 2005 | 0.05 | 0.23 | 0.09 | 0.00 | 0.26 | 0.02 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.81 |
| 2006 | 0.06 | 0.22 | 0.10 | 0.00 | 0.23 | 0.03 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.51 |
| 2007 | 0.06 | 0.20 | 0.08 | 0.00 | 0.26 | 0.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.20 |
| 2008 | 0.04 | 0.18 | 0.08 | 0.00 | 0.13 | 0.02 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.01 |
| 2009 | 0.05 | 0.21 | 0.09 | 0.00 | 0.13 | 0.02 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.33 |
| Average | 0.05 | 0.22 | 0.07 | 0.00 | 0.24 | 0.07 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.44 |

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Table I.1. Page 2 of 2 (stock groups 16-30).
WA Col
Lwr Fall
WA
Stillaguamish Snohomish Coastal UpRiver Spring Bonneville Cowlitz Lewis R Willamette Spr Cowlitz Col R Oregon Coastal Lyons Mid Col


Table I.2. Abundance indices (AIs) for the Northern BC troll fishery by stock and year (stock groups 1-15), from CLB 0907. Numbers represent the model stock contribution to the total AI: the summation across all 30 stocks and stock groups equals the AI total for each calendar year.

| Year | Alaska South SE | North / <br> Centr | Fraser <br> Early | Fraser Late | WCVI <br> Hatchery | WCVI <br> Natural | Georgia <br> St. Upper | Georgia St. Lwr Nat | Georgia St. Lwr Hat | $\begin{gathered} \text { Nooksack } \\ \text { Fall } \\ \hline \end{gathered}$ | Pgt Sd Fing | Pgt Sd <br> NatF | $\begin{aligned} & \text { Pgt Sd } \\ & \text { Year } \end{aligned}$ | Nooksack Spring | Skagit Wild | AI Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | 0.00 | 0.08 | 0.07 | 0.02 | 0.04 | 0.05 | 0.06 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 1.03 |
| 1980 | 0.00 | 0.09 | 0.06 | 0.01 | 0.05 | 0.08 | 0.05 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.97 |
| 1981 | 0.00 | 0.09 | 0.05 | 0.02 | 0.06 | 0.08 | 0.06 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.94 |
| 1982 | 0.00 | 0.10 | 0.05 | 0.01 | 0.12 | 0.11 | 0.05 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.06 |
| 1983 | 0.00 | 0.11 | 0.05 | 0.01 | 0.17 | 0.08 | 0.04 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.24 |
| 1984 | 0.00 | 0.12 | 0.06 | 0.02 | 0.14 | 0.05 | 0.05 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.41 |
| 1985 | 0.00 | 0.13 | 0.08 | 0.02 | 0.09 | 0.03 | 0.06 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.32 |
| 1986 | 0.00 | 0.15 | 0.09 | 0.01 | 0.06 | 0.02 | 0.06 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.48 |
| 1987 | 0.00 | 0.15 | 0.09 | 0.01 | 0.07 | 0.02 | 0.07 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 |
| 1988 | 0.00 | 0.16 | 0.08 | 0.01 | 0.13 | 0.03 | 0.06 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.87 |
| 1989 | 0.00 | 0.17 | 0.08 | 0.01 | 0.20 | 0.04 | 0.07 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 |
| 1990 | 0.00 | 0.18 | 0.08 | 0.01 | 0.27 | 0.06 | 0.05 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 |
| 1991 | 0.00 | 0.18 | 0.08 | 0.01 | 0.32 | 0.07 | 0.05 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.53 |
| 1992 | 0.00 | 0.17 | 0.07 | 0.01 | 0.31 | 0.08 | 0.03 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.41 |
| 1993 | 0.00 | 0.16 | 0.07 | 0.01 | 0.29 | 0.07 | 0.03 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.43 |
| 1994 | 0.00 | 0.16 | 0.08 | 0.00 | 0.20 | 0.05 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 |
| 1995 | 0.00 | 0.15 | 0.08 | 0.00 | 0.07 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 |
| 1996 | 0.00 | 0.15 | 0.09 | 0.01 | 0.05 | 0.01 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 |
| 1997 | 0.00 | 0.16 | 0.11 | 0.01 | 0.12 | 0.03 | 0.03 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.12 |
| 1998 | 0.00 | 0.16 | 0.10 | 0.01 | 0.13 | 0.03 | 0.04 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.01 |
| 1999 | 0.00 | 0.16 | 0.09 | 0.01 | 0.07 | 0.01 | 0.05 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.95 |
| 2000 | 0.00 | 0.16 | 0.08 | 0.01 | 0.03 | 0.00 | 0.06 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.94 |
| 2001 | 0.00 | 0.17 | 0.09 | 0.01 | 0.06 | 0.01 | 0.07 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 |
| 2002 | 0.00 | 0.17 | 0.11 | 0.01 | 0.15 | 0.02 | 0.07 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.70 |
| 2003 | 0.00 | 0.17 | 0.12 | 0.01 | 0.19 | 0.02 | 0.08 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.91 |
| 2004 | 0.00 | 0.18 | 0.12 | 0.01 | 0.21 | 0.02 | 0.09 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.80 |
| 2005 | 0.00 | 0.16 | 0.10 | 0.01 | 0.14 | 0.01 | 0.09 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.55 |
| 2006 | 0.00 | 0.15 | 0.11 | 0.01 | 0.14 | 0.02 | 0.08 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.24 |
| 2007 | 0.00 | 0.14 | 0.11 | 0.00 | 0.12 | 0.01 | 0.06 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 |
| 2008 | 0.00 | 0.13 | 0.10 | 0.00 | 0.08 | 0.01 | 0.07 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.93 |
| 2009 | 0.00 | 0.14 | 0.10 | 0.00 | 0.06 | 0.01 | 0.08 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.10 |
| Average | 0.00 | 0.15 | 0.09 | 0.01 | 0.13 | 0.04 | 0.06 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.30 |

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Table I.2. Page 2 of 2 (stock groups 16-30).

