PACIFIC SALMON COMMISSION JOINT TRANSBOUNDARY TECHNICAL COMMITTEE

ESTIMATES OF TRANSBOUNDARY RIVER SALMON PRODUCTION, HARVEST AND ESCAPEMENT AND A REVIEW OF JOINT
ENHANCEMENT ACTIVITIES IN 2011

REPORT TCTR (15)-3

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## TABLE OF CONTENTS

Page
TABLE OF CONTENTS ..... ii
LIST OF TABLES ..... iv
LIST OF FIGURES ..... iv
LIST OF APPENDICES ..... v
ACRONYMS ..... xi
CALENDAR OF STATISTICAL WEEKS. ..... xii
EXECUTIVE SUMMARY ..... 1
Stikine River ..... 1
Taku River. ..... 2
Alsek River ..... 2
Enhancement .....  3
INTRODUCTION ..... 4
STIKINE RIVER ..... 4
Harvest Regulations and the Joint Management Model .....  .6
Chinook Salmon .....  .6
Sockeye Salmon ..... 8
U.S. Fisheries ..... 10
Canadian Fisheries ..... 16
Lower Stikine River Commercial Fishery ..... 17
Upper Stikine River Commercial Fishery ..... 26
Aboriginal Fishery ..... 26
Recreational Fishery ..... 26
Escapement ..... 26
Sockeye Salmon ..... 26
Chinook Salmon ..... 28
Coho Salmon ..... 29
Sockeye Salmon Run Reconstruction ..... 29
TAKU RIVER ..... 31
Harvest Regulations ..... 32
U.S. Fisheries ..... 32
Canadian Fisheries ..... 38
Escapement ..... 47
Sockeye Salmon ..... 47
Chinook Salmon ..... 48
Coho Salmon ..... 49
Sockeye Salmon Run Reconstruction ..... 49
ALSEK RIVER ..... 50
Harvest Regulations \& Management Objectives ..... 50
Preseason Forecasts ..... 51
U.S. Fisheries ..... 52
Canadian Fisheries ..... 53
Escapement ..... 55
Sockeye Salmon ..... 55
Chinook Salmon ..... 55
Coho Salmon ..... 55
ENHANCEMENT ACTIVITIES ..... 56
Egg Collection ..... 56
Tahltan Lake ..... 56
Tatsamenie Lake ..... 56
Trapper Lake ..... 56
Incubation, Thermal Marking, and Fry Plants ..... 57
Tahltan Lake ..... 57
Tuya Lake ..... 57
Tatsamenie Lake ..... 57
Sockeye Supplementation Evaluation Surveys ..... 58
Acoustic, Trawl, Beach seine and Limnological Sampling ..... 58
Thermal Mark Laboratories ..... 58
ADF\&G Thermal Mark Laboratory ..... 58
Canadian Thermal Mark Laboratory ..... 58
Standards ..... 59

## LIST OF TABLES

Table 1. Stikine River large Chinook salmon run size based on a model, mark-recapture estimates, other methods, and weekly inseason harvest estimates from the District 108 gillnet, sport, and troll fisheries and the Canadian gillnet, assessment/test, and sport fisheries, 20117

Table 2. Weekly forecasts of terminal run size and total allowable harvest for Stikine River sockeye salmon as estimated inseason by the Stikine Management Model, 2011. ... 9
Table 4. Taku sockeye salmon run reconstruction, 2011. Estimates do not include spawning escapements below the U.S./Canada border.34

Table 5. Weekly U.S. inseason forecasts of terminal run size, TAC, inriver run size, and the U.S. harvest of wild Taku River sockeye salmon for 2011. ........................................ 35
Table 6. Weekly large Chinook salmon guideline harvest for the Canadian commercial fishery in the Taku River in 2011 .40
Table 7. Forecasts of terminal run size, allowable catch (AC), and weekly guideline, and actual harvest of Taku large Chinook salmon, 2011.......................................................... 42
Table 8. Canadian inseason forecasts of terminal run size, total allowable catch (TAC), and spawning escapement of Taku sockeye salmon, 2011................................................ 44
Table 9. Coho salmon test fishery---needs title please!!!!................................................ 47
Table 10. Final harvest and Klukshu index escapement data for Alsek River sockeye, Chinook, and coho salmon for 2011. ................................................................................. 53

## LIST OF FIGURES

Figure 1. The Stikine River and principal U.S. and Canadian fishing areas. ................... 5
Figure 2. The Taku River and principal U.S. and Canadian fishing areas...................... 31
Figure 3. The Alsek River and principal U.S. and Canadian fishing areas. ................... 51

## LIST OF APPENDICES

$$
\begin{aligned}
& \text { Appendix A. 1. Weekly harvest of Chinook salmon in the U.S. gillnet, troll, recreational, } \\
& \text { and subsistence and estimates of Stikine River bound Chinook salmon in District 108, } \\
& \text { 2011....................................................................................................................... } 60 \\
& \text { Appendix A. 2. Weekly harvest of Chinook salmon in the Canadian commercial, } \\
& \text { Telegraph Aboriginal, and recreational fishery in the Stikine River, 2011....................... } 60 \\
& \text { Appendix A. 3. Weekly harvest of Chinook salmon in the Canadian test fisheries } 2011.61 \\
& \text { Appendix A. 4. Weekly harvest of sockeye salmon in the Alaskan District } 106 \text { and } 108 \\
& \text { fisheries, 2011................................................................................................................... } 61 \\
& \text { Appendix A. 5. Weekly stock proportions of sockeye salmon harvested in the Alaskan } \\
& \text { D106 commercial drift gillnet fishery, 2011.................................................................. } 62
\end{aligned}
$$

Appendix A. 6. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2011 ..... 63
Appendix A. 7. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2011. ..... 64
Appendix A. 8. Weekly stock proportions sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2011. ..... 65
Appendix A. 9. Weekly sockeye salmon harvest and effort in the Canadian commercial and assessment fisheries in the lower Stikine River, 2011 ..... 66
Appendix A. 10. Weekly sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery in the lower Stikine River, 2011 ..... 67
Appendix A. 11. Harvest by stock and week for sockeye salmon in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 2011. ..... 68
Appendix A. 12. Weekly harvest, CPUE, and migratory timing of Tahltan, Tuya, and mainstem sockeye salmon stocks in the Stikine test fishery, 2011 ..... 69
Appendix A. 13. Daily test harvest taken from the Tuya Assessment Fishery located above the Tahltan River, July 2011. ..... 69
Appendix A. 14. Weekly coho salmon harvest in the Alaskan District 106 and 108 fisheries, 2011 ..... 70
Appendix A. 15. Weekly harvest of coho salmon in the Canadian lower river commercial fishery and test fisheries 2011 ..... 71
Appendix A. 16. Weekly salmon effort in the Alaskan District 106 and 108 fisheries, 2011 ..... 71
Appendix A. 17. Weekly salmon effort in the Canadian fisheries in the Stikine River, 2011 ..... 72
Appendix A. 18. Tuya assessment fishery, 2011 ..... 72
Appendix A. 19. Daily counts of adult sockeye salmon passing through Tahltan Lake weir, 2011 ..... 73
Appendix A. 20. Daily counts of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 2011 ..... 74
Appendix A. 21. Daily counts of adult Chinook salmon passing through Little Tahltan weir, 2011. ..... 75
Appendix B. 1. Historic salmon harvest and effort in the Alaskan District 106 commercial gillnet fishery, 1960-2011. ..... 76
Appendix B. 2 Historic salmon harvest and effort in the Alaskan District 108 commercial gillnet fishery, 1962-2011. ..... 77
Appendix B. 3. Annual harvest of Stikine large Chinook salmon in the U.S. gillnet, troll, recreational, and subsistence and estimates of Stikine River bound Chinook salmon in District 108, 2005-2011 ..... 78
Appendix B. 4. Chinook salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2011 ..... 78
Appendix B. 5. Chinook salmon harvest in the Canadian commercial and recreational fisheries in the Stikine River, 1979-2011 ..... 79
Appendix B. 6. Chinook salmon harvest in inriver test fisheries in the Stikine River, 1985-2011 ..... 80
Appendix B. 7. Index counts of Stikine large Chinook salmon escapements, 1979-2011.81
Appendix B. 8. General stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; District 106 \& 108, 1982-2011 ..... 82
Appendix B. 9. Stikine stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1982-2011 ..... 83
Appendix B. 10. Tahltan sockeye salmon stock proportions and harvest of in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1994-2011 ..... 84
Appendix B. 11. Stikine River sockeye salmon harvest in the U.S. Subsistence fishery, 2004-2011 ..... 84
Appendix B. 12. Stock proportions of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2011. ..... 85
Appendix B. 13. All harvest in of sockeye salmon in Canadian commercial and assessment fisheries, 1972-2011. ..... 86
Appendix B. 14. Sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2011. ..... 87
Appendix B. 15. Tahltan sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2011 ..... 88
Appendix B. 16. Tahltan Lake weir data with enhanced and wild Tahltan fish, 1979- 2011 ..... 89
Appendix B. 17. Sockeye salmon harvest by stock in the Stikine River under Canadian ESSR licenses, 1992-2011. ..... 89
Appendix B. 18. Estimated proportion of inriver run comprised of Tahltan, Tuya, and mainstem sockeye salmon, 1979-2011 ..... 90
Appendix B. 19. Aerial survey counts of Mainstem sockeye salmon stocks in the Stikine River drainage, 1984-2011 ..... 91
Appendix B. 20. Stikine River sockeye salmon run size, 1979-2011 ..... 92
Appendix B. 21. Coho salmon harvest in the Alaskan District 106 and 108 test fisheries,1984-201193
Appendix B. 22. Annual harvest of coho salmon in the Canadian lower and upper river commercial, Telegraph Aboriginal and the Canadian test fisheries, 1979-2011. ..... 94
Appendix B. 23. Index counts of Stikine coho salmon escapements, 1984-2011. ..... 95
Appendix B. 24. Effort in the Canadian fisheries, including assessment fisheries in the Stikine River, 1979-2011. ..... 96
Appendix B. 25. Counts of adult sockeye salmon migrating through Tahltan Lake weir, 1959-2011 ..... 97
Appendix B. 26. Estimates of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 1984-2011. ..... 98
Appendix B. 27. Weir counts of Chinook salmon at Little Tahltan River, 1985-2011. ..... 99
Appendix B. 28. Historical pink and chum salmon harvest in the Canadian fisheries, 1979-2011 ..... 100
Appendix C. 1. Weekly Chinook salmon harvest in the U.S. fisheries in D111, 2011.. 101
Appendix C. 2. Weekly Chinook salmon abundance estimates of above border run andharvest in the Canadian fisheries in the Taku River 2011. .............................................. 101Appendix C. 3. Weekly sockeye salmon harvest of Alaskan D111 traditional andterminal common property commercial drift gillnet fishery, 2011.................................. 102
Appendix C. 4. Weekly stock proportions of sockeye salmon harvested in the Alaskan District 111 traditional commercial drift gillnet fishery, 2011. ..... 103
Appendix C. 5. Weekly sockeye salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2011. ..... 104
Appendix C. 6. Estimates of wild and enhanced sockeye salmon stock harvested in the Canadian commercial fishery in the Taku River by week, 2011 ..... 105
Appendix C. 7. Weekly coho salmon harvest in the traditional Alaskan District 111 and subdistrict 111-32 (Taku Inlet), commercial drift gillnet fishery, 2011 ..... 106
Appendix C. 8. Weekly coho salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2011. ..... 106
Appendix C. 9. Weekly effort in the Alaskan traditional District 111 and subdistrict 111- 32 (Taku Inlet), commercial drift gillnet fishery, 2011 ..... 107
Appendix C. 10. Weekly effort in the Canadian commercial and assessment fisheries in the Taku River, 2011. ..... 107
Appendix C. 11. Daily counts of adult sockeye salmon passing through Tatsamenie weir, 2011. ..... 108
Appendix C. 12. Daily counts of adult sockeye salmon passing through Little Trapper Lake weir, 2011. ..... 109
Appendix C. 13. Daily counts of adult sockeye salmon passing through the King Salmon Lake weir, 2011. ..... 110
Appendix C. 14. Daily counts of adult sockeye salmon passing through the Kuthai Lake weir, 2011. ..... 111
Appendix C. 15. Daily counts of large Chinook salmon carcasses at the Nakina River weir, 2011 ..... 112
Appendix D. 1. All historic harvest and effort of salmon in the D111 gillnet fishery, 1960-2011 ..... 113
Appendix D. 2. Annual harvest estimates of Taku River large Chinook salmon in the D111 fisheries, 2005-2011 ..... 114
Appendix D. 3. Annual Chinook salmon harvest in the Canadian fisheries in the Taku River, 1979-2011 ..... 114
Appendix D. 4. Taku River large Chinook salmon run size, 1979-2011 ..... 115
Appendix D. 5. Aerial survey index escapement counts of large (3-ocean and older) Taku River Chinook salmon, 1975-2011 ..... 116
Appendix D. 6. Annual sockeye salmon harvest in the Alaskan District 111 fisheries, includes estimates of Taku wild and enhanced fish in the gillnet, seine, and personal use fisheries, 1967-2011 ..... 117
Appendix D. 7. Stock proportions and harvest of sockeye salmon in the traditional Alaska District 111 commercial drift gillnet fishery, 1983-2011. ..... 118
Appendix D. 8. Proportion of wild Taku River sockeye salmon in the Alaskan District 111 commercial drift gillnet harvest by week, 1983-2011 ..... 119
Appendix D. 9. Annual sockeye salmon harvest estimates of wild and enhanced fish in the Canadian fisheries in the Taku River, 1979-2011 ..... 120
Appendix D. 10. Annual sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery on the Taku River, 1986-2011. ..... 121
Appendix D. 11. Annual sockeye salmon weir counts, escapements, and samples at the Tatsamenie weir, 1984-2011 ..... 122
Appendix D. 12. Annual sockeye salmon weir counts, escapements, and samples at the Little Trapper weir, 1983-2011 ..... 123
Appendix D. 13. Taku River sockeye salmon run size, 1984-2011 ..... 124
Appendix D. 14. The terminal run reconstruction of Taku wild and enhanced sockeye salmon, 1984-2011. ..... 125
Appendix D. 15. Annual sockeye salmon escapement estimates of Taku River and Port Snettisham sockeye salmon stocks, 1979-2011. ..... 126
Appendix D. 16. Historical Taku River coho salmon harvested in D111 terminal fisheries, 1992-2011 ..... 127
Appendix D. 17. Historical coho salmon in the Canadian fisheries in the Taku River, 1987-2011 ..... 128
Appendix D. 18. Historic Taku River coho salmon terminal run size, 1987-2011 ..... 129
Appendix D. 19. Escapement counts of Taku River coho salmon. Counts are for age-. 1 fish and do not include jacks, 1984-2011 ..... 129
Appendix D. 20. Historical effort in the Alaskan District 111 and Subdistrict 111-32(Taku Inlet) commercial drift gillnet fishery, 1960-2011.130
Appendix D. 21. Historical effort in the Canadian commercial fishery in the Taku River, 1979-2011 ..... 131
Appendix D. 22. Canyon Island fish wheel salmon counts and periods of operation on the Taku River, 1984-2011. ..... 132
Appendix E. 1. Weekly salmon harvest and effort in the lower Alsek River fisheries, 2011 ..... 133
Appendix E. 2. Weekly salmon harvest and effort in the Canadian Aboriginal and sport fisheries in the Alsek River, 2011. ..... 133
Appendix E. 4. Salmon harvest and effort in the U.S. Commercial fishery in the Alsek River, 1960 to 2011 ..... 136
Appendix E. 5. Salmon harvest in the U.S. Chinook salmon test fishery in the Alsek River, 2005-2011 ..... 137
Appendix E. 6. Salmon harvest in the U.S. subsistence and personal use fisheries in the Alsek River, 1976-2011. ..... 138
Appendix E. 7. Salmon catches in the Canadian Aboriginal and recreational fisheries in the Alsek River, 1976 to 2011. ..... 139
Appendix E. 8. Canadian harvest of Chinook, sockeye, and coho salmon at or above the Klukshu weir, 2009 to 2011 ..... 139
Appendix E. 9. Annual Klukshu River weir counts of Chinook, sockeye, and coho salmon, 1976 to 2011. ..... 140
Appendix E. 10. Alsek River sockeye salmon escapement 2000 to 2011 ..... 141
Appendix E. 11. Alsek River sockeye salmon counts from U.S. and Canadian aerial surveys and from the electronic counter at Village Creek, 1985-2011. ..... 142
Appendix E. 12. Aerial survey index counts of Alsek River Chinook salmon escapements, 1984 to 2011. ..... 143
Appendix E. 13. Alsek River run of large Chinook salmon, 1997-2004. Estimates are based on a mark-recapture study and include the percent of Chinook salmon. ..... 144
Appendix E. 14. Alsek River Chinook salmon escapement, 2007. ..... 144
Appendix E. 15. Aerial survey counts of coho salmon from U.S. lower Alsek River tributaries, 1985-2000. ..... 145
Appendix F. 1. Tahltan Lake egg collection, fry plants, and survivals, 1989-2011. ..... 146
Appendix F. 2. Tuya Lake fry plants and survivals, 1991-2011 ..... 147
Appendix F. 3. Tatsamenie Lake egg collection, fry plants, and survivals, 1989-2011. ..... 148
Appendix F. 4. Trapper Lake egg collection, fry plants, and survivals, 1990-2011. ..... 149
Appendix G. 1. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2011. ..... 150
Appendix G. 2. Annual estimates of large Chinook salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2011 ..... 151
Appendix G. 3. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2011 ..... 152
Appendix G. 4. Annual estimates of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2011 ..... 153

Appendix G. 5. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet fishery, 2011................. 154
Appendix G. 6. Annual estimates of large Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet fishery, 2011. ........................................................ 155
Appendix G. 7. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 111 sport fishery, 2011............................................... 156
Appendix G. 8. Annual estimates of large Chinook salmon harvested in the Alaskan District 111 sport fishery, 2011. .157

## ACRONYMS

| ADF\&G | Alaska Department of Fish and Game |
| :--- | :--- |
| AC | Allowable Catch |
| AF | Aboriginal Fishery |
| BLC | Base Level Catch |
| CAFN | Champagne Aishihik First Nation |
| CCPH | Cumulative Catch per Hour |
| CPUE | Catch per unit effort |
| CWT | Coded Wire Tag |
| DFO | Department of Fisheries and Oceans (Canada) |
| DIPAC | Douglas Island Pink and Chum (Private Hatchery) |
| ESSR | Excess Salmon to Spawning Requirement (surplus fishery license) |
| GSI | Genetic Stock Identification |
| IHN | Infectious Hematopoietic Necrosis (a virus which infects sockeye salmon) |
| LCM | Latent Class Model |
| MEF | Mid Eye Fork (fish length measurement) |
| MR | Mark-Recapture |
| MSY | Maximum Sustained Yield |
| POH | Post-Orbital-Hyperal (fish length measurement) |
| PSC | Pacific Salmon Commission |
| PST | Pacific Salmon Treaty |
| SCMM | Stikine Chinook Management Model |
| SHA | Special Harvest Area |
| SMM | Stikine Management Model |
| SPA | Scale Pattern Analysis |
| SW | Statistical Week |
| TAC | Total Allowable Catch |
| TMR | Thermal Mark Recovery |
| TRTFN | Taku River Tlingit First Nation |
| TBR | Transboundary River |
| TTC | Transboundary Technical Committee |
| YSC | Yukon Salmon Committee |
|  |  |

CALENDAR OF STATISTICAL WEEKS

|  | Date |  |  | Date |  |
| :--- | ---: | ---: | :--- | ---: | ---: |
| SW | Begin | End | SW | Begin | End |
| 1 | 1-Jan | 1-Jan | 28 | 3-Jul | 9-Jul |
| 2 | 2-Jan | 8-Jan | 29 | 10-Jul | 16-Jul |
| 3 | 9-Jan | 15-Jan | 30 | 17-Jul | 23-Jul |
| 4 | 16-Jan | 22-Jan | 31 | 24-Jul | 30-Jul |
| 5 | 23-Jan | 29-Jan | 32 | 31-Jul | 6-Aug |
| 6 | 30-Jan | 5-Feb | 33 | 7-Aug | 13-Aug |
| 7 | 6-Feb | 12-Feb | 34 | 14-Aug | 20-Aug |
| 8 | 13-Feb | 19-Feb | 35 | 21-Aug | 27-Aug |
| 9 | 20-Feb | 26-Feb | 36 | 28-Aug | 3-Sep |
| 10 | 27-Feb | 5-Mar | 37 | 4-Sep | 10-Sep |
| 11 | 6-Mar | 12-Mar | 38 | 11-Sep | 17-Sep |
| 12 | 13-Mar | 19-Mar | 39 | 18-Sep | 24-Sep |
| 13 | 20-Mar | 26-Mar | 40 | 25-Sep | 1-Oct |
| 14 | 27-Mar | 2-Apr | 41 | 2-Oct | 8-Oct |
| 15 | 3-Apr | 9-Apr | 42 | 9-Oct | 15-Oct |
| 16 | 10-Apr | 16-Apr | 43 | 16-Oct | 22-Oct |
| 17 | 17-Apr | 23-Apr | 44 | 23-Oct | 29-Oct |
| 18 | 24-Apr | 30-Apr | 45 | 30-Oct | 5-Nov |
| 19 | 1-May | 7-May | 46 | 6-Nov | 12-Nov |
| 20 | 8-May | 14-May | 47 | 13-Nov | 19-Nov |
| 21 | 15-May | 21-May | 48 | 20-Nov | 26-Nov |
| 22 | 22-May | 28-May | 49 | 27-Nov | 3-Dec |
| 23 | 29-May | 4-Jun | 50 | 4-Dec | 10-Dec |
| 24 | 5-Jun | 11-Jun | 51 | 11-Dec | 17-Dec |
| 25 | 12-Jun | 18-Jun | 52 | 18-Dec | 24-Dec |
| 26 | 19-Jun | 25-Jun | 53 | 25-Dec | 31-Dec |
| 27 | 26-Jun | 2-Jul |  |  |  |

## EXECUTIVE SUMMARY

Final estimates of harvests and escapements of Pacific salmon returning to the transboundary Stikine, Taku, and Alsek rivers for 2011 are presented and compared with historical patterns. Average, unless defined otherwise, refers to the most recent 10-year average (2001-2010). Relevant information pertaining to the management of appropriate U.S. and Canadian fisheries is presented and the use of inseason management models is discussed. Preliminary results from TBR sockeye salmon, Oncorhynchus nerka, enhancement projects are also reviewed.

## Stikine River

The 2011 Stikine River sockeye salmon terminal run estimate was 213,400 fish, of which approximately 135,800 fish were harvested in various fisheries including test fisheries. An estimated 77,600 Stikine River fish escaped to spawn, including 14,000 fish that migrated to the Tuya River block that were not harvested. The Tahltan Lake sockeye salmon escapement of 35,000 was above the escapement goal range ( 18,000 to 30,000 fish). The estimated U.S. commercial harvest of Stikine River sockeye salmon in Districts 106 and 108, including the Stikine River subsistence fishery, was 74,000 fish. The Canadian inriver commercial fishery harvest was 48,600 and Aboriginal fishery harvest was 6,900 fish. The inriver test fishery harvested 3,100 sockeye salmon and there was no marine test fishery for sockeye salmon in 2011. Weekly inseason run projections from the SMM ranged from 160,000 to 183,000 sockeye salmon; the final inseason model prediction was 162,000 fish, with a TAC of 98,000 fish. Weekly inseason run projections using other methods ranged from 158,000 to 200,000 sockeye salmon; the final inseason predictions from other methods was 200,000 with a TAC of 136,000 fish. Based on final postseason run size estimate 213,400 and TAC calculations of 72,800 Stikine River fish for each country, Canada harvested 76\% and the U.S. harvested 101\% of their respective TACs. Broodstock collection removed 4,600 fish and otolith sampling removed 340 fish from the escapement to Tahltan Lake leaving a spawning escapement of 29,700 fish. The estimated spawning escapement of 29,400 mainstem Stikine River sockeye salmon was within the escapement goal range of 20,000 to 40,000 fish for this stock group.

The 2011 Stikine River large Chinook salmon final terminal run estimate was at 19,800 fish, of which approximately 5,300 fish were harvested in various fisheries. An estimated 14,500 Stikine River fish escaped to spawn; below the escapement point goal of 17,400 Chinook salmon, but within the escapement goal range of 14,000 to 28,000 fish. The terminal run and harvest were both below average. The Little Tahltan River large Chinook salmon escapement of 1,750 fish was below the Canadian escapement target of 3,300 fish and below the lower bound of the Canadian target range of 2,700 to 5,300 fish. The estimated U.S. commercial harvest of Stikine River large Chinook salmon in Districts 108 gillnet, test, troll, subsistence, and sport fisheries was 2,200 fish; based on postseason GSI. The estimated Canadian commercial, aboriginal, assessment/test, and sport fisheries harvest was 3,200 fish. Managers used the MR, model, and other assessment estimates to generate inseason run sizes after SW 32. The inseason run
projections were persistent throughout the course of the fishery in predicting a terminal run size that was less than the preseason forecast of 30,000 fish. Weekly inseason run projections ranged from 18,300 to 22,700 Chinook salmon. The final postseason estimate run size estimate of 19,800 large Chinook salmon indicated only base level and assessment/test fishery harvests were permitted.

The 2011 run size of Stikine River coho salmon cannot be quantified. The U.S. terminal harvest of Stikine River coho salmon is also unknown since there is no stock identification program for this species. Mixed stock coho salmon harvest in District 106 was 118,000 fish ( $50 \%$ Alaska hatchery) and District 108 harvest was 18,600 fish ( $11 \%$ Alaska hatchery) and both were below average. The Canadian inriver coho salmon harvest of 5,800 fish was well above average. The aerial survey count of 2,500 fish from six index sites combined was below average. The cumulative CPUE observed in the coho test fishery was also below average.

## Taku River

The final postseason estimate of the 2011 Taku River sockeye salmon terminal run was 211,700 fish; 201,900 wild fish and 9,900 enhanced fish. The U.S. harvested 66,100 wild fish and Canada harvested 22,300 wild fish and the estimated above border spawning escapement was 113,000 wild fish. The terminal run size was average; however, the escapement was above the escapement goal range of 71,000 to 80,000 fish. The U.S. harvested an estimated $66 \%$ of the U.S. AC and Canada harvested an estimated $84 \%$ of the Canadian AC.

The harvest of large Chinook salmon in the Canadian commercial fishery in the Taku River was 2,342 fish. The Canadian Aboriginal fishery in the Taku River harvested 150 large Chinook salmon. The District 111 traditional drift gillnet fishery harvested 518 large Taku River Chinook salmon. The estimate for large Taku River Chinook salmon escapement was 27,523 fish, while the inriver and terminal run estimates were 30,800 and 31,939 fish, respectively.

The estimated above border run of Taku River coho salmon in 2011 is 83,400 fish, which is below average. The Canadian inriver commercial and test fishery harvest was 12,500 coho salmon. After Canadian harvests are subtracted from the above border run, the above border-spawning escapement is estimated at 70,900 coho salmon, which exceeds the minimum above border inriver run of 38,000 fish. The U.S. harvest was 27,600 coho salmon in the District 111 traditional fishery. Alaskan hatcheries contributed an estimated 2,100 fish or $8 \%$ of the District 111 harvest.

## Alsek River

The Alsek River sockeye salmon harvest of 24,200 fish in the U.S. commercial fishery was above average. The Canadian inriver harvest was 600 sockeye salmon for Klukshu River and 2,100 fish aboriginal harvest with harvests not reported for Village Creek. The Klukshu River weir count of 21,400 sockeye salmon was above average and above the escapement goal range of 7,500 to 15,000 fish. The count of 5,600 early run sockeye
salmon (count through August 15) and the late run count of 15,800 were both above average.

The U.S. Dry Bay harvest of 550 large Chinook salmon was average. The Canadian recreational fishery harvest of 100 fish and aboriginal harvest of 120 were both average. The 1,670 Chinook salmon counted through the Klukshu River weir was average and within the escapement goal range of 1,100 to 2,300 Chinook salmon.

Current stock assessment programs prevent an accurate comparison of the Alsek River coho salmon run with historical runs. The U.S. Dry Bay harvest was 1,600 coho salmon and the Canadian inriver aboriginal fishery harvest was 30 fish. The count through the Klukshu weir was 2,100 coho salmon but counts of coho through this weir do not provide a complete enumeration or consistent index since the weir is removed before the run is over and dates of removal are not standardized.

## Enhancement

Eggs and milt were collected from the year 2011 sockeye salmon escapements at Tahltan and Tatsamenie lakes. A total of 6.5 million eggs were collected at Tahltan Lake and 2.2 million at Tatsamenie Lake. Fecundities were higher than expected at the two lakes resulting in more eggs than expected based on the number of females.

Outplants of 2010 brood year sockeye salmon fry in May and June 2011 were as follows: 1.235 million fry into Tahltan Lake; 1.245 million fry into Tuya Lake; and 1.6 million fry into Tatsamenie Lake. Green-egg to stocked-fry survivals were $40 \%, 44 \%$, and $84 \%$ for the Tahltan, Tuya, and Tatsamenie, respectively. Survivals were lower for the Tahltan Lake stock due to loss of 11 of 25 incubators due to IHN. Numerically 43\% of the eggs collected were lost due to IHN.

The IHN losses were the highest in the programs history; however the cumulative losses since 1989 are consistent with the history of sockeye salmon culture in Alaska. The enhancement subcommittee will be continuing to assess these losses and any future ones with regard to any changes in techniques that may be necessary to safeguard against this pathogen.

The egg incubation and thermal marking program was continued at Snettisham Hatchery in 2010 and 2011. Snettisham hatchery is operated by DIPAC, a private aquaculture organization in Juneau. A cooperative agreement between ADFG and DIPAC provides for Snettisham hatchery to serve the needs of the joint TBR enhancement projects.

Adult sockeye salmon otoliths were processed inseason by the ADFG otolith lab to estimate the weekly contribution of fish from U.S./Canada TBR fry stocking programs to the District 106, 108, and 111 gillnet fisheries and to Canadian commercial fisheries in the Stikine and Taku rivers. Contribution estimates of stocked fish to Alaskan harvest were 35,000 stocked Stikine River fish to District 106 and 108, and 5,600 stocked Taku River fish to District 111. Contribution estimates of Canadian fisheries included 26,100 stocked fish to Stikine River fisheries and 1,800 stocked fish to the Taku River fisheries.

## INTRODUCTION

This report presents final estimates of the 2011 harvest and escapement data for Pacific salmon runs to the transboundary Stikine, Taku, and Alsek rivers and describes management actions taken during the season. Harvest and effort data are presented by week, for each river for both U.S. and Canadian fisheries. Spawning escapement data for most species are reported from weir counts or other escapement monitoring techniques. Joint enhancement activities on the Stikine and Taku rivers are also summarized.

The TTC met prior to the season to update joint management, stock assessment and enhancement plans and determine preseason forecasts and outlooks for run strengths and initial TAC estimates for the various species and rivers. The results of this meeting are summarized in: PSC TTC, TCTR (11)-1 Salmon Management and Enhancement Plans for the Stikine, Taku and Alsek rivers, 2011.

Run reconstruction analyses are conducted on the sockeye salmon, Oncorhynchus nerka, and Chinook salmon, O. tshawytscha, runs to the Stikine and Taku rivers and to the Taku River for coho salmon, $O$. kisutch, for the purpose of evaluating the stocks and the fisheries managed for these stocks. No estimates of marine harvest are made for Alaskan fisheries outside of District 106 and 108 for Stikine River stocks, District 111 for Taku River stocks and Subdistrict 182-30 \& 31 for Alsek River stocks.

## STIKINE RIVER

Stikine River salmon are harvested by U.S. commercial gillnet and troll fisheries as well as recreational and subsistence fisheries in Alaskan Districts 106 and 108, by Canadian commercial gillnet and test fisheries located in the lower and upper Stikine River, and by a Canadian AF in the upper portion of the river (Figure 1). In addition, Canadian terminal area fisheries are occasionally operated in the lower Tuya River and/or at Tahltan Lake when escapements are estimated to include excess salmon to spawning requirements (ESSR). A recreational fishery also exists in the Canadian sections of the Stikine River drainage. In 1995, a United States personal use fishery was established in the lower Stikine River; no catches were reported in this fishery in 1995 through 2000. Approximately 30 sockeye salmon were harvested in 2001, and the personal use fishery on the Stikine River was not open in 2002 and 2003. A U.S. subsistence fishery was opened in 2004 for sockeye salmon and in 2005 for Chinook and coho salmon. Additional catches of unknown quantity are taken in U.S. troll, gillnet, seine, and sport fisheries in locations beyond Districts 106 and 108.

In 1993, the U.S. spring experimental troll fishery near Wrangell was expanded to include two new areas in portions of District 106 and 108 to target hatchery Chinook salmon. In 1998 an additional area was included in a portion of District 108. The three areas in District 108 and one area in District 6 have remained unchanged and have opened in the absence of District 108 directed Stikine River Chinook salmon fisheries.


Figure 1. The Stikine River and principal U.S. and Canadian fishing areas.

## Harvest Regulations and the Joint Management Model

Fishing arrangements in place for salmon originating from the Canadian portion of the Stikine River watershed are provided in Annex IV, Chapter 1 of the PST and can be found at: http://www.psc.org/pubs/treaty.pdf. These arrangements include: directed fisheries for Chinook salmon; continuation of a U.S. subsistence fishery on Chinook, sockeye, and coho salmon stocks within the U.S. section of the Stikine River; continuation of coho salmon harvest shares; and, a sockeye salmon harvest sharing arrangement based on the presumed production of enhanced fish.

As in most previous years, the TTC met prior to the season to update joint management and enhancement plans, develop run forecasts, and determine new parameters for input into the inseason Chinook and sockeye salmon run projection models. The Chinook salmon model is referred to as the SCMM and served as a key management tool governing weekly fishing regimes for Stikine River Chinook salmon. The SCMM, however, was complemented inseason with a concurrent MR study and other inriver assessment methods. The sockeye salmon model is referred to as the SMM. The SMM was complemented inseason with concurrent inriver run size estimates based on fishery performance against historical fishery performance and run size estimates.

## Chinook Salmon

The SCMM model is based on the linear regression (correlation) between weekly cumulative CPUE of large Chinook salmon at the tagging site, located near the mouth of the Stikine River, and terminal run size based on MR studies conducted in 1996-2010. Most of the CPUE and run size data sets (CPUE vs. run size) are significantly correlated. Inseason model estimates were available commencing in SW 23 (Table 1). MR estimates based on the cumulative ratio of tagged-to-untagged fish observed in the inriver commercial fishery were also generated commencing in SW 23. In order to honor Annex IV, Chapter1, Paragraph 3(a)(3)(vii), which obliges the Parties to apportion their overall TAC by historical weekly run timing, weekly fishery openings were announced based on weekly guideline harvests.

The preseason run size estimate of 30,000 large Chinook salmon was above the threshold run size limit of 28,100 fish. The threshold number is the sum of the midpoint escapement goal $(21,000)+$ the Canadian BLC $(2,300)+$ the U.S. BLC $(3,400)+$ the inriver assessment/test fishery harvest $(1,400)$. Both countries are permitted to harvest their BLC taken in the course of the targeted sockeye salmon fisheries for run sizes forecasted to be below 28,100 fish. Further, Canada is permitted to prosecute an assessment/test fishery so designed to provide inseason run estimates while harvesting a maximum of 1,400 large Chinook salmon.

Table 1. Stikine River large Chinook salmon run size based on a model, mark-recapture estimates, other methods, and weekly inseason harvest estimates from the District 108 gillnet, sport, and troll fisheries and the Canadian gillnet, assessment/test, and sport fisheries, 2011.

| SW | Start <br> Date | Terminal Run |  | TAC |  | Estimated Harvest |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Estimate | Method | Total | Weekly | Weekly | Cumulative |
| Canada Estimates ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 19 | 01-May | 30,000 | Preseason | 4,010 | 53 |  |  |
| 20 | 08-May | 30,000 | Preseason | 4,010 | 153 | 107 | 107 |
| 21 | 15-May | 30,000 | Preseason | 4,010 | 184 | 174 | 281 |
| 22 | 22-May | 30,000 | Preseason | 4,010 | 171 | 97 | 378 |
| 23 | 29-May | 18,327 | Average ${ }^{\text {a }}$ | 3,212 | 228 | 148 | 527 |
| 24 | 05-Jun | 18,896 | Average ${ }^{\text {a }}$ | 3,212 | 360 | 353 | 879 |
| 25 | 12-Jun | 18,963 | Average ${ }^{\text {a }}$ | 3,212 | 503 | 394 | 1274 |
| 26 | 19-Jun | 18,807 | Average ${ }^{\text {a }}$ | 3,212 | 869 | 687 | 2069 |
| 27 | 26-Jun | 21,206 | Average ${ }^{\text {a }}$ | 3,212 | 574 | 400 | 2281 |
| 28 | 03-Jul | 22,716 | Average ${ }^{\text {a }}$ | 3,212 | 281 | 885 | 3142 |
| 29 | 10-Jul | 22,716 | Average ${ }^{\text {a }}$ | 3,212 | 172 | 184 | 3447 |
| 30 | 17-Jul | 22,716 | Average ${ }^{\text {a }}$ | 3,212 | 93 | 80 | 3436 |
| 31 | 24-Jul | 22,716 | Average ${ }^{\text {a }}$ | 3,212 | 47 | 21 | 3464 |
| 32 | 31-Julu | 22,716 | Average ${ }^{\text {a }}$ | 3,212 | 24 | 05 | 3491 |
| 33 | 07-Aug | 22,716 | Average ${ }^{\text {a }}$ | 3,212 | 60 | 8 | 3505 |
| Postseason Final |  | 19,797 |  |  |  |  | 3,104 |
| U.S. Estimates ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 19 | 2-May | 30,000 | Preseason | 3,590 | 224 | 45 | 45 |
| 20 | 9-May | 30,000 | Preseason | 3,590 | 276 | 104 | 149 |
| 21 | 16-May | 30,000 | Preseason | 3,590 | 411 | 171 | 320 |
| 22 | 23-May | 30,000 | Preseason | 3,590 | 556 | 348 | 668 |
| 23 | 30-May | 18,327 | Average ${ }^{\text {a }}$ | 3,400 | 669 | 295 | 1,056 |
| 24 | 6-Jun | 18,896 | Average ${ }^{\text {a }}$ | 3,400 | 585 | 31 | 1,100 |
| 25 | 13-Jun | 18,963 | Average ${ }^{\text {a }}$ | 3,400 | 338 | 106 | 1,372 |
| 26 | 20-Jun | 18,807 | Average ${ }^{\text {a }}$ | 3,400 | 163 | 261 | 1,708 |
| 27 | 27-Jun | 21,206 | Average ${ }^{\text {a }}$ | 3,400 | 81 | 450 | 2,242 |
| 28 | 4-Jul | 22,716 | Average ${ }^{\text {a }}$ | 3,400 | 43 | 515 | 3,110 |
| 29 | 11-Jul | 22,716 | Average ${ }^{\text {a }}$ | 3,400 | 23 | 105 | 3,454 |
| Postseason Final |  | 19,797 |  |  |  |  | 3,032 |

${ }^{\text {a }}$ Average of mark-recapture and SCMM
${ }^{\mathrm{b}}$ TAC includes the base level catch for US and Canada plus an assessment/test fish allocation of 910 large Chinook salmon for Canada
Plus an allowable catch for the first four weeks of the fishery. The assessment/test fish allocation of 910 fish was distributed over a three week period (SW 20-22).

The preseason forecast for the Stikine River large Chinook salmon terminal run was approximately 30,000 fish (Table 1), which indicated a run size characterized as below average. Joint Canadian and U.S. inseason predictions of terminal run size ranged from 18,300 to 22,700 large Chinook salmon (Table 1). Managers used the daily catch and effort data transmitted from the Kakwan Point tagging site to make daily run projections. Joint weekly run size estimates were calculated on Wednesday or Thursday of the current week and were used to set the following week's fishery openings. Managers used the average of the model and MR estimates in SW 23-34. All inseason projections indicated a run size that was less than the preseason expectation and well below the average run
size. Based on MR data from the inriver commercial fishery, the final postseason estimated terminal run size of Stikine large Chinook salmon was 19,797 fish, below the final preliminary inseason estimate of 22,700 large Chinook salmon (Table 1). The 2011 Little Tahltan escapement of 1,753 fish represents approximately $12 \%$ of the total inriver escapement of 14,412 fish; compared to the average of approximately $16 \%$.

## Sockeye Salmon

The preseason forecast for the Stikine River sockeye salmon terminal run was approximately 183,300 fish (Table 2); characterized as an average run. The forecast included approximately 62,500 natural Tahltan sockeye salmon, 25,700 stocked Tahltan fish, 43,100 stocked Tuya sockeye salmon, and 51,600 mainstem sockeye salmon. The preseason forecast was used through SW 27 for the inriver fishery. After SW 27, Canada used the SMM and other methods to generate weekly run sizes. The U.S. used the SMM beginning in SW 27 for District 106 and 108.

Starting in SW 27, weekly inputs of the harvest, effort, and stock composition were entered into the SMM to provide weekly forecasts of run size and TAC. Specific inputs include proportion Tahltan/Tuya from egg diameters, proportion enhanced Tuya from thermal mark analyses of otoliths in the Canadian lower river test (when in operation) and commercial fisheries; the upper river harvest in the AF and upper river commercial fishery; the harvest, effort and assumed stock composition in Subdistrict 106-41 (Sumner Strait), District 108, and Subdistrict 106-30 (Clarence Strait).

The SMM provides inseason projections of the Stikine River sockeye salmon run, including: the Tahltan stock (wild and enhanced combined); the stocked Tuya stock; and the mainstem stocks. The SMM uses linear regression by historical stock specific harvest data to predict run size from cumulative CPUE for each week of the fisheries. It breaks the stock proportions in District 106 and 108 harvests, from historical postseason scale pattern analysis (SPA) into triggers of run size for Tahltan and Mainstem; the averages used each week depended upon whether the run was judged to be below average ( 0 40,000 ), average ( $40,000-80,000$ ), or above average (greater than 80,000 ). The SMM for 2010 was based on CPUE data from 1994 to 2006 from the Alaska District 106 fishery and the Canadian commercial fishery in the lower river and from the lower Stikine River test fishery from 1986 to 2004. The enhanced Tuya and Tahltan stock proportions are adjusted inseason based on the analysis of otolith samples taken in Districts 106 and 108.

Generally, the SMM has used the Canadian Lower River Commercial (LRCF) fishery CPUE to estimate the inriver run size, but both LRCF and Lower River Test fishery CPUE were entered into the SMM model to compare and contrast the respective run sizes generated from each of the inputs. In 2011 the upper commercial fishing zone (Flood fishery) was not opened for harvest; in years that it is opened, the harvest and effort from this area are excluded from the CPUE and not used in the model estimate. The annual weekly CPUE values were adjusted in order to make the current year data comparable with historical CPUE. For example, during 1979-1994 and 2000-2004, only one net per licence was permitted, while in 1996-1999 and 2005-2009 two nets per license were allowed. Only one net was permitted in the 2011 fishing season and the model was
adjusted accordingly. An additional seven commercial licences were fished in 2011. These licences were leased from inactive commercial licence holders. The model was not adjusted to account for the additional licenses fished.

Table 2. Weekly forecasts of terminal run size and total allowable harvest for Stikine River sockeye salmon as estimated inseason by the Stikine Management Model, 2011.

| SW | Start <br> Date | Estimate | Method | TAC |  |  | Cumulative Harvest |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total | U.S. | Canada | U.S. | Canada |
| Model generated by Canada |  |  |  |  |  |  |  |  |
| 25 | 12-Jun | 183,977 | Preseason | 115,013 | 57,506 | 57,506 |  | 33 |
| 26 | 19-Jun | 183,977 | Preseason | 115,013 | 57,506 | 57,506 |  | 3,493 |
| 27 | 26-Jun | 183,300 | Preseason | 115,013 | 57,506 | 57,506 |  | 7,600 |
| 28 | 3-Jul | 173,400 | Model (test) \& inriver reg | 98,770 | 49,385 | 49,385 |  | 27,227 |
| 29 | 10-Jul | 161,700 | Model (com) \& inriver reg | 108,522 | 54,261 | 54,261 |  | 35,113 |
| 30 | 17-Jul | 175,800 | Model (com) \& inriver reg | 111,446 | 55,723 | 55,723 |  | 44,165 |
| 31 | 24-Jul | 183,900 | Model (com\&test) \& inriver reg | 111,446 | 55,723 | 55,723 |  | 48,416 |
| 32 | 31-Jul | 187,700 | Model (com\&test) \& inriver reg | 107,668 | 53,834 | 53,834 |  | 53,001 |
| 33 | 7-Aug | 189,500 | Model/Inriver Reg/run recontn | 106,926 | 53,463 | 53,463 |  | 54,799 |
| 34 | 14-Aug | 200,000 | Model/Inriver Reg/run recontn | 101,816 | 50,908 | 50,908 |  | 55,294 |
| 35 | 21-Aug | 200,000 | Model/Inriver Reg/run recontn | 104,854 | 52,427 | 52,427 |  | 55,396 |
| 36 | 28-Aug | 200,000 | Model/Inriver Reg/run recontn | 104,854 | 52,427 | 52,427 |  | 55,621 |

Model generated by U.S.

| 25 | 12-Jun | 182,977 | Preseason | 115,013 | 57,506 | 57,506 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 26 | 19-Jun | 182,977 | Preseason | 115,013 | 57,506 | 57,506 | 10,559 |
| 27 | 26-Jun | 174,543 | Model | 115,013 | 57,506 | 57,506 | 32,705 |
| 28 | 3-Jul | 166,157 | Model | 103,420 | 51,710 | 51,710 | 51,397 |
| 29 | 10-Jul | 173,934 | Model | 112,636 | 56,318 | 56,318 | 57,864 |
| 30 | 17-Jul | 166,015 | Model | 102,948 | 51,474 | 51,474 | 61,463 |
| 31 | 24-Jul | 168,391 | Model | 105,126 | 52,563 | 52,563 | 64,268 |
| 32 | 31-Jul | 161,220 | Model | 145,577 | 72,788 | 97,790 | 48,895 |
| 33 | 7-Aug | 160,593 | Model | 97,088 | 48,544 | 48,544 | 59,684 |
| 34 | 14-Aug | 161,602 | Model | 98,482 | 49,241 | 49,241 |  |
| Postseason |  |  |  |  |  | 213,399 |  |
| Does not include test fishery harvests |  |  |  |  |  |  |  |

The weekly inputs to the Tahltan sockeye salmon regression model included the cumulative weekly CPUE of Tahltan Lake sockeye salmon (1998-2008: from SW 28 to 33 all correlations were significant and ranged from an $r^{2}$ of 0.67 in SW 28 to an $r^{2}$ of 0.91 SW 33). The contribution of Tuya origin sockeye salmon was based on otolith marks and presented as a ratio of the total Tahltan run size. The contribution of mainstem sockeye salmon was based on egg diameter measurements and presented as a ratio of total Tahltan run size or calculated based on a regression of cumulative CPUE against the inriver run size (1998-2008: from SW 28 to 33 all correlations were significant and ranged from an $r^{2}$ of 0.31 in SW 28 to an $r^{2}$ of 0.64 SW 33). The contribution of Tuya sockeye salmon (thermal marks) and mainstem sockeye salmon (large eggs) were expressed as a ratio of the total Tahltan Lake run. Preliminary results of thermal mark analyses were available inseason for the marine and lower river fisheries to account for

Tuya production in the model and reduce the risk of over estimating the TAC of Tahltan sockeye salmon.

Canadian inseason predictions of terminal run ranged from 161,700 to 200,000 sockeye salmon; U.S. forecasts ranged from 160,600 to 173,900 fish (Table 2). Differences in U.S. and Canadian weekly predictions are due to strikingly different approaches to assessing the inseason run size, with Canada electing to forego the model estimates and use the run reconstruction and Tahltan regression assessment methods for most of the fishing season.

## U.S. Fisheries

The 2011 gillnet harvest in District 106 was 3,008 Chinook, 146,069 sockeye, 117,860 coho, 337,169 pink, and 156,096 chum salmon. Salmon harvests were above average for Chinook, sockeye, and pink salmon. The coho and chum salmon harvests were below average. The postseason estimate of Stikine River sockeye salmon harvested in District 106 based on SPA was 30,765 fish or approximately $21 \%$ of the harvest. Enhanced sockeye salmon from local releases (mostly Neck and Lake and Burnett Inlet) contributed approximately 5,553 sockeye salmon (3.8\%) to the District 106 harvest. An estimated 1,091 Chinook salmon in the District 106 harvest (52\%) were of Alaska hatchery origin. An estimated 59,015 coho salmon in the District 106 harvest were of Alaska hatchery origin, $50 \%$ of the total coho salmon harvest. The District 106 drift gillnet fishery was open for 41 days from June 13 through September 27. Total fishing time was below average of 49.6 days. Sections $6-\mathrm{A}, 6-\mathrm{B}$, and $6-\mathrm{C}$ were open simultaneously each week throughout the season. Weekly fishing effort in number of vessels fishing in District 106 was above average for half of the weekly fishing periods. The greatest effort of vessels fishing occurred in SW 38 with 101 boats fishing. The total season effort was near average at 2,647 boat days.

The Sumner Strait fishery (Subdistricts 106-41) harvested an estimated 28,380 Stikine River sockeye salmon; 31\% of the total sockeye salmon harvest in that subdistrict. The Clarence Strait fishery (Subdistrict 106-30) harvested an estimated 2,385 Stikine River sockeye salmon; $4 \%$ of the total sockeye salmon harvest in that subdistrict.

The District 108 total season gillnet harvest was 5,321 Chinook, 51,478 sockeye, 20,720 coho, 65,022 pink, and 142,526 chum salmon. Sockeye, pink, and chum harvests were above average, while Chinook and coho salmon harvests were below average. The District 108 fishery harvested an estimated 41,351 Stikine River sockeye salmon, 81\% of the District 108 sockeye salmon harvest. An estimated $11 \%$ (2,166 fish) of the District 108 coho salmon harvest was of Alaskan hatchery origin. The District 108 fishery started on June 20 after being postponed due to concerns for Stikine Chinook salmon. District 108 closed concurrently with District 106 on September 27. The 41 days the district was open is near average, excluding periods in years when a directed Chinook salmon fishery occurred. The weekly fishing effort in number of vessels fishing in District 108 was variable with about half the weekly fishing periods receiving higher than average effort.

In 2011, U.S. Federal subsistence Chinook, sockeye, and coho salmon fisheries were conducted on the Stikine River. The subsistence fisheries are managed by the United States Forest Service (USFS). A permit issued by the USFS to federally qualified users is required for subsistence fishing in the Stikine River and takes place from marine waters to the U.S./Canadian border. Subsistence fishing in "clearwater" tributaries or side channels and at stock assessment sites is prohibited. The annual guideline harvest levels were 125 Chinook, 600 sockeye, and 400 coho salmon in 2011. The fishery was open from May 15 to June 20 for Chinook salmon, June 21 to July 31 for sockeye salmon, and August 1 to October 1 for coho salmon. The allowable gear for the fishery includes: dipnets, spears, gaffs, rod and reel, beach seine, and gillnets not exceeding 15 fathoms in length with mesh size no larger than $51 / 2$ inches, except during the Chinook salmon fishery when nets with mesh up to 8 inches are allowed. A total of 124 permits were issued and the estimated harvests included 61 large Chinook, 1,741 sockeye, and 40 coho salmon.

In 2011, directed Chinook salmon commercial fisheries did not occur for the third consecutive season since directed fisheries began in 2005. The preseason terminal run forecast of 30,000 Stikine large Chinook salmon resulted in a U.S. AC of 190 fish. An AC of this size did not allow for directed commercial fisheries but allowed for liberalization of the District 8 sport fishery. Liberalization measures included increased daily and annual bag limits and the use of two rods per person. Inseason forecasts, ranging between 18,327 and 22,716 Stikine large Chinook salmon, were considerably lower than the preseason forecasts and were not large enough to allow for any AC above BLCs. The final postseason estimate of the terminal run based on MR information, was 19,797 large Chinook salmon.

Table 3. Terminal run reconstruction for Stikine River sockeye salmon, 2011.

|  | All Tahltan | Tuya | Mainstem | TotalStikine | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | EnhacedTahltan | WildTahltan |
| Escapementa | 34,248 | 13,953 | 29,393 | 77,594 | 12,017 | 22,231 |
| ESSR Harvestb | 0 |  |  | 0 |  |  |
| Broodstock | 4,559 |  |  | 4,559 | 1,769 | 2,790 |
| Natural Spawning | 29,689 |  | 29,393 | 59,082 | 10,248 | 19,441 |
| Excessc |  | 13,953 |  | 13,953 |  |  |
| Biological Samples | 340 | 153 |  | 493 | 106 | 234 |
| Canadian Harvest |  |  |  |  |  |  |
| Aboriginal | 4,620 | 1,957 | 316 | 6,893 | 1,540 | 3,080 |
| Upper Commercial | 659 | 280 | 33 | 972 | 234 | 425 |
| Lower Commercial | 23,530 | 10,106 | 13,939 | 47,575 | 8,924 | 14,606 |
| Total | 28,810 | 12,343 | 14,287 | 55,440 | 10,698 | 18,112 |
| \% Harvest | 43.5\% | 41.6\% | 42.9\% | 42.9\% | 37.8\% | 47.7\% |
| Test Fishery Harvest | 841 | 482 | 1,813 | 3,136 | 361 | 480 |
| Tuya Test | 988 | 1,634 | 257 | 2,878 | 365 | 622 |
| All Inriver harvest | 30,638 | 14,459 | 16,357 | 61,454 | 11,424 | 19,215 |
| (harvest + samples) | 30,978 | 14,612 | 16,357 | 61,947 | 11,530 | 19,448 |
| Inriver Run | 65,226 | 28,565 | 45,750 | 139,541 | 23,440 | 41,446 |
| U.S. Harvesta |  |  |  |  |  |  |
| 106-41\&42 | 13,454 | 8,972 | 5,954 | 28,380 | 7,300 | 6,155 |
| 106-30 | 296 | 721 | 1,368 | 2,385 | 150 | 146 |
| 108 | 22,916 | 7,307 | 11,127 | 41,351 | 9,834 | 13,083 |
| Subsistence | 814 | 356 | 571 | 1,741 | 309 | 505 |
| Total | 37,480 | 17,356 | 19,021 | 73,857 | 17,592 | 19,888 |
| \% Harvest | 56.5\% | 58.4\% | 57.1\% | 57.1\% | 62.2\% | 52.3\% |
| Test Fishery Harvest | 0 | 0 | 0 | 0 | 0 | 0 |
| Terminal Run | 102,706 | 45,921 | 64,771 | 213,399 | 41,032 | 61,334 |
| Escapement Goal | 24,000 | 0 | 30,000 |  |  |  |
| Terminal Excessd |  | 11,107 |  |  |  |  |
| Total TAC | 77,865 | 34,814 | 32,958 | 145,638 |  |  |
| Total Harveste | 67,131 | 30,181 | 35,121 | 132,433 |  |  |
| Canada TAC | 38,933 | 17,407 | 16,479 | 72,819 |  |  |
| Actual Harvestfg | 28,810 | 12,343 | 14,287 | 55,440 |  |  |
| \% of total TAC | 74\% | 71\% | 87\% | 76\% |  |  |
| U.S. TAC | 38,933 | 17,407 | 16,479 | 72,819 |  |  |
| Actual Harvest fg | 37,480 | 17,356 | 19,021 | 73,857 |  |  |
| \% of total TAC | 96\% | 100\% | 115\% | 101\% |  |  |

U.S. overage/underage

Canada overage/underage
${ }^{\text {a }}$ Escapement into terminal and spawning areas from traditional fisheries.
${ }^{\mathrm{b}}$ Harvest allowed in terminal areas under the Excess Salmon to Spawning Requirement license.
${ }^{\text {c }}$ Fish returning to the Tuya system are not able to access the lake where they originated due to velocity barriers.
${ }^{\mathrm{d}}$ The number of Tuya fish that should be passed through traditional fisheries in order to harvest the Tuya stock at the same rate as the Tahltan stock to ensure adequate spawning escapement for Tahltan fish.
${ }^{e}$ Includes traditional, ESSR, and test fishery Harvestes.
${ }^{\mathrm{f}}$ Does not include ESSR or test fishery Harvestes.
${ }^{\mathrm{g}}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for Harvestes other than in the listed fisheries.

The total number of Stikine large Chinook salmon harvested by District 108 gillnet fishery from SW 26 through SW29 (during sockeye salmon management openings) was 1,431 fish. The initial gillnet sockeye salmon opening was postponed by one week in District 108 due to the low inseason forecasts of Stikine large Chinook salmon abundance. District 108 troll hatchery access openings through the end of June resulted in a total harvest of 471 Stikine Chinook salmon. Troll openings were limited in time and areas were closed due to the poor run. The District 108 sport fish Stikine Chinook salmon harvest estimate from SW 18 through 29 was 1,063 fish. The sport fishery was deliberalized starting June 21. The final cumulative U.S. harvest of Stikine large Chinook salmon through SW 29, including the Federal Stikine subsistence fishery, was 3,032 fish. The final postseason estimate of the run size was not large enough to produce a U.S. AC; however, the U.S. harvest was below the base level harvest of 3,400 fish.

The District 106 gillnet season began at 12:00 noon on Monday, June 12 (SW 25), for an initial two-day period. Monday openings occurred during the first two sockeye salmon management periods due to a recent Board of Fish action attempting to minimize interactions between commercial and sport fisheries on the weekends. No additional area closures were implemented in District 106 and District 108 remained closed for this initial opening. The first sockeye salmon opening is normally two days. Any decision to extend fishing time during the first three openers is based primarily on the preseason forecast and on fishery performance estimated by management biologists monitoring the fishery on the grounds. Sockeye salmon harvests were below average in most areas and the fishery closed after two days. For this initial sockeye salmon opening, 25 boats fished in Clarence Strait (106-30) and 50 boats fished in Sumner Strait (106-41). The preseason forecast for a total Stikine River TAC of 182,800 sockeye salmon (Table 2). This run size would allow the U.S. fisheries to harvest a total of 57,507 Stikine River sockeye salmon, which includes 31,700 Tahltan fish. The preseason forecast was used for SW 25 through 27, while inriver run estimates were produced weekly starting in SW 27 and used throughout the remainder of the season.

During SW 26 (June 19-June 25) there were 42 boats fishing in Sumner Strait, 22 boats fishing in Clarence Strait, and 34 boats fishing in District 108 during the total three days of fishing. This was the first opening of the season in District 108. Lines for the initial commercial opening in District 108 were expanded beyond the Stikine River flats to mitigate the harvests of Chinook salmon returning to the Stikine River. The initial opening was announced for two days in each district. Both districts were extended by an additional day primarily due to above average sockeye salmon harvest rates in both Districts 106 and 108 as indicated by inseason fishery monitoring. Otolith readings for subdistrict $106-41$ indicated that $15.6 \%$ of the harvest was comprised of thermally marked Tahltan fish, while $11.2 \%$ were Tuya fish. In District 108, $32.3 \%$ were thermally marked Tahltan fish and $17.9 \%$ were Tuya fish.

During SW 27 (June 26-July 2) there were 42 boats fishing in Sumner Strait, 18 boats fishing in Clarence Strait and 49 boats fishing in District 108. Both districts were opened for an initial three days and the line restrictions were pulled in to the commonly used lines that close off the Stikine River flats. Inseason fishery monitoring indicated that
sockeye salmon abundance in Districts 106 and 108 were well above average. Due to the below average preseason forecast, only a 24 hour extension in both districts occurred. The first inseason terminal run estimate produced later in the week resulted in 166,158 fish less than the preseason forecast. The estimated run size of Tahltan sockeye salmon increased while the other Stikine stocks decreased. The peak sockeye salmon harvest for the season in both districts occurred this week with over 40,000 sockeye salmon harvested. Of this harvest, about $66 \%$ was estimated to be Stikine fish. The otolith readings for Subdistrict $106-41$ for SW 27 indicated that $14.5 \%$ of the harvest was comprised of thermally marked Tahltan fish while $18.4 \%$ were Tuya fish. The District 108 reading indicated $26.8 \%$ thermally marked Tahltan fish and 18.9\% Tuya fish.

During SW 28 (July 3-July 9) Districts 106 and 108 were opened for an initial three days. There were 27 boats fishing in Clarence Strait, 44 boats in Sumner Strait, and a total of 48 boats fishing in District 108 for the week. Surveys on the fishing grounds indicated that sockeye salmon harvest rates remained strong in both districts. With above average sockeye salmon harvest in both districts and below average effort in 108 and average effort in 106, a 24-hour extension was announced for both districts. Otolith readings for SW 28 indicated that marked Tahltan fish contributed 6.3\% of the 106-41 harvest and $16.1 \%$ of the District 108 harvest. Marked Tuya fish contributed to $10.5 \%$ of the $106-41$ harvest and $23.4 \%$ of the District 108 harvest. The second inseason Stikine run size estimate increased from the prior week to 173,934 fish, but still remained below the preseason forecast. The U.S. AC was estimated to be 56,318 fish with a Tahltan AC of 39,278 . The U.S. harvest of Stikine sockeye salmon through this week was 56,601 , including 32,748 Tahltan fish. The estimated run sizes produced by the SMM were in question due the unknown of how the increase in the number Canadian permits fishing in the lower river was affecting CPUE, one of the key SMM inputs. However, it was thought that the lower CPUE may be offsetting the good inriver fishing conditions created by below average flows.

During SW 29 (July 10-July 16) 29 boats fished in Clarence Strait, 36 boats fished in Sumner Strait, and 30 boats fished in District 108. This was the initial week of the McDonald Lake sockeye salmon conservation period, which preempted a reduction of fishing time to a maximum of two days in District 6. Any additional time during this three-week period would be in the form of midweek openings in District 108. Effort was below average in both districts with sockeye salmon harvest rates above average for those boats fishing in traditional sockeye salmon areas. Despite continued good fishery performance, the run size estimates produced by SMM continued to be lower than the preseason forecast and no additional fishing time occurred. The estimate produced near the end of the week resulted in decrease in the Stikine sockeye salmon run size. The estimate of Tahltan returning fish decreased from the prior week, whereas the mainstem estimate increased. The U.S. AC of Stikine fish was estimated to be 51,474. The U.S. cumulative harvest through this week was 59,359 fish. SW 29 otolith readings indicated that marked Tahltan fish contributed $5.1 \%$ of the $106-41$ harvest and $11.7 \%$ of the District 108 harvest. Marked Tuya fish contributed to $9.7 \%$ of the $106-41$ harvest and $13.0 \%$ of the District 108 harvest. The first Tahltan weir counts that were received at the end of the week were very good with almost 9,000 sockeye salmon through the weir in
just two days. The well above average weir count indicated that the SMM was likely underestimating at least the Tahltan component of the Stikine River sockeye salmon run.

Effort shifted during SW 30 (July 17-July 23) as 33 boats fished in Clarence Strait, 25 boats fished in Sumner Strait, and 61 boats fished in District 108. The majority of boats fishing in District 108 were targeting enhanced chum salmon run to Anita Bay. Both districts were open for an initial two days. A midweek opening in District 8 for 24 hours was announced on the grounds. The additional time was based on low expected sockeye salmon harvest due to low effort targeting sockeye salmon, continued above average sockeye salmon harvest rates for both districts, and an increase in estimated Stikine River sockeye salmon abundance. This week's SMM produced a slightly higher Stikine sockeye salmon run size estimate with estimated terminal run size of 168,391 fish. The resultant U.S. AC was 52,563 fish. The estimated mainstem run size continued to increase, while the Tahltan estimated run size continued to decrease. However, by this time, the Tahltan weir count was over 20,000 sockeye salmon indicating the Tahltan run size was going to be larger than the SMM estimated. The U.S. harvest of Stikine sockeye salmon through SW 30 was 63,032 fish with a harvest of 36,135 Tahltan fish. Otolith readings for SW 30 indicated that marked Tahltan fish contributed 3.0\% of the 106-41 catch and $4.2 \%$ of the District 108 harvest.

Overall effort increased during SW 31 (July 24-July 30) with 29 boats fishing in Clarence Strait, 30 boats in Sumner Strait, and 72 boats in District 108. Both districts were open for an initial two days. Sockeye salmon harvest rates continued to be above average in both districts with below average effort in District 106 and above average effort in District 108. With no concerns for meeting escapement at Tahltan Lake and increasing mainstem run size estimates coupled with low expected harvest of Stikine sockeye salmon, a 24 -hour midweek opening in District 108 occurred. Due to limitations from the McDonald Lake sockeye salmon action plan, no additional time was given in District 106. This was the last week of restrictions based on McDonald Lake sockeye salmon and for sockeye salmon based management for both districts. Estimates produced by the SMM this week and during the next two week's continued to indicate increasing mainstem and decreasing Tahltan run sizes but with a terminal run size estimate remaining around 161,000 Stikine sockeye salmon. The preliminary postseason estimate of U.S. harvest of Stikine sockeye salmon is 71,100 fish including a harvest 38,200 Tahltan and 15,000 mainstem fish. The preliminary postseason estimate of the Stikine River sockeye salmon run is 214,864 . The resultant U.S. AC is estimated to be 73,642 Stikine sockeye salmon.

During SW 32 through 35 (July 31-August 27) both Districts 106 and 108 were managed for pink salmon. That portion of Section 6-D in District 106 along the Etolin Island shoreline was closed to gillnet fishing from SW 33 through SW 36 by regulation. In Districts 106 and 108, three day openings occurred in SW 32 and 33 based on above average harvest rates in SW 31 and good parent year escapements. Harvest rates were below average in SW 33 for both districts with some improvements in District 106 for SW 34. Improvements in pink harvest rates continued for both districts in SW 35. However, due to poor pink escapements to local systems, no additional fishing time was
warranted during the remainder of the pink salmon management period. During the 2011 season, the fishing effort was generally above the weekly average effort in both districts throughout the pink salmon management period. Above average effort and a high price paid for pink salmon were likely the catalysts behind the above average total harvest in both districts.

During SW 36 (August 28-September 3) the management emphasis changed from pink salmon to wild coho salmon. Prior to the switch to coho salmon management, the District 106 fishery harvested 81,987 coho salmon, approximately $70 \%$ of the total District 106 coho salmon harvest. The Neck Lake/Burnett Inlet enhanced summer coho salmon runs comprised the majority of this early coho salmon harvest with an estimated contribution of approximately 52,000 fish in the District 106 fishery prior to SW 36. The average weekly Alaska hatchery coho salmon harvest rates in the District 106 fishery was above average until SW 32, at which point it remained below average for the rest of the gillnet season. During the coho salmon management period, pink and chum salmon remained the most abundant species in the harvest composition for the first three weeks of the season in District 106. The coho salmon harvest was below average in both Districts 106 and 108. The weekly wild coho salmon component of the harvest remained below average with a peak during SW 38, two weeks later than average. During the coho salmon management period, both districts had two-day openings except for SW 36 and 37, which were three-day openings. The 2011 gillnet season in both districts ended at noon on Tuesday, September 27.

## Canadian Fisheries

Harvests from the combined Canadian commercial and aboriginal gillnet fisheries, and sport fishery in the Stikine River in 2011 included 2,336 large Chinook (includes 29 release mortalities), 1,565 nonlarge Chinook (includes 50 release mortalities), 55,440 sockeye, 5,821 coho, 99 chum, and 9 pink salmon. In addition some pink and chum salmon were released; all of the 232 steelhead trout caught were released. A test fishery designed to target on Tuya bound fish at a site located in the mainstem Stikine River between the mouth of the Tahltan and the mouth of the Tuya River yielded a harvest of 2,878 sockeye, 13 large Chinook, and 6 nonlarge Chinook salmon. A total of 799 large Chinook and 219 nonlarge Chinook salmon were harvested by the commercial fleet under the auspices of an assessment/test fishery. The PST test fishery quota was 1,400 large Chinook salmon; however, because the assessment/test fishery was only conducted during SW 23-25 (65\% of the run), the guideline test fish harvest was adjusted to reflect this proportion resulting in a guideline harvest of only 912 large Chinook salmon.