| Year | Stillaguamish Wild | Snohomish Wild | WA <br> Coastal Hat | Col UpRiver Brights | Spring Creek Hat | Lwr Bonneville Hat | Fall Cowlitz Hat | Lewis R Wild | Willamette R Hat | Spr Cowlitz Hat | Col R <br> Summer | Oregon Coast | WA <br> Coastal Wild | Lyons <br> Ferry | Mid Col <br> R Brights | AI Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 0.00 | 0.01 | 0.04 | 0.12 | 0.00 | 0.00 | 0.02 | 0.01 | 0.05 | 0.01 | 0.02 | 0.30 | 0.05 | 0.00 | 0.00 | 1.03 |
| 1980 | 0.00 | 0.01 | 0.04 | 0.09 | 0.00 | 0.00 | 0.02 | 0.01 | 0.06 | 0.01 | 0.02 | 0.24 | 0.06 | 0.00 | 0.00 | 0.97 |
| 1981 | 0.00 | 0.00 | 0.04 | 0.07 | 0.00 | 0.00 | 0.02 | 0.01 | 0.07 | 0.01 | 0.02 | 0.23 | 0.06 | 0.00 | 0.01 | 0.94 |
| 1982 | 0.00 | 0.00 | 0.03 | 0.04 | 0.00 | 0.00 | 0.02 | 0.01 | 0.08 | 0.01 | 0.02 | 0.28 | 0.06 | 0.00 | 0.01 | 1.06 |
| 1983 | 0.00 | 0.00 | 0.03 | 0.07 | 0.00 | 0.00 | 0.02 | 0.01 | 0.09 | 0.01 | 0.02 | 0.41 | 0.06 | 0.00 | 0.02 | 1.24 |
| 1984 | 0.00 | 0.00 | 0.03 | 0.14 | 0.00 | 0.00 | 0.02 | 0.01 | 0.09 | 0.01 | 0.02 | 0.51 | 0.06 | 0.00 | 0.01 | 1.41 |
| 1985 | 0.00 | 0.00 | 0.03 | 0.16 | 0.00 | 0.00 | 0.02 | 0.00 | 0.08 | 0.00 | 0.02 | 0.47 | 0.07 | 0.00 | 0.01 | 1.32 |
| 1986 | 0.00 | 0.00 | 0.05 | 0.25 | 0.00 | 0.00 | 0.02 | 0.01 | 0.10 | 0.01 | 0.02 | 0.49 | 0.08 | 0.00 | 0.02 | 1.48 |
| 1987 | 0.00 | 0.00 | 0.07 | 0.34 | 0.00 | 0.00 | 0.03 | 0.02 | 0.13 | 0.01 | 0.02 | 0.53 | 0.10 | 0.00 | 0.06 | 1.75 |
| 1988 | 0.00 | 0.00 | 0.09 | 0.33 | 0.00 | 0.00 | 0.08 | 0.02 | 0.14 | 0.01 | 0.02 | 0.48 | 0.12 | 0.00 | 0.09 | 1.87 |
| 1989 | 0.00 | 0.00 | 0.09 | 0.20 | 0.00 | 0.00 | 0.02 | 0.01 | 0.14 | 0.01 | 0.02 | 0.41 | 0.13 | 0.00 | 0.07 | 1.69 |
| 1990 | 0.00 | 0.00 | 0.08 | 0.15 | 0.00 | 0.00 | 0.01 | 0.01 | 0.14 | 0.00 | 0.01 | 0.40 | 0.11 | 0.00 | 0.05 | 1.65 |
| 1991 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.00 | 0.01 | 0.01 | 0.10 | 0.00 | 0.01 | 0.37 | 0.10 | 0.00 | 0.03 | 1.53 |
| 1992 | 0.00 | 0.00 | 0.09 | 0.07 | 0.00 | 0.00 | 0.01 | 0.01 | 0.07 | 0.01 | 0.01 | 0.33 | 0.09 | 0.00 | 0.03 | 1.41 |
| 1993 | 0.00 | 0.00 | 0.08 | 0.12 | 0.00 | 0.00 | 0.01 | 0.00 | 0.06 | 0.00 | 0.01 | 0.37 | 0.08 | 0.00 | 0.03 | 1.43 |
| 1994 | 0.00 | 0.00 | 0.07 | 0.13 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.00 | 0.01 | 0.34 | 0.08 | 0.00 | 0.03 | 1.26 |
| 1995 | 0.00 | 0.00 | 0.07 | 0.08 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.00 | 0.01 | 0.29 | 0.07 | 0.00 | 0.03 | 0.98 |
| 1996 | 0.00 | 0.00 | 0.06 | 0.09 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.00 | 0.01 | 0.24 | 0.07 | 0.00 | 0.04 | 0.93 |
| 1997 | 0.00 | 0.00 | 0.05 | 0.12 | 0.00 | 0.00 | 0.01 | 0.00 | 0.05 | 0.00 | 0.01 | 0.26 | 0.07 | 0.00 | 0.06 | 1.12 |
| 1998 | 0.00 | 0.00 | 0.03 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.02 | 0.22 | 0.06 | 0.00 | 0.04 | 1.01 |
| 1999 | 0.00 | 0.00 | 0.03 | 0.14 | 0.00 | 0.00 | 0.01 | 0.00 | 0.06 | 0.00 | 0.03 | 0.19 | 0.05 | 0.00 | 0.04 | 0.95 |
| 2000 | 0.00 | 0.00 | 0.03 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.04 | 0.23 | 0.04 | 0.00 | 0.03 | 0.94 |
| 2001 | 0.00 | 0.00 | 0.03 | 0.15 | 0.00 | 0.00 | 0.01 | 0.01 | 0.11 | 0.00 | 0.05 | 0.30 | 0.05 | 0.00 | 0.05 | 1.21 |
| 2002 | 0.00 | 0.00 | 0.04 | 0.22 | 0.00 | 0.00 | 0.02 | 0.01 | 0.14 | 0.00 | 0.06 | 0.45 | 0.06 | 0.00 | 0.11 | 1.70 |
| 2003 | 0.00 | 0.00 | 0.05 | 0.30 | 0.00 | 0.00 | 0.03 | 0.01 | 0.10 | 0.01 | 0.06 | 0.52 | 0.07 | 0.00 | 0.14 | 1.91 |
| 2004 | 0.00 | 0.00 | 0.06 | 0.24 | 0.00 | 0.00 | 0.01 | 0.01 | 0.09 | 0.01 | 0.06 | 0.50 | 0.07 | 0.00 | 0.10 | 1.80 |
| 2005 | 0.00 | 0.00 | 0.06 | 0.24 | 0.00 | 0.00 | 0.02 | 0.01 | 0.05 | 0.00 | 0.05 | 0.40 | 0.07 | 0.00 | 0.09 | 1.55 |
| 2006 | 0.00 | 0.00 | 0.06 | 0.16 | 0.00 | 0.00 | 0.01 | 0.00 | 0.05 | 0.01 | 0.05 | 0.24 | 0.06 | 0.00 | 0.07 | 1.24 |
| 2007 | 0.00 | 0.00 | 0.05 | 0.09 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.00 | 0.05 | 0.15 | 0.05 | 0.00 | 0.05 | 0.98 |
| 2008 | 0.00 | 0.00 | 0.05 | 0.12 | 0.00 | 0.00 | 0.01 | 0.00 | 0.05 | 0.00 | 0.05 | 0.11 | 0.05 | 0.00 | 0.06 | 0.93 |
| 2009 | 0.00 | 0.00 | 0.06 | 0.22 | 0.00 | 0.00 | 0.02 | 0.00 | 0.04 | 0.00 | 0.06 | 0.10 | 0.05 | 0.01 | 0.10 | 1.10 |
| Average | 0.00 | 0.00 | 0.05 | 0.15 | 0.00 | 0.00 | 0.02 | 0.01 | 0.08 | 0.00 | 0.03 | 0.33 | 0.07 | 0.00 | 0.05 | 1.30 |

Table I.3. Abundance indices (AIs) for the WCVI troll fishery by stock and year (stock groups 1-15), from CLB 0907. Numbers represent the portion of the AI total estimated for each model stock; the summation across all 30 stock groups equals the AI total for each.

| Year | Alaska South SE | North / Centr | Fraser <br> Early | Fraser <br> Late | WCVI <br> Hatchery | WCVI <br> Natural | Georgia St. <br> Upper | Georgia St. Lwr Nat | Georgia St. Lwr Hat | $\begin{gathered} \text { Nooksack } \\ \text { Fall } \\ \hline \end{gathered}$ | Pgt Sd <br> Fing | Pgt Sd <br> NatF | $\begin{gathered} \text { Pgt Sd } \\ \text { Year } \end{gathered}$ | Nooksack Spring | Skagit <br> Wild | AI Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | 0.00 | 0.00 | 0.01 | 0.27 | 0.01 | 0.02 | 0.00 | 0.01 | 0.01 | 0.08 | 0.04 | 0.03 | 0.02 | 0.00 | 0.02 | 1.10 |
| 1980 | 0.00 | 0.00 | 0.01 | 0.21 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | 0.09 | 0.05 | 0.02 | 0.03 | 0.00 | 0.02 | 0.96 |
| 1981 | 0.00 | 0.00 | 0.00 | 0.24 | 0.02 | 0.03 | 0.00 | 0.00 | 0.01 | 0.09 | 0.05 | 0.02 | 0.03 | 0.00 | 0.02 | 0.93 |
| 1982 | 0.00 | 0.00 | 0.00 | 0.26 | 0.04 | 0.03 | 0.00 | 0.00 | 0.01 | 0.09 | 0.05 | 0.02 | 0.02 | 0.00 | 0.01 | 1.01 |
| 1983 | 0.00 | 0.00 | 0.01 | 0.23 | 0.05 | 0.02 | 0.00 | 0.00 | 0.00 | 0.10 | 0.06 | 0.03 | 0.02 | 0.00 | 0.01 | 0.95 |
| 1984 | 0.00 | 0.00 | 0.01 | 0.26 | 0.04 | 0.01 | 0.00 | 0.00 | 0.01 | 0.12 | 0.06 | 0.03 | 0.02 | 0.00 | 0.02 | 1.01 |
| 1985 | 0.00 | 0.00 | 0.01 | 0.29 | 0.03 | 0.01 | 0.00 | 0.00 | 0.01 | 0.11 | 0.05 | 0.03 | 0.01 | 0.00 | 0.01 | 0.98 |
| 1986 | 0.00 | 0.00 | 0.01 | 0.23 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.09 | 0.06 | 0.03 | 0.01 | 0.00 | 0.01 | 1.03 |
| 1987 | 0.00 | 0.00 | 0.01 | 0.12 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.06 | 0.06 | 0.04 | 0.01 | 0.00 | 0.01 | 1.19 |
| 1988 | 0.00 | 0.00 | 0.01 | 0.07 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.05 | 0.07 | 0.05 | 0.01 | 0.00 | 0.01 | 1.12 |
| 1989 | 0.00 | 0.00 | 0.01 | 0.18 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.07 | 0.07 | 0.05 | 0.01 | 0.00 | 0.01 | 0.98 |
| 1990 | 0.00 | 0.00 | 0.01 | 0.21 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.07 | 0.07 | 0.05 | 0.01 | 0.00 | 0.01 | 0.89 |
| 1991 | 0.00 | 0.00 | 0.01 | 0.16 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.04 | 0.01 | 0.00 | 0.00 | 0.75 |
| 1992 | 0.00 | 0.00 | 0.01 | 0.21 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.03 | 0.00 | 0.00 | 0.00 | 0.78 |
| 1993 | 0.00 | 0.00 | 0.01 | 0.17 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.03 | 0.05 | 0.02 | 0.00 | 0.00 | 0.00 | 0.69 |
| 1994 | 0.00 | 0.00 | 0.01 | 0.10 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.03 | 0.00 | 0.00 | 0.00 | 0.52 |
| 1995 | 0.00 | 0.00 | 0.01 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.03 | 0.00 | 0.00 | 0.00 | 0.41 |
| 1996 | 0.00 | 0.00 | 0.01 | 0.07 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.03 | 0.00 | 0.00 | 0.00 | 0.49 |
| 1997 | 0.00 | 0.00 | 0.01 | 0.16 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.02 | 0.00 | 0.00 | 0.01 | 0.58 |
| 1998 | 0.00 | 0.00 | 0.01 | 0.18 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.02 | 0.00 | 0.00 | 0.00 | 0.56 |
| 1999 | 0.00 | 0.00 | 0.01 | 0.11 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.02 | 0.00 | 0.00 | 0.01 | 0.49 |
| 2000 | 0.00 | 0.00 | 0.01 | 0.12 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.06 | 0.02 | 0.00 | 0.00 | 0.01 | 0.50 |
| 2001 | 0.00 | 0.00 | 0.01 | 0.11 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 | 0.02 | 0.00 | 0.00 | 0.01 | 0.77 |
| 2002 | 0.00 | 0.00 | 0.01 | 0.20 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 | 0.02 | 0.01 | 0.00 | 0.01 | 1.13 |
| 2003 | 0.00 | 0.00 | 0.01 | 0.24 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.02 | 0.01 | 0.00 | 0.01 | 1.19 |
| 2004 | 0.00 | 0.00 | 0.01 | 0.15 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.02 | 0.01 | 0.00 | 0.01 | 0.98 |
| 2005 | 0.00 | 0.00 | 0.01 | 0.10 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.01 | 0.01 | 0.00 | 0.01 | 0.79 |
| 2006 | 0.00 | 0.00 | 0.01 | 0.10 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.02 | 0.01 | 0.00 | 0.01 | 0.62 |
| 2007 | 0.00 | 0.00 | 0.01 | 0.08 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.11 | 0.02 | 0.01 | 0.00 | 0.01 | 0.53 |
| 2008 | 0.00 | 0.00 | 0.01 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.10 | 0.02 | 0.01 | 0.00 | 0.01 | 0.64 |
| 2009 | 0.00 | 0.00 | 0.01 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.02 | 0.01 | 0.00 | 0.01 | 0.72 |
| Average | 0.00 | 0.00 | 0.01 | 0.16 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.05 | 0.06 | 0.03 | 0.01 | 0.00 | 0.01 | 0.82 |

-continued-

Table I.3. Page 2 of 2 (stock groups 16-30).

| Year | Stillaguamish Wild | Snohomish Wild | WA <br> Coastal Hat | Col UpRiver Brights | Spring Creek Hat | Lwr Bonneville Hat | Fall Cowlitz Hat | Lewis R Wild | Willamette R Hat | Spr Cowlitz Hat | Col R <br> Summer | Oregon <br> Coast | WA <br> Coastal Wild | Lyons <br> Ferry | Mid Col <br> R Brights | AI Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | 0.00 | 0.01 | 0.01 | 0.05 | 0.16 | 0.13 | 0.08 | 0.01 | 0.01 | 0.01 | 0.02 | 0.04 | 0.01 | 0.00 | 0.00 | 1.10 |
| 1980 | 0.00 | 0.01 | 0.01 | 0.04 | 0.13 | 0.10 | 0.08 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.01 | 0.00 | 0.00 | 0.96 |
| 1981 | 0.00 | 0.01 | 0.01 | 0.03 | 0.12 | 0.09 | 0.07 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.01 | 0.00 | 0.00 | 0.93 |
| 1982 | 0.00 | 0.01 | 0.01 | 0.03 | 0.13 | 0.10 | 0.09 | 0.01 | 0.02 | 0.01 | 0.01 | 0.04 | 0.01 | 0.00 | 0.01 | 1.01 |
| 1983 | 0.00 | 0.01 | 0.01 | 0.05 | 0.04 | 0.09 | 0.08 | 0.01 | 0.02 | 0.01 | 0.02 | 0.06 | 0.01 | 0.00 | 0.01 | 0.95 |
| 1984 | 0.00 | 0.01 | 0.01 | 0.08 | 0.05 | 0.08 | 0.07 | 0.01 | 0.02 | 0.01 | 0.02 | 0.07 | 0.01 | 0.00 | 0.00 | 1.01 |
| 1985 | 0.00 | 0.01 | 0.01 | 0.10 | 0.03 | 0.07 | 0.08 | 0.01 | 0.02 | 0.01 | 0.01 | 0.07 | 0.01 | 0.00 | 0.00 | 0.98 |
| 1986 | 0.00 | 0.00 | 0.01 | 0.15 | 0.02 | 0.12 | 0.09 | 0.01 | 0.02 | 0.01 | 0.02 | 0.07 | 0.02 | 0.00 | 0.01 | 1.03 |
| 1987 | 0.00 | 0.00 | 0.02 | 0.18 | 0.01 | 0.25 | 0.18 | 0.02 | 0.03 | 0.01 | 0.02 | 0.07 | 0.02 | 0.00 | 0.04 | 1.19 |
| 1988 | 0.00 | 0.00 | 0.02 | 0.14 | 0.03 | 0.12 | 0.27 | 0.02 | 0.03 | 0.01 | 0.02 | 0.07 | 0.03 | 0.00 | 0.04 | 1.12 |
| 1989 | 0.00 | 0.00 | 0.02 | 0.09 | 0.04 | 0.05 | 0.13 | 0.01 | 0.03 | 0.01 | 0.01 | 0.06 | 0.03 | 0.00 | 0.03 | 0.98 |
| 1990 | 0.00 | 0.00 | 0.02 | 0.06 | 0.04 | 0.03 | 0.05 | 0.01 | 0.03 | 0.01 | 0.01 | 0.06 | 0.02 | 0.00 | 0.02 | 0.89 |
| 1991 | 0.00 | 0.00 | 0.02 | 0.04 | 0.05 | 0.05 | 0.04 | 0.01 | 0.02 | 0.01 | 0.01 | 0.05 | 0.02 | 0.00 | 0.01 | 0.75 |
| 1992 | 0.00 | 0.00 | 0.02 | 0.05 | 0.04 | 0.06 | 0.05 | 0.01 | 0.01 | 0.01 | 0.01 | 0.05 | 0.02 | 0.00 | 0.01 | 0.78 |
| 1993 | 0.00 | 0.00 | 0.02 | 0.06 | 0.02 | 0.03 | 0.04 | 0.00 | 0.01 | 0.00 | 0.01 | 0.05 | 0.02 | 0.00 | 0.02 | 0.69 |
| 1994 | 0.00 | 0.00 | 0.01 | 0.05 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.01 | 0.05 | 0.01 | 0.00 | 0.01 | 0.52 |
| 1995 | 0.00 | 0.00 | 0.01 | 0.04 | 0.02 | 0.02 | 0.03 | 0.00 | 0.01 | 0.00 | 0.01 | 0.04 | 0.01 | 0.00 | 0.01 | 0.41 |
| 1996 | 0.00 | 0.00 | 0.01 | 0.06 | 0.03 | 0.02 | 0.04 | 0.00 | 0.01 | 0.00 | 0.01 | 0.04 | 0.01 | 0.00 | 0.02 | 0.49 |
| 1997 | 0.00 | 0.00 | 0.01 | 0.05 | 0.02 | 0.02 | 0.03 | 0.00 | 0.01 | 0.00 | 0.01 | 0.03 | 0.01 | 0.00 | 0.03 | 0.58 |
| 1998 | 0.00 | 0.00 | 0.01 | 0.05 | 0.02 | 0.02 | 0.02 | 0.00 | 0.01 | 0.00 | 0.01 | 0.03 | 0.01 | 0.00 | 0.02 | 0.56 |
| 1999 | 0.00 | 0.00 | 0.01 | 0.07 | 0.03 | 0.01 | 0.02 | 0.00 | 0.01 | 0.00 | 0.02 | 0.03 | 0.01 | 0.00 | 0.02 | 0.49 |
| 2000 | 0.00 | 0.00 | 0.01 | 0.06 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.03 | 0.03 | 0.01 | 0.00 | 0.02 | 0.50 |
| 2001 | 0.00 | 0.00 | 0.01 | 0.09 | 0.10 | 0.06 | 0.04 | 0.01 | 0.03 | 0.00 | 0.04 | 0.05 | 0.01 | 0.01 | 0.04 | 0.77 |
| 2002 | 0.00 | 0.00 | 0.01 | 0.13 | 0.18 | 0.07 | 0.07 | 0.01 | 0.03 | 0.01 | 0.06 | 0.07 | 0.01 | 0.01 | 0.06 | 1.13 |
| 2003 | 0.00 | 0.00 | 0.01 | 0.13 | 0.18 | 0.06 | 0.10 | 0.01 | 0.02 | 0.01 | 0.05 | 0.08 | 0.01 | 0.01 | 0.06 | 1.19 |
| 2004 | 0.00 | 0.00 | 0.01 | 0.12 | 0.17 | 0.04 | 0.08 | 0.01 | 0.02 | 0.01 | 0.05 | 0.07 | 0.02 | 0.01 | 0.05 | 0.98 |
| 2005 | 0.00 | 0.00 | 0.01 | 0.11 | 0.10 | 0.02 | 0.08 | 0.01 | 0.01 | 0.01 | 0.05 | 0.05 | 0.01 | 0.01 | 0.04 | 0.79 |
| 2006 | 0.00 | 0.00 | 0.01 | 0.07 | 0.03 | 0.01 | 0.04 | 0.00 | 0.01 | 0.01 | 0.05 | 0.03 | 0.01 | 0.01 | 0.03 | 0.62 |
| 2007 | 0.00 | 0.00 | 0.01 | 0.05 | 0.02 | 0.01 | 0.03 | 0.00 | 0.01 | 0.00 | 0.04 | 0.02 | 0.01 | 0.01 | 0.03 | 0.53 |
| 2008 | 0.00 | 0.00 | 0.01 | 0.08 | 0.08 | 0.02 | 0.04 | 0.00 | 0.01 | 0.00 | 0.04 | 0.02 | 0.01 | 0.01 | 0.04 | 0.64 |
| 2009 | 0.00 | 0.00 | 0.01 | 0.10 | 0.05 | 0.03 | 0.07 | 0.00 | 0.01 | 0.00 | 0.05 | 0.01 | 0.01 | 0.01 | 0.05 | 0.72 |
| Average | 0.00 | 0.00 | 0.01 | 0.08 | 0.06 | 0.06 | 0.07 | 0.01 | 0.02 | 0.01 | 0.02 | 0.05 | 0.01 | 0.00 | 0.02 | 0.82 |

## Appendix J. Fishery exploitation rate indices by stock, age and fishery, based on CWT data, 1975-2007.

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Table J.1. Alaska troll Stratified Proportion Fishery Index (SPFI) values as landed catch, based on CWT data.