The harvest of large Chinook salmon was below average and the third lowest harvest recorded since the targeted Chinook salmon fishery started in 2005. Harvests of nonlarge Chinook salmon; however were above average. The sockeye salmon harvest was below average. The final estimate of the total contribution of sockeye salmon from the Canada/U.S. fry-stocking programme to the combined Canadian aboriginal and commercial fisheries was 23,041 fish, $40 \%$ of the harvest. The harvest of 5,821 coho salmon was above average.

A sockeye salmon test fishery was conducted for stock assessment purposes in the lower Stikine River from 19 June to 02 September, 2011. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery harvests totaled 22 large Chinook, 29 nonlarge Chinook, 3,136 sockeye, 410 coho, 197 pink, 100 chum salmon, and 30 steelhead trout (all steelhead trout, chum and pink salmon were released). The objectives of the sockeye salmon test fishery were similar to those in previous years: to provide inseason catch, stock ID and effort data for input, if necessary, into the SMM to estimate the inriver run size; and, to determine migratory timing and stock composition of the sockeye salmon run for use in the postseason estimations of the inriver sockeye salmon run.

A coho salmon test fishery was conducted in the lower Stikine River from 03 September to 11 October, 2011. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery harvests totaled: 186 coho, 5 chum, 7 pink, and 18 steelhead trout (all steelhead were released). The objective of this test fishery was to provide an index harvest expressed in cumulative weekly CPUE to complement and compare with the existing test fishery historical data set (1986-2010), which provides an interannual measure of the relative run strength of Stikine coho salmon.

## Lower Stikine River Commercial Fishery

The Stikine River lower Canadian commercial fishery harvest was 1,737 large Chinook, 1,260 nonlarge Chinook, 47,575 sockeye, 5,821 coho, 3 pink, and 99 chum salmon. A total of 232 steelhead trout were released in 2011; some pink and chum salmon were also released. For the Chinook salmon harvest, 353 fish were harvested in a directed Chinook salmon fishery during SW 20-22. An additional harvest of 799 large Chinook salmon was accounted against the assessment/test fish allocation of 1,400 large Chinook. The harvest excludes an estimated released fish mortality of 29 large and 50 nonlarge fish. The harvests of sockeye and large Chinook salmon were below average, while the harvests of nonlarge Chinook and coho salmon were above average. There was a limited targeted Chinook salmon fishery in 2011 occurring from SW 20-22. The initial targeted fishery was based on the preseason estimated terminal run of 30,000 large Chinook salmon. Post SW 22, the inseason run size estimate dropped to 18,600 Chinook salmon which resulted in the closure of the commercial fishery. The commercial fishing fleet, however, served as an assessment/test fishery from SW 23-25 with a guideline harvest quota of 900 fish. The objective of the assessment/test fishery was primarily to collect spaghetti tags applied 20 km downstream and thus provide a means to generate inseason run size estimates.

The fleet targeted Chinook salmon for a total of 4 days, below the average of 21 days. Sockeye salmon were targeted for a total of 25 days, below the average of 31 days. The coho salmon fishery was opened for a total of 16 days, above the average of 7 days.

Based on final postseason estimates (Table 3) the stock composition of the lower river sockeye salmon harvest was 8,924 stocked Tahltan fish, which accounted for $19 \%$ of the sockeye salmon harvest; 18,112 wild Tahltan fish accounting for $32 \%$ of the harvest;

14,287 mainstem fish accounting for $29 \%$ of the harvest; and 10,106 stocked Tuya fish which accounted for $20 \%$ of the harvest.

Stock compositions of the commercial Chinook salmon harvest taken incidentally in the targeted sockeye salmon fisheries are not available. However, assuming that the Chinook salmon harvest reflects the contribution of the Little Tahltan and 'other' stocks to the total inriver escapement, the commercial harvest of Chinook salmon of Little Tahltan origin was under 250 large Chinook salmon, the harvest of large Chinook salmon originating from 'other' stocks was approximately 1,500 fish.

Weekly Chinook and sockeye salmon guideline harvests, based on SCMM, SMM, MR and other forecasts of the TAC apportioned by average run timing and domestic and international allocation agreements, were developed each week to guide management decisions during the Chinook and sockeye salmon seasons. After SW 25 for purposes of managing the lower river harvest, 800 large Chinook salmon were allocated to the upper Stikine fisheries: 100 fish in the sport, 20 fish in the upper commercial, and 680 fish in the Aboriginal fishery. A total of 8,000 sockeye salmon was allocated to the upper Stikine commercial and aboriginal fishery. The remaining balance of the Chinook and sockeye salmon TAC was allocated to the lower Stikine commercial fishery. Particular attention was directed at weekly Chinook salmon guideline harvests and the inriver run and escapement projections of the various sockeye salmon stock groupings. Management through SW 25 was focused primarily on the harvest of large Chinook salmon, under the auspices of an assessment/test fishery from SW 23-25. From SW 26 through SW 29 (19 June-16 July), management emphasis switched to the Tahltan and Tuya lake sockeye salmon stock groupings after which time the sole focus was the management of mainstem sockeye salmon stocks through the end of the sockeye salmon fishery on SW 34 (14-20 Aug). As in 2010, the management mainstem sockeye salmon was advanced from SW 31 (24-30 July) to SW 30 (17-23 July) in 2011 in an attempt to avert the downward trending escapement of this stock. The coho salmon management regime commenced on SW 35 (21-27 August).

The preseason estimate of 30,000 large Chinook salmon was above the treaty agreed to threshold run size of 28,100 fish that triggers a directed fishery. Targeted commercial fisheries, therefore, could be prosecuted by both Canada and the U.S. The TTC agreed to Canada conducting an assessment/test fishery using the Canadian commercial fleet should the inriver run size estimate be under the threshold limit of 24,500 large Chinook salmon. The fleet, however, would be under a tightly controlled fishing regime. This was done in order to collect inseason CPUE and tag recovery data required to generate weekly run size estimates. The assessment/test fishery harvest was capped at 1,400 large Chinook salmon.

The Canadian guideline harvests in a directed Chinook salmon fishery were based on an AC of 1,710 fish taken from SW 20 to SW 22 (08-22 May), were derived from historical run timing data from the 2005-2009 inriver commercial fisheries and the 2000-2003, 2010 inriver test fisheries. The same metrics were used to generate weekly guideline harvests under a test/assessment fishery scenario which occurred in SW 23-24 (29 May-

18 June). During the early component of the directed sockeye salmon fishery when incidental Chinook salmon harvests occurred, weekly guidelines of the Chinook salmon BLC were generated using the same run timing as articulated above. The directed Chinook salmon fishery regime commenced at 1200 hours 08 May. The Chinook salmon test/assessment fishery regime commenced at 0800 hours 30 May (SW 23). The sockeye salmon fishery regime (harvesting Chinook salmon allocated under the BLC) commenced at 1200 hours 19 June (SW 26). Fishers were limited to one net with a maximum length of 135 m . The maximum mesh size was 203 mm ( 8 inches). An additional seven licences were fished in 2011. These licences were leased by active commercial fishers from licence holders that have not participated in the fishery for over a decade. The fishing zone extended from the Canada/ U.S. boundary to a point near the confluence of the Porcupine and Stikine rivers.

In a response to four consecutive years of under escapement of Little Tahltan Chinook salmon, the Canadian fishery was delayed one week and the AC was reduced $30 \%$ until an inseason run size was generated.

The first directed Chinook salmon fishery opening was posted for 24 hours commencing at 1200 hours 08 May (SW 20). The guideline harvest was 107 large Chinook salmon. Fishing conditions were relatively good. The estimated projected harvest of 80 fish derived from a hail taken at 0800 hours 09 May prompted a 6 hour extension. The total weekly harvest taken in a 30 hour fishery was 107 large and 15 nonlarge Chinook salmon. The catch boat day ( $\mathrm{c} / \mathrm{b} / \mathrm{d}$ ) adjusted for comparison purposes (specifically, expanded by $30 \%$ to reflect what the c/b/d would have been should the standard two nets had been deployed) was 5.0 compared to the recent 6 -year average of 19.9 large Chinook salmon. The cumulative catch per hour at the Kakwan tagging site was $45 \%$ of average, and the harvest to date taken by the District 108 recreational fishery was $21 \%$ of average.

The fishery was posted for and initial 24 hour opening in SW 21 (15-21 May) with a weekly guideline harvest of 129 large Chinook salmon. An estimated harvest derived from a hail after 10 hours of fishing was 80 fish which resulted in holding the fishery at 24 hours. The final harvest was 174 large and 37 nonlarge Chinook salmon taken under fair to moderate fishing conditions. The CPUE of 15 large Chinook salmon was below the recent 6-year average of 17 large Chinook salmon. The CPUE at the Kakwan tagging site was $7 \%$ of average, while the harvest to date taken by the District 108 recreational fishery was 26 \% of average. This week's low catch rates at Kakwan and in District 108's sport fishery showed early signs of a relatively low Chinook salmon run.

The fishery was posted for an initial 20 hour period in SW 22 (22-28 May) with a weekly guideline harvest of 120 large Chinook salmon. The estimated harvest of only 19 large Chinook salmon after 8 hours fishing prompted a 10 hour extension. The reported harvest of 38 Chinook salmon after 24 hours fishing resulted in another extension for this week's fishery. The total fishing time amounted to 48 hours and yielded a harvest of 97 large and 8 nonlarge Chinook salmon. The fishing conditions deteriorated this week due to rapidly rising water. The CPUE of 5 large Chinook salmon was below the recent 6 -year average of 16 large Chinook salmon. The cumulative CPUE at the Kakwan tagging site was $33 \%$
of average, while the harvest to date taken by the District 108 recreational fishery was $40 \%$ of average. The SCMM generated a run size of 18,300 large Chinook salmon, well below the trigger threshold, the minimum inseason run size of 24,500 fish. As a result, the directed commercial fishery was closed. An assessment/test fishery using the commercial fleet was announced for next week, SW 23 (29 May-04 June). Although Canada's response to the jointly agreed to run size was the closure of the commercial fishery, the response by the U.S. was to permit both the continuation of the subsistence fishery and the liberalized sport fishery, which was liberalized due to an AC in a directed Chinook salmon fishery. This week's run size indicated that directed fisheries could not proceed as articulated in the PST harvest share arrangements.

In SW 23 (29 May-04 June) the assessment/test fishery commenced with the objective of providing a measure (tag recoveries and CPUE) of weekly and terminal run size estimates required to govern fisheries management decisions. The weekly guideline harvest was based on Chinook salmon run timing as discussed above. The fishery was posted for an initial 10 hour period starting at 0800 hours 30 May with a weekly guideline harvest of 228 large Chinook salmon. The estimated harvest of 62 fish after 6 hours of fishing prompted a 12 hour extension. The final harvest after 28 hours fishing time was 148 large and 21 nonlarge Chinook salmon. The fishing conditions at the outset of the opening were moderate and conditions were very poor for the latter part of the opening due to the rising river. The CPUE of 13 large Chinook salmon was well below the recent 6 -year average of 23 large Chinook salmon. The CPUE at the Kakwan tagging site was $23 \%$ of average, while the harvest to date taken by the District 108 recreational fishery was $48 \%$ of average. The low inseason run size estimate of 18,900 large Chinook salmon (based on model and MR), was further supported by the below average CWT recoveries of Stikine origin Chinook salmon harvested in approach water troll fisheries.

In SW 24 (05-11 June) the assessment/test fishery was posted for an initial 12 hours period with a weekly guideline harvest of 328 large Chinook salmon. The estimated harvest of 136 large Chinook salmon after 6 hours of fishing prompted a 3 hour extension. The final harvest after 15 hours fishing time was 353 large and 45 nonlarge Chinook salmon taken under moderate to good fishing (river level dropping). The CPUE of 50 large Chinook salmon was above the recent 6 -year average of 39 large Chinook salmon. The CPUE at the Kakwan tagging site, however, was $29 \%$ of average, while the harvest to date taken by the District 108 recreational fishery was $48 \%$ of average. No harvests were reported from the upper Stikine aboriginal fishery when on average over 100 large Chinook salmon are harvested by this week. The run size estimate based on averaging the SCMM and MR estimate generated late this week remained at 18,900 fish. The CWT recoveries of Stikine origin Chinook salmon taken approach water troll fisheries remained below average, indicating that it was unlikely that the run was late.

The assessment/test fishery was posted for an initial 12 hour period in SW 25 (12-18 June) with a weekly guideline harvest of 349 large Chinook salmon. The estimated harvest of 206 large Chinook salmon after 6 hours fishing resulted in limiting this week's opening to 12 hours as per the initial posting. The final harvest was 394 large and 57 nonlarge Chinook salmon taken under very good fishing conditions (river rapidly
dropping). The CPUE of 70 large Chinook salmon was well above the recent 6 -year average of 34 large Chinook salmon. The CPUE at the Kakwan tagging site increased to $44 \%$ of average, while the harvest to date taken by the District 108 recreational fishery was $50 \%$ of average. The harvests taken in the upper Stikine aboriginal fishery remained below average this week. The new run size estimate of 18,500 , based on averaging the SCMM and MR estimate, remained close to last week's estimate. This week marked the final week of the Chinook salmon assessment/test fishery. The total harvest of 799 large Chinook salmon was just short of the 912 assessment/test fish quota for SW 23-25. A total of 14 tags were recovered in the course of the assessment/test fishery, which provided for inseason MR estimates and accounted for $14 \%$ of the tag recoveries for the season.

In SW 26 (19-25 June) the fishery management focus switched from Chinook salmon to sockeye salmon; however, the weak Chinook salmon run resulted in managing the fishery based on both sockeye and Chinook salmon escapement considerations. The sockeye salmon management regime was focused on the Tahltan stock group through SW 29 (1016 July). The guideline harvest for Chinook salmon was based on the BLC of 1,500 large fish, partitioned by historical run timing through the fishery from SW 26 (19-25 June) through to SW 30 (17-23 July). The total BLC was 2,300 fish; 1,500 fish were allocated to the lower river fishery and the rest allocated to aboriginal, upper commercial and recreational fisheries. In order to minimize the incidental harvest of Chinook salmon, a mesh size restriction of 140 mm ( 5.5 inch) was implemented. Fishers were permitted one net only and the commercial fishing grounds remained the same as that defined in the Chinook salmon assessment/test fishery.

The first targeted sockeye salmon fishery for the 2011 season was delayed from the typical Sunday noon opening and was posted for an initial 24 hour period commencing Wednesday noon. The rationale for the three day delay was to provide additional time for Chinook salmon passage and thus limit incidental harvests of same in the course targeting sockeye salmon. The guideline Chinook salmon harvest for SW 26 (19-25 June) was 700 fish and the sockeye salmon guideline harvest was 3,900 fish, including 2,800 Tahltan Lake sockeye salmon. The sockeye salmon TAC was based on the preseason expectation of 183,000 fish. A harvest estimate of 760 sockeye and 67 large Chinook salmon after 6 hours fishing prompted a one day extension. The day one harvest of 1,659 sockeye salmon was near expectation; the sockeye salmon CPUE of 90 fish was above the 62 fish average. The Tahltan Lake component was also above average. The Chinook salmon harvest of 270 fish ( 11 released) was below the guideline harvest of 700 fish. The fishing conditions were very good due to unseasonably low water flows; hence, the exploitation rate was probably higher than what it would have been during normal flow regimes. The two day fishery yielded a harvest of 488 large Chinook, 225 nonlarge Chinook and 3,453 sockeye salmon, which was close to the guideline harvests for both species. The total weekly sockeye salmon harvest was comprised of $30 \%$ Tahltan enhanced, $48 \%$ Tahltan wild, $15 \%$ Tuya, and $7 \%$ mainstem sockeye salmon. The Tahltan sockeye salmon CPUE was 71 fish; the average was 43 fish. U.S. District 108 was closed this week to protect Stikine bound Chinook salmon. District 106 sockeye salmon harvest was slightly above average. The Chinook salmon harvests in upper Stikine fishery continue to be below
average. The Little Tahltan weir was installed this week. Twenty-one fish transited the weir vs. an average count of 58 by this date. The Kakwan CPUE was $54 \%$ of average.

The fishery was posted for an initial two day opening in SW 27 (26 June to 02 July) with a Chinook salmon guideline harvest of 615 fish and a sockeye salmon guideline harvest of 6,700 fish, including 5,900 Tahltan Lake sockeye salmon. The sockeye salmon TAC was based on the preseason expectation of 183,000 fish. Harvests of 1,638 sockeye and 270 large Chinook salmon after one day of fishing indicated that there was room to extend another day. An inseason model estimate of $<113,000$ using the test fish data was generated after two days of fishing. This estimate in concert with the below average CPUE of Tahltan Lake sockeye salmon prompted a decision not to extend beyond three days for this week's fishery. The fishing conditions were very good due to unseasonably low water flows; hence, the exploitation rate was probably higher than what it would have been during normal flow regimes. At this point in the fishery it was decided that no adjustment would be made to the CPUE generated by the 19 licences fishing in attempts to make it comparable to past years when there were 12 licences fishing. The rationale for no adjustment was that the river had extreme and unusual low flow; therefore increased CPUE would be offset by using the total complement of nets, $\mathrm{n}=19$ rather than using some metric to factor down the effort to make it comparable to past years. The three day fishery yielded a harvest of 300 (2 released) large Chinook, 130 nonlarge Chinook and 3,949 sockeye salmon. This was below the Chinook salmon guideline harvest and below the sockeye salmon guideline harvest 4,300 fish, based on the most recent run size estimate of 114,00 fish. The total weekly sockeye salmon harvest was comprised of $31 \%$ Tahltan enhanced, 45\% Tahltan wild, 22\% Tuya, and 2\%mainstem sockeye salmon. The Tahltan sockeye salmon CPUE was 59 fish; the average was 121 fish. It was noted that the Tuya run thus far is well below predicted. The cumulative Tahltan harvest of 3000 fish was below the TAC of 5,900 sockeye salmon. The low Tahltan Lake sockeye salmon CPUE, in spite of very good fishing conditions, was the main factor in limiting the fishery to only three days. The preliminary U.S. harvest reported in District 108 this week was high with a CPUE double the average. The Chinook salmon harvests in upper Stikine fishery continue to be below average. The Little Tahltan weir count followed suit with only 23 fish counted to date; below the average of 430 large Chinook salmon. The Kakwan CPUE was $59 \%$ of average this week.

In SW 28 (03-11 July) the fishery was posted for an initial three day opening with a Chinook salmon guideline harvest of 520 fish and a guideline harvest of 12,000 Tahltan sockeye salmon. Of the several run size estimates generated to date, ranging from 113,000 to 187,000 sockeye salmon, it was decided to use last week's model run using the test fish data which indicted a run size of 173,300 sockeye salmon. This decision was made principally on the uncertainties around and the effects of the extra seven nets fishing, as well as, the suspicion that the exploitation rate under the current extreme low flow regimes was causing the model to overestimate the run size. The day one harvest of 4,174 sockeye salmon, including a harvest of approximately 2,700 Tahltan sockeye salmon prompted a one day extension. This decision was aided by both the near record CPUE in District 108 last week and the record incidental catches of sockeye salmon caught in the Chinook salmon tagging project located 20 km downstream from the
fishery. A run size estimate was generated during the third day of the fishery. This estimate indicated that there was room to extend for a minimum of one more day. An extension was granted. The five day fishery yielded a harvest of 720 large Chinook (32 released), 388 nonlarge Chinook and 18,564 sockeye salmon, including a harvest of 12,323 Tahltan Lake sockeye salmon. The Chinook salmon harvest was above the guideline harvest of 520 fish; the harvest of Tahltan sockeye salmon was close to target. The total weekly sockeye salmon harvest was comprised of 22\% Tahltan enhanced, 44\% Tahltan wild, $27 \%$ Tuya, and $6 \%$ mainstem sockeye salmon. The Tahltan sockeye salmon CPUE was 143 fish; the average was 124 fish. SW 28 marks the historical peak of the Tahltan run through the fishery. It was suspected at this juncture of the fishery that the Tahltan run was lower than expected based on the preseason estimate. The preliminary U.S. harvest estimates for this week indicated the CPUE was below average. The upper river Aboriginal fishery harvests were reported as being fair. It was suspected that the due to low water conditions the sockeye salmon would arrive at the Aboriginal fishing site earlier than normal. The Chinook salmon harvests in upper Stikine fishery continue to be below the seasonal average. The Little Tahltan weir count of 149 fish continued to lag well behind the average of 2,198 large Chinook salmon. The upper Stikine recreational fishery harvests were reported as being poor.

In SW 29 (10-16 July) the fishery was posted for an initial two day opening with a guideline harvest of 4,600 Tahltan sockeye salmon. Based a regression using both test and commercial CPUE data the inriver run size was estimated at 162,000 sockeye salmon, including 89,500 Tahltan sockeye salmon. The day one harvest was 2,473 sockeye salmon, including a harvest of approximately 1,200 Tahltan sockeye salmon. The projected two day harvest was estimated at 2,400 Tahltan Lake sockeye salmon, well below the guideline harvest of 4,600 fish. The below average CPUE on Tahltan Lake sockeye salmon under extremely good fishing conditions was the deciding factor in not extending this week's fishery. The two day fishery yielded a harvest of 114 large Chinook ( 0 released), 58 nonlarge Chinook and 4,931 sockeye salmon. The Tahltan sockeye salmon harvest of 2,385 fish was below the guideline harvest of 4,600 fish. The total weekly sockeye salmon harvest was comprised of $21 \%$ Tahltan enhanced, $28 \%$ Tahltan wild, $29 \%$ Tuya, and $23 \%$ mainstem sockeye salmon. The Tahltan sockeye salmon CPUE was 70 fish; the average was 91 fish. SW 29 marked the end of the Tahltan Lake sockeye salmon management regime. The balance of the sockeye salmon fishery decisions for the lower commercial fishery was driven by mainstem sockeye salmon abundance and TAC. The upper river Aboriginal harvests were $28 \%$ above average. The Tahltan weir count of 15,000 fish eclipsed the average count of 2,000 sockeye salmon. For the third consecutive year the fish entered the lake unusually early. Their early entry was attributed to the low flow conditions (record lows in some days) that provided for ease of migration. The Little Tahltan weir count of 149 fish continued to lag below the average of 2,198 large Chinook salmon. The upper Stikine recreational fishery harvests were poor.

In SW 30 (17-23 July) the fishery was posted for an initial two day opening with a guideline harvest of 3,455 mainstem sockeye salmon. The terminal run size estimate was 175,800 based on the average of the SMM and an inriver run size regression using test
and commercial CPUE. The estimated run size of mainstem sockeye salmon was 55,700 fish. The day one harvest of 2,758 sockeye salmon, including a harvest of approximately 1,260 mainstem sockeye salmon, triggered a one day extension. In was projected that the mainstem guideline harvest would be exceeded this week. The three day fishery yielded a harvest of 68 large Chinook (3 released), 35 nonlarge Chinook and 6,679 sockeye salmon, including a mainstem sockeye salmon harvest of 3,096 fish. The mainstem harvest was under the weekly guideline harvest of 3,455 sockeye salmon. The total weekly sockeye salmon harvest was comprised of $15 \%$ Tahltan enhanced, 19\% Tahltan wild, $20 \%$ Tuya, and $45 \%$ mainstem sockeye salmon. The mainstem sockeye salmon CPUE was 56 fish; the average was 62 fish. The upper river Aboriginal harvests remained strong. The Tahltan weir count remained high with a projected total weir count of 39,000 fish. Harvests taken in the Aboriginal fishery remained above average this week. The Little Tahltan weir count of 814 fish continued to lag well the average of 3,600 large Chinook salmon. Again in 2011 the Tahltan River was surveyed to determine if the migrant Chinook salmon were holding along its length. Very few Chinook salmon were observed. There were no obvious signs of barriers that impeded their migration. The Chinook salmon recreational fishery was close to completion; very poor success reported. The U.S. rescinded the liberalization of their sport fishery this week, thus reduces the daily creel and amount of gear permitted.

In SW 31 (24-30 July) the fishery was posted for an initial two day opening with a guideline harvest of 2,600 mainstem sockeye salmon. The inriver run size projection increased to 183,900 sockeye salmon based on an inriver commercial CPUE regression and an inriver test fishery CPUE regression. The mainstem projection was 55,400 mainstem sockeye salmon. The day one harvest of 1,635 sockeye salmon, including a harvest of approximately 1,226 mainstem sockeye salmon, did not trigger an extension. The two day fishery yielded a harvest of 16 large Chinook ( 0 released), 5 nonlarge Chinook, and 3,341 sockeye salmon, including a mainstem sockeye salmon harvest of 2,753 fish, close to the guideline harvest by 2,600 fish. The total weekly sockeye salmon harvest was comprised of 6\% Tahltan enhanced, 12\% Tahltan wild, 7\% Tuya, and 75\% mainstem sockeye salmon. The mainstem sockeye salmon CPUE was 70 fish; the average was 61 fish. The upper river Aboriginal effort dropped substantially; however, harvests remained relatively strong. The Tahltan weir count remained strong. The projected escapement based on an early running timing was 34,700 fish.

In SW 32 (31 July-06 August) the fishery was posted for an initial two day opening with a guideline harvest of 3,839 mainstem sockeye salmon. The TAC was based on a run size projection of 187,720 fish generated from inriver regression models (test and commercial), the SMM (commercial), and a projected run reconstruction exercise based on the Tahltan Lake escapement and inriver harvest. The projected mainstem sockeye salmon run size was 60,100 fish. The day one harvest of 1,698 sockeye salmon, including a harvest of approximately 1,449 mainstem sockeye salmon, triggered a one day extension. The three day fishery yielded a harvest of 5 large Chinook, 1 nonlarge Chinook, 31 coho, 1 chum, and 4,178 sockeye salmon, including a mainstem sockeye salmon harvest of 3,565 fish; close to the guideline harvest by 3,839 fish. The total weekly sockeye salmon harvest was comprised of $4 \%$ Tahltan enhanced, 6\% Tahltan
wild, $5 \%$ Tuya, and $85 \%$ mainstem sockeye salmon. The mainstem sockeye salmon CPUE was 63 fish; the average was 50 fish. The upper river Aboriginal effort continued to drop. The Tahltan weir count to date was 30,668 fish; the projected escapement based on an early run timing scenario was 34,118 fish.

In SW 33 (7-13 August) the fishery was posted for an initial two day opening with a guideline harvest of 2,075 mainstem sockeye salmon. The TAC was based on a run size projection of 195,070 fish; generated from inriver regression models (test and commercial) and a Tahltan based run reconstruction exercise. The projected mainstem sockeye salmon run size was 65,600 fish. The day one harvest of 917 sockeye salmon, including a harvest of approximately 800 mainstem sockeye salmon and a projected two day catch of 1,600 mainstem sockeye salmon did not trigger an extension. This week's two day fishery yielded a harvest of 3 large Chinook, 1 nonlarge Chinook, 339 coho, 24 chum, and 1,642 sockeye salmon, including a mainstem sockeye salmon harvest of 1,430 fish which was below the guideline catch by 2,075 fish. The total weekly sockeye salmon harvest was comprised of 3\% Tahltan enhanced, 6\% Tahltan wild, 4\% Tuya, and 87\% mainstem sockeye salmon. The mainstem sockeye salmon CPUE was 40 fish; the average was 34 fish. Few nets remained fishing in the upper river Aboriginal fishery this week. The Tahltan weir count to date was 32,941 fish and the projected escapement based on an early run timing scenario remained at 34,000 sockeye salmon.

In SW 34 (14-20 August) the fishery was posted for an initial two day opening. The run projection was 200,020 fish, including 67,352 mainstem sockeye salmon. The total projection was the average of a run reconstruction estimate for the Tahltan component (accounting of the Tahltan stock was considered near completion) and the inriver test and commercial model projections. The day one harvest of 252 sockeye salmon, including approximately 227 mainstem sockeye salmon and a projected two day harvest of 452 mainstem sockeye salmon triggered a one day extension. This week's three day fishery yielded a harvest of 2 large Chinook, 637 coho, 50 chum, 3 pink, and 482 sockeye salmon, including 434 mainstem fish. The total weekly sockeye salmon harvest was comprised of $0 \%$ Tahltan enhanced, $10 \%$ Tahltan wild, $0 \%$ Tuya, and $90 \%$ mainstem sockeye salmon. The mainstem sockeye salmon CPUE was 10 fish, the same as the average. Two nets fished the Aboriginal fishery this week. The Tahltan weir count to date was 33,374 fish. The Little Tahltan weir project was completed with a preliminary count of 1,754 large and 221 nonlarge Chinook salmon.

In SW 35 (21-27 August) the fishery was opened for an initial three day period with dual management objectives focused on both coho and sockeye salmon. On average $97 \%$ of the sockeye salmon run has exited the fishery by this week. The projected sockeye salmon run remained at 200,020 fish, including a mainstem component of 67,400 sockeye salmon. The guideline harvest for this stock group was less than 1,100 fish. The guideline harvest on coho salmon was 5,000 fish for the season. High water (flood) conditions during the first two days of the fishery resulted in little effort and only minor catches. In light of low effort and harvest due to the fishing conditions, the fishery was extended for four days for a total of seven days this week. The seven day fishery yielded a harvest of 616 coho, 4 chum, and 102 sockeye salmon, all of which were mainstem fish.

In SW 36-37 (28 August-10 September) the fishery was opened for an initial three day period. The management goal was to harvest the 5,000 quota allotted under the terms of the PST. After two days of fishing and a harvest of 670 coho and 40 sockeye salmon, the fishery was extended one day. The harvest after three days of fishing indicated that there was room for another two day extension for a total of seven days for SW 36. The cumulative coho salmon harvest was 4,322 leaving a TAC balance of less than 700 fish. SW 37 was opened for two days to harvest the remaining balance. The fishery yielded at harvest of 381 fish. The final day of fishing was 05 September. The final coho salmon harvest was 5,718 fish, 1,015 of which were taken in the course of the sockeye salmon fishery and, therefore, not counted toward the 5,000 fish allocation.

## Upper Stikine River Commercial Fishery

A small commercial fishery has existed near Telegraph Creek on the upper Stikine River since 1975. A total of 972 sockeye salmon was harvest in 2011, which was above the average of 834 fish. The total nonlarge Chinook salmon harvest of 14 fish was close to average. Only 2 large Chinook salmon were harvested, below the average harvest of 14 fish. The fishing effort of 12 boat days fished was near the average of 13 boat days. Generally, fishery openings were based on the lower Stikine commercial fishery openings, lagged one week. The first opening, however, was concurrent with the lower fishery opening.

## Aboriginal Fishery

The Stikine River Aboriginal fishery, which is located near Telegraph Creek, B.C., harvested 515 large Chinook, 218 nonlarge Chinook, and 6,893 sockeye salmon. The harvest of large Chinook salmon was $32 \%$ below average, while the harvest of sockeye salmon was $25 \%$ above average. The harvest of nonlarge Chinook salmon was $10 \%$ below average. As in 2009 and 2010, the sockeye salmon run timing to the fishing grounds was earlier than normal. The fishing conditions were very good throughout the course of the fishery which extended from SW 23-34 (29-June to 20 August).

## Recreational Fishery

The Stikine River salmon recreational fishery targets primarily Chinook salmon and its principal fishing location is located at the mouth of the Tahltan River. Minor sport fishing activities occur in upper reaches of the Tahltan River and in some tributaries of the Iskut River, including Verrett and Craig rivers. In 2011 the catch estimate was 53 large Chinook salmon, all of which were taken in the Telegraph Creek area. The fishing success was reported as very poor throughout the course of the Chinook salmon run.

## Escapement

## Sockeye Salmon

The total of 34,588 sockeye salmon counted through the Tahltan Lake weir in 2011 was above the average of 33,000 fish. The 2011 count was above the escapement point
estimate of 24,000 and above the upper end of the escapement goal range of 18,000 to 30,000 fish. An estimated 10,248 fish ( $35 \%$ of escapement) originated from the frystocking program which is below the $38 \%$ contribution of smolt observed in 2008, the principal cycle year contributing to the 2011 run. A total of 340 sockeye salmon were sacrificed at the weir for stock composition analysis. In addition, a total of 4,559 sockeye salmon were collected for broodstock, resulting in a spawning escapement of 29,689 sockeye salmon in Tahltan Lake.

The spawning escapements for the mainstem and Tuya stock groups are calculated using stock ID, test fishery and inriver commercial harvest data. Based on this run reconstruction approach, the escapement estimates are 29,393 mainstem and 13,953 Tuya sockeye salmon. The mainstem spawning escapement is near average and within the escapement goal range of 20,000 to 40,000 fish. Aerial surveys were not conducted due to budget constraints in 2011. It appears that advancing the management of mainstem sockeye salmon date one week starting on SW 30 (17-23 July) succeeded in improving the escapement.

The existence of stocked Tuya escapement continues to be a concern because of straying of this stock to other Stikine River tributaries. Furthermore, the injury to Tuya River sockeye salmon attempting to ascend the lower reaches of the Tuya River is evident based on reports from First Nations fishers and stock assessment personnel. A study on the behavior of Tuya river sockeye salmon strays in 2004 and 2005 concluded that straying of Tuya River sockeye salmon does not pose a short term genetic risk to natural mainstem Stikine River sockeye salmon. However, over the long term, given enough straying, an interaction/spawning of Tuya strays with natural sockeye salmon may occur. To address problems associated with fish capture in the lower Tuya River; a fishway/trapping apparatus was constructed during the spring of 2006. Unfortunately the Tuya fish trapping project was not prosecuted because of a major rockslide at the Tuya River fishing site that occurred sometime in June 2006. The rockslide rendered the fishing site, for which the fish trap was groomed for, unusable due to changes and river hydrology as well as the unsafe working conditions at the site. More rockslide activity occurred in May and June 2007 and 2008.

A steering committee, consisting of Canadian and U.S. engineers and others visited the site in August 2007 to assess the conditions and to consider and discuss other fish capture options. The steering committee decided to proceed with a blasting plan so designed to provide fish passage around the newly formed barrier. The project was first attempted in March 2008, but was aborted due dangerous working conditions and an abnormal amount of ice at the blasting site. In late October and early November 2008 the project proceeded and succeeded to remove approximately $120 \mathrm{~m}^{3}$ of rock from the slide area.

For the third consecutive year since the barrier was removed a field visit was conducted to assess the success of the 2008 blasting and to collect baseline biological samples from Tuya River sockeye salmon. On the 20 July, while en route to camp, an aerial survey was conducted. Although the viewing conditions were somewhat impaired due to the murky nature of the flow, sockeye salmon were observed above the blast site; no fish were
observed below the blast site. In past aerial surveys conducted after the 2006 rockslide no fish were observed above the rockslide while many fish (schools) were observed below. It should be noted that these aerial surveys, as in past years, were victim of poor viewing conditions and the fish observed were in large schools that the surveyor could only identify as such. Nonetheless, the contrast with fish distribution in 2006-2008 compared to fish distribution in 2011 was evident. In addition to the aerial survey, set gillnets were fished above and below the blast site. Sockeye, Chinook, and pink salmon were caught at both sites. The set net site located below the blast site, however, had the highest catch, which was probably due to the quality of set net site in that it was set in a natural holding area below the blast site. The number of salmon breaches and the number of successful attempts were recorded over a 60 minute period per day, from 19-23 July. Overall, very few fish were observed attempting to negotiate the blast site, $\mathrm{n}<10$. The observations therefore were of little utility. In 2010, however, a total 468 breaches observed, 80 fish or $17.1 \%$ succeeded in ascending the river. The 2009 study showed that only $7 \%$ of the fish succeeded negotiating the chute $87 \%$ of the breaches and $17 \%$ of the successes occurred at river right section of the flow. This is the site of the original channel before the 2008 blasting project diverted a large measure of flow to river left. The attraction of this site (river right) is probably due to the $2-3 \mathrm{~m}$ vertical falls and plunge pool located there. The balance of the flow was located at the blast site. In light of the observation articulate above, and in concert with the 2009 study, it is reasonable to conclude that the 2008 blasting project succeeded in its objective which was to provide fish passage around the barrier that slid into the river in July 2006.

Work continues in the development of a weir/fish trap combination compatible with the Tuya River flow regime. A template model from a fence located in the Docee River, B.C. is being considered. An initial routing for a tote road scouted in May 2009 was surveyed by DFO surveyors in late August 2010. The final drawings will be used to estimate the cost of constructing a tote road to the new proposed fishing site. Permitting requirements, including community meeting(s) have yet to be addressed. The work continues on drafting plans and estimating the cost of both the weir/trap structure and the access road in 2011.

The fourth year of an experimental test fishery designed to harvest Tuya River sockeye salmon at a site on the mainstem Stikine located between the mouths of the Tahltan and Tuya rivers was conducted from 21 to 29 July. The total harvest from the test fishery was 2,878 sockeye, 13 large Chinook, and 6 nonlarge Chinook salmon. Otolith analyses indicate that 1,634 fish (57\%) were Tuya origin sockeye salmon. The balance of the harvest consisted of Tahltan enhanced (13\%), Tahltan wild (21\%) and mainstem sockeye salmon (9\%). It should be noted that the fishing conditions are very challenging due to high river velocities. It is highly recommended that fishing at this test fish site be limited to persons with extensive experience in both net fishing and river navigation.

## Chinook Salmon

The 2011 Chinook salmon escapement enumerated at the Little Tahltan weir was 1,753 large fish and 194 nonlarge Chinook salmon. The escapement of large Chinook salmon in the Little Tahltan River was $70 \%$ below the average of 5,785 fish and $47 \%$ below the

Canadian escapement target for this stock of 3,300 large Chinook salmon. The weir count was also well below the low end of the Canadian escapement goal range of 2,700 to 5,300 large fish. This is the fifth consecutive year that the lower end of the escapement was not reached. The nonlarge Chinook salmon count was $10 \%$ below the average count of 215 fish.

A MR study was conducted again in 2011 concurrent with the SCMM to assess the inriver Chinook salmon abundance. Inseason MR estimates were calculated weekly post SW 22 (22-May to 07-July). The postseason estimate of Stikine River spawning escapement based on tag recoveries in the commercial fishery and spawning ground recoveries was 14,482 large Chinook salmon; $51 \%$ below the average escapement of 29,298 . The escapement was $15 \%$ below the escapement point goal of 17,400 large Chinook salmon, but within the escapement goal range of 14,000 to 28,000 fish. The escapement to the Little Tahltan River represented approximately $12 \%$ of the total Stikine River escapement. The percentage is below average.

Verrett Creek escapements counts were judged as moderate, better than what was observed in 2007-2010, as reported by the carcass pitch crew stationed at the creek from 03-11 August. The Verrett Creek project is primarily a study to collect spaghetti tags; not to assess escapement numbers. An above average run of Shakes Creek Chinook salmon was also reported by residents living at the creek mouth.

## Coho Salmon

Aerial surveys of five index sites were conducted on 04 November. The combined count of 2,542 coho salmon, under fair to good viewing conditions, was $35 \%$ below the average of 3,910 coho salmon. All six indices were below average. There was a poor showing of spawners in the Craig River. The average counts from these three sites are 1,100 fish, while this year's count was 459 fish.

A coho salmon drift gillnet test fishery was conducted from 04 Sept to 11 October 2011. The total harvest was 186 coho, 7 pink, 5 chum, and 18 steelhead trout was taken in 392 drift fishing events. Each event was $10-15$ minutes in length. Net dimension were constant at $33 \mathrm{~m}, 150 \mathrm{~cm}$ mesh, by 30 meshes deep. The total cumulative weekly CPUE was 4.6 fish; the year average was 6.1 fish. It should be noted that the fishing in 2011 conditions impaired due to two major flooding events that occurred in September. This test fishery has been operated a various levels of vigour since 1986 through to 2010. (Funding in 2007 was not granted.)

## Sockeye Salmon Run Reconstruction

The postseason estimate of the terminal Stikine River sockeye salmon terminal run size is 213,399 fish. Of this number, approximately 102,706 were of Tahltan Lake origin (wild \& stocked), 45,921 were of Tuya origin (fry from Tahltan broodstock stocked into Tuya Lake), and 64,771 were mainstem stocks (Table 3). These estimates are based on postseason data including: otolith recovery and GSI analysis in the U.S. Districts 106 and 108 harvests; otolith analysis, egg diameter stock-composition estimates for inriver
catches from the Canadian commercial, Aboriginal, ESSR, and test fishery harvests; and escapement data. The 2011 terminal run was above average and above the preseason forecast of 183,000 fish.

## TAKU RIVER

Taku River salmon are harvested in the U.S. gillnet fishery in Alaskan District 111, in the northern Southeast Alaska seine and troll fisheries, in the Juneau area sport fishery, and in the inriver personal use fishery. Canadian fisheries for Taku River salmon include a commercial gillnet fishery located in the river near the Canada/U.S. border, an AF, and a sport fishery (Figure 2).


Figure 2. The Taku River and principal U.S. and Canadian fishing areas.

## Harvest Regulations

Fishing arrangements in place as a result of Annex IV, Chapter 1 of the PST can be found at: http://www.psc.org/pubs/treaty.pdf. For salmon originating in the Canadian portion of the Taku River watershed, these arrangements include the continuation of directed fisheries for Taku River Chinook salmon stocks, first implemented in 2005; continuation of coho salmon harvest shares; and a sockeye salmon harvest sharing arrangement based on the production of enhanced fish.

## U.S. Fisheries

The traditional District 111 commercial drift gillnet salmon fishery was open for a total of 46 days from June 19 through September 28, 2011. The harvest totaled 2,438 Chinook, 100,400 sockeye, 27,563 coho, 338,657 pink, and 667,709 chum salmon. Harvests of pink and chum salmon were above average, and the harvests of Chinook, sockeye, and coho salmon were below average.

Hatchery stocks contributed substantially to the numbers of both sockeye and chum salmon harvested and minor numbers to the harvest of other species. The 2011 season was the twelfth year of substantial numbers of adult sockeye salmon returning to the Snettisham Hatchery inside Port Snettisham. The Speel Arm SHA inside Port Snettisham was opened to common property fishing during SW 34 through 37 to target Port Snettisham hatchery sockeye salmon.

A bilateral review of the escapement goal for Taku large Chinook salmon completed in early 2009 resulted in a revised escapement goal range of 19,000 to 36,000 fish. The revised escapement goal and the 2011 preseason terminal run estimate of 40,986 Taku large Chinook salmon allowed for directed District 111 Chinook salmon fisheries in 2011. However, when portioned over the run timing, the allowed harvest was deemed too small to provide for manageable commercial fisheries. The first and all subsequent inseason estimates of Chinook salmon run strength were substantially less than the preseason forecast providing no AC. As a result, the U.S. did not prosecute any directed commercial Chinook salmon fisheries in 2011, but existing regulations did liberalize the District 111 sport fishery based on the preseason forecast. The total 2011 traditional District 111 drift gillnet harvest of large Taku River Chinook salmon was 518 fish. The Taku River stock assessment program at Canyon Island provided data to estimate the above border Chinook salmon run. This data, along with the spawning ground MR data was used to generate a final escapement estimate of 27,523 large Taku River Chinook salmon.

The preseason terminal run forecast of 40,986 large Taku River Chinook salmon allowed for directed District 111 Chinook salmon fisheries in beginning the first Monday in May in SW 19. In addition to the 3,500 fish BLC to be shared amongst the sport, troll, and drift gillnet fisheries, the U.S. AC was 1,533 fish. Due to the limited Chinook salmon AC, the first possible opening of the directed gillnet season was postponed until the first inseason estimate of run strength was generated. Because the preseason forecast provided for directed U.S. Chinook salmon fisheries, regulations liberalized sport fishing bag
limits and gear restrictions in District 111 between April 25 and June 21. The first inseason estimate of abundance was generated in SW 21 and was below a level that provided any allowed harvest for directed U.S. fisheries. All subsequent inseason estimates did not provide allowed harvest, and as a result, the U.S. did not prosecute any directed commercial Chinook salmon fisheries in 2011. The sport harvest of 573 Taku large fish plus the 763 Taku large fish incidentally harvested in the District 111 sockeye salmon gillnet fisheries through SW 28 was well below the BLC of 3,500 fish provided by the PST.

The traditional District 111 sockeye salmon harvest was 100,400 fish and was below average. Weekly sockeye salmon harvests were below average during all weeks in 2011 with the exception of SW 29, and sockeye salmon CPUE was below average during all weeks. Domestic hatchery sockeye salmon stocks began to contribute to the traditional fishery in SW 27 and added substantial numbers to the harvests in SW 30-34. Of the total traditional District 111 sockeye salmon harvest, 21\% occurred in Stephens Passage, less than the average of $29 \%$. This reduction is primarily due to conservation measures taken for wild Port Snettisham sockeye salmon stocks, including a six inch minimum mesh restriction imposed in SW 28 through 32. The contributions of wild Taku River and Port Snettisham sockeye salmon to the traditional District 111 harvest was based on postseason analyses of SPA and otolith analysis. Sockeye salmon from a joint U.S./Canada fry-stocking program at Tatsamenie and Trapper lakes contributed an estimated 5,604 fish to the fishery ( $5.3 \%$ of the harvest; Table 4). Contributions of U.S. hatchery sockeye salmon to the traditional District 111 drift gillnet fishery totaled 24,595 fish or $27 \%$ of the harvest. These were predominately Port Snettisham hatchery sockeye salmon but also included a small number of thermally marked fish from a fry-stocking program at Sweetheart Lake in Port Snettisham. Historical stock composition estimates were applied to the remainder of the harvest to estimate contributions of Taku River and Port Snettisham wild stocks to the weekly harvests. The estimate of stock composition of the harvest of wild Taku sockeye salmon in the traditional district was 65,089 (65\%) fish. Once the minimum of the escapement goal range to Speel Lake was achieved, Port Snettisham and the Speel Arm SHA were opened for one day in SW34 and concurrently with the traditional fishery in SW 35 through 37.

Table 4. Taku sockeye salmon run reconstruction, 2011. Estimates do not include spawning escapements below the U.S./Canada border.

|  | Taku |  |  | Snettisham Stocks |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Wild | Enhanced | Total | Wild | Enhanced |
| Escapement | 115,383 | 113,022 | 2,362 |  |  |  |
| Canadian Harvest |  |  |  |  |  |  |
| Commercial | 23,898 | 22,145 | 1,753 |  |  |  |
| Food Fishery | 124 | 114 | 10 |  |  |  |
| Total | 24,022 | 22,259 | 1,762 |  |  |  |
| Test Fishery harvest | 521 | 480 | 41 |  |  |  |
| Above Border Run | 139,926 | 135,761 | 4,165 |  |  |  |
| U.S. Harvest a |  |  |  |  |  |  |
| District 111 | 70,693 | 65,089 | 5,604 | 29,068 | 4,473 | 24,595 |
| Personal Use | 1,111 | 1,024 | 87 |  |  |  |
| Total | 71,804 | 66,113 | 5,691 |  |  |  |
| Test Fishery harvest | 0 |  |  |  |  |  |
| Terminal Run | 211,730 | 201,874 | 9,856 |  |  |  |
|  | Total | Wild |  |  |  |  |
| Terminal Run | 211,730 | 201,874 |  |  |  |  |
| Escapement Goal | 75,000 | 75,000 |  |  |  |  |
| AC | 136,730 | 126,874 |  |  |  |  |
| Canada |  |  |  |  |  |  |
| Harvest Share | 21\% | 21\% |  |  |  |  |
| Base Allowable | 28,713 | 26,644 |  |  |  |  |
| Surplus Allowable | 0 | 0 |  |  |  |  |
| Canada AC | 28,713 | 26,644 |  |  |  |  |
| Actual harvest | 24,022 | 22,259 |  |  |  |  |
| U.S. |  |  |  |  |  |  |
| Harvest Share | 79\% | 79\% |  |  |  |  |
| US AC | 108,017 | 100,230 |  |  |  |  |
| Actual harvest | 71,804 | 66,113 |  |  |  |  |

${ }^{\text {a }}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for harvest other than the listed fisheries.

Coho salmon stocks harvested in District 111 include runs to the Taku River, Port Snettisham, Stephens Passage, and local Juneau area streams as well as Alaskan hatcheries. The traditional District 111 coho salmon harvest of 27,563 fish was $74 \%$ of the average of 37,006 fish. CWT analyses indicate Alaskan hatchery coho salmon contributed 2,088 fish or 8\% of the traditional District 111 harvest.

Management emphasis for the District 111 drift gillnet fishery shifted to sockeye salmon beginning in SW 26. Management actions to conduct the Taku River directed sockeye salmon drift gillnet fishery were limited to imposing restrictions in time, area, and gear. Because there is no bilaterally agreed forecast for Taku River sockeye salmon, early season management of the District 111 fishery is based on fishery CPUE and Canyon Island fish wheel catches. As the fishing season progresses sufficient data is acquired to estimate the inriver run size from the MR program at Canyon Island and to use that estimate in conjunction with migratory timing and historical fishery harvest data to forecast the entire Taku sockeye salmon run. In the first week of sockeye salmon management, SW 26 (starting June 19), Section 11-B was open for 2 days with the north line pulled back to the latitude of Jaw Point to conserve for Chinook salmon. A total of 43 boats harvested 652 Chinook salmon of which 294 were large Taku fish. The sockeye salmon harvest was $34 \%$ and CPUE was $86 \%$ of the average.

In SW 27, Section 11-B was opened for three days, with the Jaw Point line as a Chinook salmon conservation measure. A total of 52 boats harvested 725 Chinook salmon, 301 large Taku fish. The sockeye salmon harvest was $43 \%$ of average and the sockeye salmon CPUE was $86 \%$ of average. The first weekly sockeye salmon inriver run estimate projected an inriver run of 140,054 sockeye salmon, $104 \%$ of average (Table 5).

Table 5. Weekly U.S. inseason forecasts of terminal run size, TAC, inriver run size, and the U.S. harvest of wild Taku River sockeye salmon for 2011.

| Stat | Inriver | Terminal | Total | U.S. | Projected |
| ---: | ---: | ---: | ---: | ---: | ---: |
| Week | Run | Run $^{\text {a }}$ | TAC | TAC | U.S. Catch |
| 27 | 140,691 | 171,672 | 96,672 | 77,338 | 30,982 |
| 28 | 94,684 | 129,226 | 54,226 | 41,754 | 34,542 |
| 29 | 105,043 | 153,857 | 78,857 | 62,297 | 48,814 |
| 30 | 114,223 | 161,558 | 86,558 | 66,650 | 47,335 |
| 31 | 123,060 | 172,786 | 97,786 | 73,340 | 49,727 |
| 32 | 120,108 | 183,970 | 108,970 | 81,727 | 63,862 |
| 33 | 122,631 | 187,659 | 112,659 | 86,747 | 65,028 |

${ }^{\text {a }}$ Terminal run does not include any marine harvest of Taku River salmon that might occur outside of District 111.

Fishing time for SW 28 was set for three days in Section 11-B with the Jaw Point line for Chinook salmon conservation. There was a six-inch minimum mesh restriction south of Circle Point for Port Snettisham wild sockeye salmon conservation while providing fishing opportunity on enhanced summer chum salmon. Limestone Inlet was opened concurrent with Stephens Passage to provide access to enhanced DIPAC chum salmon returning to this remote release site. Effort increased to 75 boats and 205 Chinook salmon were harvested; 168 of which were large Taku fish. The total gillnet harvest of large Taku River Chinook salmon for the directed Chinook salmon fishery accounting period, SW 26-28, was 763 fish. Sockeye salmon harvest was $58 \%$ of average and CPUE was $86 \%$
of average. The weekly estimate declined, projecting an inriver run of 109,000 sockeye salmon.

Fishing time for SW 29 was three days in Taku Inlet and Stephens Passage with a sixinch minimum mesh restriction south of Circle Point, to conserve for wild Port Snettisham sockeye salmon, while providing opportunity on enhanced summer chum salmon. Section 11-C was opened for three days due to adequate pink salmon runs to mainland systems. Effort increased to the 2011 maximum of 160 boats with sockeye salmon harvest $101 \%$ of average and CPUE $73 \%$ of average. Analysis of otoliths revealed that $4 \%$ of the sockeye salmon harvested from Taku Inlet during this week were DIPAC Snettisham Hatchery origin. In Taku Inlet, TBR enhanced sockeye salmon of Tatsamenie and Trapper lakes origin contributed $7 \%$ and $5 \%$ respectively to the harvest. In Stephens Passage, $17 \%$ of the sockeye salmon harvest was of DIPAC Snettisham Hatchery origin, and TBR enhanced sockeye salmon of Tatsamenie Lake origin contributed $1 \%$. The weekly estimate projected an inriver run of 105,631 sockeye salmon.

Fishing time for SW 30 was set for two days in Taku Inlet and Stephens Passage; with a six-inch minimum mesh restriction south of Circle Point for Port Snettisham wild sockeye salmon conservation while providing fishing opportunity on enhanced summer chum salmon. Section 11-C was opened for two days. Initial effort remained steady at 155 boats, but quickly dropped with poor catches. Sockeye salmon harvest was $48 \%$ of average and CPUE dropped to $38 \%$ of average. Otolith analysis revealed that $18 \%$ of enhanced fish from Taku Inlet were of DIPAC Snettisham Hatchery origin. TBR enhanced Tatsamenie and Trapper lakes origin sockeye salmon contributed $9 \%$ and $2 \%$ respectively to Taku Inlet harvests. The weekly sockeye salmon estimate increased, projecting an inriver run of 138,318 fish.

Fishing time for SW 31 was set for three days in Taku Inlet and Stephens Passage; with a six-inch minimum mesh restriction south of Circle Point for Port Snettisham wild sockeye salmon conservation while providing fishing opportunity on enhanced summer chum salmon. With good inriver indicators including an inriver run estimate indicating the minimum of the escapement goal range was in the river past all fisheries, the fishery was extended an additional day. Section 11-C was opened for four days due to adequate pink salmon runs to mainland systems. Effort declined to 124 boats; sockeye salmon harvest was $71 \%$ of average and CPUE was $59 \%$ of average. Otolith analysis revealed that $23 \%$ of the sockeye salmon harvested from Taku Inlet during this week was of DIPAC Snettisham Hatchery origin. TBR enhanced Tatsamenie and Trapper lakes origin sockeye salmon contributed $8 \%$ and $1 \%$ respectively. The weekly sockeye salmon estimate projected an inriver run of 112,128 fish.

Fishing time for SW 32 was set for three days in Taku Inlet and Stephens Passage with a six-inch minimum mesh restriction south of Circle Point for Port Snettisham wild sockeye salmon conservation while providing fishing opportunity on enhanced summer chum salmon. Section 11-C was opened for four days due to adequate pink salmon runs to mainland systems. With good inriver indicators and no conservation concerns, Section

11-B was extended an additional day. Effort declined to 87 boats, and sockeye salmon harvest was $85 \%$ and CPUE was $92 \%$ of average. Otolith analysis indicated that $25 \%$ of the sockeye salmon harvested from Taku Inlet was of DIPAC Snettisham Hatchery origin. TBR enhanced Tatsamenie and Trapper lakes origin sockeye salmon contributed $3 \%$ and $0.2 \%$ respectively. In Stephens Passage, $75 \%$ of the sockeye salmon harvest was DIPAC Snettisham Hatchery origin. The weekly sockeye salmon estimate projected an inriver run of 129,706 fish.

Fishing time for SW 33 was set for four days in Taku Inlet and Stephens Passage, with the six-inch minimum mesh restriction south of Circle Point repealed due to a strong movement of fish through the Speel Lake weir. Section 11-C was opened for four days due to adequate pink salmon runs to mainland systems. Effort increased to 100 boats and the sockeye salmon harvest was $92 \%$ of average and CPUE was $77 \%$ of average. Otolith analysis indicated $29 \%$ of the enhanced fish harvested from Taku Inlet was of DIPAC Snettisham Hatchery origin. TBR enhanced Tatsamenie and Trapper lakes origin sockeye salmon contributed 2\% and 0.3\% respectively. In Stephens Passage, 83\% of the sockeye salmon harvest was DIPAC Snettisham Hatchery origin. The weekly sockeye salmon estimate projected an escapement of 111,000 fish.

The fall drift gillnet season in District 111 lasted seven weeks, beginning on August 15 in SW 34 and ending September 28 in SW 40. During this time management focus switches from sockeye to coho salmon abundance. Fishing time in Section 11-B during SW 34 was set at the average three days due to adequate inseason sockeye salmon estimates and strong early coho salmon performance. The opening was delayed until Monday, August 15 to accommodate the Golden North Salmon Derby taking place in Juneau area waters. Section 11-C was opened for three days due to adequate pink salmon runs to mainland systems. The minimum escapement to Speel Lake was achieved, and a 24-hour fishery beginning noon, Wednesday in the Speel Arm SHA. Nearly the entire District 111 fleet had moved into Speel Arm by Tuesday afternoon. A total of 37 boats reported landings in the traditional fishery area this week. The coho salmon harvest was $35 \%$ and the CPUE was $47 \%$ of average. In addition to poor coho salmon CPUE, a substantial reduction in average size of the fish was noted by the fleet. In the 24-hour Speel Arm SHA fishery, 77 boats harvested 61,000 sockeye salmon. Otolith samples of sockeye salmon obtained and analyzed by DIPAC indicated 97\% of the samples were of Snettisham Hatchery origin.

Fishing times in Sections 11-B and 11-C were set for three days in SW 35. An above average 63 boats fished; coho salmon harvest was $70 \%$ of average and CPUE was $49 \%$ of average. The Speel Arm SHA was opened for three days to target Snettisham Hatchery enhanced sockeye salmon, and 25 boats harvested 750 sockeye salmon. The inseason coho salmon estimate projected an inriver run of 89,000 fish, which was less than the preseason forecast of 100,000 coho salmon.

Fishing times in Section 11-B, 11-C, and the Speel Arm SHA were set for the average three days in SW 36. An above average 53 boats fished; coho salmon harvest was $59 \%$ of average and CPUE was $46 \%$ of average. In the Speel Arm SHA, six boats harvested 1,400 sockeye salmon. No inseason coho salmon estimate was generated in SW 36.

Fishing times in Section 11-B and the Speel Arm SHA were set at below average three days in SW 37. This was based on SW 36 Canyon Island fish wheel catches that were about $80 \%$ of average and a near record harvest in the Canadian inriver fishery. In the marine fishery an average 30 boats fished; coho salmon harvest was $17 \%$ of average and CPUE was $22 \%$ of average. In the Speel Arm SHA, three boats harvested 160 sockeye salmon. The inseason coho salmon estimate projected an inriver run of 50,000 fish, a substantial decline from the previous estimate.

Fishing time in Section 11-B was set for two days in SW 38. An above average 26 boats fished; coho salmon harvest was $48 \%$ of average and CPUE was $91 \%$ of average. The inseason coho salmon estimate improved, projecting an inriver run of 63,700 fish and indicating the PST minimum above border run of 38,000 coho salmon had been achieved.

For the remaining two weeks of the season, Section 11-B was open for a below average three days each week. Coho salmon harvest was $35 \%$ of average and CPUE was $55 \%$ of average. The final inseason coho salmon estimate projected an inriver run of 69,000 fish and an escapement past all fisheries of 55,000 fish. The traditional District 111 sockeye salmon harvest for SW 34-40 was 44\% of average.

Several other fisheries in the Juneau area harvested transboundary Taku River salmon stocks in 2011. Personal use permits were used to harvest an estimated 1,100 Taku River sockeye salmon. An estimated 2,200 Chinook salmon were harvested by sport fisheries in the Juneau area during the directed fisheries period. A number of stocks are known to contribute to the Juneau area sport fishery, including those from the Taku, Chilkat, and King Salmon rivers, and local hatchery stocks, but the major contributor of wild large fish was believed to be the Taku River. Of all large Chinook salmon harvested in all D111 fisheries, 1,139 fish were estimated to be of Taku River origin based on postseason GSI analysis.

## Canadian Fisheries

In 2011, the Taku River commercial fishery harvest was 2,342 large Chinook, 514 nonlarge Chinook, 23,898 sockeye, and 8,446 coho salmon. An additional 680 large Chinook, 134 nonlarge Chinook, 521 sockeye and 4,002 coho salmon were harvested in assessment fisheries. The harvest of large Chinook salmon was below the average of 3,556 fish; 699 of these fish were caught while the fishery was in assessment mode, i.e. limited to weekly assessment/test fishery targets. The nonlarge Chinook and sockeye salmon harvests were average and the coho salmon harvest was above average. Fish originating from Taku fry stocks contributed an estimated 1,763 fish to the harvest, comprising $7 \%$ of the total sockeye salmon harvest. There were 63 days of fishing; this was above the average of 55 days. The seasonal fishing effort of 440 boat days was also above average. As in recent years, both set and drift gillnets were used with the majority of the harvest taken in drift gillnets. The maximum allowable mesh size was 20.4 cm (8.0 inches) except for the period from June 19 through July 12 at which time it was reduced to 14.0 cm ( 5.5 inches) in order to minimize incidental harvest of Chinook salmon.

In addition to the commercial harvests 150 large Chinook, 21 nonlarge Chinook, 124 sockeye, and 30 coho salmon were harvested in the aboriginal fishery. All but 11 sockeye and 46 Chinook salmon were taken in the lower river - nine sockeye salmon were taken at Kuthai Lake and two were taken at King Salmon Lake; 46 Chinook salmon were harvested in Nakina River. Using commercial harvest data it is estimated that of the 125 Chinook salmon harvest in the lower river, 104 were large fish; the Nakina River harvest is assumed to have been entirely large. The harvests in the Taku Aboriginal fishery average is 160 large Chinook, 84 nonlarge Chinook, 166 sockeye, and 295 coho salmon.

Recreational harvest figures are not available, but it is assumed that about 105 large Chinook salmon were retained in this fishery. The harvests of other species are believed to be negligible.

As noted, an assessment/test fishery to capture coho salmon for stock assessment purposes took place during the latter part of the fishing season; August 14 through October 5 (SW 34-41). This fishery harvested 4,002 coho and 521 sockeye salmon.

The bilateral preseason large Chinook salmon forecast, based on sibling relationships, was for a terminal run of 40,986 fish, below the average run of 47,200 fish. At a run size of this magnitude, factoring in the revised interim MSY escapement point target of 25,500 fish, the AC was 9,086 fish with 6,090 fish ( $67 \%$ of total) allocated to Canada and 2,997 fish ( $33 \%$ of total) allocated to the US. Adding BLCs of 1,500 fish for Canada and 3,500 fish for the U.S. meant that that the TAC was 14,086 fish.

The 2011 fishing plan indicated that the fishery was to be managed to the weekly guidelines reduced by $30 \%$ (Table 6.) until an inseason run assessment could be made. As in previous years, reliable inseason projections were not expected until after mid-May or three weeks of fishing. The AC was reduced in recognition that preseason forecasts have been biased high in recent years; Chinook salmon productivity appears to be lower than that predicted in the forecast models. Once reliable joint Canada/U.S. inseason projections were available, the fishery was to be managed to full directed fishery guidelines with the objective of meeting escapement and agreed harvest sharing objectives. Alternatively, in the event the run appeared to below forecast, the commercial fishery was to be reduced to a strictly assessment mode and serve as the assessment/test fishery identified in the PST agreement (as occurred in 2007 and 2008).

After inseason run projections identified the availability of an AC, weekly guideline harvests were to be developed to guide management decisions so that: a) the harvest was consistent with conservation and Treaty goals; and b) management was responsive to changes in projections of abundance, i.e. abundance-based. The guidelines were based on joint Canada/U.S. run assessments using MR estimates plus D 111 harvests through the previous week; the sum was then expanded by historical run timing, which was assumed to be average, unless otherwise agreed to by managers of both parties. Management of the Chinook salmon fishery was predicated upon weekly guidelines in order to avoid over harvesting specific components of the run. BLCs were not used in calculation of the guidelines; rather they were set aside for Aboriginal, recreational and directed sockeye salmon fisheries.

Table 6. Weekly large Chinook salmon guideline harvest for the Canadian commercial fishery in the Taku River in 2011.

| SW | Start <br> Date | Assessment/Test <br> Harvest | Directed <br> Harvest | Guideline |
| :---: | :---: | :---: | :---: | :---: |
| 18 | April 24 | 45 | 176 | 123 |
| 19 | May 1 | 134 | 534 | 374 |
| 20 | May 8 | 249 | 987 | 691 |
| 21 | May 15 | 261 | 1,036 | 725 |
| 22 | May 22 | 206 | Inseason estimate | Inseason estimate |
| 23 | May 29 | 209 | Inseason estimate | Inseason estimate |
| 24 | June 5 | 180 | Inseason estimate | Inseason estimate |
| 25 | June 12 | 115 | Inseason estimate | Inseason estimate |
| Total |  | 1,400 |  |  |

The management plan indicated that the commercial Chinook salmon fishery would open at a reduced directed fishery level at noon on Wednesday, April 27, SW 18, for an initial 24-hour period. Extensions to this and subsequent weekly fishing periods would be considered if the weekly guidelines were not achieved. For both drift and set gillnets, mesh sizes would be restricted to between 100 mm ( 4 inches) and 204 mm ( 8 inches) and net length would be restricted to a maximum of $36.6 \mathrm{~m}(120 \mathrm{ft})$. There was no restriction on the use of set gillnets as was the case early in the 2010 season when the fishery was operating in an assessment mode.

As per normal procedures, weekly fisheries for Chinook, sockeye, and coho salmon opened at noon Sunday in 2011, with the exception of the first and last openings. The first opening was delayed until midweek in order to increase the likelihood that river conditions would permit fishing (i.e. there were ice free areas).

The target harvest for the first week of Chinook salmon fishing was 123 fish. There were seven licences present, comparable to the number starting out in 2010. Water levels were below average. A hail conducted after 20 hours of fishing indicated a harvest of 43 fish based on this harvest, the fishery was extended one day. About 50 fish were harvested each day, resulting in a total of 98 fish. The CPUE was 7 fish per boat day versus an average of 13 fish.

The guideline harvest for SW 19 (May 1-7) was 374 fish; in addition there was a shortfall of 25 fish from the previous week. An initial opening of two days was posted. The water level remained low. The day 1 harvest was 62 fish and the opening was extended one day. There was no improvement on day 2 ( 50 fish harvested) so an additional one day extension was posted. Fishing improved by the end of the opening with a day 4 harvest of 128 fish. The final harvest after four days of fishing was 316 fish with an average of six licences fishing daily. The weekly CPUE of 13 fish was below the 2005-2010 average of 28 fish. It is possible that the below average water levels actually had a negative effect at this time due to increased water clarity and associated net avoidance.

As was the case for SW 19, the initial posting for SW 20 (May 8-14) was two days. The weekly target was 691 fish, plus the shortfall of 76 fish from the previous week. The harvest for day 1 was 119 fish and a one day extension was posted. After three days of fishing the cumulative harvest was 509 fish; no additional fishing time was posted. The river level reading on the canyon gauge remained close to 0 ; the spring freshet was delayed as in 2010, possibly due to below average temperatures. The CPUE was 18, below the average of 51. Nine licences fished in SW 20.

It was hoped that an inseason estimate would be possible after SW 20; however, it was felt the available MR data was insufficient, as at this time in 2010. Consequently, SW 21 (May 15-21) was opened using the same management framework i.e. based on the preseason forecast with the AC reduced by $30 \%$. The weekly guideline was therefore 725 fish and an opening of two days was posted. Based on a day 1 harvest of 256 fish this was extended an additional day, resulting in a total harvest of 786 fish. Water levels had finally started to rise for this week's fishery and by the end of the week the freshet had begun in earnest. The CPUE of 24 was closer to the average of 31 this week. Effort also increased to 11 licences.

At this point, the MR data was deemed to be sufficient data for generating an inriver abundance estimate, and the first Canada/US joint inseason run size projection was made. The MR estimate of 6,975 fish was added to the U.S sport fishery harvest through SW 20 (254 fish); this was expanded using average run timing at Canyon Island (33\%), to give a terminal run size projection of 22,150 fish.

The joint run projection made after closing was 18,973 fish, down from the first inseason projection. The test fishery target for SW 23 (May 29-June 4) was 209 fish (similar to the previous week's target); however, this week a much shorter initial opening was posted, i.e. four hours starting Sunday noon. A total of 37 fish were harvested and a similar fourhour opening was subsequently posted for Monday. The resulting cumulative harvest was still short of the target, so this was repeated on Tuesday to bring the total harvest to 167 fish. No subsequent openings were posted for the week. Water levels had been rising and reached a seasonal maximum midweek. The CPUE of 28 fbd was close to the average of 26 fbd. Once again, there were 11 active licences.

A new run projection made after the third four-hour fishing period was 17,062 fish similar to the SW 22 projection, and the harvest target for SW 24 (June 5-11) was 175 fish. An opening of four hours was posted, resulting in a harvest of 180 fish. The river level dropped rapidly over the course of the opening. The CPUE of 105 fbd was more than three times the previous week's and turned out to be the peak CPUE of the fishery. Ten licences were active during this fishing period.