| YEAR | SPFI | WIN/SPR | JUNE IN | JUNE OUT | JULY IN | JULY OUT | FALL | ER Stock Identifiers: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | 0.90 | 1.17 | 0.64 | 1.11 | 0.52 | 0.85 | 0.85 | Alaska Southeast | Age 4 | Age 5 | Age 6 |
| 1980 | 1.11 | 0.63 | 1.20 | 0.86 | 0.97 | 1.32 | 1.32 | Quinsam | Age 4 | Age 5 |  |
| 1981 | 1.10 | 1.18 | 0.65 | 1.07 | 1.25 | 1.16 | 1.16 | Robertson Creek | Age 3 | Age 4 | Age 5 |
| 1982 | 0.90 | 1.02 | 1.51 | 0.96 | 1.27 | 0.67 | 0.67 | Salmon River Hatchery | Age 4 | Age 5 |  |
| 1983 | 0.98 | 1.00 | 0.92 | 0.69 | 1.14 | 1.29 | 1.29 | Columbia Upriver Brights | Age | Age 5 |  |
| 1984 | 0.70 | 0.38 | 1.67 | 1.05 | 0.42 | 0.52 | 0.52 | Willamette Spring Hatchery | Age 4 | Age 5 |  |
| 1985 | 0.74 | 0.46 | 1.23 | 0.65 | 1.00 | 0.80 | 0.80 |  |  |  |  |
| 1986 | 0.51 | 0.42 | 0.59 | 0.18 | 0.76 | 1.23 | 1.23 |  |  |  |  |
| 1987 | 0.54 | 0.60 | 0.82 | 0.19 | 1.85 | 0.66 | 0.66 |  |  |  |  |
| 1988 | 0.47 | 1.42 | 0.20 | 0.00 | 1.64 | 0.68 | 0.68 |  |  |  |  |
| 1989 | 0.53 | 0.86 | 0.65 | 0.13 | 0.73 | 0.59 | 0.59 |  |  |  |  |
| 1990 | 0.80 | 0.67 | 1.29 | 0.12 | 1.58 | 1.20 | 1.20 |  |  |  |  |
| 1991 | 0.65 | 1.50 | 1.33 | 0.23 | 0.68 | 0.78 | 0.78 |  |  |  |  |
| 1992 | 0.44 | 1.07 | 0.79 | 0.08 | 0.31 | 0.40 | 0.40 |  |  |  |  |
| 1993 | 0.49 | 0.77 | 0.43 | 0.02 | 0.35 | 0.93 | 0.93 |  |  |  |  |
| 1994 | 0.47 | 0.70 | 0.18 | 0.04 | 0.23 | 0.70 | 0.70 |  |  |  |  |
| 1995 | 0.57 | 0.51 | 0.50 | 0.06 | 1.36 | 0.85 | 0.85 |  |  |  |  |
| 1996 | 0.49 | 0.60 | 1.01 | 0.10 | 0.71 | 0.58 | 0.58 |  |  |  |  |
| 1997 | 0.68 | 0.66 | 0.90 | 0.16 | 0.11 | 1.57 | 1.57 |  |  |  |  |
| 1998 | 0.45 | 0.85 | 0.23 | 0.06 | 0.54 | 1.01 | 1.01 |  |  |  |  |
| 1999 | 0.69 | 0.85 | 0.41 | 0.13 | 0.17 | 1.06 | 1.06 |  |  |  |  |
| 2000 | 0.49 | 0.97 | 0.14 | 0.09 | 0.08 | 1.50 | 1.50 |  |  |  |  |
| 2001 | 0.40 | 0.60 | 0.18 | 0.08 | 0.18 | 0.66 | 0.66 |  |  |  |  |
| 2002 | 0.56 | 0.44 | 0.15 | 0.07 | 0.21 | 1.20 | 1.20 |  |  |  |  |
| 2003 | 0.53 | 0.72 | 0.17 | 0.07 | 0.42 | 0.91 | 0.91 |  |  |  |  |
| 2004 | 0.46 | 0.83 | 0.26 | 0.08 | 0.38 | 0.95 | 0.95 |  |  |  |  |
| 2005 | 0.53 | 0.93 | 0.31 | 0.13 | 0.58 | 1.28 | 1.28 |  |  |  |  |
| 2006 | 0.70 | 1.53 | 1.13 | 0.13 | 0.16 | 1.39 | 1.39 |  |  |  |  |
| 2007 | 0.53 | 1.20 | 1.22 | 0.13 | 0.19 | 0.88 | 0.88 |  |  |  |  |

Table J.2. Alaska troll Stratified Proportion Fishery Index (SPFI) values as total mortality, based on CWT data.

| YEAR | SPFI | WIN/SPR | JUNE IN | JUNE OUT | JULY IN | JULY OUT | FALL | ER Stock Identifiers: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | 0.88 | 1.13 | 0.63 | 1.10 | 0.49 | 0.82 | 0.82 | Alaska Southeast | Age 4 | Age 5 | Age 6 |
| 1980 | 1.02 | 0.60 | 1.11 | 0.82 | 0.80 | 1.18 | 1.18 | Quinsam | Age 4 | Age 5 |  |
| 1981 | 1.11 | 1.18 | 0.68 | 1.11 | 1.11 | 1.18 | 1.18 | Robertson Creek | Age 3 | Age 4 | Age 5 |
| 1982 | 1.00 | 1.08 | 1.58 | 0.98 | 1.60 | 0.81 | 0.81 | Salmon River Hatchery | Age 4 | Age 5 |  |
| 1983 | 1.10 | 0.97 | 1.01 | 0.71 | 0.99 | 1.72 | 1.72 | Columbia Upriver Brights | Age 4 | Age 5 |  |
| 1984 | 0.69 | 0.39 | 1.67 | 1.06 | 0.42 | 0.51 | 0.51 | Willamette Spring Hatchery | Age 4 | Age 5 |  |
| 1985 | 0.86 | 0.48 | 1.19 | 0.63 | 0.93 | 1.09 | 1.09 |  |  |  |  |
| 1986 | 0.60 | 0.47 | 0.61 | 0.18 | 0.85 | 1.54 | 1.54 |  |  |  |  |
| 1987 | 0.63 | 0.62 | 0.76 | 0.18 | 2.79 | 0.80 | 0.80 |  |  |  |  |
| 1988 | 0.48 | 1.35 | 0.22 | 0.01 | 1.90 | 0.69 | 0.69 |  |  |  |  |
| 1989 | 0.59 | 0.83 | 0.64 | 0.12 | 1.05 | 0.64 | 0.64 |  |  |  |  |
| 1990 | 1.06 | 0.85 | 1.39 | 0.15 | 1.52 | 1.69 | 1.69 |  |  |  |  |
| 1991 | 0.70 | 1.42 | 1.25 | 0.22 | 1.00 | 0.84 | 0.84 |  |  |  |  |
| 1992 | 0.53 | 1.01 | 0.73 | 0.07 | 0.34 | 0.62 | 0.62 |  |  |  |  |
| 1993 | 0.57 | 0.74 | 0.40 | 0.02 | 0.38 | 1.16 | 1.16 |  |  |  |  |
| 1994 | 0.59 | 0.68 | 0.22 | 0.04 | 0.35 | 0.97 | 0.97 |  |  |  |  |
| 1995 | 0.70 | 0.51 | 0.52 | 0.06 | 1.46 | 1.07 | 1.07 |  |  |  |  |
| 1996 | 0.61 | 0.60 | 0.97 | 0.11 | 0.78 | 0.75 | 0.75 |  |  |  |  |
| 1997 | 0.69 | 0.65 | 0.84 | 0.16 | 0.15 | 1.55 | 1.55 |  |  |  |  |
| 1998 | 0.44 | 0.82 | 0.23 | 0.06 | 0.46 | 0.97 | 0.97 |  |  |  |  |
| 1999 | 0.73 | 0.84 | 0.39 | 0.13 | 0.20 | 1.13 | 1.13 |  |  |  |  |
| 2000 | 0.51 | 0.97 | 0.15 | 0.10 | 0.12 | 1.56 | 1.56 |  |  |  |  |
| 2001 | 0.43 | 0.59 | 0.17 | 0.08 | 0.24 | 0.72 | 0.72 |  |  |  |  |
| 2002 | 0.55 | 0.47 | 0.15 | 0.07 | 0.23 | 1.15 | 1.15 |  |  |  |  |
| 2003 | 0.51 | 0.73 | 0.17 | 0.08 | 0.37 | 0.86 | 0.86 |  |  |  |  |
| 2004 | 0.46 | 0.82 | 0.25 | 0.08 | 0.38 | 0.93 | 0.93 |  |  |  |  |
| 2005 | 0.55 | 1.02 | 0.40 | 0.14 | 0.52 | 1.27 | 1.27 |  |  |  |  |
| 2006 | 0.70 | 1.47 | 1.11 | 0.13 | 0.17 | 1.39 | 1.39 |  |  |  |  |
| 2007 | 0.54 | 1.11 | 1.15 | 0.12 | 0.18 | 0.92 | 0.92 |  |  |  |  |

Table J.3. Landed catch exploitation rate indices by stock and age in the NBC troll fishery, based on CWT data. Base period is 1979-1982.

| Year | AKS <br> Age 4 | QUI <br> Age 3 | QUI <br> Age 4 | RBT <br> Age 3 | RBT <br> Age 4 | $\begin{array}{r} \hline \text { RBT } \\ \text { Age } 5 \\ \hline \end{array}$ | SRH <br> Age 3 | $\begin{gathered} \text { SRH } \\ \text { Age } 4 \end{gathered}$ | $\begin{array}{r} \hline \text { SRH } \\ \text { Age } 5 \\ \hline \end{array}$ | URB Age 3 | URB <br> Age 4 | URB Age 5 | WSH <br> Age 4 | Fishery Index |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | NA | 0.54 | 0.87 | 1.22 | 0.83 | 0.48 | NA | NA | NA | 0.46 | 1.18 | NA | 0.64 | 0.78 |
| 1980 | NA | 0.80 | 0.98 | 1.12 | 0.85 | 0.78 | 0.98 | NA | NA | 1.11 | 0.99 | 1.28 | 1.18 | 0.96 |
| 1981 | NA | 1.77 | 1.45 | 0.75 | 1.05 | 1.74 | 1.59 | 1.11 | NA | NA | 1.14 | 1.31 | 1.53 | 1.33 |
| 1982 | 1.00 | 0.88 | 0.70 | 0.91 | 1.28 | NA | 0.43 | 0.89 | 1.00 | 1.43 | 0.70 | 0.42 | 0.65 | 0.85 |
| 1983 | 1.79 | 1.27 | 1.49 | 1.04 | 0.71 | 0.60 | 0.42 | 0.53 | 1.23 | 1.81 | 1.32 | NA | 1.30 | 0.89 |
| 1984 | 1.23 | 0.25 | 0.51 | 0.41 | 1.36 | 2.03 | NA | 0.60 | 2.73 | 1.04 | 2.09 | NA | 0.49 | 1.30 |
| 1985 | 0.77 | 0.24 | 0.58 | 0.89 | 1.91 | NA | 0.30 | NA | 2.24 | 1.41 | 1.67 | 1.67 | 0.21 | 1.26 |
| 1986 | 0.76 | 0.93 | 0.85 | NA | 1.05 | NA | 0.09 | 0.54 | NA | 1.14 | 1.37 | 1.98 | NA | 0.87 |
| 1987 | 0.63 | 0.35 | 0.62 | 0.49 | NA | NA | 0.16 | 0.37 | 2.28 | 1.22 | 1.96 | 2.88 | 0.54 | 1.05 |
| 1988 | 2.05 | 0.19 | 0.70 | 0.33 | 0.62 | NA | NA | 0.30 | 0.75 | 0.38 | 1.06 | 1.94 | 0.76 | 0.68 |
| 1989 | 0.97 | 0.44 | 0.46 | 0.36 | 0.88 | 1.04 | 0.11 | 0.26 | 2.13 | NA | 1.02 | 4.20 | 0.36 | 0.99 |
| 1990 | 2.06 | 0.36 | 0.96 | 0.31 | 0.71 | 0.56 | 0.14 | 0.23 | 1.97 | NA | 1.22 | 2.37 | 0.29 | 0.81 |
| 1991 | 0.68 | 0.41 | 0.66 | 0.39 | 0.75 | 1.13 | 0.11 | 0.38 | 2.04 | NA | NA | NA | 0.27 | 0.76 |
| 1992 | 0.14 | NA | 1.87 | 0.30 | 0.59 | 0.69 | 0.10 | 0.24 | 0.96 | NA | NA | NA | 0.10 | 0.60 |
| 1993 | 0.30 | NA | NA | 0.18 | 0.62 | 0.83 | 0.11 | 0.57 | 2.31 | 0.00 | 1.13 | NA | 0.20 | 0.79 |
| 1994 | 0.06 | NA | NA | 0.33 | 0.74 | 0.89 | 0.17 | 0.51 | 2.14 | NA | 0.96 | 2.03 | 0.11 | 0.89 |
| 1995 | 0.00 | NA | NA | NA | 0.41 | 0.26 | 0.10 | 0.00 | 0.85 | NA | NA | 0.56 | 0.18 | 0.31 |
| 1996 | 0.00 | NA | NA | 0.00 | NA | NA | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | NA | 0.00 | 0.00 |
| 1997 | 0.00 | 0.39 | 0.39 | 0.22 | 0.41 | NA | 0.12 | 0.11 | 0.45 | NA | 0.65 | NA | 0.26 | 0.31 |
| 1998 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | NA | 0.07 | 0.52 | 1.29 | 0.00 | NA | 1.59 | 0.00 | 0.52 |
| 1999 | 0.00 | 0.11 | 0.12 | NA | 0.21 | 0.32 | 0.05 | 0.11 | 0.24 | NA | 0.69 | NA | 0.00 | 0.21 |
| 2000 | 0.00 | 0.00 | 0.04 | NA | NA | NA | 0.03 | 0.20 | 0.28 | NA | 0.00 | 0.00 | 0.01 | 0.11 |
| 2001 | 0.00 | 0.00 | 0.01 | 0.00 | NA | NA | 0.04 | 0.16 | 0.89 | 0.00 | 0.00 | NA | 0.02 | 0.20 |
| 2002 | 0.49 | 0.00 | 0.13 | 0.00 | 0.46 | NA | 0.15 | 0.29 | 1.50 | 0.10 | 0.19 | NA | 0.18 | 0.40 |
| 2003 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.04 | 0.28 | 0.52 | 0.00 | 0.72 | 0.83 | 0.05 | 0.22 |
| 2004 | 0.88 | 0.00 | 0.06 | 0.08 | 0.19 | 0.38 | 0.07 | 0.24 | 0.94 | 0.00 | 0.74 | 1.34 | 0.18 | 0.38 |
| 2005 | 0.19 | 0.07 | 0.04 | 0.03 | 0.32 | 0.11 | 0.08 | 0.42 | 0.96 | 0.12 | 1.46 | 1.06 | 0.09 | 0.42 |
| 2006 | 0.40 | 0.06 | 0.07 | 0.10 | 0.26 | 0.27 | 0.01 | 0.41 | 1.44 | NA | 1.41 | 1.54 | 0.05 | 0.52 |
| 2007 | 0.09 | 0.00 | 0.43 | NA | 0.44 | 0.64 | NA | 0.12 | 1.14 | NA | 1.15 | NA | 0.00 | 0.51 |

Stock Identifiers

| AKS $=$ ALASKA SPRING | QUI = QUINSAM |
| :--- | :--- |
| RBT $=$ ROBERTSON CREEK | SRH = SALMON RIVER HATCHERY |
| URB $=$ COLUMBIA UPRIVER BRIGHT | WSH = WILLAMETTE SPRING |

Appendices
WSH $=$ WILLAMETTE SPRING

Table J.4. Total mortality exploitation rate indices by stock and age in the NBC troll fishery, based on CWT data. Base period is 1979-1982.