The SW 24 run assessment resulted in another slight decrease in the projection down to 16,601 fish. The test fishery target for SW 25 was 115 fish, and as per the previous two weeks an opening of four hours was posted starting Sunday noon. The resulting harvest was 96 fish; since this was close to the target the fishery was not extended. By now the river level was close to record low for this time and it continued to drop during the
opening. The CPUE was 52 fbd, down by $50 \%$, but still well above the average of 27 fbd . Effort was back up to eleven licences.

SW 25 marked the end of the Chinook salmon fishery. The joint run projection (15,866 fish) made after the four-hour fishing period again showed a slight decrease. The escapement to date was estimated at only 9,057 fish and was projected to 11,668 fish; assuming average run timing and factoring in BLC. This was well below the lower end of the escapement target range of 19,000 fish. In order to reduce additional Chinook salmon harvest a maximum mesh restriction of 14.0 cm ( 5.5 inches) was implemented for the directed sockeye salmon fishery.

One additional run projection was made after the first week of directed sockeye salmon fishing (SW 26), amounting to 16,284 fish.

The weekly guidelines assessment/test fish harvest targets sum to 2,623 fish (Table 7); the actual harvest of 2,408 fish was within $8 \%$ of the guideline harvest. The Chinook salmon bycatch in the sockeye salmon fishery was 624 fish, the Aboriginal harvest was 150 fish, and an assumed recreational harvest was 100 fish bringing the actual BLC to 874 large Chinook salmon; $42 \%$ below the allocation of 1,500 fish. Efforts taken to minimize commercial bycatch included the mesh restriction noted above and the reduced openings noted below.

Table 7. Forecasts of terminal run size, allowable catch (AC), and weekly guideline, and actual harvest of Taku large Chinook salmon, 2011.

|  | Terminal <br> Run | AC | $70 \%$ of AC | Weekly Guideline <br> Assessment/Test <br> Fish Target | Actual <br> Harvest |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 18 | 40,986 | 7,086 | 3,889 | 123 | 98 |
| 19 | 40,986 | 7,086 | 3,889 | 374 | 316 |
| 20 | 40,986 | 7,086 | 3,889 | 691 | 509 |
| 21 | 40,986 | 7,086 | 3,889 | 725 | 786 |
| 22 | 22,151 | 0 | 0 | 206 | 261 |
| 23 | 18,973 | 0 | 0 | 209 | 167 |
| 24 | 17,062 | 0 | 0 | 180 | 175 |
| 25 | 16,601 | 0 | 0 | 115 | 96 |
| Total |  |  |  | 2,623 | 2,408 |

The DFO preseason forecast for the run of wild Taku sockeye salmon was based on a stock recruitment and sibling analyses, and projected a run of 230,685 fish; above the average run of 218,000 fish. In addition, approximately 8,300 enhanced fish (5,900 fish from Tatsamenie Lake and 2,400 fish from Trapper Lake) were forecast, above the average enhanced run size of 5,400 fish. Based on the treaty arrangement, an enhanced run of $5,000-15,000$ fish provides Canada with a $21 \%$ share of the TAC with management based on weekly estimates of the TAC of wild fish. Subtracting the escapement target of 75,000 wild sockeye salmon from the forecast of 230,685 fish results in a TAC of 155,685 fish; $21 \%$ of this is 32,694 fish.

The forecast for the run of wild Tatsamenie fish was 25,400 fish. As in 2010, the eggtake goal for this season was based on a target of $30 \%$ of an expected escapement of 3,000 fish amounting to approximately 1.5 million eggs. To facilitate operation planning, the maximum number of eggs to be collected would be 2.0 million. In light of the favourable Tatsamenie forecast and reduced egg-take requirements the coordinated management that typically occurs, for Tatsamenie sockeye salmon in Taku Inlet in the U.S. drift gillnet fishery during SW 30-32 (July 18-August 7) and in the Canadian fishery during SW 31-33 (July 25-August 14) limiting the fisheries to two days/week unless otherwise agreed, was unnecessary in 2011.

As with the Chinook salmon fishery and as in past years, guideline harvests were developed each week for both sockeye and coho salmon fisheries to guide management decisions so that: a) the harvest was consistent with conservation and Treaty goals; and b) management was responsive to changes in projections of abundance, i.e. abundancebased. However, there was more flexibility regarding harvest timing, with weekly guidelines generally being replaced by cumulative weekly guidelines, and no formal arrangement to concur on run estimates or projections.

The management plan indicated that the sockeye salmon fishery would open on two days in SW 26 (June 19-25). However, due to the conservation concerns for Chinook salmon, coupled with concerns for Kuthai sockeye salmon which had seen low escapements for the previous four years this was reduced to one day. River levels were rising but were still very low and this was also factored in. The weekly guideline based on the preseason forecast was 3,291 wild fish (Table 8). Despite this however, sockeye salmon CPUE of 72 was near the average of 80 . The weekly harvest was 869 sockeye salmon with 12 licences fishing.

SW 27 (June 26-July 2) was also opened conservatively for two days. The cumulative guideline harvest through this week based on the preseason forecast was 6,042 fish. The river had risen during SW 26 and was now at slightly above average levels, but stable. Fishing was poor; the CPUE of 35 was not only lower than the previous week's, but about half of the average 71 . The fishery was held to two days, and had an almost identical landing ( 837 fish ) as the previous week. The number of active licences was also the same.

Table 8. Canadian inseason forecasts of terminal run size, total allowable catch (TAC), and spawning escapement of Taku sockeye salmon, 2011.

| SW | Terminal Run | TAC | Projected <br> Escapement | Canadian <br> TAC | Inseason <br> guideline | Actual <br> Harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | 230,685 | 155,685 | 75,000 | 32,694 | 3,462 | 886 |
| 27 | 230,685 | 155,685 | 75,000 | 32,694 | 6,042 | 1,813 |
| 28 | 180,153 | 105,153 | 131,558 | 33,640 | 9,261 | 3,927 |
| 29 | 165,485 | 90,485 | 108,125 | 18,097 | 7,479 | 5,316 |
| 30 | 161,330 | 86,330 | 87,053 | 18,129 | 9,533 | 9,984 |
| 31 | 191,132 | 116,132 | 123,429 | 27,817 | 18,136 | 14,272 |
| 32 | 188,836 | 113,836 | 116,102 | 23,906 | 19,079 | 19,876 |
| 33 | 190,738 | 115,738 | 107,993 | 24,305 | 21,818 | 22,542 |

The following opening SW 28 (July 3-9) was again limited to two days. The cumulative guideline harvest through this week, still based on the preseason forecast, was 9,261 fish; 1,813 harvested to date. The river level had dropped again to below average. CPUE increased albeit only to average levels (average 61). The fishery was again held to two days. The weekly harvest was 2,114 fish with an average of 11 licences fishing. An inseason run assessment was made after this week's fishery. This projected a run of 180,153 fish, well below the preseason forecast of 230,685 wild fish.

Once more two days was the initial posting for the SW 29 opening (July 10-16). The cumulative guideline decreased substantially based on inseason information was 7,479 fish with a balance of 3,552 fish. The river was at a record low for this time, but showed an upward trend during the opening. With a day 1 CPUE about half of average the fishery was not extended. The weekly harvest was 1,391 fish bringing the cumulative to 5,316 fish. Effort was unchanged from SW 28. CPUE improved on day 2 for a weekly average of 63 , but still below the average of 87 . The run projection made after closing was 165,485 fish.

Based on this assessment the weekly guideline through SW 30 (July 17-23) was 9,533 fish. With a cumulative harvest to date of 5,316 there was a free balance 4,217 fish. An opening of three days was posted. The mesh size restriction was lifted, allowing mesh sizes of up to 204 mm ( 8 inches), and thereby reducing the bycatch of pink salmon which were abundant at this time. The CPUE was about average; however canyon fish wheel catches were above average. The fishery was extended to a fourth day. The weekly harvest was 4,668 fish with 11 licences fishing. CPUE improved on day 3 to bring the weekly average to 106 versus the average of 93 . Water levels were similar to SW 29 but showed a decreasing trend.

The run projection made after closing in SW 30 was 161,330 fish. The escapement projection was 87,053 fish, slightly above the upper end of the guideline range of 71,000 to 80,000 fish.

Based on this outlook the cumulative guideline through SW 31 was 12,500 fish. The harvest through SW 30 was 9,984 fish, showing a positive balance of 2,500 fish. With a favourable outlook for Tatsamenie sockeye salmon SW 31 was opened on 3 days. River
levels were almost identical in magnitude and trend to SW 29 levels. CPUE increased to 128 versus the average of 112 . The weekly harvest was 4,355 fish with 11 licences fishing.

The run projection was improved after closing to 191,132 fish. There was now a cumulative guideline of 18,136 fish and an actual harvest to date of 14,272 showing a positive balance of 3,864 . The escapement projection was now 123,429 fish, well above target. Consequently, the fishery for SW 32 was opened on four days. The CPUE of 171 fish marked the peak of the season. A total of 4,900 fish were harvested by 11 licences, amounting to a CPUE of 117 fbd , close to the average of 111 . River levels were down slightly.

The assessment made after closing projected a similar run size of 188,836 fish. This was associated a cumulative guideline of 19,079 fish through SW 32. The harvest to date was 19,876 fish meant that the positive balance had been eliminated and the fishery was on track. SW 33 (August 7-13) was posted for 2 days using a guideline balance to the end of the week of 1,583 fish. The CPUE on day 1 was only above average despite very low water levels and the Canyon Island fish wheel CPUE was below average. With a harvest of 864 fish on day 1 , the fishery was not extended. Harvests improved substantially on day 2 resulting in a total of 2,415 fish with 11 licences fishing. CPUE averaged 115 fbd, well above the average of 70 .

SW 33 marked the end of the directed sockeye salmon fishery. The run projection at this time was 190,738 fish. This was associated with a guideline harvest of 21,818 fish; the actual harvest was 22,542 fish. The escapement projection was 107,933 fish, above the upper end of the escapement goal range. The projected season guideline was 24,305 fish. The additional 2,463 sockeye salmon were harvested in the directed coho salmon fishery plus the 124 fish harvested in the Aboriginal fishery brought the directed harvest total 24,153 fish.

The cumulative harvest of Taku enhaned fish was 1,576; this included harvests of 1,108 Tatsamenie Lake fish and 468 Trapper Lake fish. In addition, 106 Stikine origin fish were harvested.

The cumulative commercial fishery sockeye salmon CPUE for the season was 821, close to the average of 813 . As in 2010, the low water levels undoubtedly had a positive influence on harvest rates. The increases in maximum net length from 30.5 m ( 100 feet) to 36.6 m ( 120 feet), which were implemented in 2008 and 2009 for drift and set gillnets respectively, were also likely a positive influence. CPUE was above average for SW 3033. For the other weeks it was average or below average. The peak CPUE of the season occurred in SW 31.

The preseason outlook for Taku River coho salmon was based on harvest rates in the Taku River CWT program, which were used to estimate the number of coho salmon smolts which emigrated during the spring of 2010, with survivals to return as adults in 2011. Assuming that the marine survival rate would be similar average (9\%), a terminal
run of 165,268 was expected in 2011, below the average run size of 197,041 fish. Assuming average U.S. exploitation rates (39\%), this translated to a border escapement of 100,813 fish.

SW 34 (August 14-20) was opened on 2 days primarily due to sockeye salmon considerations and the fact that the river level was substantially below record levels and dropping at the time of posting. A total of 257 coho and 377 sockeye salmon were harvested on day 1 . The fishery was by extended by one day. Effort was down to six licences, due in part to the fact that some licences were focusing on the coho salmon test fishery which also started this week. The weekly commercial harvest was 802 coho and 1,001 sockeye salmon, with a coho salmon CPUE of 42 was below average (57) despite the good fishing conditions.

SW 35 (August 21-27) was opened on four days. A Tulsequah flood occurred late in SW 34 and peaked just prior to opening. An assessment made early in the week projected a border escapement greater than 75,000 coho salmon. This meant that a TAC of 10,000 fish was available to Canada; projected escapement in excess of the goal of 27,500 to 30,000 fish. At this point the projected surplus escapement was in excess of 30,000 fish. The harvest was less than 150 fish after 3 days of fishing, due in part to the flood. The fishery was extended by one day and then another. Harvests improved substantially as the flood receded resulting in a weekly total of 877 coho salmon. There were four licences active for the opening. The CPUE of 35 fbd was less than half of the average of 86 .

SW 36 (August 28-September 3) was opened on five days. River levels were back below average and dropping. A total of 2,581 coho salmon were caught by six licences. The CPUE was much improved averaging 93 fbd, which was close to average.

With continued favourable border and spawning escapement projections coupled with declining effort SW 37 (September 4-10) was posted for four days and extended two. Fishing effort was down to three licences. However, another flood was in progress and lasted the entire week. Not surprisingly, CPUE was down markedly to 20 (average 53). The weekly harvest of coho salmon was 326 fish.

SW 38 (September 11-17) was posted for six days. River level dropped, and by the end of the week it was below average. CPUE was back up, averaging 81. This was above the average of 60 but it should be noted that in the last 10-years there were only three years in which fishing occurred in SW 38.

SW 39 (September 18-24) was not opened until midweek as all of the active licences were focused on test fishing. Then the fishery was opened for the remainder of the season, i.e. until October 6. Only one licence was active at any one time during this period resulting in a total harvest of 216 fish. The last day of commercial fishing activity was September 30.

An assessment conducted at this time projected an inriver run of 64,000 fish, which was associated with an AC of 7,500 fish. Additional harvest was also available factoring in all
other harvest; Aboriginal and test fisheries; the escapement was projected to be 51,000 fish, i.e. 16,000 fish above the upper end of the escapement goal range.

As mentioned a test fishery was again conducted in 2011 in order to ensure that run assessment continued for the majority of the coho salmon run. The fishery started in SW 34 and continued to October 5 (SW 41) harvesting 4,002 coho and 521 sockeye salmon. It was once again carried out via a contract with Taku Wild, owned and operated by the Taku River Tlingit First Nation. Weekly harvest targets versus actual harvests are as follows:

Table 9. Weekly guidelines and actual harvest for the Taku River coho salmon assessment/test fishery, 2011.

| SW | Target | Actual | Cumulative |
| :--- | ---: | ---: | ---: |
| 34 | 300 | 300 | 300 |
| 35 | 400 | 400 | 700 |
| 36 | 500 | 500 | 1,200 |
| 37 | 600 | 295 | 1,495 |
| 38 | 700 | 1,005 | 2,500 |
| 39 | 600 | 600 | 3,100 |
| 40 | 500 | 500 | 3,600 |
| 41 | 400 | 402 | 4,002 |

The preliminary postseason coho salmon MR estimate indicates that 83,349 fish reached the border. As per the PST provisions established in 2009, the Canadian AC after SW 33 was 10,000 coho salmon plus surplus escapement ( 32,370 fish). The actual treaty harvest, excluding the test fishery, was 6,102 fish. This includes the commercial harvest taken after SW 33 (6,132 fish), plus the Aboriginal fishery harvest of 30 fish; it is assumed that the recreational harvest of coho salmon was zero. Subtracting the total inriver harvest of 12,492 fish from the border passage translates to a spawning escapement estimate of 70,857 fish; about double the upper end of the escapement goal range of 27,500 to 35,000 fish. The cumulative commercial coho salmon CPUE through SW 35 (which is when the fishery typically ceases) was 154 below the average of 217.

## Escapement

## Sockeye Salmon

Spawning escapement of sockeye salmon into the Canadian portion of the Taku River drainage is estimated from the joint Canada/U.S. MR program. Counting weirs operated by DFO at Little Trapper and Tatsamenie lakes and by the TRTFN at Kuthai and King Salmon lakes provide some information on the distribution and abundance of discrete spawning stocks within the watershed.

The sockeye salmon MR program has been operated annually since 1984 to estimate the above border run size. Spawning escapement is then estimated by subtracting the inriver harvest. The final postseason above border run estimate in 2011 is 139,926 fish; subtracting the inriver harvest of 24,543 fish ( 23,898 commercial, 124 Aboriginal, and

521 coho salmon test fishery) indicates that 115,383 sockeye salmon reached the spawning grounds. This spawning escapement was near the average and above the upper end of the interim escapement goal range of 71,000 to 80,000 sockeye salmon. The Canyon Island fish wheel catch of 3,584 sockeye salmon was $44 \%$ below average; however as in 2010, low water levels likely had a substantial negative impact on fish wheel effectiveness.

The sockeye salmon count through the Kuthai Lake weir was 811 fish; counts during the last six years have not exceeded 2,000 fish. The 2011 count, the second lowest on record, was below the average of 3,100 fish and $20 \%$ below the primary brood year escapement of 1,015 fish. The fish arrived at the weir at the typical time but passage was sporadic with many days of 0 counts. The run midpoint, July 22, was about ten days earlier than average, due in part to a pulse of fish which arrived on July 19.

A weir was again operated at King Salmon Lake in 2011. However, the count of 523 sockeye salmon was exceeded by a helicopter survey count of 935 fish on September 19. It is speculated that alternate access to the lake may exist through a wetland located just south of the lake outlet and that some fish used this to bypass the weir. The aerial survey count was expanded by 3.1 (based on the 2006, 2008, and 2010 weir and aerial data) to give an estimated escapement of 2,899 fish in 2011. This is below the 2004-2010 average and $76 \%$ below the primary brood year count of 2,177 fish. In calculating the average escapement, the 2009 figure was estimated at 1,144 fish using an aerial survey expansion of 3.1 , while the 2005 count of five fish was excluded.

The Little Trapper Lake weir count was 3,809 sockeye salmon. This was above the record lows seen in 2008 and 2010 but below the average of 12,420 fish. The primary brood year was the second highest escapement on record ( 25,760 fish). The run timing was about average, however the peak was short and the run was $96 \%$ complete by the average midpoint date (August 10). As was the case in 2010, there were no removals for artificial spawning.

The Tatsamenie Lake weir count of 7,880 sockeye salmon was close to the average of 8,600 fish but below the 2006 primary brood year count of 22,475 fish. (As at Little Trapper, the second highest count on record was observed in 2006). The fish arrived at the lake at the typical time; however the run midpoint was early (August 22, versus the average of September 1). Approximately 1,300 fish were held for gamete collection.

## Chinook Salmon

Spawning escapement of Chinook salmon in the Canadian portion of the Taku River drainage is typically estimated from the joint Canada/U.S. MR program. In 2011, tag application took place from April 26 through July 17. Tag recovery effort consisted of the commercial assessment/test Chinook salmon fishery from April 27 through June 18 (SW 18-25), the sockeye and coho salmon commercial fisheries (SW 26-40), and the coho salmon test fishery (SW $34-41$ ); in addition, there was spawning ground sampling in August and September on the Nakina, Tatsatua, Kowatua, Nahlin, Dudidontu rivers, as well as Tseta Creek. Spawning grounds sampling uses a multitude of gear types including
carcass weirs and hand carcass recovery, rod and reel snagging, and even dip nets and the use of multiple gear types has been shown to decrease age, sex, and size selectively. Thus, the spawning grounds data is considered the most unbiased sample of the marked fraction in MR work. Unfortunately, not enough tags were recovered on large Chinook salmon during spawning grounds sampling to directly estimate the large-sized escapement. However, ample numbers of tags were recovered on medium Chinook salmon resulting in a medium-sized Chinook salmon estimate of 15,562 fish (SE=3,112). The ratio of medium- to large-sized Chinook salmon seen in the combined spawning grounds sample (i.e., 0.57) was then used to expand to an estimate of the large Chinook salmon escapement resulting in final large Chinook salmon estimate of 27,523 ( $\mathrm{SE}=4,139$ ).

Aerial surveys of large Chinook salmon to the six escapement index areas were as follows: Nakina 1,380 fish (31\% below average), Kowatua 377 fish ( $51 \%$ below average), Tatsamenie 917 fish (4\% below average), Dudidontu 301 fish ( $40 \%$ above average), Nahlin 808 fish (16\% below average), and Tseta Creek was not flown. Survey conditions and timing were good except for the Kowatua index which was late due to high water. The total count of 3,783 large Chinook salmon was $32 \%$ below average.

Carcass weirs were again operated on the Nakina and Tatsatua rivers in order to obtain tag and age-length-sex data. Totals of 493 and 473 large Chinook salmon were encountered (this includes supplemental angling at Little Tatsamenie), 7\% and 27\% lower respectively than what was observed in 2010. Low water did not hamper carcass recovery at the Nakina site, as it may have in 2010.

## Coho Salmon

Spawning escapement of coho salmon in the Canadian portion of the Taku River drainage was estimated from the joint Canada/U.S. MR program. Tag application occurred from July 1 until September 27 (SW 40) and recovery occurred until October 5 (SW 41). The tag recovery effort consisted of the commercial fishery, augmented by a test fishery from SW 34 to October 5. The final postseason above border run estimate is 83,349 fish; taking into account the inriver harvest of 12,478 fish ( 8,446 commercial, 30 Aboriginal and 4,002 test) the spawning escapement estimate is 70,871 fish. This is below the average of 129,439 fish but about double the upper end of the interim escapement goal range (27,500 to 35,000 fish).

## Sockeye Salmon Run Reconstruction

An estimated 65,089 wild Taku River sockeye salmon were harvested in the traditional U.S. District 111 drift gillnet fishery. This final estimate was based on SPA. An additional 1,024 wild sockeye salmon were estimated to have been taken in the U.S. inriver personal use fishery. The estimated total U.S. harvest of wild Taku sockeye salmon is 66,113 fish (Table 5).

In the Canadian commercial fishery, the final postseason harvest estimate of wild Taku sockeye salmon is 22,145 fish. An estimated 114 wild sockeye salmon were taken in the

Canadian Aboriginal fishery. Therefore, the estimated Canadian treaty harvest of wild Taku sockeye salmon is 22,259 fish (Table 5). An additional 480 wild sockeye salmon were taken in test fisheries.

The final postseason estimate of the above border run size of wild sockeye salmon based on the joint Canada/U.S. MR program is 135,761 fish. Deducting the Canadian inriver harvest of 22,259 fish from the above border run estimate resulted in an estimated escapement of 113,022 wild sockeye salmon. The terminal run of wild Taku sockeye salmon was estimated at 201,874 fish. Based on the escapement goal of 75,000 fish the TAC was 126,874 wild sockeye salmon.

The escapement of Taku sockeye salmon originating from the fry stocking program was estimated to be 2,362 fish from broodstock otoliths collected at Tatsamenie Lake and estimated for the Trapper Lake escapement. The final estimate is for a terminal run of 9,856 enhanced Tatsamenie and Trapper fish (Table 4).

## ALSEK RIVER

Alsek River salmon stocks contribute to the U.S. commercial gillnet fisheries located in Dry Bay, at the mouth of the Alsek River (Figure 3). Unknown quantities of Alsek River origin fish may also be taken in the U.S. commercial gillnet and troll fisheries in the Yakutat area. No commercial fishery exists in the Canadian portions of the Alsek River drainage, although Aboriginal and recreational fisheries occur in the Tatshenshini River and some of its headwater tributaries (Figure 3).

## Harvest Regulations \& Management Objectives

Although harvest sharing of Alsek River salmon stocks between Canada and the U.S. has not yet been specified, Annex IV, Chapter 1 calls for the development and implementation of cooperative abundance-based management plans and programs for Alsek River Chinook and sockeye salmon. Interim escapement goal ranges for Alsek River Chinook salmon at Klukshu is 1,100 to 2,300 fish and sockeye salmon was initially set by the TTC at 33,000 to 58,000 fish (Klukshu: 7,500 to 15,000 fish). The principle escapement-monitoring tool for Chinook and sockeye salmon stocks on the Alsek River is the Klukshu weir; operated by DFO in cooperation with the ChampagneAishihik First Nation (CAFN). The weir has been in operation since 1976. Traditional MR programs to estimate the total inriver abundance and the fraction of the escapement contributed by the Klukshu stocks were implemented for a number of years one and two decades ago and continue in the form of genetic based estimates funded through the Northern Endowment Fund in more recent years.


Figure 3. The Alsek River and principal U.S. and Canadian fishing areas.

## Preseason Forecasts

The 2011 overall Alsek drainage sockeye salmon run was expected to be approximately 84,400 sockeye salmon; this is slightly above the average estimate of 80,500 sockeye salmon. The outlook for 2011 was based on a predicted run of 19,400 Klukshu sockeye salmon derived from the latest Klukshu stock-recruitment data (Eggers et al. 2011) and a Klukshu contribution rate to the total run of 23\% (based on MR results 2000-2004 and run size estimates using GSI (2005-2006). Principal contributing brood years were 2006 (Klukshu escapement of 12,890 sockeye salmon) and 2007 (Klukshu escapement of 8,479 sockeye salmon); average Klukshu sockeye salmon escapement is 13,000 fish. Based on historical stock-recruitment analysis, the range of Klukshu escapements that
appeared most likely to produce maximum sustained yields was 7,500 to 15,000 sockeye salmon.

The Klukshu early sockeye salmon run counts in 2006 and 2007 were 247 and 2,725 fish, respectively. The average count is 2,700 sockeye salmon which is above the optimum escapement level of 1,500 fish as determined through separate stock-recruitment analyses of the early run conducted by DFO. The early run to the weir was expected to be below this level in 2011.

The Klukshu Chinook salmon escapements in 2005 and 2006 were 963 and 566 Chinook salmon, respectively. For comparison, the average is 1,440 Chinook salmon. The brood year escapement in 2005 was close to the escapement goal range of 1,100 to 2,300 Chinook salmon as determined from the historical stock-recruitment analysis. Based on these primary brood year escapements, the outlook for 2011 is 2,000 Klukshu Chinook salmon, above the average $(1,700)$ and within the escapement goal range.

## U.S. Fisheries

Preseason expectations were for above average runs for both sockeye and Chinook salmon. These expectations were based on parent-year escapements to the Klukshu River. The Alsek River recorded above average runs for both sockeye and Chinook salmon and escapement goals were attained in 2011.

In 2011 management strategies were back to traditional regimes by monitoring fishery performance data and comparing it to historical CPUE for a given opening to adjust time and area openings. The Alsek River commercial fishery opened on the first Sunday in June, SW 24 (June 5) for 24 hours with 12 permits catching 248 Chinook and 1,000 sockeye salmon. Effort started to decline by SW 34 and management strategies switched to coho salmon. Coho salmon are targeted from mid-August on and effort becomes minimal. Fishing times remained at three days per week from SW 34 through the second week in October (SW 42), and the river was not fished during the last three weeks of the season.

The 2011 Dry Bay commercial set gillnet fishery harvested 546 Chinook, 24,169 sockeye, and 1,614 coho salmon (Table 9). No pink and 11 chum salmon were harvested. The Chinook salmon harvest was above the average of 501 fish. The sockeye salmon harvest was above the average of 15,424 fish. The coho salmon harvest was below average. Very little effort was recorded during the coho salmon season due to market conditions. The number of fishing days was 37 . The total effort expended in the fishery was 168 boat days, which was above average.

The department conducted a test fishery for Chinook salmon in 2011. This test fishery was conducted in 2005 through 2008. The 2011 test fishery opened on May 15 (SW 21) and closed on June 24 (SW 25). Totals of 421 Chinook salmon and 157 sockeye salmon were harvested (harvest quota maximum of 500 fish). The gear used throughout the
fishery was an $8 \frac{1}{4}$ inch meshes, 20 fathom set gillnet. All were sampled for ASL, and for CWT (just in case, none found), and for genetics.

## Canadian Fisheries

Due to the absence of the harvest monitor position in 2005 through 2010, harvests from the food fishery were estimated based on fishery performance data compared with the weir counts. For 2011, the harvest monitor position was reinstated midway through the season. The harvest estimate for 2011 was comprised of the fish taken from the Klukshu River weir (elders only), an estimate of harvests above/below the weir (based on the past relationship with the weir count and harvest), and averaged with the data collected through the harvest monitor. It is estimated that 119 Chinook, 2,053 sockeye, and 9 coho salmon were harvested in the food fishery. The average harvests were 83 Chinook, 1,363 sockeye, and 7 coho salmon.

Table 10. Final harvest and Klukshu index escapement data for Alsek River sockeye, Chinook, and coho salmon for 2011.

|  | Chinook | Sockeye | Coho |
| :--- | :---: | :---: | :---: |
| Escapement Index $^{\text {a }}$ |  |  |  |
| Klukshu Weir Count | 1,670 | 21,389 | 2,119 |
| Klukshu Escapement | 1,609 | 20,769 | 2,110 |
| Harvest $^{\text {b }}$ |  |  |  |
| U.S. Commercial | 546 |  |  |
| U.S. Subsistence | 42 | 24,169 | 1,614 |
| U.S. Test | 421 | 175 | 18 |
| Canadian Aboriginal | 119 | 157 | 0 |
| Canadian Recreational | 95 | 2,053 | 9 |
| Total | 1,223 | 57 | 20 |

${ }^{\text {a }}$ Klukshu River salmon stocks represent an assumed large and variable portion of the total Alsek River salmon escapement.
${ }^{\mathrm{b}}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for harvest other than the listed fisheries.

Final harvest estimates for the Tatshenshini recreational fishery were above average for Chinook salmon, with an estimated 95 fish retained ( 275 released), and near average for sockeye salmon with 57 retained ( 220 released), and 20 coho salmon were retained (50 released). These were $23 \%$ above average for Chinook salmon, $36 \%$ above average for sockeye salmon, and $26 \%$ of average for coho salmon. Retention of sockeye salmon was permitted on August 13th ahead of the normal opening date of August 15th due to the good escapement of sockeye salmon into the Klukshu River. In addition, daily and possession limits for sockeye salmon were increased to 4 and 8 on August 27th.

Management of salmon in the Yukon Territory is a shared responsibility between DFO and the Salmon Subcommittee (SSC). The SSC was established in 1995 pursuant to the Comprehensive Land Claim Umbrella Final Agreement between the Government of Canada, the Council for Yukon Indians and the Government of the Yukon Territory. The

Committee is a public board consisting of ten members, $70 \%$ of which are appointed by Yukon First Nations. Two CAFN members sit on the SSC. Although the Committee currently operates by consensus, the voting structure of the Committee is organized so that, should a vote be necessary, $50 \%$ of the votes reside with appointees of Yukon First Nations.

The 2011 Alsek-Tatshenshini management plan, adopted by CAFN, SSC, and DFO, was based on the objectives described in the Harvest Regulations \& Management Objectives section above. For Chinook and early run sockeye salmon management, the status of the Klukshu weir counts was to be reviewed on or about July 18 to ensure weir and spawning escapement targets were on track. The status of the late run sockeye salmon would be reviewed the first week of September. Adjustments to inseason fishing regimes in the recreational and aboriginal fisheries would be made if deemed necessary. Other key elements of the plan are described below.

The center of aboriginal fishing activity in the Alsek River drainage occurs at the CAFN village of Klukshu, on the Haines road, about 60 km south of Haines Junction. Salmon are harvested by means of gaff, small gillnets, sport rods, and traditional fish traps as the fish migrate up the Klukshu River and into Klukshu Lake. The fishing plan for the aboriginal fishery in the Klukshu River and adjacent areas allowed for fishing by any means (as established in the communal license) 7 days a week. Conservation thresholds that might invoke restrictions in the Aboriginal fishery were projected Klukshu weir counts of $<1,100$ Chinook and $<1,500$ early sockeye salmon. Food fisheries also exist on Village Creek and in the headwaters of the Tatshenshini River and tributaries thereof (Goat Creek, Stanley Creek, Parton River, and the Blanchard River). The plan did not restrict the fishery other than to reserve harvests of Chinook salmon at Goat Creek, Stanley Creek, and the Parton River for elders only.

The majority of the recreational fishing effort on the Alsek drainage occurs in the Tatshenshini River, at and just downstream of the mouth of the Klukshu River in the vicinity of the abandoned settlement of Dalton Post. The management plan prohibited the retention of sockeye salmon in the recreational fishery prior to August 15 unless the weir count projection for the early run was $>4,500$ sockeye salmon. The Chinook salmon daily harvest limit was one fish and the possession limit was two Chinook salmon. For other salmon species, the daily harvest and possession limits were two and four fish, respectively. However, the aggregate limit for all salmon combined was two salmon per day, four fish in possession. Starting in 2003, recreational salmon fishing was permitted in the Tatshenshini River seven days a week; this fishery had previously been open from 6:00 am Saturday to 12:00 noon Tuesday each week. Headwater areas in the vicinity of the British Columbia/Yukon border were to be closed in late July to protect spawning Chinook salmon. Conservation thresholds that were expected to invoke additional restrictions in the recreational fishery were projected Klukshu weir counts of $<1,300$ Chinook and < 10,500 sockeye salmon (early and late runs combined).

A mandatory Yukon Salmon Conservation Catch Card (YSCCC), introduced by the SSC in 1999, was required by all recreational salmon fishers in 2011. The purpose of the

YSCCC is to improve harvest estimates and to serve as a statistical base to ascertain the importance of salmon to the Yukon recreational fishery. Anglers are required to report their catch via mail by the late fall. Information requested includes the number, sex, size, date and location of salmon caught and released.

Since 2001, CAFN has imposed a fishing area closure from the Klukshu River Bridge crossing up to the new weir location to allow for better staging opportunities for salmon in the vicinity of the Klukshu/Tatshenshini confluence.

## Escapement

Total drainage abundance programs are being investigated as part of the development of abundance-based management regimes and to accurately assess whether the escapement goals for Alsek River Chinook and sockeye salmon stocks are appropriate and if so, are being achieved. At this time, there are no programs in place to estimate the drainage wide coho salmon escapement. A large and variable proportion of the escapement of each species is enumerated at the weir on the Klukshu River. Current escapement monitoring programs including the Klukshu weir, Village Creek electronic counter, and aerial surveys allow annual comparisons of escapement indices. The most reliable long-term comparative escapement index for Alsek River drainage salmon stocks is the Klukshu River weir count. Escapements for 2011 are shown in Table 9.

## Sockeye Salmon

In 2011 the final weir count and escapement estimates of Klukshu River sockeye salmon were 21,389 and 20,904 fish, respectively (Table 9). The count of 5,635 early run fish (count through August 15) was nearly twice of average while the count of 15,754 late run fish was $44 \%$ above average. The total escapement of 20,782 fish was well above the upper end of the recommended escapement goal range of 7,500 to 15,000 fish. The sockeye salmon escapement to Village Creek was 352 fish. An over flight of Nesketahin Lake in late September resulted in an estimate of only 150 spawners which verified the low count at Village Creek (average count is 2,804 fish).

## Chinook Salmon

The most reliable comparative Chinook salmon escapement index for the Alsek River drainage is the Klukshu River weir count. The final Chinook salmon weir count was 1,671 and escapement was 1,610 and were both more than $10 \%$ above average (Table 9). The 2011 escapement was near the middle of the escapement goal range of 1,100 to 2,300 Klukshu Chinook salmon.

## Coho Salmon

The Klukshu River coho salmon weir count was 2,119 and was average. As in past years, the weir count cannot serve as a reliable run strength indicator as the weir is normally removed well before the end of the coho salmon run to the Klukshu River.

## ENHANCEMENT ACTIVITIES

## Egg Collection

In 2011, sockeye salmon eggs were collected at Tahltan Lake on the Stikine River for the twenty-third year, and in the Tatsamenie Lake system on the Taku River, for the twentysecond year of this program.

## Tahltan Lake

The egg collection was contracted to Arc Environmental Ltd. for the sixteenth consecutive year. The egg-take goal at Tahltan Lake of 6.0 million eggs was achieved, with a total of 6.48 million eggs collected. As in 2010, the ability to reach the egg take goal in 2011 was largely due to the changes in methodology and additional resources that were utilized. Expanding on the success observed in 2009 with the short term holding of unripe female brood stock, it was decided that all female sockeye salmon captured during brood stock collection activities using traditional capture methodology (beach seining of the primary spawning site) would be held until ripe and then spawned. In past years, only ripe fish were held for spawning the following day. Again in 2011, an additional two person crew was used to access secondary spawning sites that had not been utilized in the past. Brood stock from the secondary spawning sites was collected using rod and reel technology. Through the additional efforts in 2011, $58 \%$ of the total females spawned were from short term holding and $15 \%$ were collected from the secondary sites. Without the additional efforts undertaken in 2011, it is estimated that less than 4.0 million eggs would have been collected. The last day of brood stock collection occurred on the 18th of September and the final egg take was completed on the 20th of September. This was the earliest completion date since the start of the program in 1989. It should be noted that ripe females were present earlier than normal which lent to the success of the egg collection.

## Tatsamenie Lake

B. Mercer and Associates Ltd was contracted to collect eggs. Tatsamenie Lake broodstock was captured for the seventeenth year at an adult enumeration weir located at the outlet of Tatsamenie Lake. Egg takes were initiated September 15th at Tatsamenie Lake. An estimated 2.05 million eggs were collected from 523 females and milt was collected from a like number of males. Tatsamenie Lake egg takes were completed on the 27 September. The receipt of two lots of Tatsamenie eggs was delayed by one day for safety reasons due to poor flying conditions.

## Trapper Lake

While an enhancement project at Little Trapper Lake was included in the TEPP, no eggs were collected due to the low adult escapement into Little Trapper Lake and no eggs were stocked into Big Trapper Lake as proposed under the terms of the TEPP. This project was operated with Northern Fund monies but will be reported in TBR reports.

## Incubation, Thermal Marking, and Fry Plants

The egg incubation and thermal-marking program at Snettisham Hatchery went smoothly in year 2010/2011. Snettisham hatchery is operated by DIPAC, a private aquaculture organization in Juneau. A cooperative agreement between ADF\&G and DIPAC provides for Snettisham hatchery to serve the needs of the joint TBR enhancement projects.

Incubation of 2010 brood eggs took place at Snettisham Hatchery and the resultant fry were transported to the appropriate systems from May 25 to June 12, 2011. There were 11 incubators lost to IHNV this year: 1.2 million and 1.0 million eggs assigned for release into Tahltan and Tuya lakes respectively. This was the largest loss of TBR eggs in the history of the program, representing $43 \%$ of the total Tahltan Lake egg take. There were no IHNV losses to the Tatsamenie stock.

The IHNV losses were the highest in the programs history; however the cumulative losses since 1989 are consistent with the history of sockeye salmon culture in Alaska. The enhancement subcommittee will be continuing to assess these losses and any future ones with regard to any changes in techniques that may be necessary to safeguard against this pathogen.

## Tahltan Lake

A total of 1.235 million fry from the 2010 Tahltan Lake sockeye salmon egg take was stocked back into that lake in 2011. Survival from green-egg to outplanted fry was $40 \%$. Fry outplanting took place on May 25 and 26.

## Tuya Lake

There were 1.245 million fry stocked in Tuya Lake on June 10 and 12. These fish were from eggs collected at Tahltan Lake in the fall of 2010. Survival from green-egg to outplanted fry was $44 \%$.

## Tatsamenie Lake

Approximately 84\% of the eggs collected in 2010 from Tatsamenie Lake survived to the fry stage at the Snettisham Hatchery in Alaska. Between May 25th and June 12th approximately 1.40 million sockeye salmon fry were stocked into Tatsamenie Lake. In addition, as part of an onshore extended rearing project, 198,000 fry which had been reared to 0.72 grams in the hatchery were released into four onshore rearing tanks located near the northeast end of the lake (on June 7th). These fish were released in two groups, one on August 1 and the other on August 14, at an average size of 2.62 and 4.0 grams, respectively. As was observed in 2010, a portion of these fish appeared to out-migrate almost immediately, rather than remaining in the lake to rear. Full evaluation of the success of this study will not be available until these fish return as adults.

## Sockeye Supplementation Evaluation Surveys

## Acoustic, Trawl, Beach seine and Limnological Sampling

Standard limnological surveys were conducted at Tatsamenie and Tahltan lakes. No surveys were conducted on Trapper or Tuya lakes. No hydroacoustic surveys were conducted in 2011.

## Thermal Mark Laboratories

## ADF\&G Thermal Mark Laboratory

During the 2011 season the ADFG thermal mark lab processed 19,600 sockeye salmon otoliths collected by ADFG and DFO staff as part of the U.S./Canada fry-stocking evaluation program. These collections came from commercial and test fisheries in both U.S. and Canadian waters on the Taku and Stikine rivers over an 11 -week period. In addition, several escapement samples were examined. The laboratory provided estimates on hatchery contributions for 86 distinct sampling collections. Estimates of the percentage of hatchery fish contributed to commercial fishery catches were provided to ADF\&G and DFO fishery managers 24 to 48 hours after samples arrived at the lab.

Final estimates of the contribution of enhanced fish to Alaskan fisheries were 29,122 Stikine River fish and 5,604 enhanced Taku River fish. Final estimates of contributions of enhanced fish to Canadian fisheries were 24,755 Stikine River fish and 1,878 enhanced Taku River fish.

## Canadian Thermal Mark Laboratory

Subsamples of juvenile and adult otolith samples collected at the study lakes during the 2011 season were being analyzed at the DFO thermal mark lab in Whitehorse. Results from otoliths collected from Tatsamenie broodstock result in an estimate of 1,861 thermally marked fish in that escapement. Other results will be used to estimate the number of marked fish in other escapement and in smolt projects.

## APPENDICES

## Standards

Large Chinook salmon are MEF length $\geq 660$
Unless otherwise stated Chinook salmon are large
Test fisheries for Chinook salmon became commercial assessment test fisheries starting in 2004
Data not available to estimate catches of Alaska Hatchery pink and chum salmon
All catches of Tahltan, Trapper, and Tatsamenie, unless otherwise noted, include both wild and hatchery fish.
Bold numbers are incomplete numbers

Appendix A. 1. Weekly harvest of Chinook salmon in the U.S. gillnet, troll, recreational, and subsistence and estimates of Stikine River bound Chinook salmon in District 108, 2011.

|  | Subsistence | D108 sport harvest |  |  | D108 gillnet harvest |  |  |  | D108 troll harvest |  |  | US total large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Large Stikine | Large total | Large nonStikine | Large Stikine | Nonlarge | Large total | Large nonStikine | Large Stikine | Large total | Large nonStikine | Large Stikine | Stikine harvest |
| 18 |  | 5 |  | 5 |  |  |  | 0 |  |  |  | 5 |
| 19 |  | 42 | 0 | 42 |  |  |  | 0 | 3 | 0 | 3 | 45 |
| 20 |  | 64 | 0 | 64 |  |  |  | 0 | 50 | 11 | 39 | 103 |
| 21 |  | 133 | 0 | 133 |  |  |  | 0 | 38 | 0 | 38 | 171 |
| 22 |  | 402 | 50 | 352 |  |  |  | 0 | 156 | 44 | 112 | 464 |
| 23 |  | 370 | 110 | 260 |  |  |  | 0 | 121 | 34 | 87 | 347 |
| 24 | 2 | 40 | 0 | 40 |  |  |  | 0 | 136 | 49 | 87 | 129 |
| 25 | 6 | 121 | 0 | 121 |  |  |  | 0 | 63 | 0 | 63 | 190 |
| 26 | 10 | 76 | 50 | 26 | 309 | 668 | 509 | 159 | 29 | 16 | 13 | 208 |
| 27 | 9 | 15 | 0 | 15 | 1,197 | 1,645 | 687 | 958 | 17 | 14 | 3 | 985 |
| 28 | 19 | 10 | 0 | 10 | 197 | 257 | 82 | 175 | 7 | 0 | 7 | 211 |
| 29 | 15 | 0 | 0 | 0 | 128 | 231 | 412 | 0 | 11 | 0 | 11 | 0 |
| Total | 61 | 1,278 | 210 | 1,068 | 1,831 | 2,801 | 1,690 | 1,292 | 631 | 168 | 463 | 2,884 |

Appendix A. 2. Weekly harvest of Chinook salmon in the Canadian commercial, Telegraph Aboriginal, and recreational fishery in the Stikine River, 2011.

| SW | LRCF |  |  |  |  |  | URCF |  | Aboriginal Telegraph |  | Tahltan sport fishery |  |  | Canada tota large Stikinє harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kept |  | Released |  | Estimated mortality (50\%) |  |  |  |  |  |  |  |  |  |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Retained | Nonlarge | Total |  |
| 20 | 106 | 16 |  |  |  |  |  |  |  |  |  |  |  | 106 |
| 21 | 169 | 42 |  |  |  |  |  |  |  |  |  |  |  | 169 |
| 22 | 78 | 27 |  |  |  |  |  |  |  |  |  |  |  | 78 |
| 23 |  |  |  |  |  |  |  |  | 1 | 2 |  |  |  | 1 |
| 24 |  |  |  |  |  |  |  |  | 21 | 5 |  |  |  | 21 |
| 25 |  |  | 0 | 1 | 0 | 1 |  |  | 98 | 45 |  |  |  | 98 |
| 26 | 386 | 327 | 11 | 22 | 6 | 11 |  |  | 76 | 8 |  |  |  | 468 |
| 27 | 260 | 170 | 2 | 14 | 1 | 7 |  |  | 172 | 65 | 18 | 7 | 18 | 451 |
| 28 | 560 | 548 | 32 | 47 | 16 | 24 | 2 | 14 | 58 | 33 | 18 | 8 | 18 | 654 |
| 29 | 96 | 76 | 0 | 7 | 0 | 4 | 0 | 0 | 38 | 26 | 17 | 8 | 17 | 151 |
| 30 | 63 | 40 | 3 | 3 | 2 | 2 | 0 | 0 | 21 | 11 |  |  |  | 86 |
| 31 | 9 | 12 | 0 | 5 | 0 | 3 |  |  | 21 | 6 |  |  |  | 30 |
| 32 | 4 | 2 | 2 | 1 | 1 | 1 |  |  | 6 | 12 |  |  |  | 11 |
| 33 | 4 | 0 | 8 | 0 | 4 | 0 |  |  | 3 | 5 |  |  |  | 11 |
| 34 | 2 | 0 |  |  |  |  |  |  | 0 | 0 |  |  |  | 2 |
| 35 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 36 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 37 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Total kept | 1,737 | 1,260 | 58 | 100 | 29 | 50 | 2 | 14 | 515 | 218 | 53 | 23 | 53 | 2,336 |
| Total harvest | 1,795 | 1,360 |  |  |  |  |  |  |  |  |  |  |  | 2,336 |
| Total harvest + mortality | 1,766 | 1,310 |  |  |  |  |  |  |  |  |  |  |  |  |

Appendix A. 3. Weekly harvest of Chinook salmon in the Canadian test fisheries 2011.

| SW | Drift |  | Set |  | Commercial license |  | Tuya |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |
| 19 |  |  |  |  |  |  |  |  | 0 | 0 |
| 20 |  |  |  |  |  |  |  |  | 0 | 0 |
| 21 |  |  |  |  |  |  |  |  | 0 | 0 |
| 22 |  |  |  |  |  |  |  |  | 0 | 0 |
| 23 |  |  |  |  | 136 | 33 |  |  | 136 | 33 |
| 24 |  |  |  |  | 314 | 84 |  |  | 314 | 84 |
| 25 |  |  |  |  | 348 | 103 |  |  | 348 | 103 |
| 26 | 8 | 13 |  |  |  |  |  |  | 8 | 13 |
| 27 | 8 | 11 |  |  |  |  |  |  | 8 | 11 |
| 28 | 2 | 1 |  |  |  |  |  |  | 2 | 1 |
| 29 | 3 | 2 | 0 | 1 |  |  |  |  | 3 | 3 |
| 30 | 0 | 1 | 0 | 0 |  |  | 6 | 2 | 6 | 3 |
| 31 | 1 | 0 | 0 | 0 |  |  | 7 | 4 | 8 | 4 |
| 32 | 0 | 0 | 0 | 0 |  |  |  |  | 0 | 0 |
| 33 | 0 | 0 | 0 | 0 |  |  |  |  | 0 | 0 |
| 34 | 0 | 0 | 0 | 0 |  |  |  |  | 0 | 0 |
| 35 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 36 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 37 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 38 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 39 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 40 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 41 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| 42 | 0 | 0 |  |  |  |  |  |  | 0 | 0 |
| Total | 22 | 28 | 0 | 1 | 799 | 219 | 13 | 6 | 834 | 254 |

Appendix A. 4. Weekly harvest of sockeye salmon in the Alaskan District 106 and 108
fisheries, 2011.

|  |  |  | D106-30 |  |  |  | D106-41/42 |  |  |  | D108 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Subsistence | D106 Total | Harvest | Permits | Days | Permit days | Harvest | Permits | Days | Permit days | Harvest | Permits | Days | Permit days |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 39 | 2,030 | 481 | 25 | 2.0 | 50 | 1,549 | 50 | 2.0 | 100 |  |  |  | 0 |
| 26 | 146 | 12,689 | 2,072 | 22 | 3.0 | 66 | 10,617 | 42 | 3.0 | 126 | 5,360 | 32 | 3.0 | 96 |
| 27 | 266 | 32,120 | 5,775 | 18 | 4.0 | 72 | 26,345 | 42 | 4.0 | 168 | 19,983 | 49 | 4.0 | 196 |
| 28 | 525 | 18,465 | 4,482 | 27 | 4.0 | 108 | 13,983 | 44 | 4.0 | 176 | 10,699 | 48 | 4.0 | 192 |
| 29 | 495 | 13,836 | 5,471 | 29 | 2.0 | 58 | 8,365 | 36 | 2.0 | 72 | 4,954 | 30 | 2.0 | 60 |
| 30 | 225 | 11,844 | 6,227 | 33 | 2.0 | 66 | 5,617 | 25 | 2.0 | 50 | 4,279 | 61 | 3.0 | 183 |
| 31 | 25 | 13,290 | 5,041 | 29 | 2.0 | 58 | 8,249 | 30 | 2.0 | 60 | 3,147 | 72 | 3.0 | 216 |
| 32 | 16 | 18,455 | 10,071 | 41 | 3.0 | 123 | 8,384 | 40 | 3.0 | 120 | 1,550 | 65 | 3.0 | 195 |
| 33 | 3 | 17,749 | 12,205 | 49 | 3.0 | 147 | 5,544 | 31 | 3.0 | 93 | 930 | 57 | 3.0 | 171 |
| 34 | 0 | 2,061 | 836 | 21 | 2.0 | 42 | 1225 | 38 | 2.0 | 76 | 249 | 45 | 2.0 | 90 |
| 35 | 0 | 1,355 | 557 | 20 | 2.0 | 40 | 798 | 36 | 2.0 | 72 | 146 | 33 | 2.0 | 66 |
| 36 | 0 | 1,474 | 636 | 25 | 2.0 | 50 | 838 | 57 | 2.0 | 114 | 118 | 29 | 2.0 | 58 |
| 37 | 0 | 472 | 154 | 21 | 3.0 | 63 | 318 | 55 | 3.0 | 165 | 54 | 48 | 3.0 | 144 |
| 38 | 0 | 218 | 105 | 51 | 3.0 | 153 | 113 | 55 | 3.0 | 165 | 6 | 21 | 3.0 | 63 |
| 39 | 0 | 10 | 0 | 6 | 2.0 | 12 | 10 | 19 | 2.0 | 38 | 3 | 27 | 2.0 | 54 |
| 40 | 0 | 1 | 0 | 13 | 2.0 |  | 1 | 6 | 2.0 | 12 | 0 | 11 | 2.0 | 22 |
| Total | 1,740 | 146,069 | 54,113 | 430 | 41 | 1,108 | 91,956 | 606 | 41 | 1,607 | 51,478 | 628 | 41 | 1,806 |

## Appendix A. 5. Weekly stock proportions of sockeye salmon harvested in the Alaskan D106 commercial drift gillnet fishery, 2011.

| Estimates are based on scale pattern analysis |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  |  |  | CPUE of Stikine Fish |  |  |  |
| SW | Alaska | Canada | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan | All Tahltan | Tuya | Mainstem | Total |
| 25 | 0.637 | 0.043 | 0.101 | 0.162 | 0.056 | 0.320 | 0.099 | 0.002 | 0.020 | 0.046 | 0.019 | 0.028 |
| 26 | 0.490 | 0.126 | 0.223 | 0.125 | 0.035 | 0.384 | 0.135 | 0.088 | 0.223 | 0.177 | 0.057 | 0.165 |
| 27 | 0.485 | 0.053 | 0.244 | 0.148 | 0.071 | 0.462 | 0.120 | 0.124 | 0.486 | 0.416 | 0.231 | 0.397 |
| 28 | 0.658 | 0.162 | 0.064 | 0.089 | 0.028 | 0.181 | 0.048 | 0.016 | 0.063 | 0.123 | 0.045 | 0.077 |
| 29 | 0.769 | 0.067 | 0.058 | 0.043 | 0.063 | 0.164 | 0.031 | 0.028 | 0.095 | 0.100 | 0.168 | 0.116 |
| 30 | 0.790 | 0.094 | 0.030 | 0.050 | 0.035 | 0.116 | 0.016 | 0.015 | 0.048 | 0.112 | 0.091 | 0.079 |
| 31 | 0.799 | 0.123 | 0.035 | 0.001 | 0.043 | 0.078 | 0.009 | 0.026 | 0.060 | 0.001 | 0.119 | 0.057 |
| 32 | 0.831 | 0.108 | 0.002 | 0.001 | 0.059 | 0.062 | 0.002 | 0.000 | 0.003 | 0.002 | 0.117 | 0.032 |
| 33 | 0.844 | 0.120 | 0.001 | 0.005 | 0.029 | 0.036 | 0.001 | 0.000 | 0.002 | 0.009 | 0.059 | 0.019 |
| 34 | 0.774 | 0.114 | 0.000 | 0.015 | 0.097 | 0.112 | 0.000 | 0.000 | 0.000 | 0.006 | 0.042 | 0.013 |
| 35 | 0.806 | 0.092 | 0.000 | 0.015 | 0.088 | 0.103 | 0.000 | 0.000 | 0.000 | 0.004 | 0.027 | 0.008 |
| 36 | 0.807 | 0.093 | 0.000 | 0.015 | 0.086 | 0.101 | 0.000 | 0.000 | 0.000 | 0.003 | 0.019 | 0.006 |
| 37 | 0.801 | 0.087 | 0.000 | 0.016 | 0.096 | 0.112 | 0.000 | 0.000 | 0.000 | 0.001 | 0.005 | 0.002 |
| 38 | 0.809 | 0.095 | 0.000 | 0.014 | 0.081 | 0.095 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 39 | 0.784 | 0.068 | 0.000 | 0.020 | 0.128 | 0.148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 40 | 0.784 | 0.068 | 0.000 | 0.020 | 0.128 | 0.148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.689 | 0.101 | 0.094 | 0.066 | 0.050 | 0.211 | 0.051 | 0.043 | 0.431 | 0.305 | 0.264 | 1.000 |
| 25 | 1,294 | 87 | 206 | 329 | 114 | 649 | 201 | 5 | 1.4 | 2.2 | 0.8 | 4.3 |
| 26 | 6,218 | 1,604 | 2,834 | 1,589 | 443 | 4,867 | 1,714 | 1,121 | 15.0 | 8.4 | 2.3 | 25.7 |
| 27 | 15,568 | 1,708 | 7,830 | 4,740 | 2,275 | 14,845 | 3,850 | 3,979 | 32.6 | 19.7 | 9.5 | 61.9 |
| 28 | 12,142 | 2,984 | 1,183 | 1,640 | 516 | 3,339 | 895 | 288 | 4.2 | 5.9 | 1.8 | 11.9 |
| 29 | 10,635 | 927 | 805 | 598 | 871 | 2,274 | 424 | 381 | 6.4 | 4.7 | 6.9 | 18.0 |
| 30 | 9,360 | 1,110 | 360 | 595 | 419 | 1,374 | 184 | 177 | 3.2 | 5.3 | 3.7 | 12.3 |
| 31 | 10,614 | 1,639 | 465 | 7 | 565 | 1,037 | 115 | 351 | 4.0 | 0.1 | 4.9 | 8.9 |
| 32 | 15,332 | 1,992 | 40 | 18 | 1,093 | 1,151 | 40 | 0 | 0.2 | 0.1 | 4.8 | 5.0 |
| 33 | 14,988 | 2,124 | 26 | 94 | 516 | 637 | 26 | 0 | 0.1 | 0.4 | 2.4 | 3.0 |
| 34 | 1,595 | 236 | 0 | 30 | 199 | 230 | 0 | 0 | 0.0 | 0.3 | 1.7 | 2.0 |
| 35 | 1,092 | 124 | 0 | 20 | 119 | 139 | 0 | 0 | 0.0 | 0.2 | 1.1 | 1.3 |
| 36 | 1,189 | 137 | 0 | 22 | 127 | 148 | 0 | 0 | 0.0 | 0.1 | 0.8 | 0.9 |
| 37 | 378 | 41 | 0 | 8 | 45 | 53 | 0 | 0 | 0.0 | 0.0 | 0.2 | 0.2 |
| 38 | 176 | 21 | 0 | 3 | 18 | 21 | 0 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 39 | 8 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 100,590 | 14,734 | 13,750 | 9,693 | 7,323 | 30,765 | 7,449 | 6,301 | 67.1 | 47.5 | 41.1 | 155.7 |

Appendix A. 6. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2011.

| Estimates are based on scale pattern analysis |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  |  |  | CPUE of Stikine Fish |  |  |  |
| SW | Alaska | Canada | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan | All Tahltan | Tuya | Mainstem | Total |
| 25 | 0.561 | 0.028 | 0.130 | 0.209 | 0.072 | 0.411 | 0.130 | 0.000 | 0.020 | 0.048 | 0.020 | 0.028 |
| 26 | 0.426 | 0.128 | 0.259 | 0.147 | 0.040 | 0.446 | 0.156 | 0.103 | 0.213 | 0.185 | 0.060 | 0.166 |
| 27 | 0.401 | 0.044 | 0.294 | 0.176 | 0.085 | 0.555 | 0.145 | 0.149 | 0.450 | 0.411 | 0.236 | 0.385 |
| 28 | 0.582 | 0.199 | 0.079 | 0.108 | 0.032 | 0.219 | 0.063 | 0.017 | 0.062 | 0.128 | 0.045 | 0.077 |
| 29 | 0.656 | 0.088 | 0.096 | 0.065 | 0.094 | 0.255 | 0.051 | 0.046 | 0.109 | 0.112 | 0.194 | 0.131 |
| 30 | 0.668 | 0.152 | 0.062 | 0.062 | 0.056 | 0.180 | 0.030 | 0.031 | 0.068 | 0.104 | 0.112 | 0.090 |
| 31 | 0.729 | 0.159 | 0.055 | 0.000 | 0.057 | 0.112 | 0.013 | 0.043 | 0.074 | 0.000 | 0.139 | 0.068 |
| 32 | 0.752 | 0.173 | 0.002 | 0.000 | 0.073 | 0.076 | 0.002 | 0.000 | 0.002 | 0.000 | 0.090 | 0.023 |
| 33 | 0.828 | 0.152 | 0.005 | 0.000 | 0.015 | 0.020 | 0.005 | 0.000 | 0.003 | 0.000 | 0.016 | 0.005 |
| 34 | 0.731 | 0.108 | 0.000 | 0.019 | 0.142 | 0.161 | 0.000 | 0.000 | 0.000 | 0.005 | 0.040 | 0.012 |
| 35 | 0.784 | 0.068 | 0.000 | 0.020 | 0.128 | 0.148 | 0.000 | 0.000 | 0.000 | 0.003 | 0.025 | 0.007 |
| 36 | 0.784 | 0.068 | 0.000 | 0.020 | 0.128 | 0.148 | 0.000 | 0.000 | 0.000 | 0.002 | 0.017 | 0.005 |
| 37 | 0.784 | 0.068 | 0.000 | 0.020 | 0.128 | 0.148 | 0.000 | 0.000 | 0.000 | 0.001 | 0.004 | 0.001 |
| 38 | 0.784 | 0.068 | 0.000 | 0.020 | 0.128 | 0.148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| 39 | 0.784 | 0.068 | 0.000 | 0.020 | 0.128 | 0.148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 40 | 0.784 | 0.068 | 0.000 | 0.020 | 0.128 | 0.148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.574 | 0.118 | 0.146 | 0.098 | 0.065 | 0.309 | 0.079 | 0.067 | 0.453 | 0.296 | 0.251 | 1.000 |
| 25 | 869 | 43 | 201 | 324 | 112 | 637 | 201 | 0 | 2.0 | 3.2 | 1.1 | 6.4 |
| 26 | 4,521 | 1,360 | 2,751 | 1,557 | 427 | 4,735 | 1,653 | 1,098 | 21.8 | 12.4 | 3.4 | 37.6 |
| 27 | 10,569 | 1,160 | 7,740 | 4,626 | 2,250 | 14,616 | 3,823 | 3,918 | 46.1 | 27.5 | 13.4 | 87.0 |
| 28 | 8,136 | 2,778 | 1,108 | 1,509 | 451 | 3,069 | 878 | 231 | 6.3 | 8.6 | 2.6 | 17.4 |
| 29 | 5,490 | 738 | 805 | 542 | 790 | 2,137 | 424 | 381 | 11.2 | 7.5 | 11.0 | 29.7 |
| 30 | 3,752 | 853 | 347 | 348 | 316 | 1,011 | 170 | 177 | 6.9 | 7.0 | 6.3 | 20.2 |
| 31 | 6,013 | 1,309 | 455 | 0 | 472 | 927 | 104 | 351 | 7.6 | 0.0 | 7.9 | 15.5 |
| 32 | 6,303 | 1,447 | 20 | 0 | 614 | 634 | 20 | 0 | 0.2 | 0.0 | 5.1 | 5.3 |
| 33 | 4,592 | 844 | 26 | 0 | 82 | 108 | 26 | 0 | 0.3 | 0.0 | 0.9 | 1.2 |
| 34 | 896 | 132 | 0 | 24 | 174 | 198 | 0 | 0 | 0.0 | 0.3 | 2.3 | 2.6 |
| 35 | 625 | 55 | 0 | 16 | 102 | 118 | 0 | 0 | 0.0 | 0.2 | 1.4 | 1.6 |
| 36 | 657 | 57 | 0 | 17 | 107 | 124 | 0 | 0 | 0.0 | 0.1 | 0.9 | 1.1 |
| 37 | 249 | 22 | 0 | 6 | 41 | 47 | 0 | 0 | 0.0 | 0.0 | 0.2 | 0.3 |
| 38 | 89 | 8 | 0 | 2 | 14 | 17 | 0 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 39 | 8 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 52,769 | 10,806 | 13,454 | 8,972 | 5,954 | 28,380 | 7,300 | 6,155 | 102.4 | 66.9 | 56.7 | 226.0 |

Appendix A. 7. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2011.

| Estimates are based on scale pattern analysis |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  |  |  | CPUE of Stikine Fish |  |  |  |
| SW | Alaska | Canada | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan | All Tahltan | Tuya | Mainstem | Total |
| 25 | 0.884 | 0.090 | 0.009 | 0.011 | 0.005 | 0.026 | 0.000 | 0.009 | 0.024 | 0.011 | 0.004 | 0.009 |
| 26 | 0.819 | 0.118 | 0.040 | 0.015 | 0.008 | 0.063 | 0.029 | 0.011 | 0.331 | 0.051 | 0.017 | 0.073 |
| 27 | 0.866 | 0.095 | 0.015 | 0.020 | 0.004 | 0.040 | 0.005 | 0.011 | 0.324 | 0.168 | 0.025 | 0.116 |
| 28 | 0.894 | 0.046 | 0.017 | 0.029 | 0.014 | 0.060 | 0.004 | 0.013 | 0.180 | 0.130 | 0.042 | 0.091 |
| 29 | 0.940 | 0.035 | 0.000 | 0.010 | 0.015 | 0.025 | 0.000 | 0.000 | 0.000 | 0.102 | 0.099 | 0.086 |
| 30 | 0.901 | 0.041 | 0.002 | 0.040 | 0.016 | 0.058 | 0.002 | 0.000 | 0.054 | 0.399 | 0.109 | 0.201 |
| 31 | 0.913 | 0.065 | 0.002 | 0.001 | 0.018 | 0.022 | 0.002 | 0.000 | 0.045 | 0.013 | 0.113 | 0.069 |
| 32 | 0.897 | 0.054 | 0.002 | 0.002 | 0.048 | 0.051 | 0.002 | 0.000 | 0.042 | 0.016 | 0.275 | 0.154 |
| 33 | 0.852 | 0.105 | 0.000 | 0.008 | 0.036 | 0.043 | 0.000 | 0.000 | 0.000 | 0.068 | 0.209 | 0.131 |
| 34 | 0.837 | 0.124 | 0.000 | 0.008 | 0.030 | 0.038 | 0.000 | 0.000 | 0.000 | 0.017 | 0.043 | 0.028 |
| 35 | 0.837 | 0.124 | 0.000 | 0.008 | 0.030 | 0.038 | 0.000 | 0.000 | 0.000 | 0.012 | 0.030 | 0.020 |
| 36 | 0.837 | 0.124 | 0.000 | 0.008 | 0.030 | 0.038 | 0.000 | 0.000 | 0.000 | 0.011 | 0.027 | 0.018 |
| 37 | 0.837 | 0.124 | 0.000 | 0.008 | 0.030 | 0.038 | 0.000 | 0.000 | 0.000 | 0.002 | 0.005 | 0.003 |
| 38 | 0.837 | 0.124 | 0.000 | 0.008 | 0.030 | 0.038 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 |
| 39 | 0.837 | 0.124 | 0.000 | 0.008 | 0.030 | 0.038 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.884 | 0.073 | 0.005 | 0.013 | 0.025 | 0.044 | 0.003 | 0.003 | 0.140 | 0.343 | 0.517 | 1.000 |
| 25 | 425 | 43 | 5 | 5 | 3 | 12 | 0 | 5 | 0.1 | 0.1 | 0.1 | 0.2 |
| 26 | 1,697 | 244 | 84 | 31 | 16 | 131 | 61 | 23 | 1.3 | 0.5 | 0.2 | 2.0 |
| 27 | 4,999 | 548 | 89 | 113 | 26 | 228 | 28 | 62 | 1.2 | 1.6 | 0.4 | 3.2 |
| 28 | 4,006 | 206 | 74 | 131 | 65 | 270 | 18 | 57 | 0.7 | 1.2 | 0.6 | 2.5 |
| 29 | 5,144 | 190 | 0 | 56 | 81 | 137 | 0 | 0 | 0.0 | 1.0 | 1.4 | 2.4 |
| 30 | 5,608 | 257 | 14 | 247 | 102 | 363 | 14 | 0 | 0.2 | 3.7 | 1.5 | 5.5 |
| 31 | 4,601 | 330 | 10 | 7 | 93 | 110 | 10 | 0 | 0.2 | 0.1 | 1.6 | 1.9 |
| 32 | 9,029 | 545 | 20 | 18 | 479 | 517 | 20 | 0 | 0.2 | 0.1 | 3.9 | 4.2 |
| 33 | 10,396 | 1,280 | 0 | 94 | 434 | 528 | 0 | 0 | 0.0 | 0.6 | 3.0 | 3.6 |
| 34 | 700 | 104 | 0 | 7 | 25 | 32 | 0 | 0 | 0.0 | 0.2 | 0.6 | 0.8 |
| 35 | 466 | 69 | 0 | 5 | 17 | 21 | 0 | 0 | 0.0 | 0.1 | 0.4 | 0.5 |
| 36 | 532 | 79 | 0 | 5 | 19 | 24 | 0 | 0 | 0.0 | 0.1 | 0.4 | 0.5 |
| 37 | 129 | 19 | 0 | 1 | 5 | 6 | 0 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 38 | 88 | 13 | 0 | 1 | 3 | 4 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 47,820 | 3,928 | 296 | 721 | 1,368 | 2,385 | 150 | 146 | 3.8 | 9.4 | 14.2 | 27.4 |

## Appendix A. 8. Weekly stock proportions sockeye salmon harvested in the Alaskan <br> District 108 commercial drift gillnet fishery, 2011.