| Year | AKS <br> Age 4 | QUI <br> Age 3 | QUI <br> Age 4 | RBT <br> Age 3 | RBT <br> Age 4 | RBT <br> Age 5 | SRH <br> Age 3 | SRH <br> Age 4 | SRH <br> Age 5 | URB Age 3 | URB Age 4 | URB <br> Age 5 | WSH <br> Age 4 | Fishery Index |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | NA | 0.58 | 0.84 | 1.24 | 0.84 | 0.47 | NA | NA | NA | 0.58 | 1.19 | NA | 0.60 | 0.79 |
| 1980 | NA | 0.80 | 0.98 | 1.03 | 0.85 | 0.78 | 0.97 | NA | NA | 1.08 | 0.99 | 1.27 | 1.11 | 0.95 |
| 1981 | NA | 1.75 | 1.46 | 0.76 | 1.04 | 1.75 | 1.51 | 1.11 | NA | NA | 1.14 | 1.32 | 1.54 | 1.32 |
| 1982 | 1.00 | 0.87 | 0.71 | 0.97 | 1.27 | NA | 0.52 | 0.89 | 1.00 | 1.34 | 0.68 | 0.41 | 0.75 | 0.86 |
| 1983 | 1.58 | 1.14 | 1.47 | 0.91 | 0.70 | 0.61 | 0.48 | 0.54 | 1.23 | 1.54 | 1.29 | NA | 1.11 | 0.87 |
| 1984 | 1.03 | 0.24 | 0.51 | 0.45 | 1.33 | 2.05 | NA | 0.61 | 2.77 | 0.95 | 2.08 | NA | 0.42 | 1.25 |
| 1985 | 0.67 | 0.24 | 0.57 | 0.94 | 1.88 | NA | 0.32 | NA | 2.27 | 1.20 | 1.66 | 1.64 | 0.18 | 1.19 |
| 1986 | 0.64 | 0.86 | 0.82 | NA | 1.03 | NA | 0.12 | 0.53 | NA | 1.00 | 1.36 | 1.94 | NA | 0.83 |
| 1987 | 0.59 | 0.43 | 0.66 | 0.48 | NA | NA | 0.18 | 0.37 | 2.36 | 1.64 | 2.01 | 2.90 | 0.60 | 1.04 |
| 1988 | 1.90 | 0.27 | 0.72 | 0.33 | 0.62 | NA | NA | 0.31 | 0.75 | 0.83 | 1.10 | 1.98 | 0.76 | 0.70 |
| 1989 | 0.85 | 0.46 | 0.47 | 0.39 | 0.87 | 1.05 | 0.21 | 0.27 | 2.19 | NA | 1.08 | 4.20 | 0.32 | 0.97 |
| 1990 | 2.09 | 0.49 | 0.99 | 0.39 | 0.73 | 0.57 | 0.24 | 0.25 | 2.04 | NA | 1.30 | 2.43 | 0.28 | 0.82 |
| 1991 | 0.67 | 0.52 | 0.67 | 0.47 | 0.76 | 1.15 | 0.23 | 0.39 | 2.11 | NA | NA | NA | 0.26 | 0.77 |
| 1992 | 0.19 | NA | 1.94 | 0.41 | 0.60 | 0.71 | 0.14 | 0.25 | 1.00 | NA | NA | NA | 0.10 | 0.61 |
| 1993 | 0.23 | NA | NA | 0.33 | 0.63 | 0.85 | 0.22 | 0.58 | 2.38 | 0.30 | 1.18 | NA | 0.19 | 0.80 |
| 1994 | 0.12 | NA | NA | 0.51 | 0.75 | 0.91 | 0.29 | 0.51 | 2.20 | NA | 0.99 | 2.08 | 0.12 | 0.90 |
| 1995 | 0.07 | NA | NA | NA | 0.42 | 0.28 | 0.17 | 0.02 | 0.92 | NA | NA | 0.60 | 0.21 | 0.33 |
| 1996 | 0.12 | NA | NA | 0.07 | NA | NA | 0.06 | 0.01 | 0.06 | 0.28 | 0.06 | NA | 0.01 | 0.05 |
| 1997 | 0.00 | 0.38 | 0.38 | 0.25 | 0.40 | NA | 0.12 | 0.11 | 0.45 | NA | 0.66 | NA | 0.21 | 0.30 |
| 1998 | 0.00 | 0.00 | 0.00 | 0.10 | 0.57 | NA | 0.15 | 0.52 | 1.31 | 0.06 | NA | 1.56 | 0.00 | 0.50 |
| 1999 | 0.00 | 0.11 | 0.11 | NA | 0.20 | 0.33 | 0.06 | 0.11 | 0.24 | NA | 0.69 | NA | 0.00 | 0.20 |
| 2000 | 0.00 | 0.00 | 0.04 | NA | NA | NA | 0.04 | 0.20 | 0.28 | NA | 0.00 | 0.00 | 0.01 | 0.10 |
| 2001 | 0.05 | 0.00 | 0.01 | 0.00 | NA | NA | 0.05 | 0.16 | 0.89 | 0.00 | 0.00 | NA | 0.02 | 0.18 |
| 2002 | 0.53 | 0.00 | 0.13 | 0.03 | 0.46 | NA | 0.17 | 0.29 | 1.54 | 0.14 | 0.19 | NA | 0.18 | 0.38 |
| 2003 | 0.07 | 0.00 | 0.00 | 0.04 | 0.05 | 0.00 | 0.07 | 0.28 | 0.53 | 0.14 | 0.74 | 0.85 | 0.05 | 0.22 |
| 2004 | 0.81 | 0.00 | 0.05 | 0.11 | 0.20 | 0.40 | 0.12 | 0.25 | 1.00 | 0.13 | 0.75 | 1.39 | 0.17 | 0.39 |
| 2005 | 0.21 | 0.06 | 0.04 | 0.06 | 0.32 | 0.11 | 0.14 | 0.43 | 1.00 | 0.50 | 1.51 | 1.11 | 0.08 | 0.43 |
| 2006 | 0.38 | 0.05 | 0.06 | 0.13 | 0.26 | 0.27 | 0.12 | 0.41 | 1.47 | NA | 1.43 | 1.53 | 0.03 | 0.51 |
| 2007 | 0.11 | 0.07 | 0.44 | NA | 0.44 | 0.63 | NA | 0.12 | 1.18 | NA | 1.18 | NA | 0.00 | 0.50 |

Stock Identifiers

| AKS $=$ ALASKA SPRING | QUI $=$ QUINSAM |
| :--- | :--- |
| RBT $=$ ROBERTSON CREEK | SRH $=$ SALMON RIVER HATCHERY |
| URB $=$ COLUMBIA UPRIVER BRIGHT | WSH $=$ WILLAMETTE SPRING |

Table J.5. Landed catch exploitation rate indices by stock and age in the WCVI troll fishery, based on CWT data. Base period is 1979-1982.

| Year | CWF <br> Age 4 | $\begin{array}{r} \text { GAD } \\ \text { Age } 3 \\ \hline \end{array}$ | GAD <br> Age 4 | LRH Age 3 | LRH <br> Age 4 | LRW <br> Age 4 | RBT <br> Age 3 | RBT <br> Age 4 | RBT <br> Age 5 | $\begin{aligned} & \text { SAM } \\ & \text { Age } 3 \end{aligned}$ | $\begin{gathered} \text { SAM } \\ \text { Age } 4 \end{gathered}$ | $\begin{gathered} \text { SPR } \\ \text { Age } 3 \\ \hline \end{gathered}$ | SPR <br> Age 4 | $\begin{gathered} \text { SPS } \\ \text { Age } 3 \\ \hline \end{gathered}$ | $\begin{gathered} \text { SPS } \\ \text { Age } 4 \\ \hline \end{gathered}$ | SRH <br> Age 3 | $\begin{gathered} \text { SRH } \\ \text { Age } 4 \end{gathered}$ | $\begin{gathered} \text { SRH } \\ \text { Age } 5 \end{gathered}$ | $\begin{gathered} \text { SUM } \\ \text { Age } 4 \end{gathered}$ | URB <br> Age 3 | URB <br> Age 4 | UWA $\text { Age } 3$ | UWA Age 4 | WSH <br> Age 4 | $\begin{gathered} \text { CHI } \\ \text { Age } 3 \end{gathered}$ | $\begin{gathered} \text { CHI } \\ \text { Age } 4 \end{gathered}$ | Fishery Index |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | NA | NA | NA | 1.12 | NA | NA | 1.15 | 1.27 | NA | NA | 1.00 | 1.00 | 0.95 | NA | 1.13 | NA | NA | NA | NA | 1.40 | 1.76 | 0.71 | 1.19 | 1.02 | NA | NA | 1.05 |
| 1980 | NA | NA | NA | 0.58 | 0.97 | NA | 1.38 | 1.42 | NA | NA | NA | NA | 1.19 | NA | NA | 1.00 | NA | NA | 0.69 | 1.34 | 0.93 | 1.34 | 0.84 | 1.08 | NA | NA | 1.03 |
| 1981 | 0.78 | 0.72 | NA | 1.14 | 0.78 | 0.84 | 0.70 | 0.58 | 1.00 | NA | NA | NA | 0.95 | 0.71 | NA | NA | 1.00 | NA | 1.31 | 0.20 | 0.88 | 0.83 | 0.92 | 0.63 | NA | NA | 0.86 |
| 1982 | 1.22 | 1.28 | 1.00 | 1.16 | 1.26 | 1.16 | 0.77 | 0.73 | NA | 1.00 | NA | NA | 0.91 | 1.29 | 0.87 | NA | NA | NA | NA | 1.06 | 0.43 | 1.11 | 1.06 | 1.27 | NA | NA | 1.06 |
| 1983 | 1.41 | NA | 1.40 | 1.70 | 1.65 | 0.97 | 0.31 | 0.68 | 2.51 | NA | 0.96 | NA | 1.50 | 1.64 | 0.89 | 0.61 | 0.73 | NA | NA | 0.39 | 0.44 | 0.69 | 0.98 | 0.30 | NA | NA | 1.16 |
| 1984 | 1.35 | 2.07 | NA | 2.19 | 2.82 | NA | 1.30 | 1.07 | 1.71 | NA | NA | 1.09 | 1.36 | 1.63 | 0.97 | NA | 0.82 | NA | NA | 0.86 | 1.32 | 1.70 | 0.76 | 0.66 | NA | NA | 1.46 |
| 1985 | 0.94 | NA | 0.83 | 1.24 | 1.10 | NA | 0.63 | 0.00 | NA | NA | NA | NA | 0.54 | 0.82 | 0.66 | NA | NA | NA | NA | 0.76 | 1.04 | 0.89 | 1.09 | 0.47 | NA | NA | 0.88 |
| 1986 | 1.32 | NA | NA | 1.27 | 1.19 | 0.47 | NA | 0.57 | NA | NA | NA | NA | 1.21 | 0.90 | 1.07 | NA | 0.42 | NA | NA | 1.52 | 0.73 | 0.84 | 1.16 | NA | NA | NA | 1.07 |
| 1987 | 0.88 | NA | NA | 0.95 | NA | 1.45 | 0.27 | NA | NA | NA | NA | NA | 0.47 | 0.76 | 0.51 | 0.12 | 0.49 | NA | 0.00 | 1.00 | 0.96 | 0.37 | 0.42 | NA | NA | NA | 0.59 |
| 1988 | 0.86 | 0.43 | NA | 1.13 | 1.33 | 1.05 | 0.45 | 0.57 | NA | 0.62 | NA | NA | 1.01 | 0.30 | 0.69 | NA | 1.41 | NA | 1.15 | 0.09 | 1.90 | NA | 0.80 | 0.85 | NA | NA | 0.93 |
| 1989 | 0.54 | 0.25 | 0.49 | 0.29 | 0.55 | 0.56 | 0.17 | 0.34 | 0.00 | 0.21 | 0.60 | NA | 0.59 | 0.35 | 0.38 | 0.15 | NA | NA | 0.75 | NA | 0.90 | NA | NA | 0.53 | NA | NA | 0.47 |
| 1990 | 0.73 | 1.10 | 0.94 | 1.17 | 0.41 | 1.20 | 0.67 | 0.56 | 1.54 | 0.42 | 0.86 | NA | 0.94 | 0.75 | 0.82 | 0.31 | 0.95 | NA | 1.34 | NA | 1.62 | NA | NA | 0.82 | NA | NA | 0.87 |
| 1991 | NA | NA | 0.94 | 0.81 | NA | 0.74 | 0.61 | 0.55 | 0.74 | 0.26 | 0.57 | 1.10 | 0.61 | 0.42 | 0.52 | 0.41 | 0.79 | NA | 0.45 | NA | NA | NA | NA | 0.08 | NA | NA | 0.68 |
| 1992 | 1.18 | NA | 0.45 | 0.66 | NA | 0.32 | 1.70 | 2.47 | 5.23 | 1.08 | 0.27 | NA | 0.44 | 0.75 | 0.72 | 0.59 | 5.61 | NA | 0.75 | NA | NA | NA | NA | 0.19 | NA | NA | 0.82 |
| 1993 | NA | NA | NA | 1.11 | 0.66 | NA | 1.17 | 2.26 | 2.45 | 1.14 | 0.42 | NA | 0.55 | 1.06 | 0.52 | 0.53 | 2.64 | NA | NA | 0.64 | 1.95 | NA | NA | 0.42 | NA | NA | 0.87 |
| 1994 | 0.12 | NA | NA | NA | NA | 0.22 | 0.61 | 0.73 | 1.40 | 0.09 | 0.70 | NA | 0.85 | 0.22 | 0.46 | NA | 0.85 | NA | NA | NA | 0.99 | NA | NA | 0.25 | NA | NA | 0.56 |
| 1995 | NA | 0.22 | NA | NA | NA | 0.43 | NA | 0.44 | 0.36 | 0.16 | 0.39 | NA | 0.36 | 0.28 | 0.26 | 0.02 | NA | NA | NA | NA | NA | NA | NA | 0.14 | NA | NA | 0.32 |
| 1996 | 0.00 | 0.00 | 0.00 | 0.00 | NA | NA | 0.00 | NA | NA | 0.00 | 0.00 | NA | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | NA | 0.00 | 0.00 | 0.00 | NA | NA | 0.00 | NA | NA | 0.00 |
| 1997 | 0.35 | NA | 0.21 | 0.73 | NA | NA | 0.00 | 0.06 | NA | 0.02 | 0.23 | NA | 0.51 | 0.03 | 0.28 | 0.00 | 0.08 | NA | 0.07 | NA | 0.09 | NA | NA | 0.00 | NA | NA | 0.30 |
| 1998 | NA | NA | NA | NA | NA | NA | NA | 0.00 | NA | NA | 0.09 | NA | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | NA | 0.00 | 0.02 | NA | NA | NA | 0.03 | NA | NA | 0.03 |
| 1999 | NA | 0.05 | NA | 0.10 | NA | NA | NA | NA | 0.00 | NA | 0.08 | NA | 0.02 | 0.02 | 0.06 | 0.00 | 0.00 | NA | 0.03 | 0.00 | 0.00 | NA | NA | 0.00 | NA | NA | 0.05 |
| 2000 | NA | NA | 1.15 | 0.10 | 1.84 | NA | NA | NA | NA | NA | NA | NA | 0.04 | 0.03 | 0.66 | 0.00 | 0.00 | NA | 0.21 | 0.08 | 0.31 | NA | NA | 0.06 | NA | NA | 0.63 |
| 2001 | NA | 0.76 | 1.18 | 0.33 | NA | 0.72 | 0.00 | NA | NA | 0.42 | 0.37 | NA | 0.15 | 0.48 | 0.49 | 0.00 | 0.08 | NA | 0.42 | 0.08 | 0.17 | NA | NA | 0.17 | NA | NA | 0.48 |
| 2002 | 0.63 | 0.17 | 0.68 | 0.37 | 0.50 | NA | 0.02 | 0.00 | NA | 0.26 | 0.41 | NA | 0.30 | 0.44 | 0.55 | 0.00 | 0.00 | NA | 0.54 | 0.09 | 0.21 | NA | NA | 0.33 | NA | NA | 0.47 |
| 2003 | 0.57 | 0.12 | 0.74 | 0.31 | 0.94 | 0.12 | 0.00 | 0.00 | NA | NA | 0.59 | NA | 0.31 | 0.38 | 0.57 | 0.00 | 0.00 | NA | 0.61 | 0.18 | 0.10 | NA | NA | 0.58 | NA | NA | 0.50 |
| 2004 | NA | 0.06 | 1.18 | 0.40 | 1.07 | 0.13 | 0.03 | 0.02 | 0.00 | 0.16 | 0.54 | NA | 0.34 | 0.36 | 0.83 | 0.08 | 0.56 | NA | 0.26 | 0.16 | 0.50 | NA | NA | 2.13 | NA | NA | 0.61 |
| 2005 | 0.33 | 0.77 | 0.98 | 0.74 | 1.73 | 0.12 | 0.00 | 0.00 | NA | 0.12 | 0.80 | NA | 0.70 | 0.58 | 0.76 | 0.07 | 0.50 | NA | 0.35 | 0.13 | 0.47 | NA | NA | 1.23 | NA | NA | 0.75 |
| 2006 | NA | 0.26 | 0.94 | NA | NA | 0.43 | 0.00 | 0.00 | 0.00 | 0.37 | 0.76 | NA | 0.69 | 0.49 | 0.72 | 0.03 | 0.57 | NA | 0.33 | NA | 0.73 | NA | NA | 1.36 | NA | NA | 0.71 |
| 2007 | NA | 0.43 | 0.72 | 0.50 | NA | NA | NA | 0.02 | NA | 0.49 | 0.55 | NA | 0.42 | 0.45 | 0.63 | NA | 0.00 | NA | 0.43 | NA | 0.11 | NA | NA | 0.15 | NA | NA | 0.53 |