| Estimates are based on scale pattern analysis |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  |  |  | CPUE of Stikine Fish |  |  |  |
| SW | Alaska | Canada | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan | All Tahltan | Tuya | Mainstem | Total |
| 25 |  |  |  |  |  | 0.000 |  | 0.000 |  |  |  |  |
| 26 | 0.047 | 0.011 | 0.753 | 0.114 | 0.074 | 0.942 | 0.323 | 0.430 | 0.272 | 0.132 | 0.052 | 0.186 |
| 27 | 0.133 | 0.019 | 0.615 | 0.185 | 0.047 | 0.848 | 0.268 | 0.348 | 0.406 | 0.392 | 0.061 | 0.306 |
| 28 | 0.126 | 0.072 | 0.418 | 0.181 | 0.204 | 0.803 | 0.161 | 0.257 | 0.151 | 0.209 | 0.143 | 0.158 |
| 29 | 0.244 | 0.050 | 0.271 | 0.129 | 0.306 | 0.706 | 0.117 | 0.154 | 0.145 | 0.221 | 0.318 | 0.206 |
| 30 | 0.177 | 0.102 | 0.090 | 0.078 | 0.553 | 0.721 | 0.042 | 0.048 | 0.014 | 0.038 | 0.163 | 0.060 |
| 31 | 0.188 | 0.054 | 0.072 | 0.018 | 0.669 | 0.758 | 0.038 | 0.034 | 0.007 | 0.005 | 0.123 | 0.039 |
| 32 | 0.401 | 0.026 | 0.050 | 0.009 | 0.514 | 0.573 | 0.050 | 0.000 | 0.003 | 0.001 | 0.051 | 0.016 |
| 33 | 0.376 | 0.034 | 0.065 | 0.010 | 0.516 | 0.591 | 0.065 | 0.000 | 0.002 | 0.001 | 0.035 | 0.011 |
| 34 | 0.350 | 0.034 | 0.067 | 0.007 | 0.542 | 0.616 | 0.067 | 0.000 | 0.001 | 0.000 | 0.019 | 0.006 |
| 35 | 0.350 | 0.034 | 0.012 | 0.007 | 0.596 | 0.616 | 0.000 | 0.012 | 0.000 | 0.000 | 0.017 | 0.005 |
| 36 | 0.350 | 0.034 | 0.012 | 0.007 | 0.596 | 0.616 | 0.000 | 0.012 | 0.000 | 0.000 | 0.015 | 0.004 |
| 37 | 0.350 | 0.034 | 0.012 | 0.007 | 0.596 | 0.616 | 0.000 | 0.012 | 0.000 | 0.000 | 0.003 | 0.001 |
| 38 | 0.350 | 0.034 | 0.012 | 0.007 | 0.596 | 0.616 | 0.000 | 0.012 | 0.000 | 0.000 | 0.001 | 0.000 |
| 39 | 0.350 | 0.034 | 0.012 | 0.007 | 0.596 | 0.616 | 0.000 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 | 0.350 | 0.034 | 0.012 | 0.007 | 0.596 | 0.616 | 0.000 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.155 | 0.042 | 0.445 | 0.142 | 0.216 | 0.803 | 0.191 | 0.254 | 0.547 | 0.171 | 0.282 | 1.000 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| 26 | 252 | 60 | 4,037 | 613 | 398 | 5,048 | 1,730 | 2,307 | 42.1 | 6.4 | 4.1 | 52.6 |
| 27 | 2,658 | 371 | 12,299 | 3,706 | 949 | 16,953 | 5,353 | 6,946 | 62.7 | 18.9 | 4.8 | 86.5 |
| 28 | 1,344 | 765 | 4,471 | 1,934 | 2,186 | 8,590 | 1,719 | 2,752 | 23.3 | 10.1 | 11.4 | 44.7 |
| 29 | 1,208 | 250 | 1,341 | 639 | 1,515 | 3,496 | 580 | 762 | 22.4 | 10.7 | 25.3 | 58.3 |
| 30 | 758 | 436 | 384 | 333 | 2,368 | 3,085 | 178 | 205 | 2.1 | 1.8 | 12.9 | 16.9 |
| 31 | 592 | 169 | 226 | 56 | 2,105 | 2,386 | 119 | 106 | 1.0 | 0.3 | 9.7 | 11.0 |
| 32 | 622 | 41 | 77 | 14 | 796 | 888 | 77 | 0 | 0.4 | 0.1 | 4.1 | 4.6 |
| 33 | 349 | 32 | 61 | 9 | 480 | 549 | 61 | 0 | 0.4 | 0.1 | 2.8 | 3.2 |
| 34 | 87 | 9 | 17 | 2 | 135 | 153 | 17 | 0 | 0.2 | 0.0 | 1.5 | 1.7 |
| 35 | 51 | 5 | 2 | 1 | 87 | 90 | 0 | 2 | 0.0 | 0.0 | 1.3 | 1.4 |
| 36 | 41 | 4 | 1 | 1 | 70 | 73 | 0 | 1 | 0.0 | 0.0 | 1.2 | 1.3 |
| 37 | 19 | 2 | 1 | 0 | 32 | 33 | 0 | 1 | 0.0 | 0.0 | 0.2 | 0.2 |
| 38 | 2 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 39 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 7,985 | 2,143 | 22,916 | 7,307 | 11,127 | 41,351 | 9,834 | 13,083 | 154.6 | 48.3 | 79.5 | 282.4 |

Appendix A. 9. Weekly sockeye salmon harvest and effort in the Canadian commercial and assessment fisheries in the lower Stikine River, 2011.

| SW | LRCF |  |  |  | URCF | Telegraph <br> Aboriginal | Drift Net Test |  | Set Net Test |  | Comemercial Liscense |  | $\begin{aligned} & \hline \text { Test } \\ & \text { Total } \\ & \hline \end{aligned}$ | Commercial Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Harvest | Permits | Days | Permit days |  |  | Harvest | \# drifts | Harvest | hours | Harvest | Permits |  |  |
| 19 |  |  |  | 0.0 |  |  |  |  |  |  |  |  | 0 | 0 |
| 20 |  |  |  | 0.0 |  |  |  |  |  |  |  |  | 0 | 0 |
| 21 |  |  |  | 0.0 |  |  |  |  |  |  |  |  | 0 | 0 |
| 22 |  |  |  | 0.0 |  |  |  |  |  |  |  |  | 0 | 0 |
| 23 |  |  |  | 0.0 |  | 0 |  |  |  |  | 1 | 19 | 1 | 0 |
| 24 |  |  |  | 0.0 |  | 0 |  |  |  |  | 0 | 19 | 0 | 0 |
| 25 |  |  |  | 0.0 |  | 13 |  |  |  |  | 20 | 19 | 20 | 13 |
| 26 | 3,484 | 19.0 | 2.0 | 38.0 |  | 7 | 38 | 42 |  |  |  |  | 38 | 3491 |
| 27 | 3,870 | 17.0 | 3.0 | 51.0 |  | 158 | 112 | 42 |  |  |  |  | 112 | 4028 |
| 28 | 18,564 | 17.2 | 5.0 | 86.0 | 29 | 1,034 | 54 | 21 |  |  |  |  | 54 | 19627 |
| 29 | 4,930 | 17.0 | 2.0 | 34.0 | 376 | 2,579 | 115 | 63 | 763 | 86.5 |  |  | 878 | 7885 |
| 30 | 6,779 | 18.3 | 3.0 | 55.0 | 567 | 1,706 | 93 | 42 | 695 | 72.0 |  |  | 788 | 9052 |
| 31 | 3,431 | 18.5 | 2.0 | 37.0 |  | 820 | 97 | 42 | 432 | 57.5 |  |  | 529 | 4251 |
| 32 | 4,069 | 19.0 | 3.0 | 57.0 |  | 407 | 41 | 42 | 161 | 23.5 |  |  | 202 | 4476 |
| 33 | 1,642 | 18.0 | 2.0 | 36.0 |  | 156 | 30 | 56 | 190 | 48.0 |  |  | 220 | 1798 |
| 34 | 482 | 15.0 | 3.0 | 45.0 |  | 13 | 5 | 42 | 54 | 47.9 |  |  | 59 | 495 |
| 35 | 102 | 5.6 | 7.0 | 39.0 |  |  | 3 | 56 |  |  |  |  | 3 | 102 |
| 36 | 220 | 12 | 7 | 87.0 |  |  | 2 | 42 |  |  |  |  | 2 | 220 |
| 37 | 2 | 7 | 2 | 14.0 |  |  | 0 | 42 | 55 | 38.0 |  |  | 93 | 2 |
| 38 |  |  |  |  |  |  | 0 | 42 | 37 | 51.0 |  |  | 88 | 0 |
| 39 |  |  |  |  |  |  | 0 | 98 | 57 | 86.0 |  |  | 143 | 0 |
| 40 |  |  |  |  |  |  | 0 | 84 | 36 | 175.0 |  |  | 211 | 0 |
| 41 |  |  |  |  |  |  | 0 | 84 | 45 | 230.0 |  |  | 45 | 0 |
| 42 |  |  |  |  |  |  | 0 | 42 |  |  |  |  | 0 | 0 |
| Total | 47,575 |  | 41.0 | 579.0 | 972 | 6,893 | 590 | 882 | 2,525 | 915 | 21 | 57 | 3,486 | 55,440 |

Appendix A. 10. Weekly sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery in the lower Stikine River, 2011.

|  | Porportion |  |  |  |  | Harvest |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Small Egg | AllTahltan | Tuya | Mainstem | TahltanEnhance | AllTahltan | Tuya | Mainstem | WildTahltan | TahltanEnhance |
| 19 |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 |  |  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| 25 | 0.930 | 0.793 | 0.186 | 0.021 | 0.303 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0.933 | 0.793 | 0.186 | 0.021 | 0.303 | 2,763 | 648 | 73 | 1,707 | 1,056 |
| 27 | 0.981 | 0.744 | 0.210 | 0.046 | 0.310 | 2,878 | 814 | 177 | 1,679 | 1,200 |
| 28 | 0.936 | 0.632 | 0.265 | 0.103 | 0.228 | 11,724 | 4,928 | 1,912 | 7,500 | 4,225 |
| 29 | 0.772 | 0.446 | 0.335 | 0.219 | 0.207 | 2,200 | 1,653 | 1,078 | 1,180 | 1,019 |
| 30 | 0.543 | 0.380 | 0.223 | 0.397 | 0.150 | 2,578 | 1,511 | 2,689 | 1,563 | 1,015 |
| 31 | 0.250 | 0.251 | 0.090 | 0.659 | 0.057 | 860 | 309 | 2,262 | 664 | 196 |
| 32 | 0.147 | 0.115 | 0.045 | 0.840 | 0.041 | 467 | 183 | 3,419 | 300 | 166 |
| 33 | 0.129 | 0.035 | 0.033 | 0.932 | 0.029 | 57 | 55 | 1,530 | 9 | 48 |
| 34 | 0.100 | 0.008 | 0.010 | 0.981 | 0.000 | 4 | 5 | 473 | 4 | 0 |
| 35 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 102 | 0 | 0 |
| 36 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 220 | 0 | 0 |
| 37 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 2 | 0 | 0 |
| Total |  |  |  |  |  | 23,530 | 10,106 | 13,939 | 14,606 | 8,924 |
| Proportion |  |  |  |  |  | 0.495 | 0.212 | 0.293 | 0.307 | 0.188 |
|  | Harvest/Effort below Porcupine |  |  | CPUE |  |  |  |  |  |  |
| SW | Sockeye | Permit Day |  | Total | Small Egg | AllTahltan | Tuya | Mainstem | WildTahltan | TahltanEnhance |
| 19 | 0 | 0.0 |  |  |  |  |  |  |  |  |
| 20 | 0 | 0.0 |  |  |  |  |  |  |  |  |
| 21 | 0 | 0.0 |  |  |  |  |  |  |  |  |
| 22 | 0 | 0.0 |  |  |  |  |  |  |  |  |
| 23 | 0 | 0.0 |  |  |  |  |  |  |  |  |
| 24 | 0 | 0.0 |  |  |  |  |  |  |  |  |
| 25 | 0 | 0.0 |  |  |  |  |  |  |  |  |
| 26 | 3,484 | 38.0 |  | 91.684 | 85.531 | 72.703 | 17.054 | 1.927 | 44.920 | 27.783 |
| 27 | 3,870 | 51.0 |  | 75.882 | 74.414 | 56.436 | 15.968 | 3.478 | 32.913 | 23.524 |
| 28 | 18,564 | 86.0 |  | 215.860 | 202.100 | 136.326 | 57.302 | 22.233 | 87.203 | 49.122 |
| 29 | 4,930 | 34.0 |  | 145.000 | 111.962 | 64.693 | 48.608 | 31.699 | 34.717 | 29.976 |
| 30 | 6,779 | 55.0 |  | 123.277 | 66.983 | 46.888 | 27.482 | 48.907 | 28.424 | 18.464 |
| 31 | 3,431 | 37.0 |  | 92.730 | 23.182 | 23.236 | 8.349 | 61.144 | 17.951 | 5.285 |
| 32 | 4,069 | 57.0 |  | 71.386 | 10.470 | 8.184 | 3.212 | 59.989 | 5.271 | 2.914 |
| 33 | 1,642 | 36.0 |  | 45.611 | 5.895 | 1.583 | 1.528 | 42.500 | 0.253 | 1.330 |
| 34 | 482 | 45.0 |  | 10.711 | 1.071 | 0.089 | 0.111 | 10.511 | 0.089 | 0.000 |
| 35 | 102 | 39.0 |  | 2.616 | 0.000 | 0.000 | 0.000 | 2.616 | 0.000 | 0.000 |
| 36 | 220 | 87.0 |  | 2.528 | 0.000 | 0.000 | 0.000 | 2.528 | 0.000 | 0.000 |
| 37 | 2 | 14.0 |  | 0.143 | 0.000 | 0.000 | 0.000 | 0.143 | 0.000 | 0.000 |
| Total | 47,575 | 579 |  | 877.43 | 581.61 | 410.14 | 179.61 | 287.68 | 251.74 | 158.40 |
| Propo | rtion |  |  |  | 0.663 | 0.467 | 0.205 | 0.328 | 0.287 | 0.181 |

Appendix A. 11. Harvest by stock and week for sockeye salmon in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 2011.

| SW | Stock |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahltan | Tuya | Mainstem | WildTahltan | TahltanEnhance |
| Proportion by stock for upper river fisheries |  |  |  |  |  |
| 24 | 0.679 | 0.154 | 0.167 | 0.449 | 0.231 |
| 25 | 0.679 | 0.154 | 0.167 | 0.449 | 0.231 |
| 26 | 0.679 | 0.154 | 0.167 | 0.449 | 0.231 |
| 27 | 0.679 | 0.154 | 0.167 | 0.449 | 0.231 |
| 28 | 0.743 | 0.161 | 0.095 | 0.520 | 0.224 |
| 29 | 0.633 | 0.308 | 0.059 | 0.421 | 0.212 |
| 30 | 0.705 | 0.281 | 0.014 | 0.444 | 0.260 |
| 31 | 0.630 | 0.370 | 0.000 | 0.432 | 0.198 |
| 32 | 0.619 | 0.355 | 0.026 | 0.404 | 0.215 |
| 33 | 0.767 | 0.233 | 0.000 | 0.600 | 0.167 |
| 34 | 0.629 | 0.371 | 0.000 | 0.429 | 0.200 |
| Total |  |  |  |  |  |
| Harvest by stock for upper river commercial fishery |  |  |  |  |  |
| 28 | 22 | 5 | 3 | 15 | 6 |
| 29 | 238 | 116 | 22 | 158 | 80 |
| 30 | 400 | 159 | 8 | 252 | 148 |
| Total | 659 | 280 | 33 | 425 | 234 |
| Harvest by stock for Telegraph Aboriginal fishery |  |  |  |  |  |
| 24 | 0 | 0 | 0 | 0 | 0 |
| 25 | 9 | 2 | 2 | 6 | 3 |
| 26 | 5 | 1 | 1 | 3 | 2 |
| 27 | 107 | 24 | 26 | 71 | 36 |
| 28 | 769 | 167 | 98 | 537 | 231 |
| 29 | 1,632 | 794 | 153 | 1,087 | 546 |
| 30 | 1,202 | 480 | 24 | 758 | 444 |
| 31 | 516 | 304 | 0 | 354 | 162 |
| 32 | 252 | 145 | 11 | 164 | 87 |
| 33 | 120 | 36 | 0 | 94 | 26 |
| 34 | 8 | 5 | 0 | 6 | 3 |
| 35 | 0 | 0 | 0 | 0 | 0 |
| Total | 4,620 | 1,957 | 316 | 3,080 | 1,540 |

Appendix A. 12. Weekly harvest, CPUE, and migratory timing of Tahltan, Tuya, and mainstem sockeye salmon stocks in the Stikine test fishery, 2011.

| SW | small egg | Proportions |  |  |  | Harvest |  |  |  | CPUE |  |  |  | Migratory Timing |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | AllTahltan | Tuya | Mainstem | TahltanEnhance | AllTahltan | Tuya | Mainstem | TahltanEnhance | AllTahltan | Tuya | Mainstem | Total | AllTahltan | Tuya | Mainstem |
| Drift gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  | 0.895 | 0.053 | 0.053 |  |  |  |  |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 26 | 0.880 | 0.895 | 0.053 | 0.053 | 0.158 | 52 | 3 | 3 | 8 | 0.810 | 0.048 | 0.048 | 0.905 | 0.057 | 0.003 | 0.003 |
| 27 | 0.897 | 0.634 | 0.196 | 0.170 | 0.306 | 71 | 22 | 19 | 34 | 1.690 | 0.524 | 0.452 | 2.667 | 0.119 | 0.037 | 0.032 |
| 28 | 0.793 | 0.481 | 0.241 | 0.278 | 0.188 | 26 | 13 | 15 | 10 | 1.238 | 0.619 | 0.714 | 2.571 | 0.087 | 0.044 | 0.050 |
| 29 | 0.662 | 0.360 | 0.278 | 0.362 | 0.187 | 41 | 32 | 42 | 22 | 0.657 | 0.507 | 0.661 | 1.825 | 0.046 | 0.036 | 0.046 |
| 30 | 0.454 | 0.306 | 0.143 | 0.551 | 0.109 | 28 | 13 | 51 | 10 | 0.677 | 0.318 | 1.220 | 2.214 | 0.048 | 0.022 | 0.086 |
| 31 | 0.183 | 0.168 | 0.130 | 0.701 | 0.070 | 16 | 13 | 68 | 7 | 0.389 | 0.301 | 1.620 | 2.310 | 0.027 | 0.021 | 0.114 |
| 32 | 0.118 | 0.129 | 0.035 | 0.837 | 0.040 | 5 | 1 | 34 | 2 | 0.126 | 0.034 | 0.817 | 0.976 | 0.009 | 0.002 | 0.057 |
| 33 | 0.141 | 0.077 | 0.027 | 0.895 | 0.050 | 2 | 1 | 27 | 2 | 0.041 | 0.015 | 0.480 | 0.536 | 0.003 | 0.001 | 0.034 |
| 34 | 0.220 | 0.047 | 0.078 | 0.875 | 0.030 | 0 | 0 | 4 | 0 | 0.006 | 0.009 | 0.104 | 0.119 | 0.000 | 0.001 | 0.007 |
| 35 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 3 | 0 | 0.000 | 0.000 | 0.054 | 0.054 | 0.000 | 0.000 | 0.004 |
| 36 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 2 | 0 | 0.000 | 0.000 | 0.048 | 0.048 | 0.000 | 0.000 | 0.003 |
| 37 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38 |  |  |  |  |  | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total |  |  |  |  |  | 243 | 99 | 268 | 94 | 5.633 | 2.374 | 6.216 | 14.224 |  |  |  |
| Prop | rtion |  |  |  |  | 0.398 | 0.162 | 0.440 |  |  |  |  |  | 0.396 | 0.167 | 0.437 |
| Set gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  | 0.360 | 0.278 | 0.362 | 0.187 | 275 | 212 | 276 | 143 | 3.175 | 2.451 | 3.195 | 8.821 | 0.084 | 0.065 | 0.084 |
| 30 |  | 0.306 | 0.143 | 0.551 | 0.109 | 213 | 100 | 383 | 76 | 2.952 | 1.384 | 5.316 | 9.653 | 0.078 | 0.037 | 0.140 |
| 31 |  | 0.168 | 0.130 | 0.701 | 0.070 | 73 | 56 | 303 | 30 | 1.264 | 0.980 | 5.269 | 7.513 | 0.033 | 0.026 | 0.139 |
| 32 |  | 0.129 | 0.035 | 0.837 | 0.040 | 21 | 6 | 135 | 6 | 0.882 | 0.237 | 5.732 | 6.851 | 0.023 | 0.006 | 0.151 |
| 33 |  | 0.077 | 0.027 | 0.895 | 0.050 | 15 | 5 | 170 | 10 | 0.306 | 0.108 | 3.545 | 3.958 | 0.008 | 0.003 | 0.093 |
| 34 |  | 0.047 | 0.078 | 0.875 | 0.030 | 3 | 4 | 47 | 2 | 0.053 | 0.088 | 0.986 | 1.127 | 0.001 | 0.002 | 0.026 |
| 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 37 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 55 | 0 | 0.000 | 0.000 | 1.447 | 1.447 | 0.000 | 0.000 | 0.038 |
| 38 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 37 | 0 | 0.000 | 0.000 | 0.725 | 0.725 | 0.000 | 0.000 | 0.019 |
| 39 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 57 | 0 | 0.000 | 0.000 | 0.663 | 0.663 | 0.000 | 0.000 | 0.017 |
| 40 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 36 | 0 | 0.000 | 0.000 | 0.206 | 0.206 | 0.000 | 0.000 | 0.005 |
| 41 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 45 | 0 | 0.000 | 0.000 | 0.196 | 0.196 | 0.000 | 0.000 | 0.005 |
| Total |  |  |  |  |  | 598 | 383 | 1,544 | 266 | 8.63 | 5.25 | 24.04 | 37.92 |  |  |  |
| Prop | rtion |  |  |  |  | 0.237 | 0.152 | 0.612 |  |  |  |  |  | 0.228 | 0.138 | 0.634 |
| Total Test Fishery Harvest |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  | 0.895 | 0.053 | 0.053 | 0.000 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |
| 26 |  | 0.895 | 0.053 | 0.053 | 0.158 | 52 | 3 | 3 | 8 |  |  |  |  |  |  |  |
| 27 |  | 0.634 | 0.196 | 0.170 | 0.306 | 71 | 22 | 19 | 34 |  |  |  |  |  |  |  |
| 28 |  | 0.481 | 0.241 | 0.278 | 0.188 | 26 | 13 | 15 | 10 |  |  |  |  |  |  |  |
| 29 |  | 0.360 | 0.278 | 0.362 | 0.187 | 316 | 244 | 318 | 164 |  |  |  |  |  |  |  |
| 30 |  | 0.306 | 0.143 | 0.551 | 0.109 | 241 | 113 | 434 | 86 |  |  |  |  |  |  |  |
| 31 |  | 0.168 | 0.130 | 0.701 | 0.070 | 89 | 69 | 371 | 37 |  |  |  |  |  |  |  |
| 32 |  | 0.129 | 0.035 | 0.837 | 0.040 | 26 | 7 | 169 | 8 |  |  |  |  |  |  |  |
| 33 |  | 0.077 | 0.027 | 0.895 | 0.050 | 17 | 6 | 197 | 11 |  |  |  |  |  |  |  |
| 34 |  | 0.047 | 0.078 | 0.875 | 0.030 | 3 | 5 | 52 | 2 |  |  |  |  |  |  |  |
| 35 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 3 | 0 |  |  |  |  |  |  |  |
| 36 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 2 | 0 |  |  |  |  |  |  |  |
| 37 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 55 | 0 |  |  |  |  |  |  |  |
| 38 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 37 | 0 |  |  |  |  |  |  |  |
| 39 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 57 | 0 |  |  |  |  |  |  |  |
| 40 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 36 | 0 |  |  |  |  |  |  |  |
| 41 |  | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 45 | 0 |  |  |  |  |  |  |  |
| Total |  |  |  |  |  | 841 | 482 | 1,813 | 361 |  |  |  |  |  |  |  |
| Proportion |  |  |  |  |  | 0.268 | 0.154 | 0.578 | 0.115 |  |  |  |  |  |  |  |
| AllT | hltan harves |  |  | ahilanEnhanc | WildTahltan |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  | 0.360 |  | 0.187 | 0.173 |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  | 0.306 |  | 0.109 | 0.197 |  |  |  |  |  |  |  |  |  |  |  |
| 31 |  | 0.168 |  | 0.070 | 0.098 |  |  |  |  |  |  |  |  |  |  |  |
| 32 |  | 0.129 |  | 0.040 | 0.089 |  |  |  |  |  |  |  |  |  |  |  |
| 33 |  | 0.077 |  | 0.050 | 0.027 |  |  |  |  |  |  |  |  |  |  |  |
| 34 |  | 0.047 |  | 0.030 | 0.017 |  |  |  |  |  |  |  |  |  |  |  |
| 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Appendix A. 13. Daily test harvest taken from the Tuya Assessment Fishery located above the Tahltan River, July 2011.

| Date | $\begin{gathered} \hline \text { Harvest } \\ \text { Total } \\ \hline \end{gathered}$ | Proportions |  |  |  | Stock specific harvest |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All Tahltan | Tuya | Mainstem | TahktanEnhance | All Tahltan | Tuya | Mainstem | TahltanEnhance |
| 7/22 | 240 | 0.343 | 0.568 | 0.089 | 0.127 | 82 | 136 | 21 | 30 |
| 7/23 | 360 | 0.343 | 0.568 | 0.089 | 0.127 | 124 | 204 | 32 | 46 |
| 7/24 | 412 | 0.343 | 0.568 | 0.089 | 0.127 | 141 | 234 | 37 | 52 |
| 7/25 | 404 | 0.343 | 0.568 | 0.089 | 0.127 | 139 | 229 | 36 | 51 |
| 7/26 | 385 | 0.343 | 0.568 | 0.089 | 0.127 | 132 | 219 | 34 | 49 |
| 7/27 | 297 | 0.343 | 0.568 | 0.089 | 0.127 | 102 | 169 | 26 | 38 |
| 7/28 | 266 | 0.343 | 0.568 | 0.089 | 0.127 | 91 | 151 | 24 | 34 |
| 7/29 | 263 | 0.343 | 0.568 | 0.089 | 0.127 | 90 | 149 | 23 | 33 |
| $7 / 30$ | 251 | 0.343 | 0.568 | 0.089 | 0.127 | 86 | 142 | 22 | 32 |
| Total | 2,878 | 0.343 | 0.568 | 0.089 | 0.127 | 988 | 1,634 | 257 | 365 |

Appendix A. 14. Weekly coho salmon harvest in the Alaskan District 106 and 108 fisheries, 2011.

| SW | D106 |  |  |  |  | D108 |  |  | Subsistence harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery | Wild | Total | 106-41/42 | 106-30 | Hatchery | Wild | Total |  |
| 25 | 2,187 | 1,370 | 3,557 | 1,976 | 1,581 |  | 39 | 39 | 0 |
| 26 | 5,961 | 834 | 6,795 | 3,806 | 2,989 | 254 | 139 | 393 | 0 |
| 27 | 14,716 | 3,974 | 18,690 | 12,148 | 6,542 | 0 | 521 | 521 | 0 |
| 28 | 12,115 | 3,232 | 15,347 | 8,747 | 6,600 | 295 | 419 | 714 | 1 |
| 29 | 5,205 | 2,718 | 7,923 | 4,485 | 3,438 | 56 | 735 | 791 | 0 |
| 30 | 4,022 | 1,231 | 5,253 | 1,854 | 3,399 | 121 | 1,460 | 1,581 | 0 |
| 31 | 2,206 | 2,568 | 4,774 | 2,681 | 2,093 | 55 | 1,461 | 1,516 | 0 |
| 32 | 2,156 | 4,208 | 6,364 | 2,879 | 3,485 | 104 | 2,305 | 2,409 | 0 |
| 33 | 2,415 | 4,225 | 6,640 | 2,745 | 3,895 | 58 | 1,166 | 1,224 | 9 |
| 34 | 267 | 2,687 | 2,954 | 2,058 | 896 | 152 | 1,245 | 1,397 | 0 |
| 35 | 563 | 3,133 | 3,696 | 2,771 | 925 | 132 | 2,541 | 2,673 | 0 |
| 36 | 881 | 6,987 | 7,868 | 6,204 | 1,664 | 231 | 3,332 | 3,563 | 20 |
| 37 | 2,504 | 6,849 | 9,353 | 7,670 | 1,683 | 67 | 1,860 | 1,927 | 0 |
| 38 | 2,685 | 12,306 | 14,991 | 8,150 | 6,841 | 481 | 1,093 | 1,574 | 10 |
| 39 | 706 | 1,305 | 2,011 | 1,732 | 279 | 160 | 238 | 398 | 0 |
| 40 | 426 | 1,218 | 1,644 | 447 | 1,197 |  |  |  | 0 |
| Total | 59,015 | 58,845 | 117,860 | 70,353 | 47,507 | 2,166 | 18,554 | 20,720 | 40 |

Appendix A. 15. Weekly harvest of coho salmon in the Canadian lower river commercial fishery and test fisheries 2011.

|  |  | Assessment/Test |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| SW | LRCF | Drift | Set | Additional | Total |
| 19 |  |  |  | 0 |  |
| 20 | 0 |  |  | 0 |  |
| 21 | 0 |  |  | 0 |  |
| 22 | 0 |  |  | 0 |  |
| 23 |  |  |  | 0 |  |
| 24 |  |  |  | 0 |  |
| 25 | 0 |  |  | 0 |  |
| 26 | 0 | 0 |  | 0 |  |
| 27 | 0 | 0 |  | 0 |  |
| 28 | 1 | 0 |  | 1 |  |
| 29 | 3 | 0 | 0 |  | 3 |
| 30 | 2 | 0 | 0 |  | 2 |
| 31 | 6 | 0 | 3 |  | 9 |
| 32 | 189 | 6 | 8 |  | 203 |
| 33 | 339 | 31 | 69 |  | 439 |
| 34 | 637 | 13 | 50 |  | 700 |
| 35 | 618 | 4 |  |  | 622 |
| 36 | 3,645 | 40 |  | 3,685 |  |
| 37 | 381 | 11 |  | 392 |  |
| 38 |  | 11 |  |  | 0 |
| 39 |  | 21 |  |  | 11 |
| 40 |  | 83 |  |  | 21 |
| 41 |  | 47 |  | 83 |  |
| 42 |  | 13 |  | 47 |  |
| Total | 5,821 | 280 | 130 | 0 | 6,231 |

Appendix A. 16. Weekly salmon effort in the Alaskan District 106 and 108 fisheries, 2011.

|  | Start | D106 |  |  | 106-41/42 |  |  | 106-30 |  |  | D108 |  |  | Subsistence Permits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SW | Date | Permits | Days | Days | Permits | Days | Days | Permits | Days | Days | Permits | Days | Days |  |
| 18 | 24-Apr |  |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| 19 | 1-May |  |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| 20 | 8-May |  |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| 21 | 15-May |  |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| 22 | 22-May |  |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| 23 | 29-May |  |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| 24 | 5-Jun |  |  | 0 |  |  | 0 |  |  | 0 |  |  | 0 |  |
| 25 | 12-Jun | 75 | 2.0 | 150 | 50 | 2.0 | 100 | 25 | 2.0 | 50 | 32 | 3.0 | 96 |  |
| 26 | 19-Jun | 63 | 3.0 | 189 | 42 | 3.0 | 126 | 22 | 3.0 | 66 | 49 | 4.0 | 196 |  |
| 27 | 26-Jun | 60 | 4.0 | 240 | 42 | 4.0 | 168 | 18 | 4.0 | 72 | 48 | 4.0 | 192 |  |
| 28 | 3-Jul | 70 | 4.0 | 280 | 44 | 4.0 | 176 | 27 | 4.0 | 108 | 30 | 2.0 | 60 |  |
| 29 | 10-Jul | 63 | 2.0 | 126 | 36 | 2.0 | 72 | 29 | 2.0 | 58 | 61 | 3.0 | 176 |  |
| 30 | 17-Jul | 56 | 2.0 | 112 | 25 | 2.0 | 50 | 33 | 2.0 | 66 | 72 | 3.0 | 150 |  |
| 31 | 24-Jul | 58 | 2.0 | 116 | 30 | 2.0 | 60 | 29 | 2.0 | 58 | 65 | 3.0 | 195 |  |
| 32 | 31-Jul | 76 | 3.0 | 228 | 40 | 3.0 | 120 | 41 | 3.0 | 123 | 57 | 3.0 | 171 |  |
| 33 | 7-Aug | 71 | 3.0 | 213 | 31 | 3.0 | 93 | 49 | 3.0 | 147 | 45 | 2.0 | 90 |  |
| 34 | 14-Aug | 58 | 2.0 | 116 | 38 | 2.0 | 76 | 21 | 2.0 | 42 | 33 | 2.0 | 66 |  |
| 35 | 21-Aug | 54 | 2.0 | 108 | 36 | 2.0 | 72 | 20 | 2.0 | 40 | 29 | 2.0 | 58 |  |
| 36 | 28-Aug | 80 | 2.0 | 160 | 57 | 2.0 | 114 | 25 | 2.0 | 50 | 48 | 3.0 | 144 |  |
| 37 | 4-Sep | 73 | 3.0 | 219 | 55 | 3.0 | 165 | 21 | 3.0 | 63 | 21 | 3.0 | 63 |  |
| 38 | 11-Sep | 101 | 3.0 | 303 | 55 | 3.0 | 165 | 51 | 3.0 | 153 | 27 | 2.0 | 54 |  |
| 39 | 18-Sep | 25 | 2.0 | 50 | 19 | 2.0 | 38 | 6 | 2.0 | 12 | 11 | 2.0 | 22 |  |
| 40 | 25-Sep | 19 | 2.0 | 38 | 6 | 2.0 | 12 | 13 | 2.0 | 26 |  |  | 0 |  |
| 42 | 9-Oct |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  | 41 | 2,648 |  | 41 | 1,607 |  | 41 | 1,134 |  | 41 | 1,733 | 124 |

Appendix A. 17. Weekly salmon effort in the Canadian fisheries in the Stikine River, 2011.

| SW | Start <br> Date | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | Test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Permits | Days | Permit Days | Permits | Days | Permit Days | Permits | Days | Permit Days | \# Drifts | Set hours |
| $19^{\text {a }}$ | 1-May |  |  | 0 |  |  |  |  |  |  |  |  |
| $20^{\text {a }}$ | 8-May | 18.00 | 1.3 | 23 |  |  |  |  |  |  |  |  |
| $21^{\text {a }}$ | 15-May | 19.00 | 1.0 | 19 |  |  |  |  |  | 0 |  |  |
| $22^{\text {a }}$ | 22-May | 16.00 | 2.0 | 32 |  |  |  |  |  | 0 |  |  |
| $23^{\text {a }}$ | 29-May | 19.00 | 1.2 | 22 |  |  |  | 1.0 | 2.0 | 2 |  |  |
| $24^{\text {a }}$ | 5-Jun | 19.00 | 0.8 | 14 |  |  |  | 2.1 | 7.0 | 15 |  |  |
| 25 | 12-Jun | 19.00 | 0.5 | 10 |  |  |  | 5.6 | 7.0 | 39 |  |  |
| 26 | 19-Jun | 19.00 | 2.0 | 38 |  |  |  | 2.9 | 7.0 | 20 | 42 |  |
| 27 | 26-Jun | 17.00 | 3.0 | 51 |  |  |  | 5.0 | 7.0 | 35 | 42 |  |
| 28 | 3-Jul | 17.20 | 5.0 | 86 | 1.0 | 3.0 | 3 | 7.7 | 7.0 | 54 | 21 |  |
| 29 | 10-Jul | 17.00 | 2.0 | 34 | 1.0 | 3.0 | 3 | 18.3 | 7.0 | 128 | 63 | 86.5 |
| 30 | 17-Jul | 18.33 | 3.0 | 55 | 2.0 | 3.0 | 6 | 12.9 | 7.0 | 90 | 42 | 72.0 |
| 31 | 24-Jul | 18.50 | 2.0 | 37 |  |  |  | 7.1 | 7.0 | 50 | 42 | 57.5 |
| 32 | 31-Jul | 19.00 | 3.0 | 57 |  |  |  | 4.1 | 7.0 | 29 | 42 | 23.5 |
| 33 | 7-Aug | 18.00 | 2.0 | 36 |  |  |  | 1.7 | 7.0 | 12 | 56 | 48.0 |
| 34 | 14-Aug | 15.00 | 3.0 | 45 |  |  |  | 2.0 | 1.0 |  | 42 | 47.9 |
| 35 | 21-Aug | 5.57 | 7.0 | 39 |  |  |  |  |  |  | 56 |  |
| 36 | 28-Aug | 12.43 | 7.0 | 87 |  |  |  |  |  |  | 42 |  |
| 37 | 4-Sep | 7.00 | 2.0 | 14 |  |  |  |  |  |  | 42 |  |
| 38 | 11-Sep |  |  | 0 |  |  |  |  |  |  | 42 |  |
| 39 | 18-Sep |  |  | 0 |  |  |  |  |  |  | 98 |  |
| 40 | 25-Sep |  |  | 0 |  |  |  |  |  |  | 84 |  |
| 41 | 2-Oct |  |  | 0 |  |  |  |  |  |  | 84 |  |
| 42 | 9-Oct |  |  | 0 |  |  |  |  |  |  | 42 |  |
| Total |  |  | 47.7 | 698.4 |  | 9.0 | 12.0 |  | 73.0 | 473.9 | 882.0 | 335.4 |

Appendix A. 18. Tuya assessment fishery, 2011.

| Date | total nets |
| :--- | :---: |
| $7 / 21$ | 8 |
| $7 / 22$ | 8 |
| $7 / 23$ | 8 |
| $7 / 24$ | 8 |
| $7 / 25$ | 8 |
| $7 / 26$ | 8 |
| $7 / 27$ | 8 |
| $7 / 28$ | 8 |
| $7 / 29$ | 8 |
| $7 / 30$ | 8 |
| Total | 80 |

Appendix A. 19. Daily counts of adult sockeye salmon passing through Tahltan Lake weir, 2011.

${ }^{a}$ Thermal mark contribution from pooled brood stock and weir sample otolith results.

Appendix A. 20. Daily counts of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 2011.

| Date | Count | Cumulative |  | Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Count | Percent |  |  | Count | Percent |
| 7-May | Installed |  |  |  |  |  |  |
| 8-May | 0 | 0 | 0.00\% | 6-Jun | 1,209 | 1,530,133 | 93.75\% |
| 9-May | 0 | 0 | 0.00\% | 7-Jun | 26,295 | 1,556,428 | 95.36\% |
| 10-May | 0 | 0 | 0.00\% | 8-Jun | 16,143 | 1,572,571 | 96.35\% |
| 11-May | 0 | 0 | 0.00\% | 9-Jun | 36,590 | 1,609,161 | 98.59\% |
| 12-May | 0 | 0 | 0.00\% | 10-Jun | 17,164 | 1,626,325 | 99.65\% |
| 13-May | 0 | 0 | 0.00\% | 11-Jun | 1,795 | 1,628,120 | 99.75\% |
| 14-May | 0 | 0 | 0.00\% | 12-Jun | 1,976 | 1,630,096 | 99.88\% |
| 15-May | 0 | 0 | 0.00\% | 13-Jun | 1,531 | 1,631,627 | 99.97\% |
| 16-May | 0 | 0 | 0.00\% | 14-Jun | 446 | 1,632,073 | 100.00\% |
| 17-May | 4 | 4 | 0.00\% | 15-Jun | 46 | 1,632,119 | 100.00\% |
| 18-May | 51,634 | 51,638 | 3.16\% |  |  |  |  |
| 19-May | 285,233 | 336,871 | 20.64\% |  |  |  |  |
| 20-May | 97,267 | 434,138 | 26.60\% |  |  |  |  |
| 21-May | 8,242 | 442,380 | 27.10\% |  |  |  |  |
| 22-May | 832 | 443,212 | 27.16\% |  |  |  |  |
| 23-May | 726 | 443,938 | 27.20\% |  |  |  |  |
| 24-May | 456 | 444,394 | 27.23\% |  |  |  |  |
| 25-May | 26,983 | 471,377 | 28.88\% |  |  |  |  |
| 26-May | 867,906 | 1,339,283 | 82.06\% |  |  |  |  |
| 27-May | 90,042 | 1,429,325 | 87.57\% |  |  |  |  |
| 28-May | 7,624 | 1,436,949 | 88.04\% |  |  |  |  |
| 29-May | 3,467 | 1,440,416 | 88.25\% |  |  |  |  |
| 30-May | 5,775 | 1,446,191 | 88.61\% |  |  |  |  |
| 31-May | 7,011 | 1,453,202 | 89.04\% |  |  |  |  |
| 1-Jun | 18,304 | 1,471,506 | 90.16\% |  |  |  |  |
| 2-Jun | 22,683 | 1,494,189 | 91.55\% |  |  |  |  |
| 3-Jun | 2,962 | 1,497,151 | 91.73\% |  |  |  |  |
| 4-Jun | 782 | 1,497,933 | 91.78\% | Wild | 960,531 |  |  |
| 5-Jun | 30,991 | 1,528,924 | 93.68\% | Hatchery | 671,588 |  |  |
| Total |  |  |  |  | 1,632,119 |  |  |

Appendix A. 21. Daily counts of adult Chinook salmon passing through Little Tahltan weir, 2011.

| Date | Large Chinook |  |  | nonlarge Chinook |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Cumulative |  | Count | Cumulative |  |
|  |  | Count | Percent |  | Count | Percent |
| 19-Jun | Installed |  |  |  |  |  |
| 20-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 21-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 22-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 23-Jun | 0 | 0 | 0.00\% | 0 | 0 | 0.00\% |
| 24-Jun | 9 | 9 | 0.51\% | 0 | 0 | 0.00\% |
| 25-Jun | 12 | 21 | 1.20\% | 0 | 0 | 0.00\% |
| 26-Jun | 0 | 21 | 1.20\% | 0 | 0 | 0.00\% |
| 27-Jun | 2 | 23 | 1.31\% | 0 | 0 | 0.00\% |
| 28-Jun | 0 | 23 | 1.31\% | 0 | 0 | 0.00\% |
| 29-Jun | 0 | 23 | 1.31\% | 0 | 0 | 0.00\% |
| 30-Jun | 0 | 23 | 1.31\% | 0 | 0 | 0.00\% |
| 1-Jul | 0 | 23 | 1.31\% | 0 | 0 | 0.00\% |
| 2-Jul | 0 | 23 | 1.31\% | 0 | 0 | 0.00\% |
| 3-Jul | 0 | 23 | 1.31\% | 0 | 0 | 0.00\% |
| 4-Jul | 1 | 24 | 1.37\% | 0 | 0 | 0.00\% |
| 5-Jul | 0 | 24 | 1.37\% | 0 | 0 | 0.00\% |
| 6-Jul | 0 | 24 | 1.37\% | 0 | 0 | 0.00\% |
| 7-Jul | 1 | 25 | 1.43\% | 0 | 0 | 0.00\% |
| 8-Jul | 2 | 27 | 1.54\% | 0 | 0 | 0.00\% |
| 9-Jul | 2 | 29 | 1.65\% | 0 | 0 | 0.00\% |
| 10-Jul | 5 | 34 | 1.94\% | 0 | 0 | 0.00\% |
| 11-Jul | 22 | 56 | 3.19\% | 1 | 1 | 0.52\% |
| 12-Jul | 20 | 76 | 4.34\% | 2 | 3 | 1.55\% |
| 13-Jul | 0 | 76 | 4.34\% | 1 | 4 | 2.06\% |
| 14-Jul | 15 | 91 | 5.19\% | 3 | 7 | 3.61\% |
| 15-Jul | 17 | 108 | 6.16\% | 5 | 12 | 6.19\% |
| 16-Jul | 40 | 148 | 8.44\% | 4 | 16 | 8.25\% |
| 17-Jul | 34 | 182 | 10.38\% | 3 | 19 | 9.79\% |
| 18-Jul | 16 | 198 | 11.29\% | 5 | 24 | 12.37\% |
| 19-Jul | 12 | 210 | 11.98\% | 3 | 27 | 13.92\% |
| 20-Jul | 9 | 219 | 12.49\% | 1 | 28 | 14.43\% |
| 21-Jul | 56 | 275 | 15.69\% | 2 | 30 | 15.46\% |
| 22-Jul | 214 | 489 | 27.90\% | 14 | 44 | 22.68\% |
| 23-Jul | 324 | 813 | 46.38\% | 15 | 59 | 30.41\% |
| 24-Jul | 123 | 936 | 53.39\% | 10 | 69 | 35.57\% |
| 25-Jul | 15 | 951 | 54.25\% | 11 | 80 | 41.24\% |
| 26-Jul | 98 | 1,049 | 59.84\% | 11 | 91 | 46.91\% |
| 27-Jul | 24 | 1,073 | 61.21\% | 2 | 93 | 47.94\% |
| 28-Jul | 11 | 1,084 | 61.84\% | 5 | 98 | 50.52\% |
| 29-Jul | 7 | 1,091 | 62.24\% | 4 | 102 | 52.58\% |
| 30-Jul | 154 | 1,245 | 71.02\% | 21 | 123 | 63.40\% |
| 31-Jul | 104 | 1,349 | 76.95\% | 14 | 137 | 70.62\% |
| 1-Aug | 45 | 1,394 | 79.52\% | 15 | 152 | 78.35\% |
| 2-Aug | 103 | 1,497 | 85.40\% | 10 | 162 | 83.51\% |
| 3-Aug | 1 | 1,498 | 85.45\% | 0 | 162 | 83.51\% |
| 4-Aug | 171 | 1,669 | 95.21\% | 14 | 176 | 90.72\% |
| 5-Aug | 20 | 1,689 | 96.35\% | 4 | 180 | 92.78\% |
| 6-Aug | 16 | 1,705 | 97.26\% | 1 | 181 | 93.30\% |
| 7-Aug | 45 | 1,750 | 99.83\% | 10 | 191 | 98.45\% |
| 8-Aug | 3 | 1,753 | 100.00\% | 3 | 194 | 100.00\% |
| Total Counted |  | 1,753 |  | 194 |  |  |
| Broodstock |  | 0 |  | 0 |  |  |
| Escape |  | 1,753 |  | 194 |  |  |

Appendix B. 1. Historic salmon harvest and effort in the Alaskan District 106 commercial gillnet fishery, 1960-2011.

| Year | Harvest |  |  |  |  | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ | Effort Permit Days |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |  |
| 1960 | 46 | 10,354 | 336 | 1,246 | 502 |  |  |  |
| 1961 | 416 | 20,614 | 14,934 | 124,236 | 64,479 |  |  |  |
| 1962 | 1,308 | 47,033 | 42,276 | 256,620 | 59,119 |  |  |  |
| 1963 | 1,560 | 80,767 | 52,103 | 514,596 | 90,103 |  |  |  |
| 1964 | 2,082 | 76,541 | 64,654 | 443,086 | 44,218 |  |  |  |
| 1965 | 1,802 | 87,749 | 75,728 | 625,848 | 27,658 |  |  |  |
| 1966 | 1,665 | 89,847 | 62,823 | 400,932 | 40,756 |  |  |  |
| 1967 | 1,318 | 86,385 | 17,670 | 91,609 | 26,370 |  |  |  |
| 1968 | 1,316 | 64,671 | 67,151 | 169,107 | 61,366 |  |  |  |
| 1969 | 877 | 70,484 | 10,305 | 198,785 | 10,930 | 613 | 31.0 | 2,111 |
| 1970 | 782 | 42,809 | 35,188 | 95,173 | 32,245 | 586 | 41.0 | 1,863 |
| 1971 | 1,336 | 53,262 | 48,085 | 528,737 | 37,682 | 897 | 50.0 | 2,773 |
| 1972 | 2,548 | 101,958 | 92,283 | 89,510 | 72,389 | 1,090 | 42.0 | 3,320 |
| 1973 | 1,961 | 72,025 | 38,447 | 304,536 | 87,704 | 1,244 | 26.0 | 3,299 |
| 1974 | 1,929 | 57,498 | 45,595 | 104,596 | 50,402 | 1,216 | 28.0 | 2,178 |
| 1975 | 2,587 | 32,099 | 30,962 | 203,031 | 24,047 | 856 | 17.0 | 1,648 |
| 1976 | 386 | 15,493 | 19,126 | 139,641 | 6,868 | 375 | 22.0 | 827 |
| 1977 | 671 | 67,394 | 8,389 | 422,955 | 13,311 | 449 | 28.0 | 1,381 |
| 1978 | 2,682 | 41,574 | 55,578 | 224,715 | 16,545 | 791 | 26.5 | 1,509 |
| 1979 | 2,720 | 66,373 | 31,454 | 648,212 | 35,507 | 1,162 | 25.0 | 2,702 |
| 1980 | 580 | 107,422 | 16,666 | 45,662 | 26,291 | 591 | 25.0 | 1,324 |
| 1981 | 1,565 | 182,001 | 22,614 | 437,573 | 34,296 | 1,160 | 26.0 | 2,925 |
| 1982 | 1,648 | 193,801 | 31,584 | 25,533 | 18,646 | 831 | 23.0 | 1,699 |
| 1983 | 567 | 48,842 | 62,442 | 208,290 | 20,144 | 728 | 32.0 | 1,452 |
| 1984 | 892 | 91,653 | 41,359 | 343,255 | 70,303 | 763 | 32.0 | 1,814 |
| 1985 | 1,687 | 264,987 | 91,188 | 584,953 | 69,673 | 1,196 | 32.0 | 2,672 |
| 1986 | 1,704 | 145,709 | 194,912 | 308,484 | 82,289 | 1,530 | 32.0 | 3,509 |
| 1987 | 836 | 136,427 | 34,534 | 243,482 | 42,025 | 982 | 20.0 | 1,766 |
| 1988 | 1,104 | 92,529 | 13,103 | 69,559 | 69,620 | 830 | 19.0 | 1,494 |
| 1989 | 1,544 | 192,734 | 92,385 | 1,101,194 | 67,351 | 1,253 | 34.0 | 3,221 |
| 1990 | 2,108 | 185,805 | 164,235 | 319,186 | 73,232 | 1,476 | 34.0 | 3,501 |
| 1991 | 2,055 | 144,104 | 198,160 | 133,566 | 124,630 | 1,554 | 39.0 | 3,620 |
| 1992 | 1,355 | 203,155 | 298,935 | 94,248 | 140,468 | 1,543 | 40.0 | 4,229 |
| 1993 | 992 | 205,955 | 231,038 | 537,960 | 134,601 | 1,772 | 38.0 | 4,352 |
| 1994 | 754 | 211,048 | 267,862 | 179,994 | 176,026 | 1,593 | 43.0 | 4,467 |
| 1995 | 951 | 207,298 | 170,561 | 448,163 | 300,078 | 1,517 | 34.0 | 3,656 |
| 1996 | 644 | 311,100 | 223,640 | 188,035 | 283,290 | 1,661 | 46.0 | 5,289 |
| 1997 | 1,075 | 168,518 | 77,550 | 789,051 | 186,456 | 1,357 | 39.0 | 3,667 |
| 1998 | 518 | 113,435 | 273,197 | 502,655 | 332,022 | 1,586 | 43.0 | 4,397 |
| 1999 | 518 | 104,835 | 203,301 | 491,179 | 448,409 | 1,609 | 49.0 | 4,854 |
| 2000 | 1,220 | 90,076 | 96,207 | 156,619 | 199,836 | 1,016 | 33.0 | 2,408 |
| 2001 | 1,138 | 164,013 | 188,465 | 825,447 | 283,462 | 1,291 | 50.0 | 3,853 |
| 2002 | 446 | 56,135 | 226,560 | 82,951 | 112,541 | 1,009 | 47.0 | 2,683 |
| 2003 | 422 | 116,904 | 212,057 | 470,697 | 300,253 | 1,095 | 59.0 | 3,803 |
| 2004 | 2,735 | 116,259 | 138,631 | 245,237 | 110,574 | 848 | 55.0 | 2,735 |
| 2005 | 1,572 | 110,192 | 114,440 | 461,187 | 198,564 | 947 | 53.0 | 2,963 |
| 2006 | 1,948 | 91,980 | 69,015 | 149,907 | 268,436 | 728 | 45.0 | 2,035 |
| 2007 | 2,144 | 92,481 | 80,573 | 383,355 | 297,998 | 913 | 49.0 | 2,740 |
| 2008 | 1,619 | 30,533 | 116,074 | 90,217 | 102,156 | 734 | 46.0 | 2,195 |
| 2009 | 2,138 | 111,984 | 144,569 | 143,589 | 287,707 | 1,122 | 45.0 | 3,252 |
| 2010 | 2,473 | 112,450 | 225,550 | 309,795 | 97,948 | 1,187 | 47.0 | 3,161 |
| 2011 | 3,008 | 146,069 | 117,860 | 337,169 | 158,096 | 1,002 | 41.0 | 2,647 |
| 60-10 | 1,391 | 109,594 | 100,676 | 312,906 | 112,971 |  | 37 | 2,842 |
| 01-10 | 1,623 | 99,364 | 146,558 | 301,727 | 205,407 | 990 | 48 | 2,894 |

Appendix B. 2 Historic salmon harvest and effort in the Alaskan District 108 commercial gillnet fishery, 1962-2011.

| Year | Harvest |  |  |  |  | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ | Effort <br> Permit <br> Days |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |  |
| 1962 | 618 | 4,430 | 3,921 | 2,889 | 2,035 |  |  |  |
| 1963 | 1,431 | 9,979 | 11,612 | 10,198 | 11,024 |  |  |  |
| 1964 | 2,911 | 20,299 | 29,388 | 114,555 | 10,771 |  |  |  |
| 1965 | 3,106 | 21,419 | 8,301 | 4,729 | 2,480 |  |  |  |
| 1966 | 4,516 | 36,710 | 16,493 | 61,908 | 17,730 |  |  |  |
| 1967 | 6,372 | 29,226 | 6,747 | 4,713 | 5,955 |  |  |  |
| 1968 | 4,604 | 14,594 | 36,407 | 91,028 | 14,537 |  |  |  |
| 1969 | 5,021 | 19,211 | 5,791 | 11,962 | 2,318 | 359 | 55 | 1,084 |
| 1970 | 3,199 | 15,121 | 18,529 | 20,523 | 12,304 | 418 | 54 | 1,222 |
| 1971 | 3,717 | 18,143 | 14,876 | 22,216 | 4,665 | 363 | 57 | 1,061 |
| 1972 | 9,342 | 51,725 | 38,440 | 17,197 | 17,442 | 695 | 64 | 2,094 |
| 1973 | 9,254 | 21,393 | 5,837 | 6,585 | 6,680 | 584 | 39 | 1,519 |
| 1974 | 8,199 | 2,428 | 16,021 | 4,188 | 2,107 | 564 | 31 | 1,240 |
| 1975 | 1,529 | 0 | 0 | 0 | 1 | 172 | 8 | 257 |
| 1976 | 1,123 | 18 | 6,074 | 722 | 124 | 210 | 20 | 372 |
| 1977 | 1,443 | 48,385 | 14,424 | 16,318 | 4,233 | 321 | 23 | 742 |
| 1978 | 531 | 56 | 32,650 | 1,157 | 1,001 | 255 | 12 | 565 |
| 1979 | 91 | 2,158 | 234 | 13,478 | 1,064 | 37 | 5 | 94 |
| 1980 | 631 | 14,053 | 2,946 | 7,224 | 6,910 | 161 | 22 | 327 |
| 1981 | 283 | 8,833 | 1,403 | 1,466 | 3,594 | 110 | 11 | 217 |
| 1982 | 1,052 | 7,136 | 20,003 | 16,174 | 734 | 250 | 21 | 494 |
| 1983 | 47 | 178 | 15,369 | 4,171 | 675 | 101 | 17 | 260 |
| 1984 | 14 | 1,290 | 5,141 | 4,960 | 1,892 | 28 | 16 | 88 |
| 1985 | 20 | 1,060 | 1,926 | 5,325 | 1,892 | 25 | 13 | 45 |
| 1986 | 102 | 4,185 | 7,439 | 4,901 | 5,928 | 83 | 25 | 216 |
| 1987 | 149 | 1,620 | 1,015 | 3,331 | 949 | 45 | 13 | 81 |
| 1988 | 206 | 1,246 | 12 | 144 | 3,109 | 30 | 8 | 60 |
| 1989 | 310 | 10,083 | 4,261 | 27,640 | 3,375 | 90 | 29 | 223 |
| 1990 | 557 | 11,574 | 8,218 | 13,822 | 9,382 | 157 | 34 | 359 |
| 1991 | 1,366 | 17,987 | 15,629 | 6,406 | 5,977 | 264 | 49 | 846 |
| 1992 | 967 | 52,717 | 22,127 | 66,742 | 15,458 | 445 | 51 | 1,812 |
| 1993 | 1,628 | 76,874 | 14,307 | 39,661 | 22,504 | 556 | 48 | 2,220 |
| 1994 | 1,996 | 97,224 | 44,891 | 35,405 | 27,658 | 721 | 58 | 3,011 |
| 1995 | 1,702 | 76,756 | 17,834 | 37,788 | 54,296 | 593 | 50 | 2,581 |
| 1996 | 1,717 | 154,150 | 19,059 | 37,651 | 135,623 | 694 | 57 | 3,228 |
| 1997 | 2,566 | 93,039 | 2,140 | 65,745 | 38,913 | 582 | 44 | 2,537 |
| 1998 | 460 | 22,031 | 19,206 | 39,246 | 41,057 | 355 | 45 | 1,073 |
| 1999 | 1,049 | 36,601 | 28,437 | 48,552 | 117,196 | 630 | 54 | 2,209 |
| 2000 | 1,671 | 15,833 | 5,651 | 9,497 | 40,337 | 265 | 35 | 714 |
| 2001 | 7 | 610 | 10,731 | 11,012 | 5,397 | 112 | 34 | 377 |
| 2002 | 25 | 208 | 21,131 | 4,578 | 2,017 | 100 | 30 | 323 |
| 2003 | 312 | 42,158 | 38,795 | 76,113 | 51,701 | 364 | 56 | 1,454 |
| 2004 | 7,410 | 103,392 | 26,617 | 20,439 | 37,996 | 529 | 53 | 2,058 |
| 2005 | 26,970 | 99,465 | 42,203 | 106,395 | 150,121 | 1,318 | 78 | 4,591 |
| 2006 | 30,033 | 61,298 | 34,430 | 56,810 | 343,827 | 1,374 | 64 | 4,032 |
| 2007 | 17,463 | 70,580 | 19,880 | 39,872 | 177,573 | 1,120 | 56 | 2,722 |
| 2008 | 14,599 | 35,679 | 34,479 | 18,105 | 81,876 | 1,207 | 58 | 3,083 |
| 2009 | 2,830 | 36,680 | 30,860 | 27,010 | 190,800 | 693 | 47 | 2,287 |
| 2010 | 2,359 | 32,737 | 42,772 | 58,610 | 51,005 | 541 | 45 | 1,557 |
| 2011 | 5,321 | 51,478 | 20,720 | 65,022 | 142,526 | 628 | 41 | 1,806 |
| 60-10 | 3,827 | 30,665 | 16,830 | 26,513 | 35,638 |  | 38 | 1,318 |
| 01-10 | 9,425 | 45,331 | 27,959 | 38,949 | 102,968 | 693 | 51 | 2,109 |

Appendix B. 3. Annual harvest of Stikine large Chinook salmon in the U.S. gillnet, troll, recreational, and subsistence and estimates of Stikine River bound Chinook salmon in District 108, 2005-2011.
GSI used for sport and gillnet. Troll is based on CWT.

|  |  | D108 Large Stikine Chinook |  | Total Large |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| year | Subsistence | Sport | Gillent | Troll | Stikine Chinook |
| 2005 | 15 | 3,665 | 21,233 | 2,969 | 27,882 |
| 2006 | 37 | 3,346 | 17,259 | 1,418 | 22,060 |
| 2007 | 36 | 2,218 | 7,057 | 1,574 | 10,885 |
| 2008 | 26 | 1,453 | 4,905 | 951 | 7,335 |
| 2009 | 31 | 887 | 244 | 188 | 1,350 |
| 2010 | 53 | 586 | 238 | 427 | 1,303 |
| 2011 | 61 | 650 | 970 | 463 | 2,145 |

Appendix B. 4. Chinook salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2011.
Table only includes years when test fisheries were operated.

|  | Large Chinook |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Year | Total 106 | $106-41 / 42$ | $106-30$ | 108 |
| 1984 | 13 | 13 |  | 37 |
| 1985 | 16 | 16 |  | 33 |
| 1986 | 47 | 23 | 24 | 79 |
| 1987 | 25 | 24 | 1 | 30 |
| 1988 | 21 | 11 | 10 | 65 |
| 1989 | 15 | 11 | 4 | 15 |
| 1990 | 13 | 13 |  | 19 |
| 1991 |  |  | 21 |  |
| 1992 |  |  | 26 |  |
| 1993 |  |  | 30 |  |
| 1994 | 0 | 0 |  |  |
| --- |  |  |  | 0 |
| 1998 |  |  |  | 29 |
| 1999 |  |  | 21 |  |
| 2000 |  |  |  |  |
| --- |  |  |  |  |
| 2009 |  |  |  |  |

Appendix B. 5. Chinook salmon harvest in the Canadian commercial and recreational fisheries in the Stikine River, 1979-2011.

| Year | LRCF |  |  |  |  |  | URCF |  | Telegraph Aboriginal |  | Tahltan sport fishery |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Large |  | Nonlarge |  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |
|  | Large | Nonlarge | Released | morts | Released | morts |  |  |  |  |  |  |  |  |
| 1972 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 1973 |  |  |  |  |  |  |  |  | 200 |  |  |  | 200 | 0 |
| 1974 |  |  |  |  |  |  |  |  | 100 |  |  |  | 100 | 0 |
| 1975 |  |  |  |  |  |  | 178 |  | 1,024 |  |  |  | 1,202 | 0 |
| 1976 |  |  |  |  |  |  | 236 |  | 924 |  |  |  | 1,160 | 0 |
| 1977 |  |  |  |  |  |  | 62 |  | 100 |  |  |  | 162 | 0 |
| 1978 |  |  |  |  |  |  | 100 |  | 400 |  |  |  | 500 | 0 |
| 1979 | 712 | 63 |  |  |  |  |  |  | 850 |  | 74 | 10 | 1,636 | 73 |
| 1980 | 1,488 |  |  |  |  |  | 156 |  | 587 |  | 136 | 18 | 2,367 | 18 |
| 1981 | 664 |  |  |  |  |  | 154 |  | 586 |  | 213 | 28 | 1,617 | 28 |
| 1982 | 1,693 |  |  |  |  |  | 76 |  | 618 |  | 181 | 24 | 2,568 | 24 |
| 1983 | 492 | 430 |  |  |  |  | 75 |  | 851 | 215 | 38 | 5 | 1,456 | 650 |
| 1984 |  |  |  |  |  |  |  |  | 643 | 59 | 83 | 11 | 726 | 70 |
| 1985 | 256 | 91 |  |  |  |  | 62 |  | 793 | 94 | 92 | 12 | 1,203 | 197 |
| 1986 | 806 | 365 |  |  |  |  | 104 | 41 | 1,026 | 569 | 93 | 12 | 2,029 | 987 |
| 1987 | 909 | 242 |  |  |  |  | 109 | 19 | 1,183 | 183 | 138 | 18 | 2,339 | 462 |
| 1988 | 1,007 | 201 |  |  |  |  | 175 | 46 | 1,178 | 197 | 204 | 27 | 2,564 | 471 |
| 1989 | 1,537 | 157 |  |  |  |  | 54 | 17 | 1,078 | 115 | 132 | 18 | 2,801 | 307 |
| 1990 | 1,569 | 680 |  |  |  |  | 48 | 20 | 633 | 259 | 129 | 17 | 2,379 | 976 |
| 1991 | 641 | 318 |  |  |  |  | 117 | 32 | 753 | 310 | 129 | 17 | 1,640 | 677 |
| 1992 | 873 | 89 |  |  |  |  | 56 | 19 | 911 | 131 | 181 | 24 | 2,021 | 263 |
| 1993 | 830 | 164 |  |  |  |  | 44 | 2 | 929 | 142 | 386 | 52 | 2,189 | 360 |
| 1994 | 1,016 | 158 |  |  |  |  | 76 | 1 | 698 | 191 | 218 | 29 | 2,008 | 379 |
| 1995 | 1,067 | 599 |  |  |  |  | 9 | 17 | 570 | 244 | 107 | 14 | 1,753 | 874 |
| 1996 | 1,708 | 221 |  |  |  |  | 41 | 44 | 722 | 156 | 162 | 22 | 2,633 | 443 |
| 1997 | 3,283 | 186 |  |  |  |  | 45 | 6 | 1,155 | 94 | 188 | 25 | 4,671 | 311 |
| 1998 | 1,614 | 328 |  |  |  |  | 12 | 0 | 538 | 95 | 165 | 22 | 2,329 | 445 |
| 1999 | 2,127 | 789 |  |  |  |  | 24 | 12 | 765 | 463 | 166 | 22 | 3,082 | 1,286 |
| 2000 | 1,970 | 240 |  |  |  |  | 7 | 2 | 1,109 | 386 | 226 | 30 | 3,312 | 658 |
| 2001 | 826 | 59 |  |  |  |  | 0 | 0 | 665 | 44 | 190 | 12 | 1,681 | 115 |
| 2002 | 433 | 209 |  |  |  |  | 2 | 3 | 927 | 366 | 420 | 46 | 1,782 | 624 |
| 2003 | 695 | 672 |  |  |  |  | 19 | 12 | 682 | 373 | 167 | 46 | 1,563 | 1,103 |
| 2004 | 2,481 | 2,070 |  |  |  |  | 0 | 1 | 1,425 | 497 | 91 | 18 | 3,997 | 2,586 |
| 2005 | 19,070 | 1,181 |  |  |  |  | 28 | 1 | 800 | 94 | 118 |  | 20,016 | 1,276 |
| 2006 | 15,098 | 1,955 |  |  |  |  | 22 | 1 | 616 | 122 | 40 |  | 15,776 | 2,078 |
| 2007 | 10,131 | 1,469 |  |  |  |  | 10 | 25 | 364 | 233 | 0 |  | 10,505 | 1,727 |
| 2008 | 7,051 | 908 |  |  |  |  | 40 | 9 | 769 | 150 | 46 |  | 7,906 | 1,067 |
| 2009 | 1,587 | 498 | 339 | 170 | 153 | 77 | 11 | 26 | 496 | 136 | 20 |  | 2,284 | 737 |
| 2010 | 1,209 | 698 | 64 | 32 | 56 | 28 | 16 | 48 | 512 | 232 | 50 |  | 1,819 | 1,006 |
| 2011 | 1,737 | 1,260 | 58 | 29 | 100 | 50 | 2 | 14 | 515 | 218 | 53 | 23 | 2,336 | 1,565 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-10 | 3,069 | 560 |  |  |  |  | 44 | 16 | 819 | 226 | 148 | 24 | 4,088 | 824 |
| 01-10 | 5,858 | 972 |  |  |  |  | 15 | 13 | 726 | 225 | 114 | 31 | 6,733 | 1,232 |

Appendix B. 6. Chinook salmon harvest in inriver test fisheries in the Stikine River, 1985-2011.