Stock Identifiers
CWF $=$ COWLITZ FALL TULE
GAD $=$ G ADAMS FALL FING
LRH = LOWER RIVER TULE
LRW = LEWIS RIVER WILD

RBT = ROBERTSON CREEK SAM = SAMISH FALL FING SPR = SPRING CREEK TULE SPS = SO SOUND FALL FING

SRH = SALMON RIVER HATCHERY SUM = COL RIVER SUMMERS URB $=$ COLUMBIA UPRIVER BRIGHT UWA = U OF W FALL ACCEL

Table J.6. Total mortality exploitation rate indices by stock and age in the WCVI troll fishery, based on CWT data. Base period is 1979-1982.

| Year | CWF <br> Age 4 | $\begin{gathered} \text { GAD } \\ \text { Age } 3 \\ \hline \end{gathered}$ | $\begin{gathered} \text { GAD } \\ \text { Age } 4 \\ \hline \end{gathered}$ | LRH $\text { Age } 3$ | LRH Age 4 | LRW Age 4 | RBT <br> Age 3 | RBT <br> Age 4 | RBT <br> Age 5 | SAM <br> Age 3 | SAM <br> Age 4 | SAM <br> Age 5 | $\begin{gathered} \text { SPR } \\ \text { Age } 3 \\ \hline \end{gathered}$ | SPR <br> Age 4 | SPS <br> Age 3 | SPS <br> Age 4 | SRH Age 3 | SRH <br> Age 4 | SRH <br> Age 5 | sum <br> Age 4 | URB <br> Age 3 | URB Age 4 | UWA Age 3 | UWA Age 4 | wSH <br> Age 4 | $\begin{gathered} \mathrm{CHI} \\ \text { Age } 3 \end{gathered}$ | $\begin{gathered} \text { CHI } \\ \text { Age } 4 \end{gathered}$ | Fishery Index |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | NA | NA | NA | 1.10 | NA | NA | 1.23 | 1.29 | NA | NA | 1.00 | 1.00 | 0.94 | 0.84 | NA | 1.13 | NA | NA | NA | NA | 1.38 | 1.76 | 0.69 | 1.18 | 0.97 | NA | NA | 1.04 |
| 1980 | NA | NA | NA | 0.58 | 0.96 | NA | 1.32 | 1.40 | NA | NA | NA | NA | 1.14 | 1.38 | NA | NA | 1.00 | NA | NA | 0.69 | 1.33 | 0.94 | 1.30 | 0.83 | 1.07 | NA | NA | 1.02 |
| 1981 | 0.79 | 0.72 | NA | 1.13 | 0.77 | 0.85 | 0.68 | 0.58 | 1.00 | NA | NA | NA | 0.90 | 0.63 | 0.75 | NA | NA | 1.00 | NA | 1.31 | 0.25 | 0.86 | 0.80 | 0.90 | 0.65 | NA | NA | 0.85 |
| 1982 | 1.21 | 1.28 | 1.00 | 1.20 | 1.27 | 1.15 | 0.78 | 0.73 | NA | 1.00 | NA | NA | 1.02 | 1.14 | 1.25 | 0.87 | NA | NA | NA | NA | 1.05 | 0.44 | 1.20 | 1.09 | 1.30 | NA | NA | 1.08 |
| 1983 | 1.35 | NA | 1.39 | 1.55 | 1.59 | 0.97 | 0.31 | 0.66 | 2.40 | NA | 0.96 | NA | 1.33 | 0.90 | 1.54 | 0.89 | 0.61 | 0.71 | NA | NA | 0.36 | 0.42 | 0.65 | 0.96 | 0.28 | NA | NA | 1.12 |
| 1984 | 1.30 | 1.68 | NA | 1.99 | 2.70 | NA | 1.16 | 1.04 | 1.66 | NA | NA | 1.08 | 1.19 | 1.34 | 1.42 | 0.95 | NA | 0.75 | NA | NA | 0.80 | 1.28 | 1.53 | 0.74 | 0.61 | NA | NA | 1.38 |
| 1985 | 0.90 | NA | 0.83 | 1.17 | 1.07 | NA | 0.54 | 0.00 | NA | NA | NA | NA | 0.52 | 0.92 | 0.73 | 0.65 | NA | NA | NA | NA | 0.72 | 1.01 | 0.81 | 1.07 | 0.42 | NA | NA | 0.84 |
| 1986 | 1.25 | NA | NA | 1.08 | 1.14 | 0.44 | NA | 0.53 | NA | NA | NA | NA | 1.10 | 0.98 | 0.82 | 1.04 | NA | 0.36 | NA | NA | 1.38 | 0.72 | 0.78 | 1.14 | NA | NA | NA | 1.01 |
| 1987 | 0.87 | NA | NA | 1.16 | NA | 1.43 | 0.27 | NA | NA | NA | NA | NA | 0.43 | NA | 0.84 | 0.52 | 0.13 | 0.49 | NA | 0.00 | 1.13 | 1.00 | 0.37 | 0.41 | NA | NA | NA | 0.62 |
| 1988 | 0.90 | 0.47 | NA | 1.29 | 1.41 | 1.08 | 0.44 | 0.57 | NA | 0.68 | NA | NA | 0.94 | NA | 0.37 | 0.71 | NA | 1.32 | NA | 1.12 | 0.52 | 1.99 | NA | 0.80 | 0.85 | NA | NA | 0.95 |
| 1989 | 0.54 | 0.35 | 0.50 | 0.31 | 0.57 | 0.57 | 0.17 | 0.33 | 0.00 | 0.34 | 0.61 | NA | 0.59 | 0.39 | 0.38 | 0.38 | 0.18 | NA | NA | 0.75 | NA | 0.94 | NA | NA | 0.51 | NA | NA | 0.48 |
| 1990 | 0.74 | 1.05 | 0.93 | 1.12 | 0.44 | 1.22 | 0.65 | 0.56 | 1.49 | 0.46 | 0.85 | NA | 0.88 | 0.72 | 0.89 | 0.83 | 0.36 | 0.87 | NA | 1.31 | NA | 1.64 | NA | NA | 0.80 | NA | NA | 0.87 |
| 1991 | NA | NA | 0.97 | 0.71 | NA | 0.75 | 0.60 | 0.55 | 0.71 | 0.41 | 0.58 | 1.10 | 0.58 | 0.63 | 0.51 | 0.53 | 0.43 | 0.74 | NA | 0.44 | NA | NA | NA | NA | 0.08 | NA | NA | 0.67 |
| 1992 | 1.14 | NA | 0.47 | 0.73 | NA | 0.33 | 1.85 | 2.49 | 5.04 | 0.91 | 0.27 | NA | 0.48 | 0.74 | 0.72 | 0.71 | 0.68 | 4.99 | NA | 0.78 | NA | NA | NA | NA | 0.22 | NA | NA | 0.83 |
| 1993 | NA | NA | NA | 1.16 | 0.71 | NA | 1.39 | 2.28 | 2.39 | 1.09 | 0.44 | NA | 0.57 | 0.98 | 1.05 | 0.52 | 0.69 | 2.45 | NA | NA | 0.91 | 1.96 | NA | NA | 0.41 | NA | NA | 0.90 |
| 1994 | 0.11 | NA | NA | NA | NA | 0.24 | 0.67 | 0.76 | 1.36 | 0.26 | 0.70 | NA | 0.82 | 0.64 | 0.23 | 0.45 | NA | 0.79 | NA | NA | NA | 1.01 | NA | NA | 0.25 | NA | NA | 0.56 |
| 1995 | NA | 0.29 | NA | NA | NA | 0.47 | NA | 0.45 | 0.38 | 0.24 | 0.42 | NA | 0.40 | 0.37 | 0.31 | 0.27 | 0.04 | NA | NA | NA | NA | NA | NA | NA | 0.16 | NA | NA | 0.35 |
| 1996 | 0.03 | 0.07 | 0.03 | 0.00 | NA | NA | 0.03 | NA | NA | 0.06 | 0.02 | NA | 0.04 | NA | 0.06 | 0.02 | 0.03 | 0.02 | NA | 0.03 | 0.09 | 0.06 | NA | NA | 0.01 | NA | NA | 0.03 |
| 1997 | 0.33 | NA | 0.21 | 0.81 | NA | NA | 0.00 | 0.06 | NA | 0.08 | 0.24 | NA | 0.55 | 0.48 | 0.12 | 0.29 | 0.01 | 0.07 | NA | 0.07 | NA | 0.09 | NA | NA | 0.00 | NA | NA | 0.33 |
| 1998 | NA | NA | NA | NA | NA | NA | NA | 0.00 | NA | NA | 0.08 | NA | 0.04 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | NA | 0.00 | 0.01 | NA | NA | NA | 0.03 | NA | NA | 0.03 |
| 1999 | NA | 0.05 | NA | 0.08 | NA | NA | NA | NA | 0.00 | NA | 0.07 | NA | 0.01 | NA | 0.02 | 0.05 | 0.00 | 0.00 | NA | 0.03 | 0.00 | 0.00 | NA | NA | 0.00 | NA | NA | 0.04 |
| 2000 | NA | NA | 1.13 | 0.08 | 1.77 | NA | NA | NA | NA | NA | NA | NA | 0.03 | 0.64 | 0.02 | 0.64 | 0.00 | 0.00 | NA | 0.20 | 0.07 | 0.29 | NA | NA | 0.05 | NA | NA | 0.58 |
| 2001 | NA | 0.58 | 1.13 | 0.28 | NA | 0.68 | 0.00 | NA | NA | 0.32 | 0.35 | NA | 0.13 | 0.47 | 0.38 | 0.48 | 0.00 | 0.07 | NA | 0.40 | 0.07 | 0.16 | NA | NA | 0.14 | NA | NA | 0.43 |
| 2002 | 0.60 | 0.14 | 0.65 | 0.31 | 0.48 | NA | 0.01 | 0.00 | NA | 0.21 | 0.40 | NA | 0.25 | 0.71 | 0.35 | 0.54 | 0.00 | 0.00 | NA | 0.52 | 0.07 | 0.20 | NA | NA | 0.28 | NA | NA | 0.43 |
| 2003 | 0.54 | 0.09 | 0.72 | 0.26 | 0.90 | 0.12 | 0.00 | 0.00 | NA | NA | 0.58 | NA | 0.26 | 0.56 | 0.30 | 0.55 | 0.00 | 0.00 | NA | 0.58 | 0.14 | 0.10 | NA | NA | 0.48 | NA | NA | 0.46 |
| 2004 | NA | 0.06 | 1.15 | 0.34 | 1.02 | 0.12 | 0.02 | 0.02 | 0.00 | 0.12 | 0.52 | NA | 0.29 | 0.76 | 0.28 | 0.80 | 0.07 | 0.49 | NA | 0.25 | 0.13 | 0.47 | NA | NA | 1.78 | NA | NA | 0.56 |
| 2005 | 0.31 | 0.58 | 0.95 | 0.64 | 1.64 | 0.11 | 0.00 | 0.00 | NA | 0.09 | 0.78 | NA | 0.59 | 1.01 | 0.45 | 0.74 | 0.07 | 0.44 | NA | 0.33 | 0.11 | 0.45 | NA | NA | 1.03 | NA | NA | 0.69 |
| 2006 | NA | 0.20 | 0.92 | NA | NA | 0.44 | 0.00 | 0.00 | 0.00 | 0.29 | 0.74 | NA | 0.58 | 1.32 | 0.39 | 0.70 | 0.03 | 0.49 | NA | 0.32 | NA | 0.69 | NA | NA | 1.14 | NA | NA | 0.65 |
| 2007 | NA | 0.32 | 0.70 | 0.41 | NA | NA | NA | 0.02 | NA | 0.37 | 0.54 | NA | 0.35 | 0.70 | 0.35 | 0.61 | NA | 0.00 | NA | 0.41 | NA | 0.11 | NA | NA | 0.13 | NA | NA | 0.48 |

Stock Identifiers
CWF = COWLITZ FALL TUL
GAD = G ADAMS FALL FING
LRH = LOWER RIVER TULE
LRW = LEWIS RIVER WILD

RBT $=$ ROBERTSON CREEK
SAM $=$ SAMISH FALL FING
SPR $=$ SPRING CREEK TULE SPR = SPRING CREEK TULE SPS = SO SOUND FALL FING

SRH = SALMON RIVER HATCHERY
SUM = COL RIVER SUMMERS
URB $=$ COLUMBIA UPRIVER BRIGHT
UWA $=\mathrm{U}$ OF W FALL ACCEL

## Appendices

WSH = WILLAMETTE SPRING CHI = CHILLAWACK


[^0]:    ${ }^{1}$ A DIT group consists of at least two tag groups, one with the mass mark (or adipose fin clip) and one without the mark. These two tag groups are treated identically except for the mark and differences in mortality should be due to the MSFs, assuming there is no mark mortality occurring prior to recruitment to the fisheries.

[^1]:    NA = not available

[^2]:    NA $=$ not available

[^3]:    ${ }^{1}$ Ocean exploitation rates based only on ocean fisheries are shown for stocks in which terminal fisheries differentially impact the coded-wire tagged indicator compared to the associated wild stock. Total exploitation rates based on ocean plus terminal fisheries are shown for stocks in which fishery impacts on the indicator and the associated wild stock are similar in terminal areas. Exploitation rates are not shown for the following hatchery stocks because they are not associated with a wild stock: University of Washington Accelerated, South Puget Sound Fall Yearling, Squaxin Pens Fall Yearling. Exploitation rates cannot be calculated for the following stocks without sufficient escapement data: Nisqually Fall Fingerling, White River Spring Yearling, Elwha Fall Fingerling.
    ${ }^{2}$ The corresponding stocks used in the Chinook model calibration are indicated in brackets.