| Year | Drift |  | Set |  | Additional drift |  | Commercial license |  | Tuya |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |
| 1985 |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 1986 | 27 | 12 |  |  |  |  |  |  |  |  | 27 | 12 |
| 1987 | 128 |  | 61 |  |  |  |  |  |  |  | 189 | 0 |
| 1988 | 168 | 14 | 101 | 15 |  |  |  |  |  |  | 269 | 29 |
| 1989 | 116 | 4 | 101 | 20 |  |  |  |  |  |  | 217 | 24 |
| 1990 | 167 | 6 | 64 | 12 |  |  |  |  |  |  | 231 | 18 |
| 1991 | 90 | 1 | 77 | 15 |  |  |  |  |  |  | 167 | 16 |
| 1992 | 135 | 27 | 62 | 21 | 417 | 134 |  |  |  |  | 614 | 182 |
| 1993 | 94 | 11 | 85 | 11 | 389 | 65 |  |  |  |  | 568 | 87 |
| 1994 | 43 | 4 | 74 | 34 | 178 | 40 |  |  |  |  | 295 | 78 |
| 1995 | 18 | 13 | 61 | 35 | 169 | 136 |  |  |  |  | 248 | 184 |
| 1996 | 42 | 5 | 64 | 40 | 192 | 31 |  |  |  |  | 298 | 76 |
| 1997 | 30 | 7 |  |  |  |  |  |  |  |  | 30 | 7 |
| 1998 | 25 | 11 |  |  |  |  |  |  |  |  | 25 | 11 |
| 1999 | 53 | 43 | 49 | 16 | 751 | 38 |  |  |  |  | 853 | 97 |
| 2000 | 59 | 4 | 87 | 0 | 787 | 14 |  |  |  |  | 933 | 18 |
| 2001 | 128 | 3 | 56 | 7 | 1,652 | 49 |  |  |  |  | 1,836 | 59 |
| 2002 | 63 | 50 | 48 | 56 | 1,545 | 217 |  |  |  |  | 1,656 | 323 |
| 2003 | 64 | 62 | 14 | 91 | 1,225 | 617 |  |  |  |  | 1,303 | 770 |
| 2004 | 29 | 41 | 22 | 39 | 0 | 0 |  |  |  |  | 51 | 80 |
| 2005 | 14 | 8 | 19 | 13 | 0 | 0 |  |  |  |  | 33 | 21 |
| 2006 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  | 0 | 0 |
| 2007 | 2 | 0 | 3 | 0 | 0 | 0 |  |  |  |  | 5 | 0 |
| 2008 | 7 | 2 | 6 | 8 | 0 | 0 |  |  | 13 |  | 26 | 10 |
| 2009 | 3 | 0 | 0 | 0 | 0 | 0 |  |  | 29 |  | 32 | 0 |
| 2010 | 2 | 0 | 3 | 1 | 0 | 0 | 1,364 | 140 | 8 | 8 | 1,377 | 149 |
| 2011 | 22 | 28 | 0 | 1 | 0 | 0 | 799 | 219 | 13 | 6 | 834 | 254 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-10 | 60 | 14 | 48 | 21 | 406 | 75 |  |  |  |  | 451 | 90 |
| 01-10 | 31 | 17 | 17 | 22 | 442 | 88 |  |  |  |  | 632 | 141 |

Appendix B. 7. Index counts of Stikine large Chinook salmon escapements, 1979-2011.

| Inriver run and escapement generated from mark-recapture studies, inriver and marine harvest as reported in ADF\&G fisheries data series reports Total run from jointly accepted US and Canadian harvest estimates. Terminal run includes only harvest in the Stikine River and District 108. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Inriver <br> Run | Inriver harvest | Escapement | Marine <br> harvest | Terminal Run | $\begin{gathered} \hline \text { \% to } \\ \text { Little Tahltan } \end{gathered}$ | Little Tahltan |  | Tahltan Aerial | Beatty Aerial | Andrew Creek | Andrew Comments |
|  |  |  |  |  |  |  | Weir | Aerial |  |  |  |  |
| 1979 |  |  |  |  |  |  |  | 1,166 | 2,118 |  | 327 | Weir inc. broodstock |
| 1980 |  |  |  |  |  |  |  | 2,137 | 960 | 122 | 282 | Weir inc. broodstock |
| 1981 |  |  |  |  |  |  |  | 3,334 | 1,852 | 558 | 536 | Weir inc. broodstock |
| 1982 |  |  |  |  |  |  |  | 2,830 | 1,690 | 567 | 672 | Weir inc. broodstock |
| 1983 |  |  |  |  |  |  |  | 594 | 453 | 83 | 366 | Weir inc. broodstock |
| 1984 |  |  |  |  |  |  |  | 1,294 |  | 126 | 389 | Weir inc. broodstock |
| 1985 |  |  |  |  |  |  | 3,114 | 1,598 | 1,490 | 147 | 624 | Foot |
| 1986 |  |  |  |  |  |  | 2,891 | 1,201 | 1,400 | 183 | 1,381 | Foot |
| 1987 |  |  |  |  |  |  | 4,783 | 2,706 | 1,390 | 312 | 1,537 | Heli |
| 1988 |  |  |  |  |  |  | 7,292 | 3,796 | 4,384 | 593 | 1,100 | Foot |
| 1989 |  |  |  |  |  |  | 4,715 | 2,527 |  | 362 | 1,034 | Aerial |
| 1990 |  |  |  |  |  |  | 4,392 | 1,755 | 2,134 | 271 | 1,295 | Foot |
| 1991 |  |  |  |  |  |  | 4,506 | 1,768 | 2,445 | 193 | 780 | Aerial |
| 1992 |  |  |  |  |  |  | 6,627 | 3,607 | 1,891 | 362 | 1,517 | Heli |
| 1993 |  |  |  |  |  |  | 11,437 | 4,010 | 2,249 | 757 | 2,067 | Foot |
| 1994 |  |  |  |  |  |  | 6,373 | 2,422 |  | 184 | 1,115 | Heli |
| 1995 |  |  |  |  |  |  | 3,072 | 1,117 | 696 | 152 | 669 | Foot |
| 1996 | 31,718 | 2,931 | 28,787 |  |  | 0.167 | 4,821 | 1,920 | 772 | 218 | 653 | Heli |
| 1997 | 31,509 | 4,701 | 26,808 |  |  | 0.207 | 5,547 | 1,907 | 260 | 218 | 571 | Foot |
| 1998 | 28,133 | 2,354 | 25,779 |  |  | 0.189 | 4,873 | 1,385 | 587 | 125 | 950 | Foot |
| 1999 | 23,716 | 3,935 | 19,781 |  |  | 0.239 | 4,733 | 1,379 |  |  | 1,180 | Aerial |
| 2000 | 30,301 | 4,245 | 26,056 |  |  | 0.254 | 6,631 | 2,720 |  |  | 1,346 | Aerial |
| 2001 | 66,646 | 3,517 | 63,129 |  |  | 0.154 | 9,730 | 4,258 |  |  | 2,055 | Aerial |
| 2002 | 53,893 | 3,438 | 50,455 | 3,587 | 57,480 | 0.148 | 7,476 | Missed pe | k time due | weather | 1,708 | Aerial |
| 2003 | 49,881 | 2,866 | 47,015 | 3,895 | 53,776 | 0.138 | 6,492 | 1,903 |  |  | 1,160 | Foot |
| 2004 | 52,538 | 4,048 | 48,490 | 9,599 | 62,137 | 0.338 | 16,381 | 6,014 |  |  | 2,991 | Foot |
| 2005 | 59,885 | 20,049 | 39,836 | 27,882 | 87,767 | 0.182 | 7,253 |  |  |  | 1,979 | Foot |
| 2006 | 40,181 | 15,776 | 24,405 | 22,060 | 62,241 | 0.158 | 3,860 |  |  |  | 2,124 | Foot |
| 2007 | 25,069 | 10,510 | 14,559 | 10,885 | 35,954 | 0.039 | 562 |  |  |  | 1,736 | Aerial |
| 2008 | 26,284 | 7,932 | 18,352 | 7,335 | 33,619 | 0.145 | 2,663 |  |  |  | 981 | Heli |
| 2009 | 15,118 | 2,316 | 12,803 | 1,350 | 16,468 | 0.175 | 2,245 |  |  |  | 628 | Aerial |
| 2010 | 18,312 | 3,196 | 15,116 | 1,303 | 19,615 | 0.070 | 1,057 |  |  |  | 1,205 | Heli |
| 2011 | 17,652 | 3,170 | 14,482 | 2,145 | 19,797 | 0.073 | 1,058 |  |  |  | 936 | Foot |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 96-10 | 35,677 | 6,121 | 30,758 |  |  | 0.174 | 5,622 |  |  |  | 1,155 |  |
| 01-10 | 40,781 | 7,365 | 33,416 | 9,766 | 47,673 | 0.147 | 5,772 |  |  |  | 1,657 |  |

Appendix B. 8. General stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; District 106 \& 108, 1982-2011.

| Analysis based on SPA |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D106 |  |  | D106-41/42 |  |  | D106-30 |  |  | D108 |  |  |
|  | Alaska | Canada | Total Stikine | Alaska | Canada | Total Stikine | Alaska | Canada | Total Stikine | Alaska | Canada | Total Stikine |
| 1982 | 0.486 | 0.319 | 0.194 |  |  |  |  |  |  |  |  |  |
| 1983 | 0.668 | 0.217 | 0.116 |  |  |  |  |  |  |  |  |  |
| 1984 | 0.658 | 0.269 | 0.074 |  |  |  |  |  |  |  |  |  |
| 1985 | 0.479 | 0.419 | 0.102 | 0.480 | 0.401 | 0.119 | 0.477 | 0.453 | 0.070 | 0.064 | 0.000 | 0.936 |
| 1986 | 0.689 | 0.293 | 0.018 | 0.662 | 0.308 | 0.030 | 0.726 | 0.272 | 0.002 | 0.206 | 0.017 | 0.777 |
| 1987 | 0.827 | 0.155 | 0.017 | 0.816 | 0.166 | 0.018 | 0.844 | 0.140 | 0.016 | 0.125 | 0.000 | 0.875 |
| 1988 | 0.874 | 0.106 | 0.020 | 0.868 | 0.112 | 0.020 | 0.883 | 0.095 | 0.021 | 0.213 | 0.039 | 0.749 |
| 1989 | 0.657 | 0.311 | 0.032 | 0.653 | 0.303 | 0.044 | 0.662 | 0.322 | 0.016 | 0.117 | 0.054 | 0.829 |
| 1990 | 0.608 | 0.371 | 0.021 | 0.579 | 0.395 | 0.026 | 0.645 | 0.340 | 0.015 | 0.395 | 0.128 | 0.477 |
| 1991 | 0.545 | 0.331 | 0.124 | 0.460 | 0.377 | 0.163 | 0.683 | 0.257 | 0.060 | 0.173 | 0.118 | 0.709 |
| 1992 | 0.595 | 0.232 | 0.172 | 0.582 | 0.241 | 0.177 | 0.630 | 0.211 | 0.159 | 0.163 | 0.051 | 0.786 |
| 1993 | 0.400 | 0.338 | 0.262 | 0.369 | 0.327 | 0.304 | 0.451 | 0.357 | 0.192 | 0.231 | 0.114 | 0.655 |
| 1994 | 0.579 | 0.254 | 0.167 | 0.531 | 0.271 | 0.198 | 0.718 | 0.207 | 0.075 | 0.326 | 0.208 | 0.466 |
| 1995 | 0.316 | 0.560 | 0.124 | 0.287 | 0.565 | 0.149 | 0.370 | 0.551 | 0.079 | 0.135 | 0.204 | 0.661 |
| 1996 | 0.531 | 0.268 | 0.201 | 0.479 | 0.245 | 0.276 | 0.665 | 0.326 | 0.010 | 0.102 | 0.082 | 0.816 |
| 1997 | 0.576 | 0.271 | 0.153 | 0.538 | 0.269 | 0.193 | 0.668 | 0.276 | 0.056 | 0.058 | 0.131 | 0.812 |
| 1998 | 0.598 | 0.307 | 0.095 | 0.550 | 0.337 | 0.113 | 0.710 | 0.237 | 0.053 | 0.115 | 0.108 | 0.777 |
| 1999 | 0.671 | 0.092 | 0.237 | 0.618 | 0.101 | 0.281 | 0.795 | 0.072 | 0.133 | 0.144 | 0.036 | 0.820 |
| 2000 | 0.643 | 0.233 | 0.124 | 0.611 | 0.223 | 0.167 | 0.702 | 0.252 | 0.046 | 0.204 | 0.128 | 0.669 |
| 2001 | 0.525 | 0.332 | 0.143 | 0.493 | 0.336 | 0.171 | 0.574 | 0.327 | 0.099 | 0.775 | 0.098 | 0.126 |
| 2002 | 0.758 | 0.098 | 0.144 | 0.730 | 0.101 | 0.169 | 0.824 | 0.091 | 0.085 | 0.875 | 0.120 | 0.005 |
| 2003 | 0.742 | 0.096 | 0.162 | 0.700 | 0.095 | 0.204 | 0.872 | 0.100 | 0.029 | 0.227 | 0.118 | 0.655 |
| 2004 | 0.499 | 0.222 | 0.279 | 0.413 | 0.227 | 0.359 | 0.741 | 0.206 | 0.053 | 0.100 | 0.030 | 0.869 |
| 2005 | 0.474 | 0.317 | 0.209 | 0.405 | 0.338 | 0.256 | 0.689 | 0.250 | 0.061 | 0.128 | 0.178 | 0.694 |
| 2006 | 0.364 | 0.362 | 0.274 | 0.270 | 0.332 | 0.398 | 0.527 | 0.415 | 0.059 | 0.067 | 0.130 | 0.803 |
| 2007 | 0.471 | 0.120 | 0.409 | 0.367 | 0.126 | 0.507 | 0.846 | 0.098 | 0.057 | 0.179 | 0.133 | 0.688 |
| 2008 | 0.281 | 0.164 | 0.555 | 0.177 | 0.151 | 0.672 | 0.500 | 0.190 | 0.309 | 0.089 | 0.110 | 0.801 |
| 2009 | 0.402 | 0.215 | 0.382 | 0.326 | 0.214 | 0.460 | 0.613 | 0.219 | 0.168 | 0.073 | 0.110 | 0.817 |
| 2010 | 0.691 | 0.185 | 0.123 | 0.585 | 0.207 | 0.208 | 0.809 | 0.161 | 0.030 | 0.150 | 0.083 | 0.767 |
| 2011 | 0.689 | 0.101 | 0.211 | 0.574 | 0.118 | 0.309 | 0.884 | 0.073 | 0.044 | 0.155 | 0.042 | 0.803 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-10 | 0.573 | 0.257 | 0.170 | 0.521 | 0.260 | 0.219 | 0.678 | 0.247 | 0.075 | 0.209 | 0.097 | 0.694 |
| 01-10 | 0.521 | 0.211 | 0.268 | 0.447 | 0.213 | 0.341 | 0.699 | 0.206 | 0.095 | 0.266 | 0.111 | 0.623 |
| 1982 | 94,276 | 61,854 | 37,671 |  |  |  |  |  |  |  |  |  |
| 1983 | 32,603 | 10,589 | 5,650 |  |  |  |  |  |  |  |  |  |
| 1984 | 60,278 | 24,624 | 6,751 |  |  |  |  |  |  |  |  |  |
| 1985 | 126,914 | 111,015 | 27,058 | 82,563 | 68,962 | 20,563 | 44,351 | 42,053 | 6,495 | 68 | 0 | 992 |
| 1986 | 100,337 | 42,685 | 2,687 | 56,462 | 26,214 | 2,571 | 43,875 | 16,471 | 116 | 862 | 71 | 3,252 |
| 1987 | 112,893 | 21,190 | 2,344 | 64,582 | 13,170 | 1,413 | 48,311 | 8,020 | 931 | 203 | 0 | 1,418 |
| 1988 | 80,868 | 9,784 | 1,877 | 49,776 | 6,426 | 1,135 | 31,092 | 3,358 | 742 | 265 | 48 | 933 |
| 1989 | 126,603 | 59,959 | 6,172 | 70,436 | 32,663 | 4,787 | 56,167 | 27,296 | 1,385 | 1,180 | 545 | 8,358 |
| 1990 | 112,983 | 68,921 | 3,901 | 60,795 | 41,415 | 2,712 | 52,188 | 27,506 | 1,189 | 4,576 | 1,479 | 5,519 |
| 1991 | 78,533 | 47,707 | 17,864 | 41,123 | 33,644 | 14,588 | 37,410 | 14,063 | 3,277 | 3,116 | 2,117 | 12,754 |
| 1992 | 120,977 | 47,207 | 34,971 | 85,364 | 35,277 | 25,967 | 35,613 | 11,930 | 9,004 | 8,604 | 2,696 | 41,417 |
| 1993 | 82,300 | 69,617 | 54,037 | 47,970 | 42,450 | 39,438 | 34,330 | 27,167 | 14,599 | 17,758 | 8,742 | 50,374 |
| 1994 | 122,118 | 53,683 | 35,247 | 83,692 | 42,620 | 31,214 | 38,426 | 11,063 | 4,033 | 31,715 | 20,250 | 45,259 |
| 1995 | 65,544 | 116,075 | 25,679 | 38,343 | 75,505 | 19,865 | 27,201 | 40,570 | 5,814 | 10,374 | 15,641 | 50,741 |
| 1996 | 165,221 | 83,271 | 62,608 | 107,193 | 54,823 | 61,768 | 58,028 | 28,448 | 840 | 15,755 | 12,618 | 125,777 |
| 1997 | 97,101 | 45,665 | 25,752 | 63,827 | 31,892 | 22,956 | 33,274 | 13,773 | 2,796 | 5,381 | 12,152 | 75,506 |
| 1998 | 67,890 | 34,811 | 10,734 | 43,479 | 26,661 | 8,912 | 24,411 | 8,150 | 1,822 | 2,541 | 2,376 | 17,114 |
| 1999 | 70,334 | 9,692 | 24,809 | 45,302 | 7,415 | 20,608 | 25,036 | 2,277 | 4,197 | 5,263 | 1,315 | 30,023 |
| 2000 | 57,935 | 20,996 | 11,145 | 35,327 | 12,875 | 9,661 | 22,608 | 8,121 | 1,484 | 3,226 | 2,019 | 10,588 |
| 2001 | 86,078 | 54,512 | 23,423 | 48,906 | 33,309 | 17,004 | 37,172 | 21,203 | 6,419 | 473 | 60 | 77 |
| 2002 | 42,573 | 5,487 | 8,075 | 28,487 | 3,928 | 6,615 | 14,086 | 1,559 | 1,460 | 182 | 25 | 1 |
| 2003 | 86,720 | 11,264 | 18,920 | 62,037 | 8,446 | 18,112 | 24,683 | 2,818 | 808 | 9,568 | 4,958 | 27,632 |
| 2004 | 58,006 | 25,787 | 32,467 | 35,521 | 19,534 | 30,874 | 22,485 | 6,253 | 1,593 | 10,375 | 3,136 | 89,882 |
| 2005 | 52,192 | 34,952 | 23,048 | 33,909 | 28,312 | 21,426 | 18,283 | 6,640 | 1,622 | 12,742 | 17,661 | 69,062 |
| 2006 | 33,454 | 33,337 | 25,189 | 15,750 | 19,394 | 23,215 | 17,704 | 13,943 | 1,975 | 4,088 | 7,973 | 49,237 |
| 2007 | 43,523 | 11,102 | 37,855 | 26,549 | 9,142 | 36,720 | 16,974 | 1,960 | 1,136 | 12,653 | 9,374 | 48,554 |
| 2008 | 8,593 | 4,997 | 16,943 | 3,649 | 3,117 | 13,886 | 4,944 | 1,880 | 3,057 | 3,189 | 3,919 | 28,571 |
| 2009 | 45,047 | 24,132 | 42,805 | 26,817 | 17,614 | 37,795 | 18,231 | 6,518 | 5,009 | 2,674 | 4,038 | 29,968 |
| 2010 | 77,721 | 20,842 | 13,887 | 34,578 | 12,253 | 12,274 | 43,143 | 8,588 | 1,613 | 4,906 | 2,725 | 25,106 |
| 2011 | 100,590 | 14,734 | 30,765 | 52,769 | 10,806 | 28,380 | 47,820 | 3,928 | 2,385 | 7,985 | 2,143 | 41,351 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-10 | 79,642 | 40,199 | 22,054 | 49,709 | 27,195 | 19,465 | 31,924 | 13,909 | 3,208 | 6,605 | 5,228 | 32,620 |
| 01-10 | 53,391 | 22,641 | 24,261 | 31,620 | 15,505 | 21,792 | 21,771 | 7,136 | 2,469 | 6,085 | 5,387 | 36,809 |

Appendix B. 9. Stikine stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1982-2011.

| Analysis is based on SPA |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | D106 |  |  | D106-41/42 |  |  | D106-30 |  |  | D108 |  |  |
| Year | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 | 0.103 |  | 0.013 |  |  |  |  |  |  |  |  |  |
| 1984 | 0.029 |  | 0.044 |  |  |  |  |  |  |  |  |  |
| 1985 | 0.091 |  | 0.011 | 0.109 |  | 0.010 | 0.056 |  | 0.013 | 0.292 |  | 0.644 |
| 1986 | 0.014 |  | 0.004 | 0.024 |  | 0.006 | 0.000 |  | 0.002 | 0.094 |  | 0.683 |
| 1987 | 0.010 |  | 0.007 | 0.015 |  | 0.003 | 0.004 |  | 0.012 | 0.438 |  | 0.437 |
| 1988 | 0.020 |  | 0.001 | 0.019 |  | 0.001 | 0.021 |  | 0.000 | 0.178 |  | 0.571 |
| 1989 | 0.006 |  | 0.026 | 0.009 |  | 0.036 | 0.002 |  | 0.015 | 0.034 |  | 0.795 |
| 1990 | 0.005 |  | 0.016 | 0.008 |  | 0.018 | 0.001 |  | 0.013 | 0.111 |  | 0.366 |
| 1991 | 0.100 |  | 0.024 | 0.129 |  | 0.034 | 0.052 |  | 0.008 | 0.395 |  | 0.314 |
| 1992 | 0.070 |  | 0.102 | 0.088 |  | 0.089 | 0.022 |  | 0.138 | 0.258 |  | 0.528 |
| 1993 | 0.098 |  | 0.164 | 0.134 |  | 0.169 | 0.036 |  | 0.156 | 0.256 |  | 0.399 |
| 1994 | 0.142 |  | 0.025 | 0.166 |  | 0.032 | 0.069 |  | 0.006 | 0.362 |  | 0.103 |
| 1995 | 0.081 | 0.001 | 0.043 | 0.099 | 0.001 | 0.048 | 0.047 | 0.000 | 0.032 | 0.455 | 0.006 | 0.200 |
| 1996 | 0.166 | 0.028 | 0.007 | 0.228 | 0.039 | 0.009 | 0.008 | 0.001 | 0.001 | 0.622 | 0.069 | 0.125 |
| 1997 | 0.058 | 0.079 | 0.016 | 0.079 | 0.101 | 0.014 | 0.009 | 0.026 | 0.021 | 0.362 | 0.261 | 0.189 |
| 1998 | 0.015 | 0.080 | 0.000 | 0.017 | 0.096 | 0.000 | 0.010 | 0.043 | 0.000 | 0.189 | 0.244 | 0.343 |
| 1999 | 0.057 | 0.061 | 0.118 | 0.074 | 0.079 | 0.128 | 0.018 | 0.020 | 0.095 | 0.414 | 0.201 | 0.205 |
| 2000 | 0.020 | 0.085 | 0.019 | 0.028 | 0.116 | 0.023 | 0.007 | 0.027 | 0.012 | 0.132 | 0.261 | 0.275 |
| 2001 | 0.039 | 0.079 | 0.025 | 0.032 | 0.112 | 0.028 | 0.049 | 0.029 | 0.021 | 0.000 | 0.005 | 0.121 |
| 2002 | 0.037 | 0.072 | 0.035 | 0.049 | 0.087 | 0.034 | 0.009 | 0.039 | 0.037 | 0.000 | 0.000 | 0.005 |
| 2003 | 0.075 | 0.053 | 0.035 | 0.097 | 0.068 | 0.040 | 0.005 | 0.005 | 0.019 | 0.179 | 0.062 | 0.414 |
| 2004 | 0.241 | 0.020 | 0.018 | 0.315 | 0.026 | 0.018 | 0.031 | 0.005 | 0.017 | 0.613 | 0.018 | 0.239 |
| 2005 | 0.182 | 0.000 | 0.027 | 0.227 | 0.000 | 0.029 | 0.041 | 0.000 | 0.020 | 0.437 | 0.000 | 0.257 |
| 2006 | 0.203 | 0.056 | 0.016 | 0.304 | 0.078 | 0.016 | 0.027 | 0.017 | 0.015 | 0.588 | 0.081 | 0.135 |
| 2007 | 0.322 | 0.082 | 0.005 | 0.403 | 0.099 | 0.005 | 0.028 | 0.021 | 0.007 | 0.474 | 0.147 | 0.067 |
| 2008 | 0.165 | 0.238 | 0.152 | 0.168 | 0.336 | 0.169 | 0.158 | 0.033 | 0.118 | 0.352 | 0.291 | 0.159 |
| 2009 | 0.215 | 0.090 | 0.077 | 0.287 | 0.104 | 0.068 | 0.016 | 0.050 | 0.103 | 0.360 | 0.225 | 0.232 |
| 2010 | 0.047 | 0.051 | 0.026 | 0.084 | 0.088 | 0.036 | 0.005 | 0.011 | 0.015 | 0.356 | 0.178 | 0.234 |
| 2011 | 0.094 | 0.066 | 0.050 | 0.146 | 0.098 | 0.065 | 0.005 | 0.013 | 0.025 | 0.445 | 0.142 | 0.216 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-10 | 0.093 | 0.067 | 0.038 | 0.123 | 0.089 | 0.041 | 0.028 | 0.020 | 0.034 | 0.306 | 0.128 | 0.309 |
| 01-10 | 0.152 | 0.074 | 0.042 | 0.197 | 0.100 | 0.044 | 0.037 | 0.021 | 0.037 | 0.336 | 0.101 | 0.186 |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 | 5,020 |  | 631 |  |  |  |  |  |  |  |  |  |
| 1984 | 2,673 |  | 4,078 |  |  |  |  |  |  |  |  |  |
| 1985 | 24,045 |  | 3,013 | 18,801 |  | 1,762 | 5,244 |  | 1,251 | 310 |  | 683 |
| 1986 | 2,081 |  | 606 | 2,070 |  | 501 | 11 |  | 105 | 393 |  | 2,858 |
| 1987 | 1,376 |  | 968 | 1,155 |  | 258 | 221 |  | 710 | 710 |  | 708 |
| 1988 | 1,813 |  | 64 | 1,071 |  | 64 | 742 |  | 0 | 222 |  | 711 |
| 1989 | 1,111 |  | 5,061 | 957 |  | 3,830 | 154 |  | 1,231 | 341 |  | 8,017 |
| 1990 | 915 |  | 2,986 | 801 |  | 1,911 | 114 |  | 1,075 | 1,280 |  | 4,239 |
| 1991 | 14,364 |  | 3,501 | 11,541 |  | 3,048 | 2,823 |  | 453 | 7,112 |  | 5,642 |
| 1992 | 14,187 |  | 20,784 | 12,961 |  | 13,005 | 1,226 |  | 7,778 | 13,599 |  | 27,818 |
| 1993 | 20,204 |  | 33,833 | 17,446 |  | 21,992 | 2,758 |  | 11,841 | 19,688 |  | 30,686 |
| 1994 | 29,876 |  | 5,371 | 26,164 |  | 5,050 | 3,712 |  | 321 | 35,222 |  | 10,037 |
| 1995 | 16,715 | 125 | 8,839 | 13,292 | 125 | 6,448 | 3,423 | 0 | 2,391 | 34,950 | 461 | 15,330 |
| 1996 | 51,598 | 8,821 | 2,189 | 50,924 | 8,731 | 2,113 | 674 | 90 | 76 | 95,837 | 10,621 | 19,319 |
| 1997 | 9,764 | 13,232 | 2,756 | 9,327 | 11,937 | 1,692 | 437 | 1,295 | 1,064 | 33,644 | 24,288 | 17,574 |
| 1998 | 1,678 | 9,020 | 36 | 1,326 | 7,555 | 31 | 352 | 1,465 | 5 | 4,170 | 5,383 | 7,561 |
| 1999 | 5,986 | 6,424 | 12,399 | 5,421 | 5,782 | 9,405 | 563 | 641 | 2,993 | 15,156 | 7,371 | 7,497 |
| 2000 | 1,827 | 7,612 | 1,706 | 1,617 | 6,727 | 1,317 | 210 | 885 | 389 | 2,097 | 4,138 | 4,353 |
| 2001 | 6,339 | 12,965 | 4,119 | 3,164 | 11,063 | 2,777 | 3,175 | 1,902 | 1,342 | 0 | 3 | 74 |
| 2002 | 2,055 | 4,058 | 1,962 | 1,896 | 3,394 | 1,325 | 159 | 664 | 637 | 0 | 0 | 1 |
| 2003 | 8,736 | 6,145 | 4,039 | 8,595 | 6,016 | 3,501 | 141 | 129 | 538 | 7,562 | 2,615 | 17,455 |
| 2004 | 28,027 | 2,382 | 2,058 | 27,098 | 2,244 | 1,532 | 929 | 138 | 526 | 63,347 | 1,869 | 24,666 |
| 2005 | 20,080 | 0 | 2,968 | 18,979 | 0 | 2,447 | 1,101 | 0 | 521 | 43,467 | 0 | 25,595 |
| 2006 | 18,640 | 5,122 | 1,427 | 17,729 | 4,553 | 933 | 911 | 569 | 494 | 36,021 | 4,944 | 8,272 |
| 2007 | 29,759 | 7,612 | 484 | 29,196 | 7,182 | 342 | 563 | 430 | 142 | 33,439 | 10,398 | 4,716 |
| 2008 | 5,031 | 7,261 | 4,651 | 3,467 | 6,936 | 3,483 | 1,564 | 325 | 1,168 | 12,547 | 10,365 | 5,659 |
| 2009 | 24,085 | 10,080 | 8,640 | 23,623 | 8,589 | 5,583 | 462 | 1,491 | 3,057 | 13,188 | 8,271 | 8,508 |
| 2010 | 5,231 | 5,775 | 2,882 | 4,959 | 5,210 | 2,105 | 272 | 565 | 776 | 11,645 | 5,811 | 7,651 |
| 2011 | 13,750 | 9,693 | 7,323 | 13,454 | 8,972 | 5,954 | 296 | 721 | 1,368 | 22,916 | 7,307 | 11,127 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-10 | 12,615 | 6,665 | 5,073 | 12,061 | 6,003 | 3,710 | 1,229 | 662 | 1,572 | 18,690 | 6,034 | 10,217 |
| 01-10 | 14,798 | 6,140 | 3,323 | 13,871 | 5,519 | 2,403 | 928 | 621 | 920 | 22,122 | 4,428 | 10,260 |

Appendix B. 10. Tahltan sockeye salmon stock proportions and harvest of in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1994-2011.

|  | D106 |  |  | D106-41/42 |  |  | D106-30 |  |  | D108 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan |
| 1994 | 0.142 | 0.033 | 0.108 | 0.166 | 0.040 | 0.127 | 0.069 | 0.015 | 0.055 | 0.362 | 0.116 | 0.246 |
| 1995 | 0.081 | 0.036 | 0.044 | 0.099 | 0.051 | 0.049 | 0.047 | 0.010 | 0.036 | 0.455 | 0.257 | 0.198 |
| 1996 | 0.166 | 0.019 | 0.147 | 0.228 | 0.025 | 0.203 | 0.008 | 0.002 | 0.006 | 0.622 | 0.070 | 0.552 |
| 1997 | 0.058 | 0.021 | 0.037 | 0.079 | 0.023 | 0.056 | 0.009 | 0.015 | -0.006 | 0.362 | 0.102 | 0.260 |
| 1998 | 0.015 | 0.002 | 0.013 | 0.017 | 0.003 | 0.014 | 0.010 | 0.000 | 0.010 | 0.189 | 0.008 | 0.182 |
| 1999 | 0.057 | 0.003 | 0.054 | 0.074 | 0.004 | 0.070 | 0.018 | 0.001 | 0.017 | 0.414 | 0.024 | 0.390 |
| 2000 | 0.020 | 0.003 | 0.017 | 0.028 | 0.004 | 0.024 | 0.007 | 0.000 | 0.007 | 0.132 | 0.032 | 0.100 |
| 2001 | 0.039 | 0.010 | 0.029 | 0.032 | 0.015 | 0.017 | 0.049 | 0.002 | 0.047 | 0.000 | 0.000 | 0.000 |
| 2002 | 0.037 | 0.012 | 0.024 | 0.049 | 0.017 | 0.031 | 0.009 | 0.000 | 0.009 | 0.000 | 0.000 | 0.000 |
| 2003 | 0.075 | 0.036 | 0.039 | 0.097 | 0.047 | 0.050 | 0.005 | 0.001 | 0.004 | 0.179 | 0.087 | 0.092 |
| 2004 | 0.241 | 0.097 | 0.144 | 0.315 | 0.125 | 0.191 | 0.031 | 0.020 | 0.011 | 0.613 | 0.252 | 0.361 |
| 2005 | 0.182 | 0.094 | 0.088 | 0.227 | 0.123 | 0.104 | 0.041 | 0.002 | 0.039 | 0.437 | 0.258 | 0.179 |
| 2006 | 0.203 | 0.113 | 0.090 | 0.304 | 0.174 | 0.130 | 0.027 | 0.007 | 0.020 | 0.588 | 0.331 | 0.257 |
| 2007 | 0.322 | 0.200 | 0.122 | 0.403 | 0.251 | 0.152 | 0.028 | 0.015 | 0.013 | 0.474 | 0.324 | 0.150 |
| 2008 | 0.165 | 0.073 | 0.091 | 0.168 | 0.106 | 0.062 | 0.158 | 0.004 | 0.154 | 0.352 | 0.165 | 0.186 |
| 2009 | 0.215 | 0.063 | 0.152 | 0.287 | 0.084 | 0.203 | 0.016 | 0.004 | 0.012 | 0.360 | 0.097 | 0.262 |
| 2010 | 0.047 | 0.019 | 0.027 | 0.084 | 0.034 | 0.049 | 0.005 | 0.002 | 0.003 | 0.356 | 0.143 | 0.213 |
| 2011 | 0.094 | 0.051 | 0.043 | 0.146 | 0.079 | 0.067 | 0.005 | 0.003 | 0.003 | 0.445 | 0.191 | 0.254 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-10 | 0.121 | 0.049 | 0.072 | 0.156 | 0.066 | 0.090 | 0.032 | 0.006 | 0.026 | 0.347 | 0.133 | 0.213 |
| 01-10 | 0.152 | 0.072 | 0.081 | 0.197 | 0.098 | 0.099 | 0.037 | 0.006 | 0.031 | 0.336 | 0.166 | 0.170 |
| 1994 | 29,876 | 7,019 | 22,857 | 26,164 | 6,230 | 19,934 | 3,712 | 789 | 2,923 | 35,222 | 11,286 | 23,936 |
| 1995 | 16,715 | 7,533 | 9,182 | 13,292 | 6,778 | 6,514 | 3,423 | 755 | 2,668 | 34,950 | 19,726 | 15,224 |
| 1996 | 51,598 | 5,772 | 45,826 | 50,924 | 5,584 | 45,340 | 674 | 188 | 486 | 95,837 | 10,796 | 85,041 |
| 1997 | 9,764 | 3,483 | 6,281 | 9,327 | 2,733 | 6,594 | 437 | 750 | -313 | 33,644 | 9,500 | 24,144 |
| 1998 | 1,678 | 201 | 1,477 | 1,326 | 201 | 1,125 | 352 | 0 | 352 | 4,170 | 170 | 4,000 |
| 1999 | 5,986 | 288 | 5,698 | 5,421 | 266 | 5,155 | 563 | 22 | 541 | 15,156 | 877 | 14,279 |
| 2000 | 1,827 | 254 | 1,573 | 1,617 | 254 | 1,363 | 210 | 0 | 210 | 2,097 | 506 | 1,591 |
| 2001 | 6,339 | 1,592 | 4,747 | 3,164 | 1,441 | 1,723 | 3,175 | 151 | 3,024 | 0 | 0 | 0 |
| 2002 | 2,055 | 680 | 1,375 | 1,896 | 680 | 1,216 | 159 | 0 | 159 | 0 | 0 | 0 |
| 2003 | 8,736 | 4,186 | 4,550 | 8,595 | 4,161 | 4,434 | 141 | 25 | 116 | 7,562 | 3,666 | 3,896 |
| 2004 | 28,027 | 11,306 | 16,721 | 27,098 | 10,713 | 16,385 | 929 | 593 | 336 | 63,347 | 26,073 | 37,274 |
| 2005 | 20,080 | 10,356 | 9,724 | 18,979 | 10,292 | 8,687 | 1,101 | 64 | 1,037 | 43,467 | 25,614 | 17,853 |
| 2006 | 18,640 | 10,363 | 8,277 | 17,729 | 10,126 | 7,603 | 911 | 237 | 674 | 36,021 | 20,259 | 15,762 |
| 2007 | 29,759 | 18,506 | 11,253 | 29,196 | 18,198 | 10,998 | 563 | 308 | 255 | 33,439 | 22,867 | 10,572 |
| 2008 | 5,031 | 2,240 | 2,791 | 3,467 | 2,196 | 1,271 | 1,564 | 44 | 1,520 | 12,547 | 5,899 | 6,648 |
| 2009 | 24,085 | 7,053 | 17,032 | 23,623 | 6,938 | 16,685 | 462 | 115 | 267 | 13,188 | 3,560 | 9,628 |
| 2010 | 5,231 | 2,140 | 3,091 | 4,959 | 2,035 | 2,924 | 272 | 105 | 121 | 11,645 | 4,665 | 6,980 |
| 2011 | 13,750 | 7,449 | 6,301 | 13,454 | 7,300 | 6,155 | 296 | 150 | 146 | 22,916 | 9,834 | 13,083 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-10 | 15,613 | 5,469 | 10,144 | 14,516 | 5,225 | 9,291 | 1,097 | 244 | 846 | 26,017 | 9,733 | 16,284 |
| 01-10 | 14,798 | 6,842 | 7,956 | 13,871 | 6,678 | 7,193 | 928 | 164 | 751 | 22,122 | 11,260 | 10,861 |

Appendix B. 11. Stikine River sockeye salmon harvest in the U.S. Subsistence fishery, 2004-2011.
Stocks were proportioned based on using inriver stock comps

| Year | All Tahltan | Tuya | Mainstem | Total | All Tahltan | Tuya | Mainstem | TahltanEnhance | WildTahltan |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2004 | 0.664 | 0.026 | 0.311 | 243 | 161 | 6 | 75 | 65 | 96 |
| 2005 | 0.662 | 0.020 | 0.318 | 252 | 167 | 5 | 80 | 77 | 90 |
| 2006 | 0.672 | 0.144 | 0.185 | 390 | 262 | 56 | 72 | 146 | 116 |
| 2007 | 0.541 | 0.165 | 0.294 | 244 | 132 | 40 | 72 | 67 | 65 |
| 2008 | 0.385 | 0.326 | 0.289 | 428 | 165 | 139 | 124 | 80 | 85 |
| 2009 | 0.541 | 0.244 | 0.215 | 723 | 391 | 176 | 156 | 101 | 290 |
| 2010 | 0.417 | 0.289 | 0.294 | 1,653 | 689 | 479 | 485 | 184 | 505 |
| 2011 | 0.467 | 0.205 | 0.328 | 1,741 | 814 | 356 | 571 | 309 | 505 |

Appendix B. 12. Stock proportions of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2011.

| Year | Alaska | Canada | Stikine |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All Tahltan | Tuya | Mainstem | Total | TahltanEnhance | WildTahltan |
| Sub-district 106-41 (Sumner Strait) Proportions |  |  |  |  |  |  |  |  |
| 1984 | 0.658 | 0.269 | 0.029 |  | 0.044 | 0.074 |  |  |
| 1985 | 0.480 | 0.401 | 0.109 |  | 0.010 | 0.119 |  |  |
| 1986 | 0.834 | 0.149 | 0.008 |  | 0.009 | 0.017 |  |  |
| 1987 | 0.816 | 0.166 | 0.015 |  | 0.003 | 0.018 |  |  |
| 1988 | 0.868 | 0.098 | 0.034 |  | 0.000 | 0.034 |  |  |
| 1989 | 0.624 | 0.304 | 0.017 |  | 0.056 | 0.072 |  |  |
| 1990 | 0.548 | 0.416 | 0.014 |  | 0.022 | 0.035 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1994 | 0.500 | 0.250 | 0.250 |  | 0.000 | 0.250 | 0.083 | 0.167 |
| Sub-district 106-41 (Sumner Strait) harvest |  |  |  |  |  |  |  |  |
| 1984 | 901 | 368 | 40 |  | 61 | 101 |  |  |
| 1985 | 2,085 | 1,741 | 475 |  | 44 | 519 |  |  |
| 1986 | 819 | 146 | 8 |  | 9 | 17 |  |  |
| 1987 | 2,169 | 442 | 39 |  | 9 | 47 |  |  |
| 1988 | 886 | 100 | 35 |  | 0 | 35 |  |  |
| 1989 | 1,274 | 621 | 34 |  | 114 | 148 |  |  |
| 1990 | 1,237 | 939 | 31 |  | 49 | 80 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1994 | 6 | 3 | 3 |  | 0 | 3 |  |  |
| Sub-district 106-30 (Clarence Strait) Proportions |  |  |  |  |  |  |  |  |
| 1986 | 0.726 | 0.272 | 0.000 |  | 0.002 | 0.002 |  |  |
| 1987 | 0.844 | 0.140 | 0.004 |  | 0.012 | 0.016 |  |  |
| 1988 | 0.746 | 0.254 | 0.000 |  | 0.000 | 0.000 |  |  |
| 1989 | 0.514 | 0.486 | 0.000 |  | 0.000 | 0.000 |  |  |
| Subdis trict 106-30 (Clarence Strait) harvest |  |  |  |  |  |  |  |  |
| 1986 | 263 | 99 | 0 |  | 1 | 1 |  |  |
| 1987 | 758 | 126 | 3 |  | 11 | 15 |  |  |
| 1988 | 12 | 4 | 0 |  | 0 | 0 |  |  |
| 1989 | 19 | 18 | 0 |  | 0 | 0 |  |  |
| District 106 Proportions |  |  |  |  |  |  |  |  |
| 1984 | 0.658 | 0.269 | 0.029 |  | 0.044 | 0.074 |  |  |
| 1985 | 0.480 | 0.401 | 0.109 |  | 0.010 | 0.119 |  |  |
| 1986 | 0.805 | 0.182 | 0.006 |  | 0.007 | 0.013 |  |  |
| 1987 | 0.823 | 0.160 | 0.012 |  | 0.006 | 0.017 |  |  |
| 1988 | 0.867 | 0.100 | 0.033 |  | 0.000 | 0.033 |  |  |
| 1989 | 0.622 | 0.307 | 0.016 |  | 0.055 | 0.071 |  |  |
| 1990 | 0.548 | 0.416 | 0.014 |  | 0.022 | 0.035 |  |  |
| --- |  |  |  |  |  |  |  |  |
| 1994 | 0.500 | 0.250 | 0.250 |  | 0.000 | 0.250 | 0.000 | 0.250 |
| District 106 harvest |  |  |  |  |  |  |  |  |
| 1984 | 901 | 368 | 40 |  | 61 | 101 |  |  |
| 1985 | 2,085 | 1,741 | 475 |  | 44 | 519 |  |  |
| 1986 | 1,082 | 245 | 8 |  | 9 | 17 |  |  |
| 1987 | 2,928 | 568 | 42 |  | 20 | 62 |  |  |
| 1988 | 898 | 104 | 35 |  | 0 | 35 |  |  |
| 1989 | 1,293 | 639 | 34 |  | 114 | 148 |  |  |
| 1990 | 1,237 | 939 | 31 |  | 49 | 80 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1994 | 6 | 3 | 3 |  | 0 | 3 | 0 | 3 |
| District 108 Proportions |  |  |  |  |  |  |  |  |
| 1985 | 0.064 | 0.000 | 0.292 |  | 0.644 | 0.936 |  |  |
| 1986 | 0.134 | 0.044 | 0.486 |  | 0.336 | 0.822 |  |  |
| 1987 | 0.125 | 0.000 | 0.438 |  | 0.437 | 0.875 |  |  |
| 1988 | 0.205 | 0.049 | 0.132 |  | 0.614 | 0.746 |  |  |
| 1989 | 0.132 | 0.084 | 0.072 |  | 0.712 | 0.784 |  |  |
| 1990 | 0.417 | 0.172 | 0.094 |  | 0.318 | 0.411 |  |  |
| 1991 | 0.128 | 0.128 | 0.494 |  | 0.251 | 0.745 |  |  |
| 1992 | 0.149 | 0.076 | 0.333 |  | 0.442 | 0.774 |  |  |
| 1993 | 0.168 | 0.109 | 0.475 |  | 0.248 | 0.719 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1998 | 0.064 | 0.041 | 0.353 | 0.438 | 0.104 | 0.895 | 0.016 | 0.336 |
| 1999 | 0.162 | 0.019 | 0.481 | 0.298 | 0.041 | 0.820 | 0.028 | 0.453 |
| 2000 | 0.110 | 0.116 | 0.302 | 0.321 | 0.150 | 0.774 | 0.062 | 0.240 |
| District 108 harvest |  |  |  |  |  |  |  |  |
| 1985 | 81 | 0 | 367 |  | 810 | 1,177 |  |  |
| 1986 | 76 | 25 | 274 |  | 190 | 464 |  |  |
| 1987 | 36 | 0 | 127 |  | 127 | 254 |  |  |
| 1988 | 93 | 22 | 59 |  | 277 | 336 |  |  |
| 1989 | 137 | 87 | 75 |  | 739 | 814 |  |  |
| 1990 | 361 | 149 | 81 |  | 275 | 356 |  |  |
| 1991 | 114 | 114 | 441 |  | 224 | 665 |  |  |
| 1992 | 194 | 99 | 432 |  | 574 | 1,006 |  |  |
| 1993 | 51 | 33 | 144 |  | 75 | 219 |  |  |
| ---- |  |  |  |  |  |  |  |  |
| 1998 | 224 | 145 | 1,238 | 1,538 | 365 | 3,141 | 57 | 1,181 |
| 1999 | 776 | 89 | 2,309 | 1,430 | 197 | 3,936 | 135 | 2,174 |
| 2000 | 516 | 544 | 1,416 | 1,505 | 705 | 3,626 | 291 | 1,125 |

Appendix B. 13. All harvest in of sockeye salmon in Canadian commercial and assessment fisheries, 1972-2011.

| All Tuya Area fish considered to be Tuya fish. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Commercial/FN |  |  |  | Test |  |  |  |  | Tahltan Area |  | Tuya Area |  |
| Year | LRCF | URCF | Telegraph Aboriginal | Total Canadian treaty harvest | Drift Net | Set Net | Additional Drifts | Tuya Assesment | Test total | ESSR | Oto samples | ESSR | Oto samples |
| 1972 |  |  | 4,373 | 4,373 |  |  |  |  |  |  |  |  |  |
| 1973 |  |  | 3,670 | 3,670 |  |  |  |  |  |  |  |  |  |
| 1974 |  |  | 3,500 | 3,500 |  |  |  |  |  |  |  |  |  |
| 1975 |  | 270 | 1,982 | 2,252 |  |  |  |  |  |  |  |  |  |
| 1976 |  | 733 | 2,911 | 3,644 |  |  |  |  |  |  |  |  |  |
| 1977 |  | 1,975 | 4,335 | 6,310 |  |  |  |  |  |  |  |  |  |
| 1978 |  | 1,500 | 3,500 | 5,000 |  |  |  |  |  |  |  |  |  |
| 1979a | 10,534 |  | 3,000 | 13,534 |  |  |  |  |  |  |  |  |  |
| 1980 | 18,119 | 700 | 2,100 | 20,919 |  |  |  |  |  |  |  |  |  |
| 1981 | 21,551 | 769 | 4,697 | 27,017 |  |  |  |  |  |  |  |  |  |
| 1982 | 15,397 | 195 | 4,948 | 20,540 |  |  |  |  |  |  |  |  |  |
| 1983 | 15,857 | 614 | 4,649 | 21,120 |  |  |  |  |  |  |  |  |  |
| 1984 |  |  | 5,327 | 5,327 |  |  |  |  |  |  |  |  |  |
| 1985 | 17,093 | 1,084 | 7,287 | 25,464 |  | 1,340 |  |  | 1,340 |  |  |  |  |
| 1986 | 12,411 | 815 | 4,208 | 17,434 | 412 |  |  |  | 412 |  |  |  |  |
| 1987 | 6,138 | 498 | 2,979 | 9,615 | 385 | 1,283 |  |  | 1,668 |  |  |  |  |
| 1988 | 12,766 | 348 | 2,177 | 15,291 | 325 | 922 |  |  | 1,247 |  |  |  |  |
| 1989 | 17,179 | 493 | 2,360 | 20,032 | 364 | 1,243 |  |  | 1,607 |  |  |  |  |
| 1990 | 14,530 | 472 | 3,022 | 18,024 | 447 | 1,493 |  |  | 1,940 |  |  |  |  |
| 1991 | 17,563 | 761 | 4,439 | 22,763 | 503 | 1,872 |  |  | 2,375 |  |  |  |  |
| 1992 | 21,031 | 822 | 4,431 | 26,284 | 393 | 1,971 | 594 |  | 2,958 |  |  |  |  |
| 1993 | 38,464 | 1,692 | 7,041 | 47,197 | 440 | 1,384 | 1,925 |  | 3,749 | 1,752 |  | 0 |  |
| 1994 | 38,462 | 2,466 | 4,167 | 45,095 | 179 | 414 | 840 |  | 1,433 | 6,852 |  | 0 |  |
| 1995 | 45,622 | 2,355 | 5,490 | 53,467 | 297 | 850 | 1,423 |  | 2,570 | 10,740 |  | 0 |  |
| 1996 | 66,262 | 1,101 | 6,918 | 74,281 | 262 | 338 | 712 |  | 1,312 | 14,339 |  | 216 |  |
| 1997 | 56,995 | 2,199 | 6,365 | 65,559 | 245 |  |  |  | 245 |  | 378 | 2,015 |  |
| 1998 | 37,310 | 907 | 5,586 | 43,803 | 190 |  |  |  | 190 |  | 390 | 6,103 |  |
| 1999 | 32,556 | 625 | 4,874 | 38,055 | 410 | 803 | 4,683 |  | 5,896 |  | 429 | 2,822 |  |
| 2000 | 20,472 | 889 | 6,107 | 27,468 | 374 | 1,015 | 989 |  | 2,378 |  | 406 | 1,283 |  |
| 2001 | 19,872 | 487 | 5,241 | 25,600 | 967 | 2,223 | 91 |  | 3,281 |  | 50 | 0 | 410 |
| 2002 | 10,420 | 484 | 6,390 | 17,294 | 744 | 3,540 | 128 |  | 4,412 |  | 400 | 0 | 501 |
| 2003 | 51,735 | 454 | 6,595 | 58,784 | 997 | 2,173 | 186 |  | 3,356 |  | 400 | 7,031 |  |
| 2004 | 77,530 | 626 | 6,862 | 85,018 | 420 | 918 | 0 |  | 1,338 |  | 420 | 1,675 |  |
| 2005 | 79,952 | 605 | 5,333 | 85,890 | 339 | 1,312 | 0 |  | 1,651 |  | 400 | 0 | 148 |
| 2006 | 95,791 | 520 | 5,094 | 101,405 | 299 | 629 | 0 |  | 928 |  | 400 | 0 | 0 |
| 2007 | 56,913 | 912 | 2,188 | 60,013 | 435 | 673 | 0 |  | 1,108 |  | 200 | 0 | 151 |
| 2008 | 28,636 | 505 | 4,510 | 33,651 | 241 | 870 | 0 | 1,955 | 3,066 |  | 100 |  | 280 |
| 2009 | 39,409 | 2,476 | 5,148 | 47,033 | 250 | 1,092 | 0 | 2,144 | 3,486 |  | 349 |  | 214 |
| 2010 | 42,049 | 1,215 | 7,276 | 50,540 | 304 | 1,450 | 3 | 2,792 | 4,549 |  | 158 |  | 224 |
| 2011 | 47,575 | 972 | 6,893 | 55,440 | 590 | 2,525 | 21 | 2,878 | 6,014 |  | 340 |  | 153 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-10 | 36,814 | 993 | 5,080 | 42,887 | 409 | 1,296 |  |  | 2,250 |  |  |  |  |
| 01-10 | 50,231 | 828 | 5,464 | 56,523 | 500 | 1,488 | 41 | 2,297 | 2,718 |  | 288 |  | 241 |

Appendix B. 14. Sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2011.

| Stock compositions based on: scale circuli counts 1970-1983; SPA in 1985; average of SPA and GPA 1986; SPA in 1987 and 1988; and egg diameter and otolith thermal marks in 1989-2011. stock comp comes from sampling at this terminal fishing site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | LRTF |  |  | Tuya Assessment |  |  |
|  | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem |
| 1972 |  |  |  |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1973 |  |  |  |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1974 |  |  |  |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1975 |  |  |  | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1976 |  |  |  | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1977 |  |  |  | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1978 |  |  |  | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1979 | 0.433 |  | 0.567 |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1980 | 0.309 |  | 0.691 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1981 | 0.476 |  | 0.524 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1982 | 0.624 |  | 0.376 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1983 | 0.422 |  | 0.578 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  | 0.900 | 0.000 | 0.100 |  |  |  |  |  |  |
| 1985 | 0.623 |  | 0.377 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.372 |  | 0.628 |  |  |  |
| 1986 | 0.489 |  | 0.511 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.352 |  | 0.648 |  |  |  |
| 1987 | 0.225 |  | 0.775 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.273 |  | 0.727 |  |  |  |
| 1988 | 0.161 |  | 0.839 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.282 |  | 0.718 |  |  |  |
| 1989 | 0.164 |  | 0.836 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.258 |  | 0.742 |  |  |  |
| 1990 | 0.346 |  | 0.654 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.454 |  | 0.546 |  |  |  |
| 1991 | 0.634 |  | 0.366 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.608 |  | 0.392 |  |  |  |
| 1992 | 0.482 |  | 0.518 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.646 |  | 0.354 |  |  |  |
| 1993 | 0.537 |  | 0.463 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.583 |  | 0.417 |  |  |  |
| 1994 | 0.616 |  | 0.384 | 0.900 | 0.000 | 0.100 | 0.900 | 0.000 | 0.100 | 0.857 |  | 0.143 |  |  |  |
| 1995 | 0.676 | 0.020 | 0.304 | 0.900 | 0.025 | 0.075 | 0.900 | 0.025 | 0.075 | 0.803 | 0.008 | 0.189 |  |  |  |
| 1996 | 0.537 | 0.113 | 0.350 | 0.858 | 0.136 | 0.005 | 0.839 | 0.141 | 0.021 | 0.667 | 0.088 | 0.245 |  |  |  |
| 1997 | 0.356 | 0.272 | 0.372 | 0.524 | 0.379 | 0.097 | 0.521 | 0.378 | 0.101 | 0.396 | 0.220 | 0.384 |  |  |  |
| 1998 | 0.335 | 0.352 | 0.313 | 0.400 | 0.570 | 0.030 | 0.421 | 0.555 | 0.023 | 0.368 | 0.268 | 0.363 |  |  |  |
| 1999 | 0.576 | 0.241 | 0.183 | 0.574 | 0.330 | 0.096 | 0.623 | 0.292 | 0.085 | 0.514 | 0.265 | 0.221 |  |  |  |
| 2000 | 0.252 | 0.397 | 0.350 | 0.252 | 0.654 | 0.094 | 0.284 | 0.653 | 0.063 | 0.254 | 0.413 | 0.333 |  |  |  |
| 2001 | 0.175 | 0.226 | 0.599 | 0.437 | 0.470 | 0.092 | 0.342 | 0.561 | 0.097 | 0.208 | 0.282 | 0.510 |  |  |  |
| 2002 | 0.320 | 0.128 | 0.552 | 0.376 | 0.496 | 0.128 | 0.422 | 0.494 | 0.084 | 0.391 | 0.157 | 0.451 |  |  |  |
| 2003 | 0.427 | 0.161 | 0.412 | 0.696 | 0.220 | 0.084 | 0.605 | 0.238 | 0.157 | 0.448 | 0.128 | 0.424 |  |  |  |
| 2004 | 0.707 | 0.016 | 0.276 | 0.861 | 0.067 | 0.072 | 0.909 | 0.089 | 0.002 | 0.512 | 0.033 | 0.455 |  |  |  |
| 2005 | 0.761 | 0.018 | 0.221 | 0.962 | 0.021 | 0.017 | 0.956 | 0.013 | 0.031 | 0.542 | 0.005 | 0.453 |  |  |  |
| 2006 | 0.747 | 0.178 | 0.075 | 0.852 | 0.133 | 0.015 | 0.780 | 0.131 | 0.089 | 0.355 | 0.014 | 0.631 |  |  |  |
| 2007 | 0.635 | 0.191 | 0.173 | 0.658 | 0.043 | 0.299 | 0.643 | 0.042 | 0.316 | 0.262 | 0.076 | 0.662 |  |  |  |
| 2008 | 0.470 | 0.389 | 0.141 | 0.719 | 0.186 | 0.095 | 0.729 | 0.183 | 0.088 | 0.385 | 0.266 | 0.348 | 0.278 | 0.489 | 0.233 |
| 2009 | 0.601 | 0.250 | 0.149 | 0.668 | 0.303 | 0.029 | 0.686 | 0.281 | 0.033 | 0.323 | 0.187 | 0.490 | 0.220 | 0.714 | 0.067 |
| 2010 | 0.456 | 0.356 | 0.188 | 0.565 | 0.428 | 0.007 | 0.570 | 0.413 | 0.017 | 0.258 | 0.108 | 0.634 | 0.427 | 0.512 | 0.061 |
| 2011 | 0.495 | 0.212 | 0.293 | 0.678 | 0.288 | 0.034 | 0.670 | 0.284 | 0.046 | 0.268 | 0.154 | 0.578 | 0.343 | 0.568 | 0.089 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-10 | 0.470 |  | 0.423 | 0.763 | 0.149 | 0.088 | 0.770 | 0.140 | 0.090 |  |  |  |  |  |  |
| 01-10 | 0.530 | 0.191 | 0.279 | 0.679 | 0.237 | 0.084 | 0.664 | 0.244 | 0.091 | 0.369 | 0.126 | 0.506 |  |  |  |

Appendix B. 14. Continued.

|  | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | LRTF |  |  | Tuya Assessment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem | All Tahltan | Tuya | Mainstem |
| 1972 |  |  |  |  |  |  | 3,936 |  | 437 |  |  |  |  |  |  |
| 1973 |  |  |  |  |  |  | 3,303 |  | 367 |  |  |  |  |  |  |
| 1974 |  |  |  |  |  |  | 3,150 |  | 350 |  |  |  |  |  |  |
| 1975 |  |  |  | 243 |  | 27 | 1,784 |  | 198 |  |  |  |  |  |  |
| 1976 |  |  |  | 660 |  | 73 | 2,620 |  | 291 |  |  |  |  |  |  |
| 1977 |  |  |  | 1,778 |  | 198 | 3,902 |  | 434 |  |  |  |  |  |  |
| 1978 |  |  |  | 1,350 |  | 150 | 3,150 |  | 350 |  |  |  |  |  |  |
| 1979 | 4,561 |  | 5,973 |  |  |  | 2,700 |  | 300 |  |  |  |  |  |  |
| 1980 | 5,599 |  | 12,520 | 630 |  | 70 | 1,890 |  | 210 |  |  |  |  |  |  |
| 1981 | 10,258 |  | 11,293 | 692 |  | 77 | 4,227 |  | 470 |  |  |  |  |  |  |
| 1982 | 9,608 |  | 5,789 | 176 |  | 20 | 4,453 |  | 495 |  |  |  |  |  |  |
| 1983 | 6,692 |  | 9,165 | 553 |  | 61 | 4,184 |  | 465 |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  | 4,794 |  | 533 |  |  |  |  |  |  |
| 1985 | 10,649 |  | 6,444 | 976 |  | 108 | 6,558 |  | 729 | 499 |  | 841 |  |  |  |
| 1986 | 6,069 |  | 6,342 | 734 |  | 82 | 3,787 |  | 421 | 145 |  | 267 |  |  |  |
| 1987 | 1,380 |  | 4,758 | 448 |  | 50 | 2,681 |  | 298 | 455 |  | 1,213 |  |  |  |
| 1988 | 2,062 |  | 10,704 | 313 |  | 35 | 1,959 |  | 218 | 352 |  | 895 |  |  |  |
| 1989 | 2,813 |  | 14,366 | 444 |  | 49 | 2,124 |  | 236 | 415 |  | 1,192 |  |  |  |
| 1990 | 5,029 |  | 9,501 | 425 |  | 47 | 2,720 |  | 302 | 881 |  | 1,059 |  |  |  |
| 1991 | 11,136 |  | 6,427 | 685 |  | 76 | 3,995 |  | 444 | 1,443 |  | 932 |  |  |  |
| 1992 | 10,134 |  | 10,897 | 740 |  | 82 | 3,988 |  | 443 | 1,912 |  | 1,046 |  |  |  |
| 1993 | 20,662 |  | 17,802 | 1,523 |  | 169 | 6,337 |  | 704 | 2,184 |  | 1,565 |  |  |  |
| 1994 | 23,678 |  | 14,784 | 2,219 |  | 247 | 3,750 |  | 417 | 1,228 |  | 205 |  |  |  |
| 1995 | 30,848 | 893 | 13,881 | 2,120 | 60 | 176 | 4,941 | 139 | 410 | 2,064 | 20 | 486 |  |  |  |
| 1996 | 35,584 | 7,465 | 23,213 | 945 | 150 | 6 | 5,802 | 972 | 144 | 875 | 116 | 321 |  |  |  |
| 1997 | 20,269 | 15,513 | 21,213 | 1,152 | 834 | 213 | 3,318 | 2,403 | 644 | 97 | 54 | 94 |  |  |  |
| 1998 | 12,498 | 13,137 | 11,675 | 363 | 517 | 27 | 2,352 | 3,103 | 131 | 70 | 51 | 69 |  |  |  |
| 1999 | 18,742 | 7,862 | 5,952 | 359 | 206 | 60 | 3,038 | 1,423 | 413 | 3,031 | 1,564 | 1,301 |  |  |  |
| 2000 | 5,165 | 8,136 | 7,171 | 224 | 581 | 84 | 1,733 | 3,989 | 385 | 605 | 982 | 791 |  |  |  |
| 2001 | 3,482 | 4,483 | 11,907 | 213 | 229 | 45 | 1,795 | 2,939 | 507 | 684 | 924 | 1,673 |  |  |  |
| 2002 | 3,335 | 1,335 | 5,750 | 182 | 240 | 62 | 2,697 | 3,155 | 538 | 1,726 | 694 | 1,992 |  |  |  |
| 2003 | 22,067 | 8,335 | 21,333 | 316 | 100 | 38 | 3,987 | 1,571 | 1,037 | 1,505 | 428 | 1,423 |  |  |  |
| 2004 | 54,841 | 1,276 | 21,415 | 539 | 42 | 45 | 6,240 | 608 | 14 | 686 | 44 | 608 |  |  |  |
| 2005 | 60,881 | 1,437 | 17,634 | 582 | 13 | 10 | 5,099 | 71 | 163 | 895 | 8 | 748 |  |  |  |
| 2006 | 71,573 | 17,079 | 7,139 | 443 | 69 | 8 | 3,974 | 668 | 452 | 329 | 13 | 586 |  |  |  |
| 2007 | 36,167 | 10,891 | 9,855 | 600 | 39 | 273 | 1,406 | 91 | 691 | 290 | 84 | 734 |  |  |  |
| 2008 | 13,455 | 11,153 | 4,028 | 363 | 94 | 48 | 3,287 | 825 | 398 | 428 | 296 | 387 | 543 | 956 | 455 |
| 2009 | 23,666 | 9,852 | 5,891 | 1,654 | 749 | 73 | 3,530 | 1,449 | 169 | 434 | 251 | 657 | 471 | 1,530 | 144 |
| 2010 | 19,185 | 14,965 | 7,899 | 687 | 520 | 9 | 4,145 | 3,004 | 127 | 453 | 190 | 1,114 | 1,192 | 1,429 | 171 |
| 2011 | 23,530 | 10,106 | 13,939 | 659 | 280 | 33 | 4,620 | 1,957 | 316 | 841 | 482 | 1,813 | 988 | 1,634 | 257 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-10 | 18,132 |  | 11,056 | 710 |  | 78 | 3,672 |  | 403 |  |  |  |  |  |  |
| 01-10 | 30,865 | 8,081 | 11,285 | 558 | 209 | 61 | 3,616 | 1,438 | 410 | 743 | 293 | 992 |  |  |  |

Appendix B. 15. Tahltan sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2011.

| Stock <br> Year | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | LRTF |  |  | Tuya Assessment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan |
| 1994 | 0.616 | 0.000 | 0.616 | 0.900 | 0.128 | 0.772 | 0.900 | 0.128 | 0.772 | 0.857 | 0.000 | 0.857 |  |  |  |
| 1995 | 0.676 | 0.195 | 0.481 | 0.900 | 0.260 | 0.640 | 0.900 | 0.260 | 0.640 | 0.803 | 0.284 | 0.519 |  |  |  |
| 1996 | 0.537 | 0.066 | 0.471 | 0.858 | 0.110 | 0.748 | 0.839 | 0.126 | 0.713 | 0.667 | 0.082 | 0.585 |  |  |  |
| 1997 | 0.356 | 0.072 | 0.284 | 0.524 | 0.108 | 0.416 | 0.521 | 0.108 | 0.413 | 0.396 | 0.082 | 0.314 |  |  |  |
| 1998 | 0.335 | 0.020 | 0.315 | 0.400 | 0.030 | 0.370 | 0.421 | 0.022 | 0.399 | 0.368 | 0.021 | 0.347 |  |  |  |
| 1999 | 0.576 | 0.021 | 0.554 | 0.574 | 0.005 | 0.570 | 0.623 | 0.028 | 0.596 | 0.514 | 0.019 | 0.495 |  |  |  |
| 2000 | 0.252 | 0.039 | 0.213 | 0.252 | 0.000 | 0.252 | 0.284 | 0.009 | 0.275 | 0.254 | 0.040 | 0.215 |  |  |  |
| 2001 | 0.175 | 0.032 | 0.143 | 0.437 | 0.133 | 0.304 | 0.342 | 0.065 | 0.277 | 0.208 | 0.038 | 0.171 |  |  |  |
| 2002 | 0.320 | 0.074 | 0.246 | 0.376 | 0.087 | 0.289 | 0.422 | 0.095 | 0.327 | 0.391 | 0.091 | 0.300 |  |  |  |
| 2003 | 0.427 | 0.131 | 0.296 | 0.696 | 0.214 | 0.482 | 0.605 | 0.201 | 0.403 | 0.448 | 0.111 | 0.337 |  |  |  |
| 2004 | 0.707 | 0.285 | 0.422 | 0.861 | 0.380 | 0.481 | 0.909 | 0.371 | 0.538 | 0.512 | 0.207 | 0.305 |  |  |  |
| 2005 | 0.761 | 0.352 | 0.409 | 0.962 | 0.240 | 0.722 | 0.956 | 0.235 | 0.721 | 0.542 | 0.198 | 0.344 |  |  |  |
| 2006 | 0.747 | 0.416 | 0.331 | 0.852 | 0.421 | 0.431 | 0.780 | 0.382 | 0.398 | 0.355 | 0.197 | 0.158 |  |  |  |
| 2007 | 0.635 | 0.321 | 0.315 | 0.658 | 0.235 | 0.423 | 0.643 | 0.237 | 0.406 | 0.262 | 0.105 | 0.157 |  |  |  |
| 2008 | 0.470 | 0.228 | 0.242 | 0.719 | 0.121 | 0.598 | 0.729 | 0.121 | 0.608 | 0.385 | 0.183 | 0.203 | 0.278 | 0.122 | 0.156 |
| 2009 | 0.601 | 0.155 | 0.445 | 0.668 | 0.158 | 0.511 | 0.686 | 0.143 | 0.542 | 0.323 | 0.093 | 0.230 | 0.220 | 0.038 | 0.182 |
| 2010 | 0.456 | 0.122 | 0.334 | 0.565 | 0.221 | 0.345 | 0.570 | 0.227 | 0.342 | 0.258 | 0.060 | 0.198 | 0.427 | 0.190 | 0.237 |
| 2011 | 0.495 | 0.188 | 0.307 | 0.678 | 0.240 | 0.438 | 0.670 | 0.223 | 0.447 | 0.268 | 0.115 | 0.153 | 0.343 | 0.127 | 0.216 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01-10 | 0.530 | 0.212 | 0.318 | 0.679 | 0.221 | 0.459 | 0.664 | 0.208 | 0.456 | 0.369 | 0.128 | 0.240 |  |  |  |
| 1994 | 23,678 |  |  | 2,219 | 315 | 1,904 | 3,750 | 533 | 3,217 | 1,228 |  |  |  |  |  |
| 1995 | 30,848 | 8,912 | 21,936 | 2,120 | 612 | 1,508 | 4,941 | 1,427 | 3,514 | 2,064 | 729 | 1,335 |  |  |  |
| 1996 | 35,584 | 4,387 | 31,197 | 945 | 121 | 824 | 5,802 | 871 | 4,931 | 875 | 108 | 767 |  |  |  |
| 1997 | 20,269 | 4,094 | 16,175 | 1,152 | 238 | 914 | 3,318 | 687 | 2,631 | 97 | 20 | 77 |  |  |  |
| 1998 | 12,498 | 747 | 11,751 | 363 | 27 | 336 | 2,352 | 125 | 2,227 | 70 | 4 | 66 |  |  |  |
| 1999 | 18,742 | 696 | 18,046 | 359 | 3 | 356 | 3,038 | 135 | 2,903 | 3,031 | 113 | 2,918 |  |  |  |
| 2000 | 5,165 | 801 | 4,364 | 224 | 0 | 224 | 1,733 | 52 | 1,681 | 605 | 94 | 511 |  |  |  |
| 2001 | 3,482 | 632 | 2,850 | 213 | 65 | 148 | 1,795 | 341 | 1,454 | 684 | 124 | 560 |  |  |  |
| 2002 | 3,335 | 776 | 2,559 | 182 | 42 | 140 | 2,697 | 605 | 2,092 | 1,726 | 402 | 1,324 |  |  |  |
| 2003 | 22,067 | 6,763 | 15,304 | 316 | 97 | 219 | 3,987 | 1,328 | 2,659 | 1,505 | 374 | 1,131 |  |  |  |
| 2004 | 54,841 | 22,124 | 32,717 | 539 | 238 | 301 | 6,240 | 2,549 | 3,691 | 686 | 277 | 409 |  |  |  |
| 2005 | 60,881 | 28,174 | 32,707 | 582 | 145 | 437 | 5,099 | 1,254 | 3,845 | 895 | 327 | 568 |  |  |  |
| 2006 | 71,573 | 39,888 | 31,685 | 443 | 219 | 224 | 3,974 | 1,946 | 2,028 | 329 | 183 | 146 |  |  |  |
| 2007 | 36,167 | 18,266 | 17,901 | 600 | 214 | 386 | 1,406 | 518 | 888 | 290 | 116 | 174 |  |  |  |
| 2008 | 13,455 | 6,533 | 6,922 | 363 | 61 | 302 | 3,287 | 547 | 2,740 | 428 | 203 | 225 | 543 | 239 | 304 |
| 2009 | 23,666 | 6,124 | 17,542 | 1,654 | 390 | 1,264 | 3,530 | 738 | 2,791 | 434 | 125 | 309 | 471 | 81 | 390 |
| 2010 | 19,185 | 5,126 | 14,059 | 687 | 268 | 419 | 4,145 | 1,654 | 2,490 | 453 | 105 | 348 | 1,192 | 530 | 662 |
| 2011 | 23,530 | 8,924 | 14,606 | 659 | 234 | 425 | 4,620 | 1,540 | 3,080 | 841 | 361 | 480 | 988 | 365 | 622 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01-10 | 30,865 | 13,441 | 17,425 | 558 | 174 | 384 | 3,616 | 1,148 | 2,468 | 743 | 224 | 519 |  |  |  |

Appendix B. 16. Tahltan Lake weir data with enhanced and wild Tahltan fish, 19792011.

|  | Weir count |  |  | Actual es capement |  |  | Broodstock taken |  |  | Sockeye otolith samples |  |  | Total spawners |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Total Count | TahltanEnhance | WildTahltan | TotalEscapement | TahltanEnhance | WildTahltan | Total | TahltanEnhance | WildTahltan | Total | TahltanEnhance | WildTahltan | Total | TahltanEnhance | WildTahltan |
| 1979 | 10,211 |  |  | 10,211 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 11,018 |  |  | 11,018 |  |  |  |  |  |  |  |  |  |  |  |
| 1981 | 50,790 |  |  | 50,790 |  |  |  |  |  |  |  |  |  |  |  |
| 1982 | 28,257 |  |  | 28,257 |  |  |  |  |  |  |  |  |  |  |  |
| 1983 | 21,256 |  |  | 21,256 |  |  |  |  |  |  |  |  |  |  |  |
| 1984 | 32,77 |  |  | 32,777 |  |  |  |  |  |  |  |  |  |  |  |
| 1985 | 67,326 |  |  | 67,326 |  |  |  |  |  |  |  |  |  |  |  |
| 1986 | 20,280 |  |  | 20,280 |  |  |  |  |  |  |  |  |  |  |  |
| 1987 | 6,958 |  |  | 6,958 |  |  |  |  |  |  |  |  |  |  |  |
| 1988 | 2,536 |  |  | 2,536 |  |  |  |  |  |  |  |  |  |  |  |
| 1989 | 8,316 |  |  | 8,316 |  |  | 2,210 |  |  |  |  |  |  |  |  |
| 1990 | 14,927 |  |  | 14,927 |  |  | 3,302 |  |  |  |  |  |  |  |  |
| 1991 | 50,135 |  |  | 50,135 |  |  | 3,552 |  |  |  |  |  |  |  |  |
| 1992 | 59,907 |  |  | 59,907 |  |  | 3,694 |  |  |  |  |  |  |  |  |
| 1993 | 53,362 | 1,167 | 52,195 | 51,610 | 1,129 | 50,481 | 4,506 | 99 | 4,407 |  |  |  | 47,104 | 1,030 | 46,074 |
| 1994 | 46,363 | 7,919 | 38,444 | 39,511 | 6,749 | 32,762 | 3,378 | 577 | 2,801 |  |  |  | 36,133 | 6,172 | 29,961 |
| 1995 | 42,317 | 15,997 | 26,320 | 31,577 | 11,937 | 19,640 | 4,902 | 1,853 | 3,049 |  |  |  | 26,675 | 10,084 | 16,591 |
| 1996 | 52,500 | 6,121 | 46,379 | 38,161 | 4,449 | 33,712 | 4,402 | 513 | 3,889 |  |  |  | 33,759 | 3,936 | 29,823 |
| 1997 | 12,483 | 2,445 | 9,660 | 12,105 | 2,445 | 9,660 | 2,294 | 463 | 1,831 | 378 | 76 | 302 | 9,811 | 1,982 | 7,829 |
| 1998 | 12,658 | 691 | 11,577 | 12,268 | 691 | 11,577 | 3,099 | 75 | 3,024 | 390 | 26 | 364 | 9,169 | 616 | 8,553 |
| 1999 | 10,748 | 719 | 10,029 | 10,319 | 690 | 9,629 | 2,870 | 193 | 2,677 | 429 | 29 | 400 | 7,449 | 497 | 6,952 |
| 2000 | 6,076 | 1,230 | 4,846 | 5,670 | 1,148 | 4,522 | 1,717 | 347 | 1,370 | 406 | 82 | 324 | 3,953 | 801 | 3,152 |
| 2001 | 14,811 | 5,865 | 8,946 | 14,761 | 5,845 | 8,916 | 2,386 | 945 | 1,441 | 50 | 20 | 30 | 12,375 | 4,900 | 7,475 |
| 2002 | 17,740 | 5,212 | 9,408 | 14,220 | 5,097 | 9,123 | 3,051 | 1,298 | 1,753 | 400 | 115 | 285 | 11,169 | 3,799 | 7,370 |
| 2003 | 53,933 | 23,595 | 30,338 | 53,533 | 23,420 | 30,113 | 3,946 | 1,726 | 2,220 | 400 | 175 | 225 | 49,587 | 21,694 | 27,893 |
| 2004 | 63,372 | 31,439 | 31,933 | 62,952 | 31,244 | 31,708 | 4,243 | 1,250 | 2,993 | 420 | 195 | 225 | 58,709 | 29,994 | 28,715 |
| 2005 | 43,446 | 17,928 | 25,518 | 43,046 | 17,770 | 25,276 | 3,424 | 1,350 | 2,074 | 400 | 158 | 242 | 39,622 | 16,420 | 23,202 |
| 2006 | 53,855 | 25,966 | 27,889 | 53,455 | 25,772 | 27,683 | 3,403 | 1,646 | 1,757 | 400 | 194 | 206 | 50,052 | 24,126 | 25,926 |
| 2007 | 21,074 | 8,966 | 12,108 | 20,874 | 8,881 | 11,993 | 2,839 | 1,208 | 1,631 | 200 | 85 | 115 | 18,035 | 7,673 | 10,362 |
| 2008 | 10,516 | 5,344 | 5,172 | 10,416 | 5,295 | 5,121 | 2,364 | 1,152 | 1,212 | 100 | 49 | 51 | 8,052 | 4,143 | 3,909 |
| 2009 | 30,673 | 5,030 | 25,643 | 30,324 | 4,971 | 25,353 | 3,011 | 930 | 2,081 | 349 | 59 | 290 | 27,313 | 4,041 | 23,272 |
| 2010 | 22,860 | 9,670 | 13,190 | 22,702 | 9,596 | 13,106 | 4,484 | 1,807 | 2,677 | 158 | 74 | 84 | 18,218 | 7,789 | 10,429 |
| 2011 | 34,588 | 12,123 | 22,465 | 34,248 | 12,017 | 22,231 | 4,559 | 1,769 | 2,790 | 340 | 106 | 234 | 29,689 | 10,248 | 19,441 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\underline{03-10}$ | 33,228 | 13,902 | 19,015 | 32,628 | 13,789 | 18,839 | 3,315 | 1,331 | 1,984 | 288 | 112 | 175 | 29,313 | 12,458 | 16,855 |

Appendix B. 17. Sockeye salmon harvest by stock in the Stikine River under Canadian ESSR licenses, 1992-2011.

| Year | Tahltan Area ESSR License |  |  | $\frac{\text { Tuya Area ESSR }}{\text { Tuya }}$ | Total | otolith samples |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahltan | TahltanEnhance | WildTahltan |  |  |  |
| 1993 | 1,752 | 38 | 1,714 |  | 0 |  |
| 1994 | 6,852 | 1,170 | 5,682 |  | 0 |  |
| 1995 | 10,740 | 4,060 | 6,680 |  | 0 |  |
| 1996 | 14,339 | 1,672 | 12,667 | 216 | 216 |  |
| 1997 |  |  |  | 2,015 | 2,015 |  |
| 1998 |  |  |  | 6,103 | 6,103 |  |
| 1999 |  |  |  | 2,822 | 2,822 |  |
| 2000 |  |  |  | 1,283 | 1,283 |  |
| 2001 |  |  |  |  | 0 | 410 |
| 2002 | 3,120 | 1,061 | 2,059 |  | 0 | 501 |
| 2003 |  |  |  | 7,031 | 7,031 |  |
| 2004 |  |  |  | 1,675 | 1,675 |  |
| 2005 |  |  |  |  | 0 | 148 |
| 2006 |  |  |  |  | 0 | 0 |
| 2007 |  |  |  |  | 0 | 151 |
| 2008 |  |  |  |  |  | 280 |
| 2009 |  |  |  |  |  | 214 |
| 2010 |  |  |  |  |  | 224 |
| 2011 |  |  |  |  |  | 153 |

Appendix B. 18. Estimated proportion of inriver run comprised of Tahltan, Tuya, and mainstem sockeye salmon, 1979-2011.
In 1979-1988, there were US estimates and 1983-1988, they overlapped with estimates from Canada and the All tahltan estimate was oftened averaged. The estimates are from the LRCC, test, or average of LRCC and Test.

| Year | All Tahltan | Tuya | Mainstem | Type |
| :---: | :---: | :---: | :---: | :---: |
| 1979 | 0.433 |  | 0.567 |  |
| 1980 | 0.305 |  | 0.695 |  |
| 1981 | 0.475 |  | 0.525 |  |
| 1982 | 0.618 |  | 0.382 |  |
| 1983 | 0.456 |  | 0.544 |  |
| 1984 | 0.493 |  | 0.507 |  |
| 1985 | 0.466 |  | 0.534 |  |
| 1986 | 0.449 |  | 0.551 |  |
| 1987 | 0.304 |  | 0.696 |  |
| 1988 | 0.172 |  | 0.828 |  |
| 1989 | 0.188 |  | 0.812 |  |
| 1990 | 0.417 |  | 0.583 |  |
| 1991 | 0.561 |  | 0.439 |  |
| 1992 | 0.496 |  | 0.504 |  |
| 1993 | 0.477 |  | 0.523 |  |
| 1994 | 0.606 |  | 0.394 | LRCF |
| 1995 | 0.578 | 0.016 | 0.406 | LRCF |
| 1996 | 0.519 | 0.104 | 0.377 | LRCF |
| 1997 | 0.297 | 0.229 | 0.474 | LRCF |
| 1998 | 0.309 | 0.348 | 0.344 | LRCF |
| 1999 | 0.545 | 0.245 | 0.209 | LRCF |
| 2000 | 0.260 | 0.391 | 0.349 | LRCF |
| 2001 | 0.202 | 0.268 | 0.530 | test |
| 2002 | 0.360 | 0.141 | 0.498 | test |
| 2003 | 0.421 | 0.158 | 0.421 | test |
| 2004 | 0.664 | 0.026 | 0.311 | LRCF |
| 2005 | 0.662 | 0.020 | 0.318 | LRCF |
| 2006 | 0.672 | 0.144 | 0.185 | LRCF |
| 2007 | 0.541 | 0.165 | 0.294 | LRCF |
| 2008 | 0.385 | 0.326 | 0.289 | average |
| 2009 | 0.541 | 0.244 | 0.215 | average |
| 2010 | 0.417 | 0.289 | 0.294 | average |
| 2011 | 0.467 | 0.205 | 0.328 | LRCF |
| Averages |  |  |  |  |
| 79-10 | 0.446 |  | 0.456 |  |
| 01-10 | 0.486 | 0.178 | 0.336 |  |

Appendix B. 19. Aerial survey counts of Mainstem sockeye salmon stocks in the Stikine River drainage, 1984-2011.


Appendix B. 20. Stikine River sockeye salmon run size, 1979-2011.

|  | Stikine River |  |  |  |  | All Tahltan |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Inriver Run | Inriver <br> Harvest | Escapement | Marine Harvest | Terminal Run | Inriver Run | Inriver <br> Harvest | Escapement | Marine Harvest | Terminal Run |
| 1979 | 40,353 | 13,534 | 26,819 | 8,299 | 48,652 | 17,472 | 7,261 | 10,211 | 5,076 | 22,548 |
| 1980 | 62,743 | 20,919 | 41,824 | 23,206 | 85,949 | 19,137 | 8,119 | 11,018 | 11,239 | 30,376 |
| 1981 | 138,879 | 27,017 | 111,862 | 27,538 | 166,417 | 65,968 | 15,178 | 50,790 | 16,189 | 82,157 |
| 1982 | 68,761 | 20,540 | 48,221 | 42,482 | 111,243 | 42,493 | 14,236 | 28,257 | 20,981 | 63,474 |
| 1983 | 71,683 | 21,120 | 50,563 | 5,774 | 77,457 | 32,684 | 11,428 | 21,256 | 5,075 | 37,759 |
| 1984 | 76,211 | 5,327 | 70,884 | 7,750 | 83,961 | 37,571 | 4,794 | 32,777 | 3,114 | 40,685 |
| 1985 | 184,747 | 26,804 | 157,943 | 29,747 | 214,494 | 86,008 | 18,682 | 67,326 | 25,197 | 111,205 |
| 1986 | 69,036 | 17,846 | 51,190 | 6,420 | 75,456 | 31,015 | 10,735 | 20,280 | 2,757 | 33,771 |
| 1987 | 39,264 | 11,283 | 27,981 | 4,077 | 43,342 | 11,923 | 4,965 | 6,958 | 2,255 | 14,178 |
| 1988 | 41,915 | 16,538 | 25,377 | 3,181 | 45,096 | 7,222 | 4,686 | 2,536 | 2,129 | 9,351 |
| 1989 | 75,058 | 21,639 | 53,419 | 15,492 | 90,550 | 14,111 | 5,795 | 8,316 | 1,561 | 15,672 |
| 1990 | 57,529 | 19,964 | 37,565 | 9,856 | 67,385 | 23,982 | 9,055 | 14,927 | 2,307 | 26,289 |
| 1991 | 120,153 | 25,138 | 95,015 | 31,284 | 151,437 | 67,394 | 17,259 | 50,135 | 21,916 | 89,311 |
| 1992 | 154,541 | 29,242 | 125,299 | 77,394 | 231,935 | 76,680 | 16,773 | 59,907 | 28,218 | 104,899 |
| 1993 | 176,100 | 52,698 | 123,402 | 104,630 | 280,730 | 84,068 | 32,458 | 51,610 | 40,036 | 124,104 |
| 1994 | 127,527 | 53,380 | 74,147 | 80,509 | 208,036 | 77,239 | 37,728 | 39,511 | 65,101 | 142,340 |
| 1995 | 142,308 | 66,777 | 75,531 | 76,420 | 218,728 | 82,290 | 50,713 | 31,577 | 51,665 | 133,955 |
| 1996 | 184,400 | 90,148 | 94,252 | 188,385 | 372,785 | 95,706 | 57,545 | 38,161 | 147,435 | 243,141 |
| 1997 | 125,657 | 68,197 | 57,460 | 101,258 | 226,915 | 37,319 | 25,214 | 12,105 | 43,408 | 80,727 |
| 1998 | 90,459 | 50,486 | 39,973 | 30,989 | 121,448 | 27,941 | 15,673 | 12,268 | 7,086 | 35,027 |
| 1999 | 65,879 | 47,202 | 18,677 | 58,765 | 124,644 | 35,918 | 25,599 | 10,319 | 23,449 | 59,367 |
| 2000 | 53,145 | 31,535 | 21,610 | 25,359 | 78,504 | 13,803 | 8,133 | 5,670 | 5,340 | 19,143 |
| 2001 | 103,755 | 29,341 | 74,414 | 23,500 | 127,255 | 20,985 | 6,224 | 14,761 | 6,339 | 27,324 |
| 2002 | 71,253 | 22,607 | 48,646 | 8,076 | 79,329 | 25,680 | 11,460 | 14,220 | 2,055 | 27,735 |
| 2003 | 194,425 | 69,571 | 124,854 | 46,552 | 240,977 | 81,808 | 28,275 | 53,533 | 16,298 | 98,106 |
| 2004 | 189,395 | 88,451 | 100,944 | 122,592 | 311,987 | 125,677 | 62,725 | 62,952 | 91,535 | 217,213 |
| 2005 | 167,570 | 88,089 | 79,482 | 92,362 | 259,932 | 110,903 | 67,857 | 43,046 | 63,714 | 174,617 |
| 2006 | 193,768 | 102,733 | 91,035 | 74,817 | 268,585 | 130,174 | 76,719 | 53,455 | 54,923 | 185,097 |
| 2007 | 110,132 | 61,472 | 48,660 | 86,654 | 196,786 | 59,537 | 38,663 | 20,874 | 63,330 | 122,867 |
| 2008 | 74,267 | 37,097 | 37,170 | 45,942 | 120,209 | 28,592 | 18,176 | 10,416 | 17,743 | 46,335 |
| 2009 | 111,780 | 51,082 | 60,699 | 73,495 | 185,275 | 60,428 | 30,104 | 30,324 | 37,664 | 98,092 |
| 2010 | 116,354 | 55,471 | 60,883 | 40,647 | 157,001 | 48,521 | 25,819 | 22,702 | 17,565 | 66,086 |
| 2011 | 139,541 | 61,947 | 77,594 | 73,857 | 213,399 | 65,226 | 30,978 | 34,248 | 37,480 | 102,706 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 79-10 | 109,345 | 41,976 | 67,369 | 49,170 | 158,516 | 52,508 | 24,002 | 28,506 | 28,209 | 80,717 |
| 01-10 | 133,270 | 60,591 | 72,679 | 61,464 | 194,734 | 69,231 | 36,602 | 32,628 | 37,117 | 106,347 |

-continued-

Appendix B. 20. Continued.

| Year | Stikine Mainstem |  |  |  |  | Tuya |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Inriver <br> Run | Inriver <br> Harvest | Escapement | Marine Harvest | Terminal Run | Inriver Run | Inriver <br> Harvest | Escapement | Marine <br> Harvest | Terminal Run |
| 1979 | 22,880 | 6,273 | 16,608 | 3,223 | 26,103 |  |  |  |  |  |
| 1980 | 43,606 | 12,800 | 30,806 | 11,967 | 55,573 |  |  |  |  |  |
| 1981 | 72,911 | 11,839 | 61,072 | 11,349 | 84,260 |  |  |  |  |  |
| 1982 | 26,267 | 6,304 | 19,964 | 21,501 | 47,768 |  |  |  |  |  |
| 1983 | 38,999 | 9,692 | 29,307 | 699 | 39,698 |  |  |  |  |  |
| 1984 | 38,640 | 533 | 38,107 | 4,636 | 43,276 |  |  |  |  |  |
| 1985 | 98,739 | 8,122 | 90,617 | 4,550 | 103,289 |  |  |  |  |  |
| 1986 | 38,022 | 7,111 | 30,910 | 3,663 | 41,685 |  |  |  |  |  |
| 1987 | 27,342 | 6,318 | 21,023 | 1,822 | 29,164 |  |  |  |  |  |
| 1988 | 34,693 | 11,852 | 22,841 | 1,052 | 35,745 |  |  |  |  |  |
| 1989 | 60,947 | 15,844 | 45,103 | 13,931 | 74,878 |  |  |  |  |  |
| 1990 | 33,547 | 10,909 | 22,638 | 7,549 | 41,096 |  |  |  |  |  |
| 1991 | 52,759 | 7,879 | 44,880 | 9,368 | 62,126 |  |  |  |  |  |
| 1992 | 77,861 | 12,469 | 65,392 | 49,176 | 127,037 |  |  |  |  |  |
| 1993 | 92,033 | 20,240 | 71,792 | 64,594 | 156,627 |  |  |  |  |  |
| 1994 | 50,288 | 15,652 | 34,636 | 15,408 | 65,696 |  |  |  |  |  |
| 1995 | 57,802 | 14,953 | 42,850 | 24,169 | 81,971 | 2,216 | 1,112 | 1,104 | 586 | 2,802 |
| 1996 | 69,536 | 23,684 | 45,852 | 21,508 | 91,044 | 19,158 | 8,919 | 10,239 | 19,442 | 38,600 |
| 1997 | 59,600 | 22,164 | 37,436 | 20,330 | 79,930 | 28,738 | 20,819 | 7,919 | 37,520 | 66,258 |
| 1998 | 31,077 | 11,902 | 19,175 | 7,962 | 39,039 | 31,442 | 22,911 | 8,531 | 15,941 | 47,383 |
| 1999 | 13,797 | 7,726 | 6,071 | 20,092 | 33,889 | 16,165 | 13,877 | 2,288 | 15,224 | 31,389 |
| 2000 | 18,563 | 8,431 | 10,132 | 6,764 | 25,327 | 20,779 | 14,971 | 5,808 | 13,255 | 34,034 |
| 2001 | 54,987 | 14,132 | 40,855 | 4,193 | 59,180 | 27,783 | 8,985 | 18,798 | 12,968 | 40,751 |
| 2002 | 35,496 | 5,222 | 30,274 | 1,963 | 37,459 | 10,078 | 5,925 | 4,153 | 4,058 | 14,136 |
| 2003 | 81,803 | 23,831 | 57,972 | 21,494 | 103,297 | 30,814 | 17,465 | 13,349 | 8,760 | 39,574 |
| 2004 | 58,809 | 22,080 | 36,728 | 26,799 | 85,608 | 4,909 | 3,645 | 1,264 | 4,257 | 9,166 |
| 2005 | 53,343 | 18,555 | 34,788 | 28,517 | 81,860 | 3,325 | 1,677 | 1,648 | 131 | 3,456 |
| 2006 | 35,788 | 8,185 | 27,603 | 9,772 | 45,560 | 27,806 | 17,829 | 9,977 | 10,122 | 37,928 |
| 2007 | 32,418 | 11,553 | 20,865 | 5,274 | 37,692 | 18,176 | 11,256 | 6,920 | 18,050 | 36,227 |
| 2008 | 21,494 | 5,316 | 16,178 | 10,434 | 31,928 | 24,180 | 13,604 | 10,576 | 17,765 | 41,945 |
| 2009 | 24,082 | 6,933 | 17,148 | 17,304 | 41,385 | 27,271 | 14,044 | 13,226 | 18,527 | 45,798 |
| 2010 | 34,152 | 9,320 | 24,831 | 11,018 | 45,169 | 33,682 | 20,332 | 13,350 | 12,064 | 45,746 |
| 2011 | 45,750 | 16,357 | 29,393 | 19,021 | 64,771 | 28,565 | 14,612 | 13,953 | 17,356 | 45,921 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 79-10 | 46,634 | 11,807 | 34,827 | 14,440 | 61,074 |  |  |  |  |  |
| 01-10 | 43,237 | 12,513 | 30,724 | 13,677 | 56,914 | 20,802 | 11,476 | 9,326 | 10,670 | 31,473 |

Appendix B. 21. Coho salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2011.
Table only includes years when test fisheries were operated.

| Year | $106-41 / 42$ | $106-30$ | Total 106 | 108 |
| :--- | :---: | :---: | :---: | :---: |
| 1984 | 101 |  | 1,370 | 11 |
| 1985 | 301 |  | 4,345 | 11 |
| 1986 | 177 |  | 1,345 | 3 |
| 1987 | 799 | 95 | 3,558 | 13 |
| 1988 | 89 | 589 | 1,036 | 9 |
| 1989 | 275 | 412 | 2,080 | 45 |
| 1990 | 432 | 464 | 2,256 | 45 |
| 1991 |  |  |  | 18 |
| 1992 |  |  |  | 23 |
| 1993 |  |  |  | 0 |
| 1994 |  |  | 12 |  |
| --- |  |  |  | 142 |
| 1998 |  |  |  | 217 |
| 1999 |  |  |  | 140 |
| 2000 |  |  |  |  |
| --- |  |  |  | 0 |
| 2009 |  |  |  |  |

Appendix B. 22. Annual harvest of coho salmon in the Canadian lower and upper river commercial, Telegraph Aboriginal and the Canadian test fisheries, 1979-2011.

| Year | LRCF | URCF | Telegraph Canada total Aboriginal Stikine harvest |  | Test |  |  |  | All |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Drift | Set | Additiona | Test tota | arvest to |
| 1972 |  |  | 0 | 0 |  |  |  | 0 | 0 |
| 1973 |  |  | 0 | 0 |  |  |  | 0 | 0 |
| 1974 |  |  | 0 | 0 |  |  |  | 0 | 0 |
| 1975 |  | 45 | 5 | 50 |  |  |  | 0 | 50 |
| 1976 |  | 13 | 0 | 13 |  |  |  | 0 | 13 |
| 1977 |  | 0 | 0 | 0 |  |  |  | 0 | 0 |
| 1978 |  | 0 | 0 | 0 |  |  |  | 0 | 0 |
| 1979 | 10,720 |  | 0 | 10,720 |  |  |  | 0 | 10,720 |
| 1980 | 6,629 | 40 | 100 | 6,769 |  |  |  | 0 | 6,769 |
| 1981 | 2,667 | 0 | 200 | 2,867 |  |  |  | 0 | 2,867 |
| 1982 | 15,904 | 0 | 40 | 15,944 |  |  |  | 0 | 15,944 |
| 1983 | 6,170 | 0 | 3 | 6,173 |  |  |  | 0 | 6,173 |
| 1984 |  |  | 1 | 1 |  |  |  | 0 | 1 |
| 1985 | 2,172 | 0 | 3 | 2,175 |  |  |  | 0 | 2,175 |
| 1986 | 2,278 | 0 | 2 | 2,280 | 226 |  |  | 226 | 2,506 |
| 1987 | 5,728 | 0 | 3 | 5,731 | 162 | 620 |  | 782 | 6,513 |
| 1988 | 2,112 | 0 | 5 | 2,117 | 75 | 130 |  | 205 | 2,322 |
| 1989 | 6,092 | 0 | 6 | 6,098 | 242 | 502 |  | 744 | 6,842 |
| 1990 | 4,020 | 0 | 17 | 4,037 | 134 | 271 |  | 405 | 4,442 |
| 1991 | 2,638 | 0 | 10 | 2,648 | 118 | 127 |  | 245 | 2,893 |
| 1992 | 1,850 | 0 | 5 | 1,855 | 75 | 193 | 0 | 268 | 2,123 |
| 1993 | 2,616 | 0 | 0 | 2,616 | 37 | 136 | 2 | 175 | 2,791 |
| 1994 | 3,377 | 0 | 4 | 3,381 | 71 | 0 | 0 | 71 | 3,452 |
| 1995 | 3,418 | 0 | 0 | 3,418 | 35 | 166 | 26 | 227 | 3,645 |
| 1996 | 1,402 | 0 | 2 | 1,404 | 55 | 0 | 0 | 55 | 1,459 |
| 1997 | 401 | 0 | 0 | 401 | 11 |  |  | 11 | 412 |
| 1998 | 726 | 0 | 0 | 726 | 207 |  |  | 207 | 933 |
| 1999 | 181 | 0 | 0 | 181 | 312 | 64 | 16 | 392 | 573 |
| 2000 | 298 | 0 | 3 | 301 | 60 | 181 | 195 | 436 | 737 |
| 2001 | 233 | 0 | 0 | 233 | 257 | 1,078 | 426 | 1,761 | 1,994 |
| 2002 | 82 | 0 | 0 | 82 | 306 | 1,323 | 1,116 | 2,745 | 2,827 |
| 2003 | 190 | 0 | 0 | 190 | 291 | 525 | 883 | 1,699 | 1,889 |
| 2004 | 271 | 0 | 4 | 275 | 352 | 135 | 0 | 487 | 762 |
| 2005 | 276 | 0 | 0 | 276 | 444 | 271 | 0 | 715 | 991 |
| 2006 | 72 | 0 | 0 | 72 | 343 | 181 | 0 | 524 | 596 |
| 2007 | 50 | 0 | 2 | 52 | 89 | 99 | 0 | 188 | 240 |
| 2008 | 2,398 | 0 | 0 | 2,398 | 321 | 216 | 0 | 537 | 2,935 |
| 2009 | 5,981 | 0 | 0 | 5,981 | 348 | 146 | 0 | 494 | 6,475 |
| 2010 | 5,301 | 0 | 0 | 5,301 | 488 | 253 | 0 | 741 | 6,042 |
| 2011 | 5,821 | 0 | 0 | 5,821 | 280 | 130 | 0 | 410 | 6,231 |
| Averages |  |  |  |  |  |  |  |  |  |
| 85-10 | 2,083 | 0 | 3 | 2,086 | 202 | 301 | 157 | 552 | 2,637 |
| 01-10 | 1,485 | 0 | 1 | 1,486 | 324 | 423 | 243 | 989 | 2,475 |

Appendix B. 23. Index counts of Stikine coho salmon escapements, 1984-2011.

|  | Katete |  |  |  | Bronson | Scud |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year Date | West | Katete | Craig | Verrett | Slough | Slough | Porcupine | Christina | Total |
| 1984 10/30 | 147 | 313 | 0 | 15 | 42 |  |  |  | 517 |
| 1985 10/25 | 590 | 1,217 | 735 | 39 | 0 | 924 | 365 |  | 3,870 |
| 1988 10/28 | 32 | 227 |  | 175 |  | 97 | 53 | 0 | 584 |
| 1989 10/29 | 336 | 896 | 992 | 848 | 120 | 707 | 90 | 55 | 4,044 |
| 1990 10/30 | 94 | 548 | 810 | 494 |  | 664 | 430 |  | 3,040 |
| 1991 10/29 | 302 | 878 | 985 | 218 |  | 221 | 352 |  | 2,956 |
| 1992 10/29 | 295 | 1,346 | 949 | 320 |  | 462 | 316 |  | 3,688 |
| 1993 10/30 |  |  |  |  |  | 206 | 324 |  |  |
| 1994 11/1-2 | 28 | 652 | 1,026 | 466 |  | 448 | 1,105 |  | 3,725 |
| 1995 10/30 | 211 | 208 | 1,419 | 574 |  | 621 | 719 |  | 3,752 |
| 1996 10/30 | 163 | 232 | 205 | 549 |  | 630 | 1,466 |  | 3,245 |
| 1997 11/01 | 2 | 0 | 19 | 116 |  | 272 | 648 |  | 1,057 |
| 1998 10/30 | 14 | 63 | 141 | 282 |  | 143 | 450 |  | 1,093 |
| 1999 11/05 | 163 | 773 | 891 | 490 |  | 661 | 894 |  | 3,872 |
| 2000 11/2-3 |  |  |  | 5 |  | 95 | 206 |  | 306 |
| 2001 11/2-3 | 207 | 1,401 | 3,121 | 708 |  | 1,571 | 397 |  | 7,405 |
| 2002 11/05 | 806 | 2,642 | 4,488 | 1,695 |  | 1,389 | 1,626 |  | 12,646 |
| 2003 |  |  |  |  |  |  |  |  |  |
| 2004 ${ }^{\text {a }} 11 / 03$ | 78 | 762 | 19 | 959 |  | 173 | 1,009 |  | 3,000 |
| 2005 10/31 | 300 | 1,195 | 444 | 353 |  | 218 | 689 |  | 3,199 |
| 2006 11/02 | 350 | 543 | 675 | 403 |  | 95 | 147 |  | 2,213 |
| 2007 11/10 | 66 | 190 | 567 | 240 |  | 153 | 341 |  | 1,557 |
| 2008 ${ }^{\text {b }} 11 / 01-05$ |  |  | 535 | 501 |  | 86 | 25 |  | 1,147 |
| 2009 11/02 | 212 | 698 | 475 | 257 |  | 16 | 617 |  | 2,275 |
| 2010 11/03a | 37 | 237 | 31 | 363 |  | 130 | 953 |  | 1,751 |
| 2011 11/04 | 182 | 689 | 459 | 309 |  | 437 | 468 |  | 2,542 |
| Average |  |  |  |  |  |  |  |  |  |
| 84-10 | 214 | 735 | 926 | 457 |  | 434 | 575 |  | 3,201 |
| 01-10 | 257 | 959 | 1,151 | 609 |  | 426 | 645 |  | 3,910 |

[^0]Appendix B. 24. Effort in the Canadian fisheries, including assessment fisheries in the Stikine River, 1979-2011.

| Year | LRCF |  | URCF |  | Assessment/Test Fisheries |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  Permit <br> Days <br> Days  |  | Days | PermitDays | standard test fisheries |  | Chinook Assessment a |  |  |
|  |  |  | \# of Drift |  | $\begin{gathered} \text { Set } \\ \text { hours } \end{gathered}$ | Days |  | Permit <br> Days |
| $1979{ }^{\text {b }}$ | 42.0 | 756 |  |  |  |  |  |  |  |  |
| 1980 | 41.0 | 668 |  |  |  |  |  |  |  |
| 1981 | 32.0 | 522 | 5.0 | 11.0 |  |  |  |  |  |
| 1982 | 71.0 | 1,063 | 4.0 | 8.0 |  |  |  |  |  |
| 1983 | 54.0 | 434 | 8.0 | 10.0 |  |  |  |  |  |
| 1984 |  | fisherie |  |  |  |  |  |  |  |
| 1985 | 22.5 | 146 | 6.0 | 14.0 |  |  |  |  |  |
| 1986 | 13.5 | 239 | 7.0 | 19.0 | 405 |  |  |  |  |
| 1987 | 20.0 | 287 | 7.0 | 20.0 | 845 | 1,456 |  |  |  |
| 1988 | 26.5 | 320 | 6.5 | 21.5 | 720 | 1,380 |  |  |  |
| 1989 | 23.0 | 325 | 7.0 | 14.0 | 870 | 1,392 |  |  |  |
| 1990 | 29.0 | 328 | 7.0 | 15.0 | 673 | 1,212 |  |  |  |
| 1991 | 39.0 | 282 | 6.0 | 13.0 | 509 | 1,668 |  |  |  |
| 1992 | 55.0 | 235 | 13.0 | 28.0 | 312 | 1,249 |  |  |  |
| 1993 | 58.0 | 484 | 22.0 | 48.0 | 304 | 1,224 |  |  |  |
| 1994 | 74.0 | 430 | 50.0 | 68.0 | 175 | 456 |  |  |  |
| 1995 | 59.0 | 534 | 25.0 | 54.0 | 285 | 888 |  |  |  |
| 1996 | 81.0 | 439 | 59.0 | 75.0 | 245 | 312 |  |  |  |
| 1997 | 89.0 | 569 | 29.0 | 42.0 | 210 |  |  |  |  |
| 1998 | 46.5 | 374 | 19.0 | 19.0 | 820 |  |  |  |  |
| 1999 | 31.0 | 261 | 18.0 | 19.0 | 1,006 | 1,577 |  |  |  |
| 2000 | 23.3 | 227 | 9.3 | 19.8 | 694 | 3,715 |  |  |  |
| 2001 | 23.0 | 173 | 4.0 | 6.0 | 883 | 2,688 |  |  |  |
| 2002 | 21.0 | 169 | 9.0 | 12.0 | 898 | 2,845 |  |  |  |
| 2003 | 28.8 | 275 | 10.0 | 10.0 | 660 | 1,116 |  |  |  |
| 2004 | 43.0 | 431 | 11.0 | 11.0 | 778 | 524 |  |  |  |
| 2005 | 72.0 | 803 | 13.0 | 13.0 | 780 | 396 |  |  |  |
| 2006 | 68.7 | 775 | 15.0 | 15.0 | 720 | 312 |  |  |  |
| 2007 | 67.5 | 767 | 17.0 | 17.0 | 224 | 336 |  |  |  |
| 2008 | 55.0 | 566 | 13.0 | 13.0 | 730 | 396 |  |  |  |
| 2009 | 57.5 | 563 | 27.0 | 28.0 | 771 | 342 |  |  |  |
| 2010 | 37.3 | 349 | 12.0 | 15.0 | 860 | 468 |  | 8 | 94 |
| 2011 | 41.5 | 607 | 9.0 | 12.0 | 882 | 335 |  | 6 | 110 |
| Averages |  |  |  |  |  |  |  |  |  |
| 85-10 | 45 | 398 | 16 | 24 | 615 | 1,180 |  |  |  |
| 01-10 | 47 | 487 | 13 | 14 | 730 | 942 |  |  |  |

[^1]Appendix B. 25. Counts of adult sockeye salmon migrating through Tahltan Lake weir, 1959-2011.

| Year | Weir | Date of Arrival |  |  | Weir Pulled | TotalCount | Totalescapement | Broodstock | Samples or ESSR | Otolith Samples | Spawners |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Installed | First | 50\% | 90\% |  |  |  |  |  |  | Total | Enhanced | Wild |
| 1959 | 30-Jun | 2-Aug | 12-Aug | 16-Aug |  | 4,311 | 4,311 |  |  |  |  |  |  |
| 1960 | 15-Jul | 2-Aug | 24-Aug | 27-Aug |  | 6,387 | 6,387 |  |  |  |  |  |  |
| 1961 | 20-Jul | 9-Aug | 11-Aug | 15-Aug |  | 16,619 | 16,619 |  |  |  |  |  |  |
| 1962 | 1-Aug | 2-Aug | 5-Aug | 8-Aug |  | 14,508 | 14,508 |  |  |  |  |  |  |
| 1963 | 3-Aug |  |  |  |  | 1,780 | 1,780 |  |  |  |  |  |  |
| 1964 | 23-Jul | 26-Jul | 14-Aug | 25-Aug |  | 18,353 | 18,353 |  |  |  |  |  |  |
| 1965 | 19-Jul | 18-Jul | 2-Sep | 7-Sep |  | 1,471 | 1,471 |  |  |  |  |  |  |
| 1966 | 12-Jul | 3-Aug | 13-Aug | 21-Aug |  | 21,580 | 21,580 |  |  |  |  |  |  |
| 1967 | 11-Jul | 14-Jul | 21-Jul | 28-Jul |  | 38,801 | 38,801 |  |  |  |  |  |  |
| 1968 | 11-Jul | 21-Jul | $25-\mathrm{Jul}$ | 8-Aug |  | 19,726 | 19,726 |  |  |  |  |  |  |
| 1969 | 7-Jul | 11-Jul | 18-Jul | 31-Jul |  | 11,805 | 11,805 |  |  |  |  |  |  |
| 1970 | 5-Jul | 25-Jul | 1-Aug | 11-Aug |  | 8,419 | 8,419 |  |  |  |  |  |  |
| 1971 | 12-Jul | 19-Jul | 28-Jul | 12-Aug |  | 18,523 | 18,523 |  |  |  |  |  |  |
| 1972 | 13-Jul | 13-Jul | 19-Jul | 31-Aug | 21-Aug | 52,545 | 52,545 |  |  |  |  |  |  |
| 1973 | 10-Jul | 24-Jul | 30-Jul | 7-Aug | 1-Sep | 2,877 | 2,877 |  |  |  |  |  |  |
| 1974 | 3-Jul | 28-Jul | 3-Aug | 17-Aug | 13-Sep | 8,101 | 8,101 |  |  |  |  |  |  |
| 1975 | 10-Jul | 25-Jul | 8-Aug | 17-Aug | 28-Aug | 8,159 | 8,159 |  |  |  |  |  |  |
| 1976 | 16-Jul | 29-Jul | 1-Aug | 6-Aug | 24-Aug | 24,111 | 24,111 |  |  |  |  |  |  |
| 1977 | 6-Jul | 11-Jul | 16-Jul | 10-Aug | 25-Aug | 42,960 | 42,960 |  |  |  |  |  |  |
| 1978 | 10-Jul | 10-Jul | 20-Jul | 29-Jul | 26-Aug | 22,788 | 22,788 |  |  |  |  |  |  |
| 1979 | 9-Jul | 23-Jul | 1-Aug | 11-Aug | 31-Aug | 10,211 | 10,211 |  |  |  |  |  |  |
| 1980 | 4-Jul | 15-Jul | 22-Jul | 12-Aug | 3-Sep | 11,018 | 11,018 |  |  |  |  |  |  |
| 1981 | 30-Jun | 16-Jul | 26-Jul | 3-Aug | 8-Sep | 50,790 | 50,790 |  |  |  |  |  |  |
| 1982 | 2-Jul | 10-Jul | 19-Jul | 29-Jul | 4-Sep | 28,257 | 28,257 |  |  |  |  |  |  |
| 1983 | 27-Jun | 5-Jul | 22-Jul | 5-Aug | 7-Sep | 21,256 | 21,256 |  |  |  |  |  |  |
| 1984 | 20-Jun | 19-Jul | 24-Jul | 3-Aug | 29-Aug | 32,777 | 32,777 |  |  |  |  |  |  |
| 1985 | 28-Jun | 18-Jul | 31-Jul | 6-Aug | 5-Sep | 67,326 | 67,326 |  |  |  |  |  |  |
| 1986 | 10-Jul | 26-Jul | 4-Aug | 11-Aug | 4-Sep | 20,280 | 20,280 |  |  |  |  |  |  |
| 1987 | 14-Jul | 21-Jul | 4-Aug | 13-Aug | 27-Aug | 6,958 | 6,958 |  |  |  |  |  |  |
| 1988 | 16-Jul | 16-Jul | 6-Aug | 14-Aug | 29-Aug | 2,536 | 2,536 |  |  |  |  |  |  |
| 1989 | 7-Jul | 9-Jul | 1-Aug | 14-Aug | 4-Sep | 8,316 | 8,316 | 2,210 |  |  | 6,106 |  |  |
| 1990 | 6-Jul | 15-Jul | 26-Jul | 3-Aug | 28-Aug | 14,927 | 14,927 | 3,302 |  |  | 11,625 |  |  |
| 1991 | 30-Jun | 17-Jul | $25-\mathrm{Jul}$ | 7-Aug | 5-Sep | 50,135 | 50,135 | 3,552 |  |  | 46,583 |  |  |
| 1992 | 9-Jul | 18-Jul | $25-\mathrm{Jul}$ | 3-Aug | 2-Sep | 59,907 | 59,907 | 3,694 |  |  | 56,213 |  |  |
| 1993 | 7-Jul | 10-Jul | 28-Jul | 10-Aug | 11-Sep | 53,362 | 51,610 | 4,506 | 1,752 |  | 47,104 | 1,030 | 46,074 |
| 1994 | 7-Jul | 14-Jul | 30-Jul | 9-Aug | 7-Sep | 46,363 | 39,511 | 3,378 | 6,852 |  | 36,133 | 6,172 | 29,961 |
| 1995 | 8-Jul | $9-\mathrm{Jul}$ | 24-Jul | 12-Aug | 16-Sep | 42,317 | 31,577 | 4,902 | 10,740 |  | 26,675 | 10,084 | 16,591 |
| 1996 | 6-Jul | 14-Jul | 22-Jul | 04-Aug | 10-Sep | 52,500 | 38,161 | 4,402 | 14,339 |  | 33,759 | 3,936 | 29,823 |
| 1997 | 9-Jul | 15-Jul | $25-J u l$ | 26-Aug | 26-Sep | 12,483 | 12,105 | 2,294 |  | 378 | 9,811 | 1,982 | 7,829 |
| 1998 | 9-Jul | 11-Jul | 25-Jul | 26-Aug | 17-Sep | 12,658 | 12,268 | 3,099 |  | 390 | 9,169 | 616 | 8,553 |
| 1999 | 10-Jul | 19-Jul | 31-Jul | 13-Aug | 15-Sep | 10,748 | 10,319 | 2,870 |  | 429 | 7,449 | 497 | 6,952 |
| 2000 | 9-Jul | 21-Jul | 25-Jul | 03-Aug | 4-Sep | 6,076 | 5,670 | 1,717 |  | 406 | 3,953 | 801 | 3,152 |
| 2001 | 08-Jul | 19-Jul | 31-Jul | 09-Aug | 14-Sep | 14,811 | 14,761 | 2,386 |  | 50 | 12,375 | 4,900 | 7,475 |
| 2002 | 07-Jul | 12-Jul | 25-Jul | 08-Aug | 14-Sep | 17,740 | 17,340 | 3,051 |  | 400 | 11,169 | 3,799 | 7,370 |
| 2003 | 07-Jul | 11-Jul | $29-\mathrm{Jul}$ | 08-Aug | 18-Sep | 53,933 | 53,533 | 3,946 |  | 400 | 49,587 | 21,694 | 27,893 |
| 2004 | 07-Jul | 12-Jul | 25-Jul | 10-Aug | 15-Sep | 63,372 | 62,952 | 4,243 |  | 420 | 58,709 | 29,994 | 28,715 |
| 2005 | 07-Jul | 11-Jul | 04-Aug | 25-Aug | 15-Sep | 43,446 | 43,046 | 3,424 |  | 400 | 39,622 | 16,420 | 23,202 |
| 2006 | 09-Jul | 12-Jul | 27-Jul | 20-Aug | 13-Sep | 53,855 | 53,455 | 3,403 |  | 400 | 50,052 | 24,126 | 25,926 |
| 2007 | 09-Jul | 20-Jul | 08-Aug | 19-Aug | 15-Sep | 21,074 | 20,874 | 2,839 |  | 200 | 18,035 | 7,673 | 10,362 |
| 2008 | 13-Jul | 21-Jul | 30-Jul | 10-Aug | 18-Sep | 10,516 | 10,416 | 2,364 |  | 100 | 8,052 | 4,143 | 3,909 |
| 2009 | 09-Jul | 13-Jul | 18-Jul | 04-Aug | 14-Sep | 30,673 | 30,324 | 3,011 |  | 349 | 27,313 | 4,041 | 23,272 |
| 2010 | 07-Jul | 10-Jul | 29-Jul | 12-Aug | 15-Sep | 22,860 | 22,702 | 4,484 |  | 158 | 18,218 | 7,789 | 10,429 |
| 2011 | 09-Jul | 13-Jul | 18-Jul | 07-Aug | 31-Aug | 34,588 | 34,248 | 4,559 |  | 340 | 29,689 | 10,248 | 19,441 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 59-10 | 09-Jul | 18-Jul | 30-Jul | 11-Aug | 06-Sep | 24,948 | 24,214 |  |  |  |  |  |  |
| 01-10 | 08-Jul | 14-Jul | 28-Jul | 12-Aug | 15-Sep | 33,228 | 32,940 | 3,315 |  | 288 | 29,313 | 16,855 | 12,458 |

Appendix B. 26. Estimates of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 1984-2011.

| Year | Install | Date of Arrival |  |  | Total Count | Total Estimate | Date and Expansion | Smolt |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  | Natural | Hatchery |
| 1984 | 10-May | 11-May | 23-May | 06-Jun |  | 218,702 |  |  |  |
| 1985 | 25-Apr | 23-May | 31-May | 28-May |  | 613,531 |  |  |  |
| 1986 | 08-May | 10-May | 31-May | 07-Jun |  | 244,330 |  |  |  |
| $1987^{\text {a }}$ | 07-May | 15-May | 23-May | 24-May |  | 810,432 |  |  |  |
| 1988 | 01-May | 08-May | 20-May | 06-Jun |  | 1,170,136 |  |  |  |
| 1989 | 05-May | 08-May | 22-May | 06-Jun |  | 580,574 |  |  |  |
| $1990^{\text {b }}$ |  | 15-May | 29-May | 05-Jun | 595,147 | 610,407 | 6/14 97.5\% |  |  |
| $1991{ }^{\text {c }}$ | 05-May | 14-May | 21-May | 30-May | 1,439,676 | 1,487,265 | 6/13 96.8\% | 1,220,397 | 266,868 |
| $1992{ }^{\text {d }}$ | 07-May | 13-May | 21-May | 27-May | 1,516,150 | 1,555,026 | 6/14 97.5\% | 750,702 | 804,324 |
| 1993 | 07-May | 11-May | 17-May | 22-May |  | 3,255,045 |  | 2,855,562 | 399,483 |
| 1994 | 08-May | 08-May | 16-May | 12-Jun |  | 915,119 |  | 620,809 | 294,310 |
| 1995 | 05-May | 06-May | 13-May | 11-Jun |  | 822,284 |  | 767,027 | 55,257 |
| 1996 | 11-May | 11-May | 20-May | 25-May |  | 1,559,236 |  | 1,408,020 | 151,216 |
| 1997 | 07-May | 11-May | 23-May | 30-May |  | 518,202 |  | 348,685 | 169,517 |
| 1998 | 07-May | 08-May | 25-May | 05-Jun |  | 540,866 |  | 326,420 | 214,446 |
| 1999 | 06-May | 10-May | 09-Jun | 15-Jun |  | 762,033 |  | 468,488 | 293,545 |
| 2000 | 07-May | 09-May | 22-May | 17-Jun |  | 619,274 |  | 355,618 | 263,656 |
| 2001 | 06-May | 07-May | 24-May | 18-Jun |  | 1,495,642 |  | 841,268 | 654,374 |
| 2002 | 06-May | 14-May | 27-May | 12-Jun |  | 1,873,598 |  | 1,042,435 | 831,163 |
| 2003 | 06-May | 11-May | 29-May | 06-Jun |  | 1,960,480 |  | 979,442 | 981,038 |
| 2004 | 06-May | 10-May | 21-May | 25-May |  | 2,116,701 |  | 825,513 | 1,291,188 |
| 2005 | 06-May | 07-May | 17-May | 25-May |  | 1,843,804 |  | 943,929 | 899,875 |
| 2006 | 06-May | 10-May | 25-May | 02-Jun |  | 2,195,266 |  | 1,773,062 | 422,204 |
| 2007 | 06-May | 16-May | 21-May | 28-May |  | 1,055,114 |  | 644,987 | 410,127 |
| 2008 | 06-May | 12-May | 23-May | 02-Jun |  | 1,402,995 |  | 870,295 | 532,700 |
| 2009 | 06-May | 14-May | 26-May | 01-Jun |  | 746,045 |  | 484,929 | 261,116 |
| 2010 | 06-May | 10-May | 23-May | 07-Jun |  | 557,532 |  | 306,344 | 251,188 |
| 2011 | 07-May | 17-May | 26-May | 01-Jun |  | 1,632,119 |  | 960,531 | 671,588 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-10 | 06-May | 11-May | 23-May | 03-Jun |  | 1,167,764 |  | 891,697 | 472,380 |
| 01-10 | 06-May | 11-May | 23-May | 03-Jun |  | 1,524,718 |  | 871,220 | 653,497 |

[^2]Appendix B. 27. Weir counts of Chinook salmon at Little Tahltan River, 1985-2011.

| Year | Weir Installed | Date of Arrival |  |  | Total <br> Count | Broodstock and Other | Natural Spawners |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  |
| Large Chinook |  |  |  |  |  |  |  |
| 1985 | 03-Jul | 04-Jul | 30-Jul | 06-Aug | 3,114 |  | 3,114 |
| 1986 | 28-Jun | 29-Jun | 21-Jul | 05-Aug | 2,891 |  | 2,891 |
| 1987 | 28-Jun | 04-Jul | 24-Jul | 02-Aug | 4,783 |  | 4,783 |
| 1988 | 26-Jun | 27-Jun | 18-Jul | 03-Aug | 7,292 |  | 7,292 |
| 1989 | 25-Jun | 26-Jun | 23-Jul | 02-Aug | 4,715 |  | 4,715 |
| 1990 | 22-Jun | 29-Jun | 23-Jul | 04-Aug | 4,392 |  | 4,392 |
| 1991 | 23-Jun | 25-Jun | 20-Jul | 03-Aug | 4,506 |  | 4,506 |
| 1992 | 24-Jun | 04-Jul | 21-Jul | 30-Jul | 6,627 | -12 | 6,615 |
| 1993 | 20-Jun | 21-Jun | 16-Jul | 28-Jul | 11,449 | -12 | 11,437 |
| 1994 | 18-Jun | 28-Jun | 22-Jul | 02-Aug | 6,387 | -14 | 6,373 |
| 1995 | 17-Jun | 20-Jun | 17-Jul | 04-Aug | 3,072 | 0 | 3,072 |
| 1996 | 17-Jun | 26-Jun | 16-Jul | 30-Jul | 4,821 | 0 | 4,821 |
| 1997 | 14-Jun | 22-Jun | 16-Jul | 29-Jul | 5,557 | -10 | 5,547 |
| 1998 | 13-Jun | 19-Jun | 14-Jul | 29-Jul | 4,879 | -6 | 4,873 |
| 1999 | 18-Jun | 27-Jun | 19-Jul | 1-Aug | 4,738 | -5 | 4,733 |
| 2000 | 19-Jun | 23-Jun | 21-Jul | 5-Aug | 6,640 | -9 | 6,631 |
| 2001 | 20-Jun | 23-Jun | 18-Jul | 2-Aug | 9,738 | -8 | 9,730 |
| 2002 | 20-Jun | 23-Jun | 18-Jul | 27-Jul | 7,490 | -14 | 7,476 |
| 2003 | 20-Jun | 20-Jun | 19-Jul | 6-Aug | 6,492 | 0 | 6,492 |
| 2004 | 18-Jun | 19-Jun | 20-Jul | 31-Jul | 16,381 | 0 | 16,381 |
| 2005 | 19-Jun | 21-Jun | 22-Jul | 4-Aug | 7,387 | 0 | 7,387 |
| 2006 | 20-Jun | 26-Jun | 21-Jul | 29-Jul | 3,860 | 0 | 3,860 |
| 2007 | 4-Jul | 10-Jul | 29-Jul | 4-Aug | 562 | 0 | 562 |
| 2008 | 19-Jun | 6-Jul | 26-Jul | 4-Aug | 2,663 | 0 | 2,663 |
| 2009 | 19-Jun | 3-Jul | 19-Jul | 4-Aug | 2,245 | 0 | 2,245 |
| 2010 | 19-Jun | 22-Jun | 23-Jul | 2-Aug | 1,057 | 0 | 1,057 |
| 2011 | 19-Jun | 22-Jun | 23-Jul | 2-Aug | 1,753 | 0 | 1,753 |
| Averages |  |  |  |  |  |  |  |
| 85-10 | 21-Jun | 26-Jun | 20-Jul | 01-Aug | 5,528 |  | 5,385 |
| 01-10 | 20-Jun | 26-Jun | 21-Jul | 02-Aug | 5,788 | -2 | 5,785 |
| nonlargeChinook ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 1985 | 03-Jul | 04-Jul | 31-Jul | 10-Aug | 316 |  | 3,430 |
| 1986 | 28-Jun | 03-Jul | 25-Jul | 06-Aug | 572 |  | 3,463 |
| 1987 | 28-Jun | 03-Jul | 26-Jul | 06-Aug | 365 |  | 5,148 |
| 1988 | 26-Jun | 27-Jun | 17-Jul | 02-Aug | 327 |  | 7,619 |
| 1989 | 25-Jun | 26-Jun | 23-Jul | 02-Aug | 199 |  | 4,914 |
| 1990 | 22-Jun | 05-Jul | 22-Jul | 30-Jul | 417 |  | 4,809 |
| 1991 | 23-Jun | 03-Jul | 24-Jul | 07-Aug | 313 |  | 4,819 |
| 1992 | 24-Jun | 12-Jul | 22-Jul | 30-Jul | 131 |  | 6,758 |
| 1993 | 20-Jun | 30-Jun | 14-Jul | 01-Aug | 60 |  | 11,509 |
| 1994 | 18-Jun | 02-Jul | 22-Jul | 05-Aug | 121 |  | 6,508 |
| 1995 | 17-Jun | 22-Jun | 28-Jul | 10-Aug | 135 |  | 3,207 |
| 1996 | 17-Jun | 12-Jul | 25-Jul | 05-Aug | 22 |  | 4,843 |
| 1997 | 14-Jun | 26-Jun | 21-Jul | 1-Aug | 54 |  | 5,611 |
| 1998 | 13-Jun | 26-Jun | 20-Jul | 7-Aug | 37 |  | 4,916 |
| 1999 | 18-Jun | 1-Jul | 23-Jul | 6-Aug | 202 |  | 4,940 |
| 2000 | 19-Jun | 23-Jun | 20-Jul | 5-Aug | 108 |  | 6,748 |
| 2001 | 20-Jun | 23-Jun | 27-Jul | 3-Aug | 269 |  | 10,007 |
| 2002 | 20-Jun | 26-Jun | 21-Jul | 7-Aug | 618 |  | 8,108 |
| 2003 | 20-Jun | 30-Jun | 21-Jul | 5-Aug | 334 |  | 6,826 |
| 2004 | 18-Jun | 21-Jun | 19-Jul | 31-Jul | 250 |  | 16,631 |
| 2005 | 19-Jun | 29-Jun | 23-Jul | 4-Aug | 231 |  | 7,618 |
| 2006 | 20-Jun | 7-Jul | 23-Jul | 5-Aug | 93 |  | 3,953 |
| 2007 | 04-Jul | 15-Jul | 29-Jul | 1-Aug | 12 |  | 574 |
| 2008 | 19-Jun | 14-Jul | 25-Jul | 29-Jul | 139 |  | 2,802 |
| 2009 | 19-Jun | 9-Jul | 19-Jul | 4-Aug | 99 |  | 2,344 |
| 2010 | 19-Jun | 7-Jul | 26-Jul | 4-Aug | 221 |  | 1,278 |
| 2011 | 27-Jun | 7-Jul | 26-Jul | 4-Aug | 194 |  | 1,947 |
| Averages |  |  |  |  |  |  |  |
| 85-12 | 21-Jun | 01-Jul | 22-Jul | 03-Aug | 217 |  | 5,746 |
| 03-12 | 20-Jun | 03-Jul | 23-Jul | 03-Aug | 227 |  | 6,014 |

Appendix B. 28. Historical pink and chum salmon harvest in the Canadian fisheries,

| Year | LSCF |  | USCF |  | FSC |  | Test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pink | Chum | Pink | Chum | Pink | Chum | Pink | Chum |
| 1972 |  |  |  |  | 0 | 0 |  |  |
| 1973 |  |  |  |  | 0 | 0 |  |  |
| 1974 |  |  |  |  | 0 | 0 |  |  |
| 1975 |  |  | 0 | 0 | 0 | 0 |  |  |
| 1976 |  |  | 0 | 0 | 0 | 0 |  |  |
| 1977 |  |  | 0 | 0 | 0 | 0 |  |  |
| 1978 |  |  | 0 | 0 | 0 | 0 |  |  |
| 1979 | 1,994 | 424 |  |  | 0 | 0 | 1,994 | 424 |
| 1980 | 736 | 771 | 20 | 0 | 0 | 0 | 756 | 771 |
| 1981 | 3,713 | 1,128 | 0 | 0 | 144 | 0 | 3,857 | 1,128 |
| 1982 | 1,782 | 722 | 0 | 0 | 60 | 0 | 1,842 | 722 |
| 1983 | 1,043 | 274 | 0 | 4 | 77 | 26 | 1,120 | 304 |
| 1984 |  |  |  |  | 62 | 0 | 62 | 0 |
| 1985 | 2,321 | 532 | 0 | 0 | 35 | 4 | 2,356 | 536 |
| 1986 | 107 | 295 | 0 | 0 | 0 | 12 | 107 | 307 |
| 1987 | 646 | 432 | 0 | 19 | 0 | 8 | 646 | 459 |
| 1988 | 418 | 730 | 0 | 0 | 0 | 3 | 418 | 733 |
| 1989 | 825 | 674 | 0 | 0 | 0 | 0 | 825 | 674 |
| 1990 | 496 | 499 | 0 | 0 | 0 | 0 | 496 | 499 |
| 1991 | 394 | 208 | 0 | 0 | 0 | 0 | 394 | 208 |
| 1992 | 122 | 231 | 0 | 0 | 0 | 0 | 122 | 231 |
| 1993 | 29 | 395 | 0 | 0 | 0 | 0 | 29 | 395 |
| 1994 | 89 | 173 | 1 | 0 | 0 | 0 | 90 | 173 |
| 1995 | 48 | 256 | 0 | 0 | 0 | 7 | 48 | 263 |
| 1996 | 25 | 229 | 0 | 0 | 0 | 3 | 25 | 232 |
| 1997 | 269 | 222 | 0 | 0 | 0 | 0 | 269 | 222 |
| 1998 | 55 | 13 | 0 | 0 | 0 | 0 | 55 | 13 |
| 1999 | 11 | 8 | 0 | 0 | 0 | 0 | 11 | 8 |
| 2000 | 181 | 144 | 0 | 0 | 0 | 0 | 181 | 144 |
| 2001 | 78 | 56 | 0 | 0 | 0 | 0 | 78 | 56 |
| 2002 | 19 | 33 | 0 | 0 | 0 | 0 | 19 | 33 |
| 2003 | 850 | 112 | 0 | 0 | 0 | 0 | 850 | 112 |
| 2004 | 8 | 134 | 0 | 0 | 0 | 0 | 8 | 134 |
| 2005 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 39 |
| 2006 | 0 | 14 | 0 | 0 | 4 | 0 | 4 | 14 |
| 2007 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2008 | 88 | 90 | 0 | 0 | 0 | 0 | 88 | 90 |
| 2009 | 362 | 193 | 0 | 0 | 0 | 0 | 362 | 193 |
| 2010 | 209 | 122 | 0 | 0 | 0 | 0 | 209 | 122 |
| 2011 | 3 | 99 | 0 | 0 | 0 | 0 | 3 | 99 |

Appendix C. 1. Weekly Chinook salmon harvest in the U.S. fisheries in D111, 2011.


Appendix C. 2. Weekly Chinook salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River 2011.

|  | Inseason | Commercial |  | Test fishery |  | Aboriginal |  | Rec | Total large Above Border <br> Harvest Escapement |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Aboveborder | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |  |  |  |
| 18 |  | 96 | 4 |  |  |  |  |  | 96 |  |
| 19 | 2,022 | 316 | 32 |  |  |  |  |  | 316 |  |
| 20 | 6,335 | 509 | 66 |  |  |  |  |  | 509 |  |
| 21 | 7,659 | 786 | 138 |  |  |  |  |  | 786 |  |
| 22 | 8,881 |  |  | 251 | 59 |  |  |  | 251 |  |
| 23 | 10,074 |  |  | 177 | 16 |  |  |  | 177 |  |
| 24 | 12,135 |  |  | 159 | 31 |  |  |  | 159 |  |
| 25 | 13,350 |  |  | 93 | 28 |  |  |  | 0 |  |
| 26 | 14,325 | 193 | 115 |  |  |  |  |  | 193 |  |
| 27 | 14,797 | 212 | 61 |  |  |  |  |  | 212 |  |
| 28 | 15,009 | 159 | 58 |  |  |  |  |  | 159 |  |
| 29 |  | 45 | 22 |  |  |  |  |  | 45 |  |
| 30 |  | 18 | 11 |  |  |  |  |  | 18 |  |
| 31 |  | 6 | 3 |  |  |  |  |  | 6 |  |
| 32 |  | 1 | 4 |  |  |  |  |  | 1 |  |
| 33 |  | 0 |  |  |  |  |  |  | 0 |  |
| 34 |  | 1 |  |  |  |  |  |  | 1 |  |
| Postseason estimate |  |  |  |  |  |  |  |  |  |  |
|  | 31,469 | 2,342 | 514 | 680 | 134 | 150 | 21 | 105 | 3,277 | 27,523 |

Appendix C. 3. Weekly sockeye salmon harvest of Alaskan D111 traditional and terminal common property commercial drift gillnet fishery, 2011.

| SW | D11 Total | Traditional Stat Area specific harvests |  |  |  | $\frac{\text { Terminal }}{111-(33-35)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 111-32 | 111-31/90 | 111-20 | 111-34 |  |
| 25 |  |  |  |  |  |  |
| 26 | 2,143 | 2,093 | 50 |  |  |  |
| 27 | 4,531 | 4,444 | 87 |  |  |  |
| 28 | 8,487 | 8,226 | 261 |  |  |  |
| 29 | 18,938 | 17,237 | 1,504 | 197 |  |  |
| 30 | 9,833 | 7,501 | 1,745 | 587 |  |  |
| 31 | 18,132 | 13,203 | 2,117 | 2,812 |  |  |
| 32 | 20,306 | 16,837 | 2,109 | 1,360 |  |  |
| 33 | 13,354 | 6,725 | 4,892 | 1,737 |  |  |
| 34 | 62,781 | 1,143 | 343 | 147 |  | 61,148 |
| 35 | 2,900 | 719 | 850 | 223 | 351 | 757 |
| 36 | 2,236 | 783 | 3 | 22 |  | 1,428 |
| 37 | 217 | 45 | 9 |  |  | 163 |
| 38 | 34 | 34 |  |  |  |  |
| 39 | 4 | 4 |  |  |  |  |
| 40 | 0 | 0 |  |  |  |  |
| 41 |  |  |  |  |  |  |
| Total | 163,896 | 78,994 | 13,970 | 7,085 | 351 | 63,496 |

## Appendix C. 4. Weekly stock proportions of sockeye salmon harvested in the Alaskan <br> District 111 traditional commercial drift gillnet fishery, 2011.

| Appendix C. 8. Weekly coho salmon mark-recapture estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2011. Enhanced estimates based on harvest expanations of thermally marked fish. Does not inlcude Port Snettisham harvests. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Taku harvest proportions |  |  |  |  |  |  | Total <br> Taku | Wild |  |  | U.S. <br> Enhanced | Stikine <br> Enhanced | Total <br> Enhanced | Total wild |
|  | Kuthai | King Salmon | Mainstem | Little Trapper |  | Tatsamenie |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Wild | Enhanced | Wild | Enhanced |  | Crescent | Speel | Snett. |  |  |  |  |
| 25 |  |  |  |  |  |  |  | 0.000 |  |  | 0.000 |  |  | 0.000 | 1.000 |
| 26 | 0.288 | 0.216 | 0.405 | 0.000 | 0.000 | 0.079 | 0.000 | 0.988 | 0.012 | 0.000 | 0.012 | 0.000 | 0.000 | 0.000 | 1.000 |
| 27 | 0.215 | 0.288 | 0.361 | 0.038 | 0.010 | 0.041 | 0.010 | 0.963 | 0.000 | 0.023 | 0.023 | 0.002 | 0.012 | 0.034 | 0.966 |
| 28 | 0.038 | 0.052 | 0.373 | 0.145 | 0.035 | 0.190 | 0.021 | 0.853 | 0.057 | 0.057 | 0.114 | 0.019 | 0.014 | 0.089 | 0.911 |
| 29 | 0.028 | 0.049 | 0.556 | 0.000 | 0.045 | 0.133 | 0.067 | 0.879 | 0.039 | 0.024 | 0.063 | 0.057 | 0.001 | 0.170 | 0.830 |
| 30 | 0.009 | 0.058 | 0.415 | 0.000 | 0.016 | 0.217 | 0.070 | 0.785 | 0.051 | 0.000 | 0.051 | 0.163 | 0.001 | 0.250 | 0.750 |
| 31 | 0.000 | 0.000 | 0.398 | 0.083 | 0.007 | 0.201 | 0.062 | 0.751 | 0.000 | 0.034 | 0.034 | 0.212 | 0.002 | 0.284 | 0.716 |
| 32 | 0.000 | 0.000 | 0.408 | 0.063 | 0.002 | 0.135 | 0.027 | 0.635 | 0.000 | 0.013 | 0.013 | 0.352 | 0.000 | 0.381 | 0.619 |
| 33 | 0.000 | 0.000 | 0.251 | 0.081 | 0.003 | 0.032 | 0.014 | 0.382 | 0.000 | 0.050 | 0.050 | 0.566 | 0.002 | 0.585 | 0.415 |
| 34 | 0.000 | 0.000 | 0.141 | 0.065 | 0.000 | 0.022 | 0.000 | 0.228 | 0.000 | 0.033 | 0.033 | 0.738 | 0.002 | 0.739 | 0.261 |
| 35 | 0.000 | 0.000 | 0.141 | 0.065 | 0.000 | 0.022 | 0.000 | 0.228 | 0.000 | 0.033 | 0.033 | 0.738 | 0.002 | 0.739 | 0.261 |
| 36 | 0.000 | 0.000 | 0.141 | 0.065 | 0.000 | 0.022 | 0.000 | 0.228 | 0.000 | 0.033 | 0.033 | 0.738 | 0.002 | 0.739 | 0.261 |
| 37 | 0.000 | 0.000 | 0.141 | 0.065 | 0.000 | 0.022 | 0.000 | 0.228 | 0.000 | 0.033 | 0.033 | 0.738 | 0.002 | 0.739 | 0.261 |
| 38 | 0.000 | 0.000 | 0.141 | 0.065 | 0.000 | 0.022 | 0.000 | 0.228 | 0.000 | 0.033 | 0.033 | 0.738 | 0.002 | 0.739 | 0.261 |
| 39 | 0.000 | 0.000 | 0.141 | 0.065 | 0.000 | 0.022 | 0.000 | 0.228 | 0.000 | 0.033 | 0.033 | 0.738 | 0.002 | 0.739 | 0.261 |
| 40 | 0.000 | 0.000 | 0.141 | 0.065 | 0.000 | 0.022 | 0.000 | 0.228 | 0.000 | 0.033 | 0.033 | 0.738 | 0.002 | 0.739 | 0.261 |
| 41 |  |  |  |  |  |  |  | 0.000 |  |  | 0.000 |  |  | 0.000 | 1.000 |
| Total | 0.025 | 0.037 | 0.397 | 0.055 | 0.016 | 0.135 | 0.040 | 0.707 | 0.018 | 0.027 | 0.045 | 0.246 | 0.003 | 0.305 | 0.695 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 617 | 464 | 869 | 0 | 0 | 168 | 0 | 2,118 | 25 | 0 | 25 | 0 | 0 | 0 | 2,143 |
| 27 | 973 | 1,306 | 1,638 | 172 | 45 | 185 | 45 | 4,363 | 0 | 103 | 103 | 9 | 56 | 155 | 4,376 |
| 28 | 322 | 437 | 3,165 | 1,232 | 295 | 1,610 | 179 | 7,241 | 487 | 481 | 968 | 158 | 120 | 753 | 7,734 |
| 29 | 535 | 936 | 10,522 | 0 | 853 | 2,522 | 1,275 | 16,644 | 741 | 457 | 1,198 | 1,077 | 18 | 3,224 | 15,714 |
| 30 | 91 | 570 | 4,081 | 0 | 155 | 2,132 | 690 | 7,718 | 498 | 0 | 498 | 1,603 | 14 | 2,462 | 7,371 |
| 31 | 0 | 0 | 7,223 | 1,502 | 127 | 3,653 | 1,121 | 13,626 | 0 | 611 | 611 | 3,851 | 44 | 5,142 | 12,990 |
| 32 | 0 | 0 | 8,279 | 1,274 | 43 | 2,751 | 553 | 12,898 | 0 | 257 | 257 | 7,151 | 0 | 7,746 | 12,560 |
| 33 | 0 | 0 | 3,358 | 1,087 | 41 | 431 | 183 | 5,101 | 0 | 669 | 669 | 7,556 | 28 | 7,808 | 5,546 |
| 34 | 0 | 0 | 230 | 106 | 0 | 36 | 0 | 372 | 0 | 54 | 54 | 1,205 | 3 | 1,207 | 426 |
| 35 | 0 | 0 | 252 | 117 | 0 | 39 | 0 | 408 | 0 | 59 | 59 | 1,322 | 3 | 1,325 | 467 |
| 36 | 0 | 0 | 114 | 53 | 0 | 18 | 0 | 184 | 0 | 27 | 27 | 596 | 1 | 597 | 211 |
| 37 | 0 | 0 | 8 | 4 | 0 | 1 | 0 | 12 | 0 | 2 | 2 | 40 | 0 | 40 | 14 |
| 38 | 0 | 0 | 5 | 2 | 0 | 1 | 0 | 8 | 0 | 1 | 1 | 25 | 0 | 25 | 9 |
| 39 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 3 | 1 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2,538 | 3,714 | 39,743 | 5,548 | 1,557 | 13,548 | 4,047 | 70,693 | 1,752 | 2,721 | 4,473 | 24,595 | 288 | 30,487 | 69,562 |

Appendix C. 5. Weekly sockeye salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2011.

| SW | Above Border <br> Run | Commercial |  | Test | Aboriginal | Above <br> Border <br> Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All | Taku |  |  |  |
| 22 |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |
| 24 |  |  |  |  | 5 |  |
| 25 |  | 17 | 17 |  | 4 |  |
| 26 | 10,365 | 869 | 869 |  | 0 |  |
| 27 | 33,882 | 837 | 828 |  | 5 |  |
| 28 | 35,196 | 2,117 | 2,094 |  | 2 |  |
| 29 | 47,847 | 1,391 | 1,391 |  | 1 |  |
| 30 | 80,335 | 4,668 | 4,593 |  | 0 |  |
| 31 | 97,419 | 4,355 | 4,327 |  | 0 |  |
| 32 | 114,510 | 4,900 | 4,900 |  | 8 |  |
| 33 | 123,489 | 2,415 | 2,415 |  | 16 |  |
| 34 | 132,472 | 1,001 | 1,001 | 232 | 67 |  |
| 35 | 132,472 | 502 | 502 | 143 | 2 |  |
| 36 | 133,107 | 828 | 828 | 127 | 3 |  |
| 37 |  | 56 | 56 | 19 | 0 |  |
| 38 | 136,861 | 72 | 72 | 0 | 0 |  |
| 39 |  | 4 | 4 | 0 |  |  |
| 40 |  | 0 |  | 0 |  |  |
| 41 |  |  |  | 0 | 11 |  |
| Postseason | 139,926 | 24,032 | 23,898 | 521 | 124 | 115,383 |
| Expanded |  |  |  |  |  |  |

## Appendix C. 6. Estimates of wild and enhanced sockeye salmon stock harvested in the

Canadian commercial fishery in the Taku River by week, 2011.

| Taku wild stock composition estimates are historical averages. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Littl | Trapper |  | enie | Stikine | US | Taku |
| SW | Kuthai | King Salmon | Mainstem | Wild | Enhanced | Wild | Enhanced | Enhanced | Enhanced | Wild |
| 22-24 |  |  |  |  |  |  |  |  |  | 1.000 |
| 25 | 0.516 | 0.258 | 0.150 | 0.000 | 0.000 | 0.071 | 0.005 | 0.000 | 0.000 | 0.995 |
| 26 | 0.516 | 0.258 | 0.150 | 0.000 | 0.000 | 0.071 | 0.005 | 0.000 | 0.000 | 0.995 |
| 27 | 0.434 | 0.175 | 0.286 | 0.061 | 0.005 | 0.000 | 0.028 | 0.011 | 0.000 | 0.956 |
| 28 | 0.223 | 0.270 | 0.345 | 0.087 | 0.011 | 0.044 | 0.011 | 0.011 | 0.000 | 0.968 |
| 29 | 0.068 | 0.161 | 0.417 | 0.050 | 0.038 | 0.070 | 0.197 | 0.000 | 0.000 | 0.765 |
| 30 | 0.000 | 0.032 | 0.196 | 0.090 | 0.053 | 0.517 | 0.095 | 0.016 | 0.000 | 0.835 |
| 31 | 0.000 | 0.097 | 0.378 | 0.000 | 0.000 | 0.443 | 0.076 | 0.000 | 0.006 | 0.917 |
| 32 | 0.000 | 0.050 | 0.498 | 0.000 | 0.010 | 0.412 | 0.029 | 0.000 | 0.000 | 0.960 |
| 33 | 0.000 | 0.000 | 0.611 | 0.000 | 0.005 | 0.341 | 0.043 | 0.000 | 0.000 | 0.952 |
| 34 | 0.000 | 0.000 | 0.847 | 0.000 | 0.013 | 0.140 | 0.000 | 0.000 | 0.000 | 0.987 |
| 35 | 0.000 | 0.000 | 0.672 | 0.000 | 0.000 | 0.328 | 0.000 | 0.000 | 0.000 | 1.000 |
| 36 | 0.000 | 0.000 | 0.830 | 0.000 | 0.000 | 0.170 | 0.000 | 0.000 | 0.000 | 1.000 |
| 37 | 0.000 | 0.000 | 0.830 | 0.000 | 0.000 | 0.170 | 0.000 | 0.000 | 0.000 | 1.000 |
| 38 | 0.000 | 0.000 | 0.830 | 0.000 | 0.000 | 0.170 | 0.000 | 0.000 | 0.000 | 1.000 |
| 39 | 0.000 | 0.000 | 0.830 | 0.000 | 0.000 | 0.170 | 0.000 | 0.000 | 0.000 | 1.000 |
| Total | 0.058 | 0.083 | 0.422 | 0.030 | 0.017 | 0.329 | 0.056 | 0.004 | 0.001 | 0.921 |
| 22-24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 9 | 4 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 17 |
| 26 | 449 | 224 | 131 | 0 | 0 | 61 | 4 | 0 | 0 | 865 |
| 27 | 363 | 147 | 239 | 51 | 4 | 0 | 24 | 9 | 0 | 800 |
| 28 | 472 | 571 | 731 | 183 | 23 | 93 | 22 | 23 | 0 | 2,049 |
| 29 | 94 | 224 | 580 | 69 | 52 | 97 | 275 | 0 | 0 | 1,064 |
| 30 | 0 | 151 | 915 | 420 | 250 | 2,414 | 444 | 75 | 0 | 3,900 |
| 31 | 0 | 421 | 1,646 | 0 | 0 | 1,928 | 332 | 0 | 28 | 3,995 |
| 32 | 0 | 247 | 2,439 | (0) | 51 | 2,020 | 143 | 0 | 0 | 4,706 |
| 33 | 0 | 0 | 1,475 | 0 | 13 | 824 | 103 | 0 | 0 | 2,299 |
| 34 | 0 | 0 | 848 | 0 | 13 | 140 | 0 | 0 | 0 | 988 |
| 35 | 0 | 0 | 337 | 0 | 0 | 165 | 0 | 0 | 0 | 502 |
| 36 | 0 | 0 | 687 | 0 | 0 | 141 | 0 | 0 | 0 | 828 |
| 37 | 0 | 0 | 46 | 0 | 0 | 10 | 0 | 0 | 0 | 56 |
| 38 | 0 | 0 | 60 | 0 | 0 | 12 | 0 | 0 | 0 | 72 |
| 39 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 4 |
| Total | 1,387 | 1,990 | 10,140 | 723 | 406 | 7,906 | 1,347 | 106 | 28 | 22,145 |

Appendix C. 7. Weekly coho salmon harvest in the traditional Alaskan District 111 and
subdistrict 111-32 (Taku Inlet), commercial drift gillnet fishery, 2011.

|  | D111 |  |  | $111-32$ |
| :--- | :---: | :---: | :---: | :---: |
| SW | Total | Hatchery | Wild |  |
| 25 |  |  |  |  |
| 26 | 25 | 0 | 25 | 15 |
| 27 | 106 | 0 | 106 | 97 |
| 28 | 928 | 0 | 928 | 668 |
| 29 | 1,225 | 0 | 1,225 | 919 |
| 30 | 1,877 | 767 | 1,110 | 528 |
| 31 | 4,827 | 246 | 4,581 | 1,946 |
| 32 | 2,397 | 36 | 2,361 | 1,636 |
| 33 | 3,699 | 0 | 3,699 | 1,871 |
| 34 | 904 | 0 | 904 | 424 |
| 35 | 3,073 | 357 | 2,716 | 775 |
| 36 | 3,930 | 328 | 3,602 | 3,797 |
| 37 | 1,155 | 82 | 1,073 | 1,151 |
| 38 | 2,390 | 272 | 2,118 | 2,390 |
| 39 | 765 | 0 | 765 | 765 |
| 40 | 262 | 0 | 262 | 262 |
| 41 |  |  |  |  |
| Total | 27,563 | 2,088 | 25,475 | 17,244 |

Appendix C. 8. Weekly coho salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2011.

| SW | Above borde <br> Run | Harvest |  |  | Above border Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Commercial Aboriginal | Recreational | Test |  |
| 18 |  |  |  |  |  |
| 19 |  |  |  |  |  |
| 20 |  |  |  |  |  |
| 21 |  |  |  |  |  |
| 22 |  |  |  |  |  |
| 23 |  |  |  |  |  |
| 24 |  |  |  |  |  |
| 25 |  |  |  |  |  |
| 26 |  | 0 |  |  |  |
| 27 |  | 1 |  |  |  |
| 28 |  | 12 |  |  |  |
| 29 |  | 63 |  |  |  |
| 30 |  | 333 |  |  |  |
| 31 |  | 463 |  |  |  |
| 32 | 9,932 | 774 |  |  |  |
| 33 | 13,611 | 707 |  |  |  |
| 34 | 18,850 | 793 |  | 300 |  |
| 35 | 28,063 | 877 |  | 400 |  |
| 36 | 33,486 | 2,581 |  | 500 |  |
| 37 | 43,322 | 326 |  | 295 |  |
| 38 | 56,555 | 1,300 |  | 1,005 |  |
| 39 | 62,580 | 156 |  | 600 |  |
| 40 |  | 60 |  | 500 |  |
| 41 | 77,504 |  |  | 402 |  |
| Before SW34 |  | 2,353 |  |  |  |
| SW34 to end |  | 6,093 |  |  |  |
| Postseason Estimat | + 83,349 | 8,446 30 | 0 | 4,002 | 70,871 |

Appendix C. 9. Weekly effort in the Alaskan traditional District 111 and subdistrict 11132 (Taku Inlet), commercial drift gillnet fishery, 2011.

| SW | Start <br> Date | D111 |  |  | D111-32 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Boats | Days Open | $\begin{aligned} & \text { Boat } \\ & \text { Days } \\ & \hline \end{aligned}$ | Boats | Days Open | Boat Days |
| 25 |  |  |  |  |  |  |  |
| 26 | 19-Jun | 43 | 2.0 | 86 | 41 | 2 | 82 |
| 27 | 26-Jun | 52 | 3.0 | 156 | 52 | 3 | 156 |
| 28 | 3-Jul | 75 | 3.0 | 225 | 71 | 3 | 213 |
| 29 | 10-Jul | 160 | 3.0 | 480 | 158 | 3 | 474 |
| 30 | 17-Jul | 156 | 3.0 | 468 | 112 | 3 | 336 |
| 31 | 24-Jul | 123 | 4.0 | 492 | 93 | 4 | 372 |
| 32 | 31-Jul | 87 | 4.0 | 348 | 73 | 4 | 292 |
| 33 | 7-Aug | 100 | 4.0 | 400 | 66 | 4 | 264 |
| 34 | 14-Aug | 37 | 3.0 | 111 | 22 | 3 | 66 |
| 35 | 21-Aug | 63 | 3.0 | 189 | 29 | 3 | 87 |
| 36 | 28-Aug | 53 | 3.0 | 159 | 47 | 3 | 141 |
| 37 | 4-Sep | 30 | 3.0 | 90 | 29 | 3 | 87 |
| 38 | 11-Sep | 27 | 2.0 | 54 | 27 | 2 | 54 |
| 39 | 18-Sep | 10 | 3.0 | 30 | 10 | 3 | 30 |
| 40 | 25-Sep | 5 | 3.0 | 15 | 5 | 3 | 15 |
| 41 |  |  |  | 0 |  |  | 0 |
| Total |  |  | 46.0 | 3,303 |  | 46.0 | 2,669 |

Appendix C. 10. Weekly effort in the Canadian commercial and assessment fisheries in the Taku River, 2011.

| SW | Start <br> Date | Commercial |  |  | Assessment/Test |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Average | Days | Permit | Average | Days | Permit |
|  |  | Permits | Fished | Days | Permits | Fished | Days |
| 18 | 24-Apr | 7.00 | 2.00 | 14.00 |  |  | 0.00 |
| 19 | 1-May | 6.25 | 4.00 | 25.00 |  |  | 0.00 |
| 20 | 8-May | 9.33 | 3.00 | 28.00 |  |  | 0.00 |
| 21 | 15-May | 11.00 | 3.00 | 33.00 |  |  | 0.00 |
| 22 | 22-May |  |  |  | 11.0 | 0.8 | 9.17 |
| 23 | 29-May |  |  |  | 10.7 | 0.7 | 7.13 |
| 24 | 5-Jun |  |  |  | 10.0 | 0.2 | 1.67 |
| 25 | 12-Jun |  |  |  | 11.0 | 0.2 | 1.83 |
| 26 | 19-Jun | 12.00 | 1.00 | 12.00 |  |  | 0.00 |
| 27 | 26-Jun | 12.00 | 2.00 | 24.00 |  |  | 0.00 |
| 28 | 3-Jul | 11.00 | 3.00 | 33.00 |  |  | 0.00 |
| 29 | 10-Jul | 11.00 | 2.00 | 22.00 |  |  | 0.00 |
| 30 | 17-Jul | 11.00 | 4.00 | 44.00 |  |  | 0.00 |
| 31 | 24-Jul | 11.33 | 3.00 | 34.00 |  |  | 0.00 |
| 32 | 31-Jul | 10.50 | 4.00 | 42.00 |  |  | 0.00 |
| 33 | 7-Aug | 10.50 | 2.00 | 21.00 |  |  | 0.00 |
| 34 | 14-Aug | 6.33 | 3.00 | 19.00 |  | 4 | 0.00 |
| 35 | 21-Aug | 4.17 | 6.00 | 25.00 |  | 6 | 0.00 |
| 36 | 28-Aug | 5.60 | 5.00 | 28.00 |  | 5 | 0.00 |
| 37 | 4-Sep | 2.67 | 6.00 | 16.00 |  | 7 | 0.00 |
| 38 | 11-Sep | 2.67 | 6.00 | 16.00 |  | 6 | 0.00 |
| 39 | 18-Sep | 1.00 | 3.00 | 3.00 |  | 5 | 0.00 |
| 40 | 25-Sep | 1.00 | 1.00 | 1.00 |  | 4 | 0.00 |
| 41 | 2-Oct |  |  |  |  | 4 | 0.00 |
| Total |  |  | 63 | 440 |  | 43 | 20 |

Appendix C. 11. Daily counts of adult sockeye salmon passing through Tatsamenie weir, 2011.

| Date | Tatsamenie |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Count | Cumulative |  |  |
|  |  | Count | Percent |  |
| Weir installed 7/26 |  |  |  |  |
| 6-Aug | 34 | 34 | 0.4 |  |
| 7-Aug | 86 | 120 | 1.5 |  |
| 8-Aug | 104 | 224 | 2.8 |  |
| 9-Aug | 116 | 340 | 4.3 |  |
| 10-Aug | 124 | 464 | 5.9 |  |
| 11-Aug | 91 | 555 | 7.0 |  |
| 12-Aug | 129 | 684 | 8.7 |  |
| 13-Aug | 253 | 937 | 11.9 |  |
| 14-Aug | 41 | 978 | 12.4 |  |
| 15-Aug | 105 | 1,083 | 13.7 |  |
| 16-Aug | 417 | 1,500 | 19.0 |  |
| 17-Aug | 251 | 1,751 | 22.2 |  |
| 18-Aug | 367 | 2,118 | 26.9 |  |
| 19-Aug | 392 | 2,510 | 31.9 |  |
| 20-Aug | 255 | 2,765 | 35.1 |  |
| 21-Aug | 439 | 3,204 | 40.7 |  |
| 22-Aug | 935 | 4,139 | 52.5 |  |
| 23-Aug | 506 | 4,645 | 58.9 |  |
| 24-Aug | 284 | 4,929 | 62.6 |  |
| 25-Aug | 715 | 5,644 | 71.6 |  |
| 26-Aug | 271 | 5,915 | 75.1 |  |
| 27-Aug | 143 | 6,058 | 76.9 |  |
| 28-Aug | 52 | 6,110 | 77.5 |  |
| 29-Aug | 96 | 6,206 | 78.8 |  |
| 30-Aug | 233 | 6,439 | 81.7 |  |
| 31-Aug | 140 | 6,579 | 83.5 |  |
| 1-Sep | 171 | 6,750 | 85.7 |  |
| 2-Sep | 90 | 6,840 | 86.8 |  |
| 3-Sep | 146 | 6,986 | 88.7 |  |
| 4-Sep | 273 | 7,259 | 92.1 |  |
| 5-Sep | 103 | 7,362 | 93.4 |  |
| 6-Sep | 107 | 7,469 | 94.8 |  |
| 7-Sep | 4 | 7,473 | 94.8 |  |
| 8-Sep | 21 | 7,494 | 95.1 |  |
| 9-Sep | 9 | 7,503 | 95.2 |  |
| 10-Sep | 43 | 7,546 | 95.8 |  |
| 11-Sep | 21 | 7,567 | 96.0 |  |
| 12-Sep | 20 | 7,587 | 96.3 |  |
| 13-Sep | 42 | 7,629 | 96.8 |  |
| 14-Sep | 2 | 7,631 | 96.8 |  |
| 15-Sep | 0 | 7,631 | 96.8 |  |
| 16-Sep | 17 | 7,648 | 97.1 |  |
| 17-Sep | 24 | 7,672 | 97.4 |  |
| 18-Sep | 28 | 7,700 | 97.7 |  |
| 19-Sep | 26 | 7,726 | 98.0 |  |
| 20-Sep | 6 | 7,732 | 98.1 |  |
| 21-Sep | 0 | 7,732 | 98.1 |  |
| 22-Sep | 103 | 7,835 | 99.4 |  |
| 23-Sep | 0 | 7,835 | 99.4 |  |
| 24-Sep | 0 | 7,835 | 99.4 |  |
| 25-Sep | 35 | 7,870 | 99.9 |  |
| 26-Sep | 0 | 7,870 | 99.9 |  |
| 27-Sep | 10 | 7,880 | 100.0 |  |
| 28-Sep |  | 7,880 | 100.0 |  |
| 29-Sep | pulled |  |  |  |
|  |  | Total | Wild | TMR |
| Holding below weir |  |  |  |  |
| Escapem | to lake | 7,880 | 6,019 | 1,861 |
| Outlet sp | ers | <15 |  |  |
| otoltih sa |  | 199 | 152 | 47 |
| Broodsto |  | -1,300 | -993 | -307 |
| Spawners |  | 6,580 |  |  |

a Broodstock included 513 females and 410 males from which gametes were collected,
10 females and 15 male mortalities, and 277 females and 75 males which were held and released unspawned.
The spawning success of the released fish is not known.

Appendix C. 12. Daily counts of adult sockeye salmon passing through Little Trapper Lake weir, 2011.

|  |  | Cumulative |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  | Count $^{\mathrm{a}}$ | Count | Percent |  |
| Date | Weir installed July 13 |  |  |  |
| 23-Jul |  |  |  |  |

Appendix C. 13. Daily counts of adult sockeye salmon passing through the King Salmon Lake weir, 2011.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 4-Jul |  |  |  |
| 5-Jul |  |  |  |
| 6-Jul | Weir installed July 7 |  |  |
| 7-Jul | 0 | 0 | 0.0 |
| 8-Jul | 0 | 0 | 0.0 |
| 9-Jul | 0 | 0 | 0.0 |
| 10-Jul | 0 | 0 | 0.0 |
| 11-Jul | 20 | 20 | 3.8 |
| 12-Jul | 3 | 23 | 4.4 |
| 13-Jul | 61 | 84 | 16.1 |
| 14-Jul | 1 | 85 | 16.3 |
| 15-Jul | 11 | 96 | 18.4 |
| 16-Jul | 3 | 99 | 18.9 |
| 17-Jul | 0 | 99 | 18.9 |
| 18-Jul | 9 | 108 | 20.7 |
| 19-Jul | 120 | 228 | 43.6 |
| 20-Jul | 145 | 373 | 71.3 |
| 21-Jul | 29 | 402 | 76.9 |
| 22-Jul | 14 | 416 | 79.5 |
| 23-Jul | 4 | 420 | 80.3 |
| 24-Jul | 0 | 420 | 80.3 |
| 25-Jul | 80 | 500 | 95.6 |
| 26-Jul | 0 | 500 | 95.6 |
| 27-Jul | 0 | 500 | 95.6 |
| 28-Jul | 0 | 500 | 95.6 |
| 29-Jul | 0 | 500 | 95.6 |
| 30-Jul | 0 | 500 | 95.6 |
| 31-Jul | 0 | 500 | 95.6 |
| 1-Aug | 10 | 510 | 97.5 |
| 2-Aug | 9 | 519 | 99.2 |
| 3-Aug | 0 | 519 | 99.2 |
| 4-Aug | 0 | 519 | 99.2 |
| 5-Aug | 0 | 519 | 99.2 |
| 6-Aug | 0 | 519 | 99.2 |
| 7-Aug | 0 | 519 | 99.2 |
| 8-Aug | 4 | 523 | 100.0 |
| 9-Aug | 0 | 523 | 100.0 |
| 10-Aug | 0 | 523 | 100.0 |
| 11-Aug | 0 | 523 | 100.0 |
| 12-Aug | 0 | 523 | 100.0 |
| 13-Aug | 0 | 523 | 100.0 |
| 14-Aug | 0 | 523 | 100.0 |
| 15-Aug | 0 | 523 | 100.0 |
| 16-Aug | 0 | 523 | 100.0 |
| 17-Aug | 0 | 523 | 100.0 |
| 18-Aug | 0 | 523 | 100.0 |
| 19-Aug | 0 | 523 | 100.0 |
| 20-Aug | 0 | 523 | 100.0 |
| 21-Aug | 0 | 523 | 100.0 |
| 22-Aug | 0 | 523 | 100.0 |
| 23-Aug | 0 | 523 | 100.0 |
| 24-Aug | 0 | 523 | 100.0 |
| 25-Aug | 0 | 523 | 100.0 |
| 26-Aug | 0 | 523 | 100.0 |
| 27-Aug | 0 | 523 | 100.0 |
| 28-Aug | 0 | 523 | 100.0 |
| 29-Aug | 0 | 523 | 100.0 |
| 30-Aug | 0 | 523 | 100.0 |
| 31-Aug | 0 | 523 | 100.0 |
| 1-Sep | 0 | 523 | 100.0 |
| 2-Sep | weir remove |  |  |
| Total | 523 |  |  |
| Helicopter survesy count 935--Sep 19 <br> Expanded estimate 2,899 |  |  |  |

Appendix C. 14. Daily counts of adult sockeye salmon passing through the Kuthai Lake weir, 2011.

| Date |  | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  | Count | Count | Percent |
| 4-Jul | weir installed |  |  |
| 5-Jul | 0 | 0 | 0.0 |
| 6-Jul | 0 | 0 | 0.0 |
| 7-Jul | 0 | 0 | 0.0 |
| 8-Jul | 15 | 15 | 1.8 |
| 9-Jul | 5 | 20 | 2.5 |
| 10-Jul | 0 | 20 | 2.5 |
| 11-Jul | 10 | 30 | 3.7 |
| 12-Jul | 0 | 30 | 3.7 |
| 13-Jul | 4 | 34 | 4.2 |
| 14-Jul | 6 | 40 | 4.9 |
| 15-Jul | 15 | 55 | 6.8 |
| 16-Jul | 0 | 55 | 6.8 |
| 17-Jul | 0 | 55 | 6.8 |
| 18-Jul | 18 | 73 | 9.0 |
| 19-Jul | 0 | 73 | 9.0 |
| 20-Jul | 158 | 231 | 28.5 |
| 21-Jul | 170 | 401 | 49.4 |
| 22-Jul | 75 | 476 | 58.7 |
| 23-Jul | 0 | 476 | 58.7 |
| 24-Jul | 0 | 476 | 58.7 |
| 25-Jul | 0 | 476 | 58.7 |
| 26-Jul | 0 | 476 | 58.7 |
| 27-Jul | 0 | 476 | 58.7 |
| 28-Jul | 0 | 476 | 58.7 |
| 29-Jul | 40 | 516 | 63.6 |
| 30-Jul | 30 | 546 | 67.3 |
| 31-Jul | 20 | 566 | 69.8 |
| 1-Aug | 0 | 566 | 69.8 |
| 2-Aug | 20 | 586 | 72.3 |
| 3-Aug | 0 | 586 | 72.3 |
| 4-Aug | 0 | 586 | 72.3 |
| 5-Aug | 0 | 586 | 72.3 |
| 6-Aug | 0 | 586 | 72.3 |
| 7-Aug | 0 | 586 | 72.3 |
| 8-Aug | 10 | 596 | 73.5 |
| 9-Aug | 26 | 622 | 76.7 |
| 10-Aug | 0 | 622 | 76.7 |
| 11-Aug | 0 | 622 | 76.7 |
| 12-Aug | 0 | 622 | 76.7 |
| 13-Aug | 0 | 622 | 76.7 |
| 14-Aug | 0 | 622 | 76.7 |
| 15-Aug | 0 | 622 | 76.7 |
| 16-Aug | 0 | 622 | 76.7 |
| 17-Aug | 0 | 622 | 76.7 |
| 18-Aug | 43 | 665 | 82.0 |
| 19-Aug | 0 | 665 | 82.0 |
| 20-Aug | 20 | 685 | 84.5 |
| 21-Aug | 75 | 760 | 93.7 |
| 22-Aug | 33 | 793 | 97.8 |
| 23-Aug | 0 | 793 | 97.8 |
| 24-Aug | 0 | 793 | 97.8 |
| 25-Aug | 0 | 793 | 97.8 |
| 26-Aug | 0 | 793 | 97.8 |
| 27-Aug | 0 | 793 | 97.8 |
| 28-Aug | 18 | 811 | 100.0 |
| 29-Aug | 0 | 811 | 100.0 |
| 30-Aug | 0 | 811 | 100.0 |
| 31-Aug | 0 | 811 | 100.0 |
| Total count |  | 811 |  |
| Harvest above weir |  | 0 |  |
| Escapement |  | 811 |  |

Appendix C. 15. Daily counts of large Chinook salmon carcasses at the Nakina River weir, 2011.

| Date | Count (all sizes) |  |  |  | Cumulative Count |  | Size (sex combined) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Female |  | Male Unknown | Combined | Count | Percent | Large | nonlarge | unknown |
| 31-Jul | 1 | 0 | 0 | 1 | 1 | 0.1 | 1 | 0 | 0 |
| 1-Aug | 0 | 1 | 0 | 1 | 2 | 0.2 | 1 | 0 | 0 |
| 2-Aug | 0 | 1 | 0 | 1 | 3 | 0.3 | 0 | 1 | 0 |
| 3-Aug | 0 | 1 | 0 | 1 | 4 | 0.4 | 1 | 0 | 0 |
| 4-Aug | 3 | 0 | 0 | 3 | 7 | 0.7 | 3 | 0 | 0 |
| 5-Aug | 0 | 2 | 0 | 2 | 9 | 0.9 | 2 | 0 | 0 |
| 6-Aug | 2 | 10 | 4 | 16 | 25 | 2.5 | 14 | 2 | 0 |
| 7-Aug | 4 | 10 | 1 | 15 | 40 | 3.9 | 11 | 4 | 0 |
| 8-Aug | 5 | 12 | 0 | 17 | 57 | 5.6 | 10 | 7 | 0 |
| 9-Aug | 1 | 23 | 1 | 25 | 82 | 8.0 | 14 | 11 | 0 |
| 10-Aug | 8 | 36 | 0 | 44 | 126 | 12.4 | 22 | 22 | 0 |
| 11-Aug | 17 | 62 | 1 | 80 | 206 | 20.2 | 46 | 34 | 0 |
| 12-Aug | 7 | 58 | 2 | 67 | 273 | 26.8 | 28 | 39 | 0 |
| 13-Aug | 14 | 89 | 0 | 103 | 376 | 36.9 | 39 | 64 | 0 |
| 14-Aug | 20 | 84 | 1 | 105 | 481 | 47.2 | 51 | 54 | 0 |
| 15-Aug | 20 | 87 | 0 | 107 | 588 | 57.6 | 42 | 65 | 0 |
| 16-Aug | 24 | 112 | 0 | 136 | 724 | 71.0 | 45 | 91 | 0 |
| 17-Aug | 27 | 127 | 0 | 154 | 878 | 86.1 | 47 | 107 | 0 |
| 18-Aug | 10 | 71 | 0 | 81 | 959 | 94.0 | 19 | 62 | 0 |
| 19-Aug | 2 | 39 | 0 | 41 | 1,000 | 98.0 | 6 | 35 | 0 |
| 20-Aug | 3 | 10 | 0 | 13 | 1,013 | 99.3 | 7 | 6 | 0 |
| 21-Aug | 3 | 4 | 0 | 7 | 1,020 | 100.0 | 4 | 3 | 0 |
| Total | 171 | 839 | 10 | 1,020 |  |  | 413 | 607 | 0 |

Appendix D. 1. All historic harvest and effort of salmon in the D111 gillnet fishery, 1960-2011.

| Year | Chinook | Sockeye | Coho | Pink | Chum | Boat Day | sDays open |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1960 | 8,810 | 42,819 | 22,374 | 33,155 | 41,852 |  | 60 |
| 1961 | 7,434 | 45,981 | 15,486 | 41,455 | 24,433 |  | 62 |
| 1962 | 5,931 | 36,745 | 15,661 | 17,280 | 20,635 |  | 52 |
| 1963 | 2,652 | 24,119 | 10,855 | 21,692 | 20,114 |  | 54 |
| 1964 | 2,509 | 34,140 | 29,315 | 26,593 | 12,853 |  | 56 |
| 1965 | 4,170 | 27,569 | 32,667 | 2,768 | 11,533 |  | 63 |
| 1966 | 4,829 | 33,925 | 26,065 | 23,833 | 35,133 |  | 64 |
| 1967 | 5,417 | 17,735 | 40,391 | 12,372 | 22,834 |  | 53 |
| 1968 | 4,904 | 19,501 | 39,103 | 67,365 | 21,890 |  | 60 |
| 1969 | 6,986 | 41,222 | 10,802 | 74,178 | 15,046 | 1,518 | 42 |
| 1970 | 3,357 | 50,862 | 44,569 | 196,237 | 110,621 | 2,688 | 53 |
| 1971 | 6,945 | 66,261 | 41,588 | 31,296 | 90,964 | 3,053 | 55 |
| 1972 | 10,949 | 80,911 | 49,609 | 144,237 | 148,432 | 3,103 | 51 |
| 1973 | 9,799 | 85,402 | 35,453 | 58,186 | 109,245 | 3,286 | 41 |
| 1974 | 2,908 | 38,726 | 38,667 | 57,820 | 86,692 | 2,315 | 30 |
| 1975 | 2,182 | 32,550 | 1,185 | 9,567 | 2,678 | 1,084 | 16 |
| 1976 | 1,757 | 62,174 | 41,664 | 14,977 | 81,972 | 1,914 | 25 |
| 1977 | 1,068 | 72,030 | 54,929 | 88,904 | 60,964 | 2,258 | 27 |
| 1978 | 1,926 | 55,398 | 31,944 | 51,385 | 36,254 | 2,174 | 26 |
| 1979 | 3,701 | 122,148 | 16,194 | 152,836 | 61,194 | 2,269 | 29 |
| 1979 | 2,251 | 123,451 | 41,677 | 296,622 | 192,793 | 4,123 | 31 |
| 1981 | 1,721 | 49,942 | 26,711 | 254,856 | 76,438 | 2,687 | 30 |
| 1982 | 3,014 | 83,722 | 29,073 | 109,270 | 37,584 | 2,433 | 36 |
| 1983 | 888 | 31,821 | 21,455 | 66,239 | 15,264 | 1,274 | 33 |
| 1984 | 1,773 | 77,233 | 33,836 | 145,971 | 86,764 | 2,757 | 53 |
| 1985 | 2,632 | 88,093 | 55,518 | 311,305 | 106,900 | 3,264 | 48 |
| 1986 | 2,584 | 73,061 | 30,512 | 16,568 | 58,792 | 2,129 | 33 |
| 1987 | 2,076 | 75,212 | 35,219 | 363,439 | 121,660 | 2,514 | 35 |
| 1988 | 1,777 | 38,901 | 44,818 | 157,732 | 140,038 | 2,135 | 32 |
| 1989 | 1,811 | 74,019 | 51,812 | 180,639 | 36,979 | 2,333 | 41 |
| 1990 | 3,480 | 126,884 | 67,530 | 153,126 | 145,799 | 3,188 | 38 |
| 1991 | 3,214 | 109,471 | 126,576 | 74,170 | 160,422 | 4,145 | 57 |
| 1992 | 2,341 | 135,411 | 172,662 | 314,445 |  | 4,550 | 50 |
| 1993 | 7,159 | 171,427 | 65,539 | 29,216 | 167,902 | 3,827 | 43 |
| 1994 | 5,047 | 106,318 | 188,682 | 410,467 | 214,243 | 5,078 | 66 |
| 1995 | 4,660 | 104,064 | 83,609 | 41,513 | 350,033 | 4,034 | 49 |
| 1996 | 2,659 | 201,853 | 33,650 | 12,675 | 365,813 | 3,229 | 46 |
| 1997 | 2,805 | 143,009 | 32,364 | 51,483 | 176,913 | 2,107 | 33 |
| 1998 | 794 | 101,702 | 28,713 | 168,738 | 296,121 | 3,070 | 48 |
| 1999 | 1,961 | 93,368 | 17,309 | 59,368 | 429,405 | 2,841 | 59 |
| 2000 | 2,019 | 290,165 | 7,828 | 58,699 | 669,998 | 2,919 | 40 |
| 2001 | 1,698 | 293,657 | 22,646 | 123,026 | 241,370 | 4,731 | 54 |
| 2002 | 1,850 | 240,439 | 40,464 | 78,624 | 231,936 | 4,095 | 62 |
| 2003 | 1,467 | 313,725 | 24,338 | 114,184 | 170,901 | 3,977 | 78 |
| 2004 | 2,345 | 428,745 | 59,868 | 154,775 | 131,856 | 3,342 | 63 |
| 2005 | 23,301 | 222,156 | 21,289 | 182,778 | 97,588 | 3,427 | 68 |
| 2006 | 11,261 | 313,982 | 60,145 | 192,140 | 383,000 | 3,517 | 89 |
| 2007 | 1,452 | 184,810 | 22,394 | 100,375 | 590,169 | 3,505 | 64 |
| 2008 | 2,193 | 116,693 | 37,349 | 90,162 | 774,095 | 3,116 | 49 |
| 2009 | 6,800 | 62,070 | 36,615 | 56,801 | 918,350 | 3,438 | 62 |
| 2010 | 1,685 | 76,607 | 62,241 | 132,785 | 488,898 | 2,831 | 54 |
| 2011 | 2,510 | 163,896 | 28,574 | 344,766 | 667,929 | 3,480 | 46 |
| averag |  |  |  |  |  |  |  |
| 60-10 | 4,097 | 108,671 | 42,764 | 110,359 | 177,867 | 3,007 | 48 |
| 01-10 | 5,405 | 225,288 | 38,735 | 122,565 | 402,816 | 3,598 | 64 |

Appendix D. 2. Annual harvest estimates of Taku River large Chinook salmon in the D111 fisheries, 2005-2011.

| Year | PU | Sport | Gillnet | Troll | Total large Taku |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 2005 | 32 | 2,476 | 16,490 | 21 | 19,019 |
| 2006 | 18 | 2,048 | 9,257 | 11 | 11,334 |
| 2007 | 22 | 1,034 | 303 | 0 | 1,359 |
| 2008 | 46 | 632 | 445 | 0 | 1,123 |
| 2009 | 25 | 673 | 4,609 | 2 | 5,309 |
| 2010 | 36 | 984 | 526 | 0 | 1,546 |
| 2011 | 48 | 573 | 518 | 0 | 1,139 |

Appendix D. 3. Annual Chinook salmon harvest in the Canadian fisheries in the Taku River, 1979-2011.

| Year | Commerical |  | Aboriginal |  | Test |  |  | $\begin{gathered} \hline \text { Rec } \\ \text { Large } \\ \hline \end{gathered}$ | Total All Large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | released large |  |  |
| 1979 | 97 |  |  |  |  |  |  | 300 | 397 |
| 1980 | 225 |  | 85 |  |  |  |  | 300 | 610 |
| 1981 | 159 |  |  |  |  |  |  | 300 | 459 |
| 1982 | 54 |  |  |  |  |  |  | 300 | 354 |
| 1983 | 156 | 400 | 9 |  |  |  |  | 300 | 465 |
| 1984 | 294 | 221 | 0 |  |  |  |  | 300 | 594 |
| 1985 | 326 | 24 | 4 |  |  |  |  | 300 | 630 |
| 1986 | 275 | 77 | 10 |  |  |  |  | 300 | 585 |
| 1987 | 127 | 106 | 0 |  |  |  |  | 300 | 427 |
| 1988 | 555 | 186 | 27 |  | 72 |  |  | 300 | 954 |
| 1989 | 895 | 139 | 6 |  | 31 |  |  | 300 | 1,232 |
| 1990 | 1,258 | 128 | 0 |  | 48 |  |  | 300 | 1,606 |
| 1991 | 1,177 | 432 | 0 |  | 0 |  |  | 300 | 1,477 |
| 1992 | 1,445 | 147 | 121 |  | 0 |  |  | 300 | 1,866 |
| 1993 | 1,619 | 171 | 25 |  | 0 |  |  | 300 | 1,944 |
| 1994 | 2,065 | 235 | 119 |  | was no | Canadian cond | o test fishery | 300 | 2,484 |
| 1995 | 1,577 | 298 | 70 |  | was no | Canadian cold | ho test fishery | 105 | 1,752 |
| 1996 | 3,331 | 144 | 63 |  | was no | Canadian cold | o test fishery | 105 | 3,499 |
| 1997 | 2,731 | 84 | 103 |  |  |  |  | 105 | 2,939 |
| 1998 | 1,107 | 227 | 60 |  | was no | Canadian | oo test fishery | 105 | 1,272 |
| 1999 | 908 | 257 | 50 |  | 577 | 2 | 181 | 105 | 1,640 |
| 2000 | 1,576 | 87 | 50 |  | 1,312 | 87 | 439 | 105 | 3,043 |
| 2001 | 1,458 | 118 | 125 |  | 1,175 | 229 | 871 | 105 | 2,863 |
| 2002 | 1,561 | 291 | 37 |  | 1,311 | 355 | 1,132 | 105 | 3,014 |
| 2003 | 1,894 | 547 | 277 | 237 | 1,403 | 397 |  | 105 | 3,679 |
| 2004 | 2,082 | 335 | 277 | 116 | 1,489 | 294 |  | 105 | 3,953 |
| 2005 | 7,399 | 821 | 212 |  | 0 | 0 |  | 105 | 7,716 |
| 2006 | 7,377 | 207 | 222 |  | 630 | 9 |  | 105 | 8,334 |
| 2007 | 874 | 426 | 167 | 16 | 1,396 | 302 |  | 105 | 2,542 |
| 2008 | 913 | 330 | 1 |  | 1,399 | 139 |  | 105 | 2,418 |
| 2009 | 6,759 | 1,137 | 172 | 0 | 0 | 0 |  | 105 | 7,036 |
| 2010 | 5,238 | 700 | 126 | 0 | 0 | 0 |  | 105 | 5,469 |
| 2011 | 2,342 | 514 | 150 | 21 | 680 | 134 |  | 105 | 3,277 |
| Averages |  |  |  |  |  |  |  |  |  |
| 85-10 | 2,174 | 294 | 89 | 74 |  |  |  | 180 | 2,861 |
| 01-10 | 3,556 | 491 | 162 | 74 | 880 | 173 |  | 105 | 4,702 |


| Appendix D. 4. Taku River large Chinook salmon run size, 1979-2011. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Run estimate does not include spawning escapements below the U.S./Canada border. US harvest estimates after 2004 are based on GSI (gillnet and sport fish) and CWT (troll) and harvest in the fisheries between SW 18-28. |  |  |  |  |  |  |  |  |
|  | Above Border M-R |  | CI |  | Above Border |  |  |  |
|  | Spawning |  |  |  | Canadian | Run | U.S. | Terminal |
| Year | Escapement | Method | Lower | Upper | Harvest ${ }^{\text {a }}$ | Estimate | Harvest | Run |
| 1989 | 40,329 | Mark-recapture | 29,263 | 51,395 | 1,232 | 41,561 |  |  |
| 1990 | 52,142 | Mark-recapture | 33,863 | 70,421 | 1,606 | 53,748 |  |  |
| 1991 | 51,645 | Aerial expansion | 17,072 | 86,218 | 1,477 | 53,122 |  |  |
| 1992 | 55,889 | Aerial expansion | 18,475 | 93,303 | 1,866 | 57,755 |  |  |
| 1993 | 66,125 | Aerial expansion | 21,858 | 110,392 | 1,944 | 68,069 |  |  |
| 1994 | 48,368 | Aerial expansion | 15,989 | 80,747 | 2,484 | 50,852 |  |  |
| 1995 | 33,805 | Medium expansion | 23,887 | 43,723 | 1,752 | 35,557 | 6,263 | 41,820 |
| 1996 | 79,019 | Mark-recapture | 61,285 | 96,753 | 3,499 | 82,518 | 6,280 | 88,798 |
| 1997 | 114,938 | Mark-recapture | 79,878 | 149,998 | 2,939 | 117,877 | 8,325 | 126,202 |
| 1998 | 31,039 | Aerial expansion | 10,255 | 51,823 | 1,272 | 32,311 | 2,605 | 34,916 |
| 1999 | 16,786 | Mark-recapture | 10,571 | 23,001 | 1,640 | 18,426 | 4,019 | 22,445 |
| 2000 | 34,997 | Mark-recapture | 24,407 | 45,587 | 3,043 | 38,040 | 3,472 | 41,512 |
| 2001 | 46,644 | Mark-recapture | 33,383 | 59,905 | 2,863 | 49,507 | 3,883 | 53,390 |
| 2002 | 55,044 | Mark-recapture | 33,313 | 76,775 | 3,014 | 58,058 | 3,282 | 61,340 |
| 2003 | 36,435 | Mark-recapture | 23,293 | 49,577 | 3,679 | 40,114 | 2,768 | 42,882 |
| 2004 | 75,032 | Mark-recapture | 54,883 | 95,181 | 3,953 | 78,985 | 3,696 | 82,681 |
| 2005 | 38,599 | Mark-recapture | 28,980 | 48,219 | 7,716 | 46,315 | 19,019 | 65,334 |
| 2006 | 42,191 | Mark-recapture | 31,343 | 53,040 | 8,334 | 50,525 | 11,334 | 61,859 |
| 2007 | 14,749 | Mark-recapture | 8,326 | 21,172 | 2,542 | 17,291 | 1,359 | 18,650 |
| 2008 | 26,645 | Mark-recapture | 20,744 | 32,545 | 2,418 | 29,063 | 1,123 | 30,186 |
| 2009 | 22,761 | Mark-recapture | 17,134 | 28,388 | 7,036 | 29,797 | 5,309 | 35,106 |
| 2010 | 28,769 | Mark-recapture | 23,840 | 33,698 | 5,469 | 34,238 | 1,546 | 35,784 |
| 2011 | 27,523 | Medium expansion | 19,411 | 35,635 | 3,277 | 30,800 | 1,139 | 31,939 |
| Averages |  |  |  |  |  |  |  |  |
| 95-10 | 43,591 |  |  |  | 3,823 | 47,414 | 5,268 | 52,682 |
| 01-10 | 38,687 |  |  |  | 4,702 | 43,389 | 5,332 | 48,721 |

${ }^{\text {a }}$ In years when sample size data is available (1999-present in the commercial and test fisheries, and 2003-2004 in the Aboriginal fishery) it was used to determine the number of large fish in the Canadian harvest. In years when sample data is not available, the average \% large in the commercial fishery from 1999-2004 (75\%) was applied to all harvest except the recreational harvest which is assumed to be $100 \%$ large.

Appendix D. 5. Aerial survey index escapement counts of large (3-ocean and older)
Taku River Chinook salmon, 1975-2011.

| Year | Kowatua | Tatsatua | Dudidontu | Tseta | Nakina | Nahlin | Total Index Count without Tseta |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1975 |  |  | 15 |  | 1,800 | 274 | 2,089 |
| 1976 | 341 | 620 | 40 |  | 3,000 | 725 | 4,726 |
| 1977 | 580 | 573 | 18 |  | 3,850 | 650 | 5,671 |
| 1978 | 490 | 550 |  | 21 | 1,620 | 624 | 3,284 |
| 1979 | 430 | 750 | 9 |  | 2,110 | 857 | 4,156 |
| 1980 | 450 | 905 | 158 |  | 4,500 | 1,531 | 7,544 |
| 1981 | 560 | 839 | 74 | 258 | 5,110 | 2,945 | 9,528 |
| 1982 | 289 | 387 | 130 | 228 | 2,533 | 1,246 | 4,585 |
| 1983 | 171 | 236 | 117 | 179 | 968 | 391 | 1,883 |
| $1984{ }^{\text {ab }}$ | 279 | 616 |  | 176 | 1,887 | 951 | 3,733 |
| 1985 | 699 | 848 | 475 | 303 | 2,647 | 2,236 | 6,905 |
| 1986 | 548 | 886 | 413 | 193 | 3,868 | 1,612 | 7,327 |
| 1987 | 570 | 678 | 287 | 180 | 2,906 | 1,122 | 5,563 |
| 1988 | 1,010 | 1,272 | 243 | 66 | 4,500 | 1,535 | 8,560 |
| 1989 | 601 | 1,228 | 204 | 494 | 5,141 | 1,812 | 8,986 |
| 1990 | 614 | 1,068 | 820 | 172 | 7,917 | 1,658 | 12,077 |
| 1991 | 570 | 1,164 | 804 | 224 | 5,610 | 1,781 | 9,929 |
| 1992 | 782 | 1,624 | 768 | 313 | 5,750 | 1,821 | 10,745 |
| 1993 | 1,584 | 1,491 | 1,020 | 491 | 6,490 | 2,128 | 12,713 |
| 1994 | 410 | 1,106 | 573 | 614 | 4,792 | 2,418 | 9,299 |
| 1995 | 550 | 678 | 731 | 786 | 3,943 | 2,069 | 7,971 |
| 1996 | 1,620 | 2,011 | 1,810 | 1,201 | 7,720 | 5,415 | 18,576 |
| 1997 | 1,360 | 1,148 | 943 | 648 | 6,095 | 3,655 | 13,201 |
| 1998 | 473 | 675 | 807 | 360 | 2,720 | 1,294 | 5,969 |
| 1999 | 561 | 431 | 527 | 221 | 1,900 | 532 | 3,951 |
| 2000 | 702 | 953 | 482 | 160 | 2,907 | 728 | 5,772 |
| 2001 | 1,050 | 1,024 | 479 | 202 | 1,552 | 935 | 5,040 |
| 2002 | 945 | 1,145 | 834 | 192 | 4,066 | 1,099 | 8,089 |
| 2003 | 850 | 1,000 | 644 | 436 | 2,126 | 861 | 5,481 |
| 2004 | 828 | 1,396 | 1,036 | 906 | 4,091 | 1,787 | 9,138 |
| 2005 | 833 | 1,146 | 318 | 215 | 1,213 | 471 | 3,981 |
| 2006 | 1,180 | 908 | 395 | 199 | 1,900 | 955 | 5,338 |
| 2007 | 262 | 390 | 4 | 199 | NA | 277 | 933 |
| 2008 | 690 | 1,083 | 480 | 497 | 1,437 | 1,121 | 4,811 |
| 2009 | 408 | 633 | 272 | 145 | 1,698 | 1,033 | 4,044 |
| 2010 | 716 | 821 | 561 | 128 | 1,730 | 1,018 | 4,846 |
| 2011 | 377 | 917 | 301 | 128 | 1,380 | 808 | 3,783 |
| Averages |  |  |  |  |  |  |  |
| 85-10 | 766 | 1,016 | 613 | 360 | 3,716 | 1,568 | 7,518 |
| 01-10 | 776 | 955 | 502 | 312 | 2,201 | 956 | 5,170 |

[^3]Appendix D. 6. Annual sockeye salmon harvest in the Alaskan District 111 fisheries, includes estimates of Taku wild and enhanced fish in the gillnet, seine, and personal use fisheries, 1967-2011.

| Personal Use wild/enhanced estimates are based on the Canadian lower river commerical fishery. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D111 gillnet harvest |  |  |  | PU Taku harvest |  |  |
|  | All D111 | D11 without snet for stock comp |  |  | All Taku | Wild Taku | EnhancedTaku |
|  |  | harvest | Wild Taku | EnhancedTaku |  |  |  |
| 1967 | 17,735 | 15,282 |  |  | 103 |  |  |
| 1968 | 19,501 | 17,721 |  |  | 41 |  |  |
| 1969 | 41,169 | 40,053 |  |  | 122 |  |  |
| 1970 | 50,922 | 49,951 |  |  | 304 |  |  |
| 1971 | 66,181 | 62,593 |  |  | 512 |  |  |
| 1972 | 80,404 | 76,478 |  |  | 554 |  |  |
| 1973 | 85,317 | 81,149 |  |  | 1,227 |  |  |
| 1974 | 38,670 | 33,934 |  |  | 1,431 |  |  |
| 1975 | 32,513 | 32,271 |  |  | 170 |  |  |
| 1976 | 61,749 | 54,456 |  |  | 351 |  |  |
| 1977 | 70,097 | 66,844 |  |  |  |  |  |
| 1978 | 55,398 | 54,305 |  |  |  |  |  |
| 1979 | 122,148 | 115,192 |  |  |  |  |  |
| 1980 | 123,451 | 116,861 |  |  |  |  |  |
| 1981 | 49,942 | 48,912 |  |  |  |  |  |
| 1982 | 83,625 | 80,161 |  |  |  |  |  |
| 1983 | 31,821 | 31,073 |  |  |  |  |  |
| 1984 | 77,233 | 76,015 |  |  |  |  |  |
| 1985 | 88,077 | 87,550 |  |  | 920 |  |  |
| 1986 | 73,061 | 72,713 |  |  |  |  |  |
| 1987 | 75,212 | 76,377 |  |  |  |  |  |
| 1988 | 38,923 | 38,885 |  |  |  |  |  |
| 1989 | 74,019 | 73,991 |  |  | 562 |  |  |
| 1990 | 126,884 | 126,876 |  |  | 793 |  |  |
| 1991 | 109,877 | 111,002 |  |  | 800 |  |  |
| 1992 | 135,411 | 132,669 |  |  | 1,217 |  |  |
| 1993 | 171,556 | 171,373 |  |  | 1,201 |  |  |
| 1994 | 105,861 | 105,758 |  |  | 1,111 |  |  |
| 1995 | 103,377 | 103,361 | 86,929 | 4,065 | 990 | 950 | 40 |
| 1996 | 199,014 | 198,303 | 181,776 | 4,762 | 1,189 | 1,168 | 21 |
| 1997 | 94,745 | 94,486 | 76,043 | 2,031 | 1,053 | 1,024 | 29 |
| 1998 | 69,677 | 68,462 | 47,824 | 806 | 1,202 | 1,165 | 37 |
| 1999 | 79,425 | 77,515 | 61,205 | 599 | 1,254 | 1,236 | 18 |
| 2000 | 168,272 | 166,248 | 128,567 | 1,561 | 1,134 | 1,116 | 18 |
| 2001 | 290,450 | 284,786 | 194,091 | 8,880 | 1,462 | 1,405 | 57 |
| 2002 | 178,488 | 176,042 | 114,461 | 651 | 1,289 | 1,287 | 2 |
| 2003 | 205,433 | 177,903 | 133,509 | 767 | 1,218 | 1,208 | 10 |
| 2004 | 241,254 | 177,830 | 75,186 | 676 | 1,150 | 1,135 | 15 |
| 2005 | 87,254 | 71,472 | 44,361 | 579 | 1,150 | 1,136 | 14 |
| 2006 | 134,781 | 99,622 | 62,814 | 2,210 | 804 | 773 | 31 |
| 2007 | 112,241 | 107,129 | 60,879 | 3,684 | 566 | 508 | 58 |
| 2008 | 116,693 | 116,693 | 63,002 | 11,680 | 1,010 | 903 | 107 |
| 2009 | 62,070 | 62,070 | 35,121 | 240 | 871 | 863 | 8 |
| 2010 | 61,947 | 61,947 | 44,837 | 910 | 1,020 | 987 | 33 |
| 2011 | 163,896 | 100,049 | 65,089 | 5,604 | 1,111 | 1,024 | 87 |
| Averag |  |  |  |  |  |  |  |
| 95-10 | 137,820 | 127,742 | 88,163 | 2,756 | 1,085 | 1,054 | 31 |
| 01-10 | 149,061 | 133,549 | 82,826 | 3,028 | 1,054 | 1,020 | 34 |

Appendix D. 7. Stock proportions and harvest of sockeye salmon in the traditional
Alaska District 111 commercial drift gillnet fishery, 1983-2011.

| Week | King |  |  | Little Trapper |  | Tatsamenie |  | Taku Wild | Total Taku | Snettisham Total Wild |  |  | $\begin{gathered} \hline \text { U.S. } \\ \text { Enhanced } \end{gathered}$ | $\begin{gathered} \text { Stikine } \\ \text { Enhanced } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kuthai | Salmon | Mainstem | Wild | Enhanced | Wild | Enhanced |  |  | Crescent | Speel | Snett. |  |  |
| 1983 |  |  |  |  |  |  |  | 0.755 | 0.755 |  |  | 0.245 |  |  |
| 1984 |  |  |  |  |  |  |  | 0.758 | 0.758 |  |  | 0.242 |  |  |
| 1985 |  |  |  |  |  |  |  | 0.838 | 0.838 |  |  | 0.162 |  |  |
| 1986 | 0.061 |  | 0.303 | 0.266 |  | 0.204 |  | 0.834 | 0.834 | 0.090 | 0.076 | 0.166 |  |  |
| 1987 | 0.078 |  | 0.376 | 0.234 |  | 0.031 |  | 0.720 | 0.720 | 0.157 | 0.123 | 0.280 |  |  |
| 1988 | 0.118 |  | 0.305 | 0.158 |  | 0.082 |  | 0.663 | 0.663 | 0.266 | 0.071 | 0.337 |  |  |
| $1989{ }^{\text {a }}$ | 0.077 |  |  |  |  | 0.156 |  | 0.849 | 0.849 | 0.051 | 0.100 | 0.152 |  |  |
| 1990 | 0.036 |  | 0.336 | 0.197 |  | 0.286 |  | 0.855 | 0.855 | 0.112 | 0.033 | 0.145 |  |  |
| 1991 | 0.039 |  | 0.373 | 0.297 |  | 0.232 |  | 0.941 | 0.941 | 0.059 | 0.000 | 0.059 |  |  |
| 1992 | 0.048 |  | 0.445 | 0.220 |  | 0.191 |  | 0.904 | 0.904 | 0.036 | 0.060 | 0.096 |  |  |
| 1993 | 0.062 |  | 0.308 | 0.328 |  | 0.123 |  | 0.822 | 0.822 | 0.069 | 0.109 | 0.178 |  |  |
| 1994 | 0.110 |  | 0.361 | 0.356 |  | 0.091 |  | 0.917 | 0.917 | 0.036 | 0.022 | 0.058 | 0.025 |  |
| 1995 | 0.046 |  | 0.428 | 0.214 | 0.010 | 0.153 | 0.029 | 0.841 | 0.880 | 0.018 | 0.075 | 0.093 | 0.026 |  |
| 1996 | 0.069 |  | 0.499 | 0.117 | 0.010 | 0.232 | 0.014 | 0.917 | 0.941 | 0.013 | 0.032 | 0.045 | 0.014 |  |
| 1997 | 0.067 |  | 0.282 | 0.170 | 0.011 | 0.286 | 0.011 | 0.805 | 0.826 | 0.027 | 0.026 | 0.053 | 0.120 |  |
| 1998 | 0.087 |  | 0.209 | 0.158 | 0.008 | 0.245 | 0.004 | 0.699 | 0.710 | 0.026 | 0.007 | 0.033 | 0.257 |  |
| 1999 | 0.176 |  | 0.235 | 0.259 | 0.003 | 0.119 | 0.005 | 0.790 | 0.797 | 0.049 | 0.023 | 0.072 | 0.131 |  |
| 2000 | 0.139 |  | 0.211 | 0.273 | 0.002 | 0.151 | 0.008 | 0.773 | 0.783 | 0.004 | 0.054 | 0.058 | 0.160 |  |
| 2001 | 0.076 |  | 0.268 | 0.130 | 0.000 | 0.207 | 0.031 | 0.682 | 0.713 | 0.014 | 0.032 | 0.046 | 0.241 |  |
| 2002 | 0.098 |  | 0.173 | 0.254 | 0.000 | 0.126 | 0.004 | 0.650 | 0.654 | 0.014 | 0.032 | 0.047 | 0.299 |  |
| 2003 | 0.087 | 0.016 | 0.398 | 0.225 | 0.000 | 0.033 | 0.004 | 0.750 | 0.755 | 0.009 | 0.047 | 0.056 | 0.181 |  |
| 2004 | 0.064 | 0.043 | 0.233 | 0.041 | 0.000 | 0.042 | 0.004 | 0.423 | 0.427 | 0.011 | 0.040 | 0.051 | 0.522 |  |
| 2005 | 0.021 | 0.024 | 0.456 | 0.080 | 0.000 | 0.040 | 0.008 | 0.621 | 0.629 | 0.048 | 0.097 | 0.145 | 0.226 |  |
| 2006 | 0.019 | 0.025 | 0.361 | 0.067 | 0.000 | 0.159 | 0.022 | 0.631 | 0.653 | 0.015 | 0.044 | 0.060 | 0.288 |  |
| 2007 | 0.066 | 0.000 | 0.355 | 0.058 | 0.000 | 0.089 | 0.034 | 0.568 | 0.603 | 0.083 | 0.023 | 0.106 | 0.291 |  |
| 2008 | 0.092 | 0.011 | 0.267 | 0.016 | 0.000 | 0.154 | 0.100 | 0.540 | 0.640 | 0.034 | 0.048 | 0.082 | 0.278 |  |
| 2009 | 0.026 | 0.000 | 0.343 | 0.087 | 0.000 | 0.109 | 0.004 | 0.566 | 0.570 | 0.051 | 0.088 | 0.140 | 0.288 | 0.002 |
| 2010 | 0.038 | 0.007 | 0.523 | 0.000 | 0.002 | 0.155 | 0.012 | 0.724 | 0.738 | 0.031 | 0.120 | 0.151 | 0.109 | 0.001 |
| 2011 | 0.025 | 0.037 | 0.397 | 0.055 | 0.016 | 0.135 | 0.040 | 0.651 | 0.707 | 0.018 | 0.027 | 0.045 | 0.246 | 0.003 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-10 | 0.072 |  | 0.335 | 0.175 | 0.003 | 0.148 | 0.018 | 0.739 | 0.753 | 0.053 | 0.055 | 0.108 | 0.203 |  |
| 01-10 | 0.059 | 0.016 | 0.338 | 0.096 | 0.000 | 0.111 | 0.022 | 0.615 | 0.638 | 0.031 | 0.057 | 0.088 | 0.272 | 0.002 |
| 1983 |  |  |  |  |  |  |  | 23,460 | 23,460 |  |  | 7,613 |  |  |
| 1984 |  |  |  |  |  |  |  | 57,619 | 57,619 |  |  | 18,396 |  |  |
| 1985 |  |  |  |  |  |  |  | 73,367 | 73,367 |  |  | 14,183 |  |  |
| 1986 | 4,468 |  | 21,999 | 19,348 |  | 14,829 |  | 60,644 | 60,644 | 6,579 | 5,490 | 12,069 |  |  |
| 1987 | 5,984 |  | 28,724 | 17,867 |  | 2,388 |  | 54,963 | 54,963 | 11,997 | 9,417 | 21,414 |  |  |
| 1988 | 4,594 |  | 11,854 | 6,147 |  | 3,191 |  | 25,785 | 25,785 | 10,355 | 2,745 | 13,100 |  |  |
| $1989{ }^{\text {a }}$ | 5,694 |  |  |  |  | 11,532 |  | 62,804 | 62,804 | 3,788 | 7,422 | 11,210 |  |  |
| 1990 | 4,539 |  | 42,673 | 24,950 |  | 36,330 |  | 108,492 | 108,492 | 14,241 | 4,143 | 18,384 |  |  |
| 1991 | 4,339 |  | 41,376 | 33,020 |  | 25,736 |  | 104,471 | 104,471 | 6,531 | 0 | 6,531 |  |  |
| 1992 | 6,411 |  | 59,004 | 29,214 |  | 25,329 |  | 119,959 | 119,959 | 4,813 | 7,897 | 12,709 |  |  |
| 1993 | 10,662 |  | 52,820 | 56,290 |  | 21,116 |  | 140,888 | 140,888 | 11,864 | 18,621 | 30,485 |  |  |
| 1994 | 11,627 |  | 38,142 | 37,607 |  | 9,576 |  | 96,952 | 96,952 | 3,855 | 2,317 | 6,172 | 2,634 |  |
| 1995 | 4,787 |  | 44,271 | 22,106 | 1,017 | 15,765 | 3,049 | 86,929 | 90,994 | 1,901 | 7,740 | 9,641 | 2,727 |  |
| 1996 | 13,693 |  | 98,876 | 23,224 | 1,913 | 45,983 | 2,849 | 181,776 | 186,538 | 2,535 | 6,393 | 8,928 | 2,838 |  |
| 1997 | 6,328 |  | 26,621 | 16,061 | 1,028 | 27,033 | 1,003 | 76,043 | 78,074 | 2,551 | 2,503 | 5,054 | 11,358 |  |
| 1998 | 5,949 |  | 14,306 | 10,826 | 560 | 16,743 | 246 | 47,824 | 48,630 | 1,753 | 491 | 2,244 | 17,588 |  |
| 1999 | 13,679 |  | 18,231 | 20,101 | 241 | 9,194 | 358 | 61,205 | 61,804 | 3,786 | 1,770 | 5,556 | 10,155 |  |
| 2000 | 23,076 |  | 35,025 | 45,424 | 276 | 25,042 | 1,285 | 128,567 | 130,128 | 614 | 8,979 | 9,592 | 26,528 |  |
| 2001 | 21,612 |  | 76,418 | 37,124 | 0 | 58,937 | 8,880 | 194,091 | 202,971 | 4,017 | 9,149 | 13,166 | 68,649 |  |
| 2002 | 17,235 |  | 30,397 | 44,687 | 0 | 22,141 | 651 | 114,461 | 115,112 | 2,524 | 5,700 | 8,224 | 52,708 |  |
| 2003 | 15,462 | 2,829 | 70,801 | 39,989 | 0 | 5,876 | 767 | 133,509 | 134,276 | 1,622 | 8,361 | 9,983 | 32,196 |  |
| 2004 | 11,420 | 7,583 | 41,366 | 7,311 | 0 | 7,505 | 676 | 75,186 | 75,862 | 2,029 | 7,128 | 9,157 | 92,810 |  |
| 2005 | 1,495 | 1,715 | 32,591 | 5,699 | 0 | 2,860 | 579 | 44,361 | 44,940 | 3,418 | 6,953 | 10,371 | 16,161 |  |
| 2006 | 1,863 | 2,441 | 35,993 | 6,691 | 0 | 15,825 | 2,210 | 62,814 | 65,024 | 1,531 | 4,409 | 5,940 | 28,659 |  |
| 2007 | 7,087 | 0 | 38,084 | 6,224 | 0 | 9,484 | 3,684 | 60,879 | 64,563 | 8,878 | 2,475 | 11,353 | 31,213 |  |
| 2008 | 10,709 | 1,308 | 31,170 | 1,816 | 0 | 17,999 | 11,680 | 63,002 | 74,682 | 3,939 | 5,605 | 9,544 | 32,467 |  |
| 2009 | 1,636 | 0 | 21,275 | 5,414 | 0 | 6,796 | 240 | 35,121 | 35,361 | 3,182 | 5,492 | 8,674 | 17,888 | 148 |
| 2010 | 2,381 | 452 | 32,407 |  | 150 | 9,597 | 760 | 44,837 | 45,747 | 1,940 | 7,422 | 9,362 | 6,759 | 79 |
| 2011 | 2,538 | 3,714 | 39,743 | 5,548 | 1,557 | 13,548 | 4,047 | 65,089 | 70,693 | 1,752 | 2,721 | 4,473 | 24,595 | 288 |
| Average ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-10 | 8,669 |  | 39,351 | 22,484 |  | 17,872 |  | 87,422 | 89,187 | 4,810 | 5,945 | 10,755 | 26,667 |  |
| 01-10 | 9,090 | 2,041 | 41,050 | 17,217 | 15 | 15,702 | 3,013 | 82,826 | 85,854 | 3,308 | 6,269 | 9,577 | 37,951 |  |

Appendix D. 8. Proportion of wild Taku River sockeye salmon in the Alaskan District 111 commercial drift gillnet harvest by week, 1983-2011.


Appendix D. 9. Annual sockeye salmon harvest estimates of wild and enhanced fish in the Canadian fisheries in the Taku River, 1979-2011.

| Year | All harvest |  |  |  |  | Wild Taku |  |  | EnhancedTaku |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Commercial |  | Aborginal | Test | test released | Commercial | Aboriginal | Test | Commercial | Aboriginal | Test |
|  | All harvest | Taku |  |  |  |  |  |  |  |  |  |
| 1979 | 13,578 |  |  |  |  | 13,578 |  |  |  |  |  |
| 1980 | 22,602 |  | 150 |  |  | 22,602 | 150 |  |  |  |  |
| 1981 | 10,922 |  |  |  |  | 10,922 |  |  |  |  |  |
| 1982 | 3,144 |  |  |  |  | 3,144 |  |  |  |  |  |
| 1983 | 17,056 |  | 0 |  |  | 17,056 | 0 |  |  |  |  |
| 1984 | 27,242 |  | 50 |  |  | 27,242 | 50 |  |  |  |  |
| 1985 | 14,244 |  | 167 |  |  | 14,244 | 167 |  |  |  |  |
| 1986 | 14,739 |  | 200 |  |  | 14,739 | 200 |  |  |  |  |
| 1987 | 13,554 |  | 96 | 237 |  | 13,554 | 96 | 237 |  |  |  |
| 1988 | 12,014 |  | 245 | 708 |  | 12,014 | 245 | 708 |  |  |  |
| 1989 | 18,545 |  | 53 | 207 |  | 18,545 | 53 | 207 |  |  |  |
| 1990 | 21,100 |  | 89 | 285 |  | 21,100 | 89 | 285 |  |  |  |
| 1991 | 25,067 |  | 150 | 163 |  | 25,067 | 150 | 163 |  |  |  |
| 1992 | 29,472 |  | 352 | 38 |  | 29,472 | 352 | 38 |  |  |  |
| 1993 | 33,217 |  | 140 | 166 |  | 33,217 | 140 | 166 |  |  |  |
| 1994 | 28,762 |  | 239 |  |  | 28,762 | 239 |  |  |  |  |
| 1995 | 32,640 |  | 71 |  |  | 31,306 | 68 |  | 1,334 | 3 | 0 |
| 1996 | 41,665 |  | 360 |  |  | 40,933 | 354 |  | 732 | 6 | 0 |
| 1997 | 24,003 |  | 349 |  | 1 | 23,346 | 339 |  | 657 | 10 | 0 |
| 1998 | 19,038 |  | 239 |  |  | 18,449 | 232 |  | 589 | 7 | 0 |
| 1999 | 20,681 |  | 382 | 88 |  | 20,384 | 377 | 87 | 297 | 5 | 1 |
| 2000 | 28,009 |  | 140 | 319 |  | 27,573 | 138 | 314 | 436 | 2 | 5 |
| 2001 | 47,660 |  | 210 | 247 | 82 | 45,792 | 202 | 237 | 1,868 | 8 | 10 |
| 2002 | 31,053 |  | 155 | 518 | 161 | 31,004 | 155 | 517 | 49 | 0 | 1 |
| 2003 | 32,730 |  | 267 | 27 | 197 | 32,463 | 265 | 27 | 267 | 2 | 0 |
| 2004 | 20,148 |  | 120 | 91 |  | 19,882 | 118 | 90 | 266 | 2 | 1 |
| 2005 | 21,697 |  | 161 | 244 |  | 21,440 | 159 | 241 | 257 | 2 | 3 |
| 2006 | 21,099 |  | 85 | 262 |  | 20,294 | 82 | 252 | 805 | 3 | 10 |
| 2007 | 16,714 |  | 159 | 376 |  | 14,987 | 143 | 337 | 1,727 | 16 | 39 |
| 2008 | 19,284 |  | 215 | 10 | 32 | 17,242 | 192 | 9 | 2,042 | 23 | 1 |
| 2009 | 10,980 |  | 106 | 174 |  | 10,875 | 105 | 172 | 105 | 1 | 2 |
| 2010 | 20,211 | 20,180 | 184 | 297 |  | 19,555 | 178 | 287 | 625 | 6 | 10 |
| 2011 | 24,032 | 23,898 | 124 | 521 |  | 22,145 | 114 | 480 | 1,753 | 10 | 41 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 86-10 | 24,163 |  | 191 |  |  | 23,680 | 187 |  |  |  |  |
| 01-10 | 24,158 |  | 166 | 225 |  | 23,353 | 160 | 217 | 801 | 6 | 8 |

Appendix D. 10. Annual sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery on the Taku River, 1986-2011.

| Data b <br> Year | King |  |  | Little Trapper |  | Tatsamenie |  | Taku |  | Stikine <br> Enhance | USEnhance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kuthai | Salmon | Mainstem ${ }^{\text {a }}$ | Wild | Enhance | Wild | Enhance | Wild | Enhance |  |  |
| 1986 | 0.111 |  | 0.350 | 0.397 |  | 0.143 |  | 1.000 |  |  |  |
| 1987 | 0.062 |  | 0.649 | 0.201 |  | 0.088 |  | 1.000 |  |  |  |
| 1988 | 0.143 |  | 0.343 | 0.417 |  | 0.098 |  | 1.000 |  |  |  |
| $1989{ }^{\text {a }}$ | 0.053 |  |  |  |  | 0.203 |  | 1.000 |  |  |  |
| 1990 | 0.112 |  | 0.338 | 0.388 |  | 0.163 |  | 1.000 |  |  |  |
| 1991 | 0.064 |  | 0.452 | 0.308 |  | 0.176 |  | 1.000 |  |  |  |
| 1992 | 0.092 |  | 0.569 | 0.240 |  | 0.099 |  | 1.000 |  |  |  |
| 1993 | 0.126 |  | 0.432 | 0.392 |  | 0.049 |  | 1.000 |  |  |  |
| 1994 | 0.158 |  | 0.302 | 0.482 |  | 0.058 |  | 1.000 |  |  |  |
| 1995 | 0.047 |  | 0.373 | 0.427 | 0.010 | 0.112 | 0.031 | 0.959 | 0.041 |  |  |
| 1996 | 0.105 |  | 0.442 | 0.221 | 0.008 | 0.215 | 0.010 | 0.982 | 0.018 |  |  |
| 1997 | 0.120 |  | 0.277 | 0.282 | 0.019 | 0.294 | 0.008 | 0.973 | 0.027 |  |  |
| 1998 | 0.225 |  | 0.254 | 0.207 | 0.028 | 0.283 | 0.003 | 0.969 | 0.031 |  |  |
| 1999 | 0.389 |  | 0.145 | 0.305 | 0.008 | 0.147 | 0.006 | 0.986 | 0.014 |  |  |
| 2000 | 0.172 |  | 0.326 | 0.205 | 0.000 | 0.282 | 0.016 | 0.984 | 0.016 |  |  |
| 2001 | 0.184 |  | 0.364 | 0.168 | 0.000 | 0.246 | 0.039 | 0.961 | 0.039 |  |  |
| 2002 | 0.316 |  | 0.192 | 0.428 | 0.000 | 0.062 | 0.002 | 0.998 | 0.002 |  |  |
| 2003 | 0.231 | 0.023 | 0.271 | 0.378 | 0.000 | 0.089 | 0.008 | 0.992 | 0.008 |  |  |
| 2004 | 0.168 | 0.071 | 0.586 | 0.132 | 0.000 | 0.031 | 0.013 | 0.987 | 0.013 |  |  |
| 2005 | 0.098 | 0.038 | 0.505 | 0.204 | 0.000 | 0.143 | 0.012 | 0.988 | 0.012 |  |  |
| 2006 | 0.055 | 0.028 | 0.474 | 0.176 | 0.000 | 0.229 | 0.038 | 0.962 | 0.038 |  |  |
| 2007 | 0.102 | 0.000 | 0.524 | 0.101 | 0.000 | 0.170 | 0.096 | 0.897 | 0.096 | 0.007 |  |
| 2008 | 0.308 | 0.007 | 0.222 | 0.058 | 0.000 | 0.299 | 0.099 | 0.894 | 0.099 | 0.007 |  |
| 2009 | 0.155 | 0.000 | 0.276 | 0.414 | 0.000 | 0.145 | 0.007 | 0.990 | 0.007 | 0.002 |  |
| 2010 | 0.162 | 0.033 | 0.605 |  | 0.014 | 0.167 | 0.017 | 0.968 | 0.031 | 0.002 |  |
| 2011 | 0.058 | 0.083 | 0.422 | 0.030 | 0.017 | 0.329 | 0.056 | 0.921 | 0.073 | 0.004 | 0.001 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 86-10 | 0.150 |  | 0.386 | 0.284 |  | 0.160 |  | 0.980 |  |  |  |
| 01-10 | 0.178 | 0.025 | 0.402 | 0.229 | 0.001 | 0.158 | 0.033 | 0.964 | 0.034 | 0.005 |  |
| 1986 | 1,629 |  | 5,152 | 5,855 |  | 2,103 |  | 14,739 |  |  |  |
| 1987 | 834 |  | 8,793 | 2,728 |  | 1,199 |  | 13,554 |  |  |  |
| 1988 | 1,715 |  | 4,122 | 5,005 |  | 1,172 |  | 12,014 |  |  |  |
| $1989{ }^{\text {a }}$ | 990 |  |  |  |  | 3,763 |  | 18,545 |  |  |  |
| 1990 | 2,355 |  | 7,131 | 8,183 |  | 3,431 |  | 21,100 |  |  |  |
| 1991 | 1,601 |  | 11,327 | 7,721 |  | 4,418 |  | 25,067 |  |  |  |
| 1992 | 2,699 |  | 16,764 | 7,085 |  | 2,924 |  | 29,472 |  |  |  |
| 1993 | 4,192 |  | 14,347 | 13,036 |  | 1,641 |  | 33,217 |  |  |  |
| 1994 | 4,544 |  | 8,684 | 13,858 |  | 1,676 |  | 28,762 | 0 |  |  |
| 1995 | 1,528 |  | 12,185 | 13,934 | 331 | 3,659 | 1,003 | 31,306 | 1,334 |  |  |
| 1996 | 4,357 |  | 18,422 | 9,195 | 331 | 8,959 | 401 | 40,933 | 732 |  |  |
| 1997 | 2,891 |  | 6,637 | 6,758 | 456 | 7,060 | 201 | 23,346 | 657 |  |  |
| 1998 | 4,279 |  | 4,829 | 3,944 | 533 | 5,397 | 56 | 18,449 | 589 |  |  |
| 1999 | 8,044 |  | 2,992 | 6,314 | 171 | 3,034 | 126 | 20,384 | 297 |  |  |
| 2000 | 4,809 |  | 9,122 | 5,745 | 0 | 7,897 | 436 | 27,573 | 436 |  |  |
| 2001 | 8,748 |  | 17,330 | 8,005 | 0 | 11,709 | 1,868 | 45,792 | 1,868 |  |  |
| 2002 | 9,826 |  | 5,948 | 13,305 | 0 | 1,925 | 49 | 31,004 | 49 |  |  |
| 2003 | 7,568 | 755 | 8,855 | 12,383 | 0 | 2,902 | 267 | 32,463 | 267 |  |  |
| 2004 | 3,381 | 1,430 | 11,799 | 2,653 | 0 | 620 | 266 | 19,882 | 266 |  |  |
| 2005 | 2,120 | 829 | 10,950 | 4,433 | 0 | 3,108 | 257 | 21,440 | 257 |  |  |
| 2006 | 1,168 | 589 | 9,993 | 3,704 | 0 | 4,840 | 805 | 20,294 | 805 |  |  |
| 2007 | 1,697 | 0 | 8,759 | 1,694 | 0 | 2,838 | 1,602 | 14,987 | 1,602 | 125 |  |
| 2008 | 5,949 | 139 | 4,276 | 1,114 | 0 | 5,763 | 1,905 | 17,242 | 1,905 | 137 |  |
| 2009 | 1,703 | 0 | 3,035 | 4,549 | 0 | 1,588 | 80 | 10,875 | 80 | 25 |  |
| 2010 | 3,274 | 676 | 12,235 |  | 290 | 3,369 | 334 | 19,555 | 625 | 31 |  |
| 2011 | 1,387 | 1,990 | 10,140 | 723 | 406 | 7,906 | 1,347 | 22,145 | 1,753 | 106 | 28 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 86-10 | 3,788 |  | 9,320 | 7,009 |  | 3,885 |  | 23,894 | 692 |  |  |
| 01-10 | 4,543 | 552 | 9,318 | 5,760 | 29 | 3,866 | 743 | 23,353 | 772 |  |  |

Appendix D. 11. Annual sockeye salmon weir counts, escapements, and samples at the Tatsamenie weir, 1984-2011.


Appendix D. 12. Annual sockeye salmon weir counts, escapements, and samples at the Little Trapper weir, 1983-2011.

| Broodstock estimate is based on commercial ratio with tats weir data |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Weir <br> Count | Actual <br> Spawners | Trapper spawning esc |  | Broodstock |  |  |
|  |  |  | wild | enhanced | Total | wild | enhanced |
| 1983a | 7,402 | 7,402 |  |  | 0 |  |  |
| 1984 | 13,084 | 13,084 |  |  | 0 |  |  |
| 1985a | 14,889 | 14,889 |  |  | 0 |  |  |
| 1986 | 13,820 | 13,820 |  |  | 0 |  |  |
| 1987a | 12,007 | 12,007 |  |  | 0 |  |  |
| 1988 | 10,637 | 10,637 |  |  | 0 |  |  |
| 1989 | 9,606 | 9,606 |  |  | 0 |  |  |
| 1990 | 9,443 | 7,777 |  |  | 1,666 | 1,666 |  |
| 1991 | 22,942 | 21,001 |  |  | 1,941 | 1,941 |  |
| 1992 | 14,372 | 12,732 |  |  | 1,640 | 1,640 |  |
| 1993 | 17,432 | 16,685 |  |  | 747 | 747 |  |
| 1994 | 13,438 | 12,691 |  |  | 747 | 747 |  |
| 1995 | 11,524 | 11,524 | 11,076 | 448 | 0 |  |  |
| 1996 | 5,483 | 5,483 | 5,296 | 187 | 0 |  |  |
| 1997 | 5,924 | 5,924 | 5,551 | 373 | 0 |  |  |
| 1998 | 8,717 | 8,717 | 7,698 | 1019 | 0 |  |  |
| 1999 | 11,805 | 11,805 | 11,760 | 45 | 0 |  |  |
| 2000 | 11,551 | 11,551 | 11,551 | 0 | 0 |  |  |
| 2001 | 16,860 | 16,860 | 16,860 | 0 | 0 |  |  |
| 2002 | 7,973 | 7,973 | 7,973 | 0 | 0 |  |  |
| 2003 | 31,227 | 31,227 | 31,227 | 0 | 0 |  |  |
| 2004 | 9,613 | 9,613 | 9,613 | 0 | 0 |  |  |
| 2005 | 16,009 | 16,009 | 16,009 | 0 | 0 |  |  |
| 2006 | 25,265 | 24,557 | 24,557 | 0 | 708 | 708 |  |
| 2007 | 7,153 | 6,340 | 6,340 | 0 | 813 | 813 |  |
| 2008 | 3,831 | 2,791 | 2,791 | 0 | 1,040 | 1,040 |  |
| 2009 | 5,552 | 5,443 | 5,443 | 0 | 109 | 109 |  |
| 2010 | 3,347 | 3,387 | 3,090 | 297 |  |  |  |
| 2011 | 3,809 | 3,809 | 3,521 | 288 | 0 |  |  |
| Averages |  |  |  |  |  |  |  |
| 83-10 | 12,352 | 12,005 |  |  |  |  |  |
| 01-10 | 12,683 | 12,420 |  |  |  |  |  |

Appendix D. 13. Taku River sockeye salmon run size, 1984-2011.

| Run estimate does not include spawning escapements below the U.S./Canada border. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The early season sockeye expansion is based on the proportion of fish wheel sockeye catch that occurs before the fishery opens. |  |  |  |  |  |  |  |  |  |  |
| Year | Above Border M-R |  | Expansion |  | Expanded Above border Run Estimate | Canadian harvest | Escape. | $\begin{gathered} \text { U.S. } \\ \text { Harvest } \end{gathered}$ | Terminal Run | Total <br> Exploitation <br> Rate |
|  | Run | Start |  |  |  |  |  |  |  |  |
|  | Estimate | Date | Method | Factor |  |  |  |  |  |  |
| 1984 | 133,414 | 17-Jun | Ave.(88-90\&95-96) FW CPUE | 0.056 | 141,254 | 27,292 | 113,962 | 57,619 | 198,873 | 43\% |
| 1985 | 118,160 | 16-Jun | Ave.(88-90\&95-96) FW CPUE | 0.047 | 123,974 | 14,411 | 109,563 | 74,287 | 198,261 | 45\% |
| 1986 | 104,162 | 22-Jun | Ave.(88-90\&95-96) FW CPUE | 0.095 | 115,045 | 14,939 | 100,106 | 60,644 | 175,689 | 43\% |
| 1987 | 87,554 | 21-Jun | Ave.(88-90\&95-96) FW CPUE | 0.088 | 96,023 | 13,887 | 82,136 | 54,963 | 150,986 | 46\% |
| 1988 | 86,629 | 19-Jun | 1988 FW CPUE | 0.065 | 92,641 | 12,967 | 79,674 | 25,785 | 118,427 | 33\% |
| 1989 | 99,467 | 18-Jun | 1989 FW CPUE | 0.128 | 114,068 | 18,805 | 95,263 | 63,366 | 177,434 | 46\% |
| 1990 | 117,385 | 10-Jun | 1990 CPUE | 0.002 | 117,573 | 21,474 | 96,099 | 109,285 | 226,858 | 58\% |
| 1991 | 153,773 | 9-Jun | Ave.(88-90\&95-96) FW CPUE | 0.007 | 154,873 | 25,380 | 129,493 | 105,271 | 260,143 | 50\% |
| 1992 | 162,003 | 21-Jun | Ave.(88-90\&95-96) FW CPUE | 0.032 | 167,376 | 29,862 | 137,514 | 121,176 | 288,551 | 52\% |
| 1993 | 138,523 | 13-Jun | Ave.(88-90\&95-96) FW CPUE | 0.026 | 142,148 | 33,523 | 108,625 | 142,089 | 284,236 | 62\% |
| 1994 | 129,119 | 12-Jun | Ave.(88-90\&95-96) FW CPUE | 0.019 | 131,580 | 29,001 | 102,579 | 98,063 | 229,642 | 55\% |
| 1995 | 145,264 | 11-Jun | 1995 FW CPUE | 0.008 | 146,450 | 32,711 | 113,739 | 91,984 | 238,434 | 52\% |
| 1996 | 132,322 | 9-Jun | 1996 FW CPUE | 0.017 | 134,651 | 42,025 | 92,626 | 187,727 | 322,379 | 71\% |
| 1997 | 93,816 | 3-May | 1997 FW CPUE | 0.017 | 95,438 | 24,352 | 71,086 | 79,127 | 174,565 | 59\% |
| 1998 | 89,992 | 2-May | No Expansion |  | 89,992 | 19,277 | 70,715 | 49,832 | 139,824 | 49\% |
| 1999 | 113,706 | 14-May | No Expansion |  | 113,706 | 21,151 | 92,555 | 63,058 | 176,764 | 48\% |
| 2000 | 115,693 | 14-May | No Expansion |  | 115,693 | 28,468 | 87,225 | 131,262 | 246,954 | 65\% |
| 2001 | 192,245 | 27-May | No Expansion |  | 192,245 | 48,117 | 144,128 | 204,433 | 396,678 | 64\% |
| 2002 | 135,233 | 19-May | No Expansion |  | 135,233 | 31,726 | 103,507 | 116,401 | 251,634 | 59\% |
| 2003 | 193,390 | 20-May | No Expansion |  | 193,390 | 33,024 | 160,366 | 135,494 | 328,884 | 51\% |
| 2004 | 127,047 | 12-May | No Expansion |  | 127,047 | 20,359 | 106,688 | 77,012 | 204,059 | 48\% |
| 2005 | 142,155 | 5-May | No Expansion |  | 142,155 | 22,102 | 120,053 | 46,090 | 188,245 | 36\% |
| 2006 | 167,597 | 20-May | No Expansion |  | 167,597 | 21,446 | 146,151 | 65,828 | 233,425 | 37\% |
| 2007 | 104,815 | 19-May | FW CPUE | 0.002 | 105,012 | 17,249 | 87,763 | 65,129 | 170,141 | 48\% |
| 2008 | 84,073 | 17-May | FW CPUE after week 34 | 0.040 | 87,568 | 19,509 | 68,059 | 75,692 | 163,260 | 58\% |
| 2009 | 83,028 | 12-May | FW CPUE after week 34 | 0.001 | 83,097 | 11,260 | 71,837 | 36,232 | 119,329 | 40\% |
| 2010 | 103,257 | 19-May | FW CPUE | 0.053 | 109,028 | 20,661 | 88,367 | 46,767 | 155,795 | 43\% |
| 2011 | 139,926 | 25-Apr | No Expansion |  | 139,926 | 24,543 | 115,383 | 71,804 | 211,730 | 46\% |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 84-10 | 124,777 | 28-May |  | 0.039 | 127,217 | 24,258 | 102,958 | 88,319 | 215,536 | 50\% |
| 01-10 | 133,284 | 17-May |  | 0.024 | 134,237 | 24,545 | 109,692 | 86,908 | 221,145 | 48\% |

Appendix D. 14. The terminal run reconstruction of Taku wild and enhanced sockeye salmon, 1984-2011.

| Year | Wild Total Run |  |  |  | Enhanced Total Run |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Canadian harvest | Escape | $\begin{gathered} \text { US } \\ \text { harvest } \end{gathered}$ | Terminal <br> Run | Canadian harvest | Escape | $\begin{gathered} \text { US } \\ \text { harvest } \end{gathered}$ | Terminal <br> Run |
| 1984 | 27,292 | 113,962 | 58,543 | 199,796 |  |  |  |  |
| 1985 | 14,411 | 109,563 | 73,809 | 197,783 |  |  |  |  |
| 1986 | 14,939 | 100,106 | 60,934 | 175,980 |  |  |  |  |
| 1987 | 13,887 | 82,136 | 54,124 | 150,148 |  |  |  |  |
| 1988 | 12,967 | 79,674 | 25,811 | 118,452 |  |  |  |  |
| 1989 | 18,805 | 95,263 | 62,828 | 176,895 |  |  |  |  |
| 1990 | 21,474 | 94,433 | 108,499 | 226,072 |  |  |  |  |
| 1991 | 25,380 | 127,552 | 103,412 | 258,285 |  |  |  |  |
| 1992 | 29,862 | 135,874 | 122,438 | 289,814 |  |  |  |  |
| 1993 | 33,523 | 107,878 | 141,038 | 283,186 |  |  |  |  |
| 1994 | 29,001 | 101,832 | 97,046 | 228,626 |  |  |  |  |
| 1995 | 31,374 | 112,048 | 87,878 | 231,300 | 1,337 | 1,691 | 4,106 | 7,134 |
| 1996 | 41,287 | 91,994 | 182,944 | 316,225 | 738 | 632 | 4,783 | 6,153 |
| 1997 | 23,685 | 70,481 | 77,067 | 171,233 | 667 | 605 | 2,060 | 3,332 |
| 1998 | 18,681 | 69,560 | 48,989 | 137,230 | 596 | 1,155 | 843 | 2,594 |
| 1999 | 20,847 | 92,473 | 62,441 | 175,761 | 304 | 82 | 617 | 1,003 |
| 2000 | 28,025 | 86,225 | 129,683 | 243,933 | 443 | 1,000 | 1,579 | 3,022 |
| 2001 | 46,231 | 140,375 | 195,496 | 382,101 | 1,886 | 3,753 | 8,938 | 14,577 |
| 2002 | 31,676 | 102,848 | 115,748 | 250,272 | 50 | 659 | 653 | 1,362 |
| 2003 | 32,755 | 159,026 | 134,717 | 326,498 | 269 | 1,340 | 777 | 2,386 |
| 2004 | 20,090 | 105,974 | 76,321 | 202,385 | 269 | 714 | 692 | 1,674 |
| 2005 | 21,840 | 119,384 | 45,497 | 186,721 | 262 | 669 | 593 | 1,524 |
| 2006 | 20,628 | 143,660 | 63,587 | 227,875 | 818 | 2,491 | 2,241 | 5,550 |
| 2007 | 15,467 | 84,691 | 61,387 | 161,544 | 1,782 | 3,072 | 3,742 | 8,597 |
| 2008 | 17,443 | 63,892 | 63,905 | 145,240 | 2,066 | 4,167 | 11,787 | 18,020 |
| 2009 | 11,152 | 71,489 | 35,984 | 118,625 | 108 | 348 | 248 | 704 |
| 2010 | 20,020 | 87,364 | 45,824 | 153,208 | 641 | 1,003 | 943 | 2,587 |
| 2011 | 22,739 | 113,022 | 66,113 | 201,874 | 1,803 | 2,362 | 5,691 | 9,856 |
| Averages |  |  |  |  |  |  |  |  |
| 84-10 | 23,805 | 101,843 | 86,517 | 212,414 |  |  |  |  |
| 01-10 | 23,730 | 107,870 | 83,846 | 215,447 | 815 | 1,822 | 3,061 | 5,698 |

Appendix D. 15. Annual sockeye salmon escapement estimates of Taku River and Port Snettisham sockeye salmon stocks, 1979-2011.

| Spawners equals escapement to the weir minus fish collected for brood stock. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Little Trapper |  | Little Tatsamenie |  | Tatsamenie |  | King Salmon Weir | Kuthai Lake Weir | Nahlin River Weir | Crescent Lake |  | Speel Lake |  |
| Year | Count | Escape. | Count | Escape. | Count | Escape. |  |  |  | Count | Escape. | Count | Escape. |
| 1980 |  |  |  |  |  |  |  | 1,658 |  |  |  |  |  |
| 1981 |  |  |  |  |  |  |  | 2,299 |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $1983{ }^{\text {a }}$ | 7,402 | 7,402 |  |  |  |  |  |  |  | 19,422 | 19,422 | 10,484 | 10,484 |
| 1984 | 13,084 | 13,084 |  |  |  |  |  |  |  | 6,707 | 6,707 | 9,764 | 9,764 |
| $1985{ }^{\text {a }}$ | 14,889 | 14,889 | 13,093 | 13,093 |  |  |  |  |  | 7,249 | 7,249 | 7,073 | 7,006 |
| 1986 | 13,820 | 13,820 | 11,446 | 11,446 |  |  |  |  |  | 3,414 | 3,414 | 5,857 | 5,457 |
| $1987{ }^{\text {a }}$ | 12,007 | 12,007 | 2,794 | 2,794 |  | 25 |  |  |  | 7,839 | 7,839 | 9,319 | 9,319 |
| 1988 | 10,637 | 10,637 | 2,063 | 2,063 |  |  |  |  | 138 | 1,199 | 1,199 | 969 | 710 |
| 1989 | 9,606 | 9,606 | 3,039 | 3,039 |  |  |  |  |  | 1,109 | 775 | 12,229 | 10,114 |
| 1990 | 9,443 | 7,777 | 5,736 | 4,929 |  |  |  |  | 2,515 | 1,262 | 757 | 18,064 | 16,867 |
| 1991 | 22,942 | 21,001 | 8,381 | 7,585 |  |  |  |  |  | 9,208 | 8,666 | 299 | 299 |
| 1992 | 14,372 | 12,732 | 6,576 | 5,681 |  |  |  | 1,457 | 297 | 22,674 | 21,849 | 9,439 | 8,136 |
| 1993 | 17,432 | 16,685 | 5,028 | 4,230 |  |  |  | 6,312 | 2,463 |  |  |  |  |
| 1994 | 13,438 | 12,691 | 4,371 | 3,578 |  |  |  | 5,427 | 960 |  |  |  |  |
| 1995 | 11,524 | 11,524 |  |  | 5,780 | 4,387 |  | 3,310 | 3,711 |  |  | 16,208 | 14,260 |
| 1996 | 5,483 | 5,483 |  |  | 10,381 | 8,026 |  | 4,243 | 2,538 |  |  | 20,000 | 18,610 |
| 1997 | 5,924 | 5,924 |  |  | 8,363 | 5,981 |  | 5,746 | 1,857 |  |  | 4,999 |  |
| 1998 | 8,717 | 8,717 |  |  | 5,997 | 4,735 |  | 1,934 | 345 |  |  | 13,358 |  |
| 1999 | 11,805 | 11,805 |  |  | 2,104 | 1,888 |  | 10,042 |  |  |  | 10,277 |  |
| 2000 | 11,551 | 11,551 |  |  | 7,575 | 5,570 |  | 4,096 |  |  |  | 6,764 |  |
| 2001 | 16,860 | 16,860 |  |  | 22,575 | 19,579 |  | 1,663 | 935 |  |  | 8,060 |  |
| 2002 | 7,973 | 7,973 |  |  | 5,495 | 4,379 |  | 7,697 |  |  |  | 5,016 |  |
| 2003 | 31,227 | 31,227 |  |  | 4,515 | 2,965 |  | 7,769 |  |  |  | 7,014 |  |
| 2004 | 9,613 | 9,613 |  |  | 1,951 | 1,357 | 5,005 | 1,578 |  | na | na | 7,813 |  |
| 2005 | 16,009 | 16,009 |  |  | 3,372 | 2,445 | 1,046 | 6,004 |  | na | na | 7,538 |  |
| 2006 | 25,265 | 24,557 |  |  | 22,475 | 19,820 | 2,177 | 1,015 |  | na | na | 4,163 |  |
| 2007 | 7,153 | 6,340 |  |  | 11,187 | 8,384 | 5 | 204 |  | na | na | 3,099 |  |
| 2008 | 3,831 | 2,791 |  |  | 8,976 | 6,176 | 888 | 1,547 |  | na | na | 1,763 |  |
| 2009 | 5,552 | 5,443 |  |  | 2,032 | 1,292 | 55 | 1,442 |  | na | na | 3,689 | 3,689 |
| 2010 | 3,347 | 3,387 |  |  | 3,513 | 2,113 | 2,977 | 1,626 |  | na | na | 5,570 | 5,570 |
| 2011 | 3,809 | 3,809 |  |  | 7,880 | 6,580 | 2,899 | 811 |  | na | na | 4,777 | 4,777 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-10 | 12,175 | 11,841 |  |  |  |  |  |  |  |  |  | 8,032 |  |
| 01-10 | 12,683 | 12,420 |  |  | 8,609 | 6,851 | 1,736 | 3,055 | 935 |  |  | 5,373 |  |

Appendix D. 16. Historical Taku River coho salmon harvested in D111 terminal fisheries, 1992-2011.

| Sportfish estimate is based on all landings made in Juneau (not just D11) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D11 Gillnet |  | Juneau Sport Fish |  |  |  |
|  | Harvest | SE | Harvest | SE | PU | Total |
| 1992 | 74,226 | 23,030 | 431 | 380 | 88 | 74,745 |
| 1993 | 32,456 | 8,515 | 3,222 | 3,048 | 25 | 35,703 |
| 1994 | 82,181 | 14,117 | 19,018 | 8,674 | 93 | 101,292 |
| 1995 | 51,286 | 7,263 | 7,857 | 2,920 | 97 | 59,240 |
| 1996 | 14,491 | 2,762 | 2,461 | 1,162 | 67 | 17,019 |
| 1997 | 1,489 | 412 | 4,963 | 1,674 | 27 | 6,479 |
| 1998 | 12,972 | 2,015 | 3,984 | 1,084 | 86 | 17,042 |
| 1999 | 5,572 | 913 | 3,393 | 997 | 44 | 9,009 |
| 2000 | 7,352 | 1,355 | 4,137 | 1,148 | 31 | 11,520 |
| 2001 | 9,212 | 1,523 | 2,505 | 813 | 22 | 11,739 |
| 2002 | 26,981 | 4,257 | 6,189 | 1,346 | 68 | 33,238 |
| 2003 | 19,659 | 6,937 | 5,421 | 1,727 | 59 | 25,139 |
| 2004 | 13,058 | 2,937 | 12,720 | 3,528 | 120 | 25,898 |
| 2005 | 18,011 | 5,679 | 3,573 | 1,830 | 134 | 21,718 |
| 2006 | 32,051 | 4,020 | 3,985 | 1,017 | 134 | 36,170 |
| 2007 | 15,753 | 2,416 | 804 | 488 | 60 | 16,617 |
| 2008 | 23,806 | 5,028 | 493 | 362 | 91 | 24,390 |
| 2009 | 36,757 | 5,033 | 5,949 | 2,445 | 240 | 42,946 |
| 2010 | 41,695 | 8,703 | 13,301 | 4,491 | 258 | 55,254 |
| 2011 | 4,829 | 1,237 | 4,340 | 977 | 224 | 9,393 |
| averages |  |  |  |  |  |  |
| 01-10 | 23,698 |  | 5,494 |  | 119 | 29,311 |

Appendix D. 17. Historical coho salmon in the Canadian fisheries in the Taku River, 1987-2011.

| Year | Commercial |  |  | Aboriginal | test | test released |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | before SW34 | After SW34 | Total |  |  |  |
| 1979 |  |  | 6,006 |  |  |  |
| 1980 |  |  | 6,405 | 0 |  |  |
| 1981 |  |  | 3,607 |  |  |  |
| 1982 |  |  | 51 |  |  |  |
| 1983 |  |  | 8,390 | 0 |  |  |
| 1984 |  |  | 5,357 | 15 |  |  |
| 1985 |  |  | 1,770 | 22 |  |  |
| 1986 |  |  | 1,783 | 50 |  |  |
| 1987 |  |  | 5,599 | 113 | 807 |  |
| 1988 |  |  | 3,123 | 98 | 422 |  |
| 1989 |  |  | 2,876 | 146 | 1,011 |  |
| 1990 |  |  | 3,207 | 6 | 472 |  |
| 1991 |  |  | 3,415 | 20 | 2,004 |  |
| 1992 |  |  | 4,077 | 187 | 1,277 |  |
| 1993 |  |  | 3,033 | 8 | 1,593 |  |
| 1994 |  |  | 14,531 | 162 |  |  |
| 1995 |  |  | 13,629 | 109 |  |  |
| 1996 |  |  | 5,028 | 24 |  | 39 |
| 1997 |  |  | 2,594 | 96 |  |  |
| 1998 |  |  | 5,090 | 0 |  |  |
| 1999 |  |  | 4,416 | 471 | 688 |  |
| 2000 |  |  | 4,395 | 342 | 710 |  |
| 2001 |  |  | 2,568 | 500 | 31 | 2,976 |
| 2002 |  |  | 3,082 | 688 | 32 | 3,767 |
| 2003 |  |  | 3,168 | 416 | 59 | 4,031 |
| 2004 | 2,387 | 3,579 | 5,966 | 450 | 3,268 |  |
| 2005 | 1,412 | 3,512 | 4,924 | 162 | 3,173 |  |
| 2006 | 4,947 | 3,620 | 8,567 | 300 | 2,802 |  |
| 2007 | 2,229 | 3,015 | 5,244 | 155 | 2,674 |  |
| 2008 | 2,802 | 1,104 | 3,906 | 67 | 0 | 1,012 |
| 2009 | 2,379 | 3,270 | 5,649 | 154 | 3,963 |  |
| 2010 | 3,283 | 7,066 | 10,349 | 59 | 4,000 |  |
| 2011 | 2,353 | 6,093 | 8,446 | 30 | 4,002 |  |
| Averages |  |  |  |  |  |  |
| 83-10 |  |  | 5,205 | 172 |  |  |
| 01-10 |  |  | 5,342 | 295 | 2,000 |  |

Appendix D. 18. Historic Taku River coho salmon terminal run size, 1987-2011.
The run estimates do not include spawningescapements below the U.S./Canada border. Estimates are expanded if mark-recapture acti terminate prior to run completion.

| Year | Above Border M-R |  | Expansion |  | Expanded <br> Estimate | Canadian Harvest | Escape. | U.S. <br> Harvest | Terminal <br> Run | Total Exploitation Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run | End |  |  |  |  |  |  |  |  |
|  | Estimate | Date | Method | Factor |  |  |  |  |  |  |
| 1987 | 43,750 | 20-Sep | Test Fish CPUE | 1.42 | 61,976 | 6,519 | 55,457 |  |  |  |
| 1988 | 43,093 | 18-Sep |  | 1.00 | 43,093 | 3,643 | 39,450 |  |  |  |
| 1989 | 60,841 | 1-Oct |  | 1.00 | 60,841 | 4,033 | 56,808 |  |  |  |
| 1990 | 75,881 |  |  | 1.00 | 75,881 | 3,685 | 72,196 |  |  |  |
| 1991 | 132,923 |  |  | 1.00 | 132,923 | 5,439 | 127,484 |  |  |  |
| 1992 | 49,928 | 5-Sep | District 111-32 CPUE | 1.79 | 89,270 | 5,541 | 83,729 | 74,745 | 164,015 | 0.490 |
| 1993 | 67,448 | 11-Sep | District 111-32 CPUE | 1.84 | 123,964 | 4,634 | 119,330 | 35,703 | 159,667 | 0.253 |
| 1994 | 98,643 | 24-Sep | District 111-32 CPUE | 1.13 | 111,036 | 14,693 | 96,343 | 101,292 | 212,328 | 0.546 |
| 1995 | 61,738 | 30-Sep | District 111-32 CPUE | 1.12 | 69,448 | 13,738 | 55,710 | 59,240 | 128,688 | 0.567 |
| 1996 | 44,172 | 28-Sep | District 111-32 CPUE | 1.12 | 49,687 | 5,052 | 44,635 | 17,019 | 66,706 | 0.331 |
| 1997 | 35,035 | 27-Sep | District 111-32 CPUE | 1.00 | 35,035 | 2,690 | 32,345 | 6,479 | 41,514 | 0.221 |
| 1998 | 49,290 | 26-Sep | District 111-32 CPUE | 1.35 | 66,472 | 5,090 | 61,382 | 17,042 | 83,514 | 0.265 |
| 1999 | 59,052 | 3-Oct | Troll CPUE | 1.12 | 66,343 | 5,575 | 60,768 | 9,009 | 75,352 | 0.194 |
| 2000 | 70,147 | 2-Oct | no expansion | 1.00 | 70,147 | 5,447 | 64,700 | 11,520 | 81,667 | 0.208 |
| 2001 | 107,493 | 5-Oct | no expansion | 1.00 | 107,493 | 3,099 | 104,394 | 11,739 | 119,232 | 0.124 |
| 2002 | 223,162 | 7-Oct | no expansion | 1.00 | 223,162 | 3,802 | 219,360 | 33,238 | 256,400 | 0.144 |
| 2003 | 186,755 | 8-Oct | no expansion | 1.00 | 186,755 | 3,643 | 183,112 | 25,139 | 211,894 | 0.136 |
| 2004 | 139,011 | 8-Oct | no expansion | 1.00 | 139,011 | 9,684 | 129,327 | 25,898 | 164,909 | 0.216 |
| 2005 | 143,817 | 8-Oct | no expansion | 1.00 | 143,817 | 8,259 | 135,558 | 21,718 | 165,535 | 0.181 |
| 2006 | 134,053 | 8-Oct | no expansion | 1.00 | 134,053 | 11,669 | 122,384 | 36,170 | 170,223 | 0.281 |
| 2007 | 82,319 | 8-Oct | no expansion | 1.00 | 82,319 | 8,073 | 74,246 | 16,617 | 98,936 | 0.250 |
| 2008 | 99,199 | 8-Oct | no expansion | 1.00 | 99,199 | 3,973 | 95,226 | 24,390 | 123,589 | 0.229 |
| 2009 | 113,716 | 8-Oct | no expansion | 1.00 | 113,716 | 9,766 | 103,950 | 42,946 | 156,662 | 0.336 |
| 2010 | 141,238 | 8-Oct | no expansion | 1.00 | 141,238 | 14,408 | 126,830 | 55,254 | 196,492 | 0.355 |
| 2011 | 83,349 | 8-Oct | no expansion | 1.00 | 83,349 | 12,478 | 70,871 | 9,393 | 92,742 | 0.236 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 87-10 | 94,279 | 30-Sep |  | 1.12 | 101,120 | 6,756 | 94,363 | 32,903 | 140,912 | 0.280 |
| 01-10 | 137,076 | 7-Oct |  | 1.00 | 137,076 | 7,638 | 129,439 | 29,311 | 166,387 | 0.225 |

Appendix D. 19. Escapement counts of Taku River coho salmon. Counts are for age-. 1 fish and do not include jacks, 1984-2011.

| Year | Yehring Creek |  | Sockeye <br> Creek <br> Aerial | Johnson <br> Creek <br> Ar/Foot | Fish <br> Creek <br> Aerial | Flannigan <br> Slough <br> Aerial | Tatsamenie <br> River <br> Weir | Hacket <br> River <br> Weir | Dudidontu <br> River <br> Aerial | Upper Nahlin River |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Weir | Aerial |  |  |  |  |  |  |  | Aerial | Weir |
| 1984 |  | 2,900 | 275 | 235 | 700 | 1,480 |  |  |  |  |  |
| 1985 |  | 560 | 740 | 150 | 1,000 | 2,320 | 201 | 1,031 |  |  |  |
| 1986 | 2,116 ${ }^{\text {a }}$ | 1,200 | 174 | 70 | 53 | 1,095 | 344 | 2,723 | 108 | 318 |  |
| 1987 | 1,627 ${ }^{\text {a }}$ | 565 | 980 | 150 | 250 | 2,100 | 173 | 1,715 | 276 | 165 |  |
| 1988 | 1,423 | 658 | 585 | 500 | 1,215 | 1,308 | $663{ }^{\text {a }}$ | 1,260 | 367 | 694 | 1,322 |
| 1989 | 1,570 | 600 | 400 | 400 | 235 | 1,670 | $712^{\text {a }}$ |  | 115 | 322 |  |
| 1990 | 2,522 | 220 | 193 |  | 425 | 414 | $669{ }^{\text {a }}$ |  | 25 | 256 |  |
| 1991 |  | 475 | 399 | 120 | 1,378 | 1,348 | 1,101 |  | 458 | 176 |  |
| 1992 |  | 1,267 | 594 | 654 | 478 | 1,288 | 730 |  |  |  | 970 ${ }^{\text {a }}$ |
| 1993 |  | 250 | 130 | 90 | 380 | 70 | 88 |  |  |  | 326 |
| 1994 |  | 500 | 60 | 450 | 200 | 50 | 168 |  |  |  | 2,112 |
| 1995 |  | 70 | 230 | 170 | 132 | 421 | 62 |  |  |  |  |
| 1996 |  | 35 | 28 | 50 | 250 | 278 | 21 |  |  |  |  |
| 1997 |  | 500 | 10 | 550 | 600 |  |  |  |  |  |  |
| 1998 |  | 280 |  | 300 | 450 |  |  |  |  |  |  |
| 1999 |  | 1,050 |  |  | 400 |  |  |  |  |  |  |
| 2000 |  | 450 |  | 500 | 1,800 |  |  |  |  |  |  |

Surveys Discontinued
${ }^{a}$ Weir count combined with spawning ground count. Tatsamenie 88-90, Yehring 86-87, Nahlin 92.

Appendix D. 20. Historical effort in the Alaskan District 111 and Subdistrict 111-32
(Taku Inlet) commercial drift gillnet fishery, 1960-2011.

| Days open are for the entire district and include openings to harvest spawner chinook salmon, 1960-1975. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year | D111 |  | D111-32 |  | PU |
|  | Boat <br> Days | $\begin{gathered} \text { Days } \\ \text { Open } \\ \hline \end{gathered}$ | Boat <br> Days | $\begin{aligned} & \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ |  |
| 1960 |  | 60.00 | 1,680 | 60.00 |  |
| 1961 |  | 62.00 | 2,901 | 62.00 |  |
| 1962 |  | 52.00 | 1,568 | 52.00 |  |
| 1963 |  | 54.00 | 1,519 | 51.00 |  |
| 1964 |  | 56.00 | 1,491 | 56.00 |  |
| 1965 |  | 63.00 | 1,332 | 60.00 |  |
| 1966 |  | 64.00 | 1,535 | 58.00 |  |
| 1967 |  | 53.00 | 1,663 | 50.00 |  |
| 1968 |  | 60.00 | 2,420 | 60.00 |  |
| 1969 | 1,518 | 41.50 | 1,413 | 42.00 |  |
| 1970 | 2,688 | 53.00 | 2,425 | 53.00 |  |
| 1971 | 3,053 | 55.00 | 2,849 | 55.00 |  |
| 1972 | 3,103 | 51.00 | 2,797 | 51.00 |  |
| 1973 | 3,286 | 41.00 | 3,135 | 41.00 |  |
| 1974 | 2,315 | 29.50 | 1,741 | 30.00 |  |
| 1975 | 1,084 | 15.50 | 986 | 15.00 |  |
| 1976 | 1,914 | 25.00 | 1,582 | 23.00 |  |
| 1977 | 2,258 | 27.00 | 1,879 | 27.00 |  |
| 1978 | 2,174 | 26.00 | 1,738 | 24.00 |  |
| 1979 | 2,269 | 28.83 | 2,011 | 29.00 |  |
| 1980 | 4,123 | 30.92 | 3,634 | 31.00 |  |
| 1981 | 2,687 | 30.00 | 1,740 | 22.00 |  |
| 1982 | 2,433 | 35.50 | 2,130 | 36.00 |  |
| 1983 | 1,274 | 33.00 | 1,065 | 31.00 |  |
| 1984 | 2,757 | 52.50 | 2,120 | 39.00 |  |
| 1985 | 3,264 | 48.00 | 2,116 | 37.00 | 54 |
| 1986 | 2,129 | 32.83 | 1,413 | 30.00 |  |
| 1987 | 2,514 | 34.75 | 1,517 | 30.00 |  |
| 1988 | 2,135 | 32.00 | 1,213 | 29.00 |  |
| 1989 | 2,333 | 41.00 | 1,909 | 36.00 | 75 |
| 1990 | 3,188 | 38.33 | 2,879 | 38.00 | 95 |
| 1991 | 4,145 | 57.00 | 3,324 | 52.00 | 88 |
| 1992 | 4,550 | 50.00 | 3,407 | 43.00 | 125 |
| 1993 | 3,827 | 43.00 | 3,372 | 43.00 | 128 |
| 1994 | 5,078 | 66.00 | 3,960 | 60.00 | 116 |
| 1995 | 4,034 | 49.00 | 3,061 | 45.00 | 106 |
| 1996 | 3,229 | 46.00 | 2,685 | 41.00 | 130 |
| 1997 | 2,107 | 33.00 | 1,761 | 30.00 | 123 |
| 1998 | 3,070 | 48.00 | 2,007 | 39.00 | 130 |
| 1999 | 2,841 | 59.00 | 2,563 | 58.00 | 147 |
| 2000 | 2,919 | 40.00 | 2,325 | 38.00 | 128 |
| 2001 | 4,731 | 54.00 | 3,635 | 55.00 | 163 |
| 2002 | 4,095 | 62.00 | 2,792 | 54.00 | 136 |
| 2003 | 3,977 | 73.50 | 2,685 | 64.50 | 133 |
| 2004 | 3,342 | 59.00 | 1,627 | 50.00 | 131 |
| 2005 | 3,427 | 68.00 | 2,947 | 65.00 | 132 |
| 2006 | 3,517 | 89.00 | 2,470 | 81.00 | 105 |
| 2007 | 3,505 | 64.00 | 2,941 | 64.00 | 91 |
| 2008 | 3,116 | 49.00 | 2,223 | 46.00 | 125 |
| 2009 | 3,438 | 62.00 | 2,600 | 57.00 | 113 |
| 2010 | 2,764 | 54 | 2,357 | 54 | 120 |
| 2011 | 3,303 | 46.00 | 2,669 | 46.00 | 133 |
| Averages |  |  |  |  |  |
| 60-10 | 3,005 | 48 | 2,258 | 45 |  |
| 01-10 | 3,591 | 63 | 2,628 | 59 | 125 |

Appendix D. 21. Historical effort in the Canadian commercial fishery in the Taku River, 1979-2011.

|  | Commercial |  |
| :--- | ---: | ---: |
| Year | Boat <br> Days | Days <br> Open |
| 1979 | 599 | 50 |
| 1980 | 476 | 39 |
| 1981 | 243 | 31 |
| 1982 | 38 | 13 |
| 1983 | 390 | 64 |
| 1984 | 288 | 30 |
| 1985 | 178 | 16 |
| 1986 | 148 | 17 |
| 1987 | 280 | 26 |
| 1988 | 185 | 15 |
| 1989 | 271 | 25 |
| 1990 | 295 | 28 |
| 1991 | 284 | 25 |
| 1992 | 291 | 27 |
| 1993 | 363 | 34 |
| 1994 | 497 | 74 |
| 1995 | 428 | 51 |
| 1996 | 415 | 65 |
| 1997 | 394 | 47 |
| 1998 | 299 | 42 |
| 1999 | 300 | 34 |
| 2000 | 351 | 39 |
| 2001 | 382 | 42 |
| 2002 | 286 | 33 |
| 2003 | 275 | 44 |
| 2004 | 294 | 40 |
| 2005 | 561 | 68 |
| 2006 | 518 | 77 |
| 2007 | 313 | 55 |
| 2008 | 245 | 33 |
| 2009 | 459 | 98 |
| 2010 | 396 | 62 |
| 2011 | 440 | 63 |
| Averages |  |  |
| $79-10$ | 336 | 42 |
| $01-10$ | 373 | 55 |
|  |  |  |

Appendix D. 22. Canyon Island fish wheel salmon counts and periods of operation on the Taku River, 1984-2011.

| Year | Period of Operation | Catch |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Pink |  |  |
|  |  | Chinook | Sockeye | Coho | Pink | Chum | ven year | odd year | Steelhead |
| 1984 | 6/15-9/18 | 138 | 2,334 | 889 | 20,751 | 316 | 20,751 |  |  |
| 1985 | 6/16-9/21 | 184 | 3,601 | 1,207 | 27,670 | 1,376 |  | 27,670 |  |
| 1986 | 6/14-8/25 | 571 | 5,808 | 758 | 7,256 | 80 | 7,256 |  |  |
| 1987 | 6/15-9/20 | 285 | 4,307 | 2,240 | 42,786 | 1,533 |  | 42,786 | 34 |
| 1988 | 5/11-9/19 | 1,436 | 3,292 | 2,168 | 3,982 | 1,089 | 3,982 |  | 34 |
| 1989 | 5/05-10/01 | 1,811 | 5,650 | 2,243 | 31,189 | 645 |  | 31,189 | 38 |
| 1990 | 5/03-9/23 | 1,972 | 6,091 | 1,860 | 13,358 | 748 | 13,358 |  | 43 |
| 1991 | 6/08-10/15 | 680 | 5,102 | 4,922 | 23,553 | 1,063 |  | 23,553 | 138 |
| 1992 | 6/20-9/24 | 212 | 6,279 | 2,103 | 9,252 | 189 | 9,252 |  | 22 |
| 1993 | 6/12-9/29 | 562 | 8,975 | 2,552 | 1,625 | 345 |  | 1,625 | 16 |
| 1994 | 6/10-9/21 | 906 | 6,485 | 4,792 | 27,100 | 367 | 27,100 |  | 107 |
| 1995 | 5/4-9/27 | 1,535 | 6,228 | 2,535 | 1,712 | 218 |  | 1,712 | 61 |
| 1996 | 5/3-9/20 | 1,904 | 5,919 | 1,895 | 21,583 | 388 | 21,583 |  | 68 |
| 1997 | 5/3-10/1 | 1,321 | 5,708 | 1,665 | 4,962 | 485 |  | 4,962 | 103 |
| 1998 | 5/2-9/15 | 894 | 4,230 | 1,777 | 23,347 | 179 | 23,347 |  | 119 |
| 1999 | 5/3-10/3 | 440 | 4,636 | 1,848 | 23,503 | 164 |  | 23,503 | 119 |
| 2000 | 4/23-10/3 | 1,211 | 5,865 | 1,877 | 6,529 | 423 | 6,529 |  | 160 |
| 2001 | 4/23-10/5 | 1,262 | 6,201 | 2,380 | 9,134 | 250 |  | 9,134 | 125 |
| 2002 | 4/24-10/7 | 1,578 | 5,812 | 3,766 | 5,672 | 205 | 5,672 |  | 87 |
| 2003 | 4/20-10/08 | 1,351 | 5,970 | 3,002 | 15,492 | 268 |  | 15,492 | 93 |
| 2004 | 4/30-10/06 | 2,234 | 6,255 | 3,163 | 8,464 | 414 | 8,464 |  | 63 |
| 2005 | 4/25-10/05 | 517 | 3,953 | 1,476 | 15,839 | 258 |  | 15,839 | 79 |
| 2006 | 4/27-10/03 | 544 | 5,296 | 2,811 | 21,725 | 466 | 21,725 |  | 47 |
| 2007 | 4/27-10/01 | 430 | 7,698 | 2,117 | 12,405 | 482 |  | 12,405 | 57 |
| 2008 | 4/23-10/03 | 1,298 | 3,736 | 2,213 | 4,704 | 350 | 4,704 |  |  |
| 2009 | 4/24-9/27 | 688 | 3,489 | 3,051 | 9,234 | 231 |  | 9,225 | 52 |
| 2010 | 4/24-9/27 | 778 | 3,244 | 2,123 | 8,868 | 94 | 8,868 |  | 176 |
| 2011 | 4/25-10/02 | 728 | 3,671 | 1,843 | 17,775 | 177 |  | 17,775 | 93 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-10 |  | 990 | 5,265 | 2,349 | 14,878 | 468 | 13,042 | 16,853 | 80 |
| 01-10 |  | 1,068 | 5,165 | 2,610 | 11,154 | 302 | 9,887 | 12,419 | 87 |

Appendix E. 1. Weekly salmon harvest and effort in the lower Alsek River fisheries, 2011.

| SW | Chinook | Sockeye | Coho | Pink | Chum | Boats | Effort <br> Days Open | Boat Days |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Test Fishery |  |  |  |  |  |  |  |  |
| 21 | 7 | 4 | 0 | 0 | 0 | 1 | 5.67 |  |
| 22 | 41 | 4 | 0 | 0 | 0 | 1 | 5.67 |  |
| 23 | 196 | 55 | 0 | 0 | 0 | 1 | 5.67 |  |
| 24 | 92 | 27 | 0 | 0 | 0 | 1 | 3.67 |  |
| 25 | 68 | 51 | 0 | 0 | 0 | 1 | 4.67 |  |
| 26 | 17 | 16 | 0 | 0 | 0 | 1 | 4.67 |  |
| 27 |  |  |  |  |  |  |  |  |
| Total | 421 | 157 | 0 | 0 | 0 |  |  |  |


| Commercial Fishery |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 23 |  |  |  |  |  |  |  | 0.0 |
| 24 | 209 | 991 | 0 | 0 | 0 | 11 | 2.0 | 22.0 |
| 25 | 164 | 585 | 0 | 0 | 0 | 12 | 1.0 | 12.0 |
| 26 | 133 | 495 | 0 | 0 | 0 | 12 | 1.0 | 12.0 |
| 27 | 28 | 2,156 | 0 | 0 | 0 | 13 | 2.0 | 26.0 |
| 28 | 7 | 6,423 | 0 | 0 | 0 | 12 | 3.0 | 36.0 |
| 29 | 5 | 7,118 | 0 | 0 | 0 | 15 | 3.0 | 45.0 |
| 30 | 0 | 4,572 | 0 | 0 | 0 | 8 | 3.0 | 24.0 |
| 31 | 0 | 1,364 | 0 | 0 | 0 | 5 | 2.0 | 10.0 |
| 32-34 | 0 | 444 | 27 | 0 | 0 | 4 | 5.0 | 20.0 |
| 35 |  |  |  |  |  | 0 | 3.0 | 0.0 |
| 36 | 0 | 9 | 468 | 0 | 1 | 4 | 3.0 | 12.0 |
| 37 | 0 | 9 | 466 | 0 | 4 | 4 | 3.0 | 12.0 |
| 38-39 | 0 | 3 | 653 | 0 | 6 | 6 | 6.0 | 36.0 |
| 40 |  |  |  |  |  | 0 | 3.0 | 0.0 |
| Total | 546 | 24,169 | 1,614 | 0 | 11 |  | 40 | 267 |

Appendix E. 2. Weekly salmon harvest and effort in the Canadian Aboriginal and sport fisheries in the Alsek River, 2011.

| Aboriginal includes estimates of sport catch (kept and released) in Takhanne and Blanchard rivers; estimates based on salmon catch card information. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  |  | Total harvest | Sockeye |  |  | Total harvest | Coho |  |  | Total harvest |
|  | Recreational |  | Aboriginal |  | Recreational |  | Aboriginal |  | Recreational |  | Aboriginal |  |
| SW | Kept | Released |  |  | Kept | Released |  |  | Kept | Released |  |  |
| 24 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 25 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 26 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 27 | 7 | 3 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 28 | 17 | 22 | Weekly |  | 0 | 12 | Weekly |  | 0 | 0 | Weekly |  |
| 29 | 27 | 38 | Data |  | 0 | 13 | Data |  | 0 | 0 | Data |  |
| 30 | 42 | 87 | Not |  | 0 | 23 | Not |  | 0 | 0 | Not |  |
| 31 | 3 | 87 | Available |  | 0 | 60 | Available |  | 0 | 0 | vailable |  |
| 32 | 0 | 37 |  |  | 0 | 37 |  |  | 0 | 0 |  |  |
| 33 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 34 | 0 | 2 |  |  | 0 | 3 |  |  | 0 | 0 |  |  |
| 35 | 0 | 0 |  |  | 10 | 12 |  |  | 0 | 0 |  |  |
| 36 | 0 | 0 |  |  | 32 | 10 |  |  | 0 | 0 |  |  |
| 37 | 0 | 0 |  |  | 3 | 8 |  |  | 0 | 0 |  |  |
| 38 | 0 | 0 |  |  | 8 | 32 |  |  | 2 | 27 |  |  |
| 39 | 0 | 0 |  |  | 0 | 10 |  |  | 5 | 5 |  |  |
| 40 | 0 | 0 |  |  | 3 | 0 |  |  | 3 | 10 |  |  |
| 41 | 0 | 0 |  |  | 0 | 0 |  |  | 10 | 8 |  |  |
| 42 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 43 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 44 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 45 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 46 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| Total | 95 | 275 | 119 | 214 | 57 | 220 | 2,053 | 2,110 | 20 | 50 | 9 | 29 |
| Village Creek food fish |  |  | NA |  |  |  | NA |  |  |  | NA |  |
| Harvest at Klukshu River Weir |  |  | 3 |  |  |  | 262 |  |  |  | 9 |  |
| Food fish above Klukshu Weir |  |  | 58 |  |  |  | 358 |  |  |  | 0 |  |

Appendix E. 3. Daily counts of salmon passing through Klukshu River weir, 2011. Jack Chinook salmon included in the Chinook salmon counts.

| Date | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  |  | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 10-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 11-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 12-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 13-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 14-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 15-Jun | 2 | 2 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 16-Jun | 0 | 2 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 17-Jun | 1 | 3 | 0.002 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 18-Jun | 0 | 3 | 0.002 | 1 | 1 | 0.000 | 0 | 0 | 0.000 |
| 19-Jun | 2 | 5 | 0.003 | 4 | 5 | 0.000 | 0 | 0 | 0.000 |
| 20-Jun | 1 | 6 | 0.004 | 0 | 5 | 0.000 | 0 | 0 | 0.000 |
| 21-Jun | 0 | 6 | 0.004 | 2 | 7 | 0.000 | 0 | 0 | 0.000 |
| 22-Jun | 0 | 6 | 0.004 | 2 | 9 | 0.000 | 0 | 0 | 0.000 |
| 23-Jun | 2 | 8 | 0.005 | 2 | 11 | 0.001 | 0 | 0 | 0.000 |
| 24-Jun | 2 | 10 | 0.006 | 1 | 12 | 0.001 | 0 | 0 | 0.000 |
| 25-Jun | 1 | 11 | 0.007 | 3 | 15 | 0.001 | 0 | 0 | 0.000 |
| 26-Jun | 4 | 15 | 0.009 | 8 | 23 | 0.001 | 0 | 0 | 0.000 |
| 27-Jun | 1 | 16 | 0.010 | 9 | 32 | 0.001 | 0 | 0 | 0.000 |
| 28-Jun | 1 | 17 | 0.010 | 5 | 37 | 0.002 | 0 | 0 | 0.000 |
| 29-Jun | 2 | 19 | 0.011 | 6 | 43 | 0.002 | 0 | 0 | 0.000 |
| 30-Jun | 0 | 19 | 0.011 | 2 | 45 | 0.002 | 0 | 0 | 0.000 |
| 1-Jul | 0 | 19 | 0.011 | 29 | 74 | 0.003 | 0 | 0 | 0.000 |
| 2-Jul | 0 | 19 | 0.011 | 4 | 78 | 0.004 | 0 | 0 | 0.000 |
| 3-Jul | 0 | 19 | 0.011 | 6 | 84 | 0.004 | 0 | 0 | 0.000 |
| 4-Jul | 2 | 21 | 0.013 | 11 | 95 | 0.004 | 0 | 0 | 0.000 |
| 5-Jul | 5 | 26 | 0.016 | 3 | 98 | 0.005 | 0 | 0 | 0.000 |
| 6-Jul | 9 | 35 | 0.021 | 6 | 104 | 0.005 | 0 | 0 | 0.000 |
| 7-Jul | 19 | 54 | 0.032 | 19 | 123 | 0.006 | 0 | 0 | 0.000 |
| 8-Jul | 20 | 74 | 0.044 | 20 | 143 | 0.007 | 0 | 0 | 0.000 |
| 9-Jul | 8 | 82 | 0.049 | 9 | 152 | 0.007 | 0 | 0 | 0.000 |
| 10-Jul | 20 | 102 | 0.061 | 10 | 162 | 0.008 | 0 | 0 | 0.000 |
| 11-Jul | 16 | 118 | 0.071 | 41 | 203 | 0.009 | 0 | 0 | 0.000 |
| 12-Jul | 21 | 139 | 0.083 | 38 | 241 | 0.011 | 0 | 0 | 0.000 |
| 13-Jul | 44 | 183 | 0.110 | 11 | 252 | 0.012 | 0 | 0 | 0.000 |
| 14-Jul | 36 | 219 | 0.131 | 19 | 271 | 0.013 | 0 | 0 | 0.000 |
| 15-Jul | 75 | 294 | 0.176 | 30 | 301 | 0.014 | 0 | 0 | 0.000 |
| 16-Jul | 43 | 337 | 0.202 | 8 | 309 | 0.014 | 0 | 0 | 0.000 |
| 17-Jul | 24 | 361 | 0.216 | 7 | 316 | 0.015 | 0 | 0 | 0.000 |
| 18-Jul | 50 | 411 | 0.246 | 10 | 326 | 0.015 | 0 | 0 | 0.000 |
| 19-Jul | 194 | 605 | 0.362 | 32 | 358 | 0.017 | 0 | 0 | 0.000 |
| 20-Jul | 38 | 643 | 0.385 | 6 | 364 | 0.017 | 0 | 0 | 0.000 |
| 21-Jul | 177 | 820 | 0.491 | 101 | 465 | 0.022 | 0 | 0 | 0.000 |
| 22-Jul | 39 | 859 | 0.514 | 34 | 499 | 0.023 | 0 | 0 | 0.000 |
| 23-Jul | 151 | 1,010 | 0.605 | 135 | 634 | 0.030 | 0 | 0 | 0.000 |
| 24-Jul | 53 | 1,063 | 0.637 | 1 | 635 | 0.030 | 0 | 0 | 0.000 |
| 25-Jul | 24 | 1,087 | 0.651 | 0 | 635 | 0.030 | 0 | 0 | 0.000 |
| 26-Jul | 38 | 1,125 | 0.674 | 3 | 638 | 0.030 | 0 | 0 | 0.000 |
| 27-Jul | 56 | 1,181 | 0.707 | 7 | 645 | 0.030 | 0 | 0 | 0.000 |
| 28-Jul | 99 | 1,280 | 0.766 | 226 | 871 | 0.041 | 0 | 0 | 0.000 |
| 29-Jul | 29 | 1,309 | 0.784 | 14 | 885 | 0.041 | 0 | 0 | 0.000 |
| 30-Jul | 38 | 1,347 | 0.807 | 59 | 944 | 0.044 | 0 | 0 | 0.000 |
| 31-Jul | 87 | 1,434 | 0.859 | 72 | 1,016 | 0.048 | 0 | 0 | 0.000 |
| 1-Aug | 35 | 1,469 | 0.880 | 136 | 1,152 | 0.054 | 0 | 0 | 0.000 |
| 2-Aug | 19 | 1,488 | 0.891 | 49 | 1,201 | 0.056 | 0 | 0 | 0.000 |
| 3-Aug | 1 | 1,489 | 0.892 | 1 | 1,202 | 0.056 | 0 | 0 | 0.000 |
| 4-Aug | 44 | 1,533 | 0.918 | 137 | 1,339 | 0.063 | 0 | 0 | 0.000 |
| 5-Aug | 30 | 1,563 | 0.936 | 384 | 1,723 | 0.081 | 0 | 0 | 0.000 |
| 6-Aug | 8 | 1,571 | 0.941 | 38 | 1,761 | 0.082 | 0 | 0 | 0.000 |
| 7-Aug | 6 | 1,577 | 0.944 | 440 | 2,201 | 0.103 | 0 | 0 | 0.000 |
| 8-Aug | 7 | 1,584 | 0.949 | 827 | 3,028 | 0.142 | 0 | 0 | 0.000 |
| 9-Aug | 21 | 1,605 | 0.961 | 587 | 3,615 | 0.169 | 0 | 0 | 0.000 |
| 10-Aug | 6 | 1,611 | 0.965 | 558 | 4,173 | 0.195 | 0 | 0 | 0.000 |
| 11-Aug | 10 | 1,621 | 0.971 | 522 | 4,695 | 0.220 | 0 | 0 | 0.000 |
| 12-Aug | 1 | 1,622 | 0.971 | 165 | 4,860 | 0.227 | 0 | 0 | 0.000 |
| 13-Aug | 21 | 1,643 | 0.984 | 402 | 5,262 | 0.246 | 0 | 0 | 0.000 |
| 14-Aug | 1 | 1,644 | 0.984 | 57 | 5,319 | 0.249 | 0 | 0 | 0.000 |

- Continued -

Appendix E.3. Page 2 of 2.

| Date | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  |  | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 15-Aug | 3 | 1,647 | 0.986 | 316 | 5,635 | 0.263 | 0 | 0 | 0.000 |
| 16-Aug | 3 | 1,650 | 0.988 | 366 | 6,001 | 0.281 | 0 | 0 | 0.000 |
| 17-Aug | 4 | 1,654 | 0.990 | 958 | 6,959 | 0.325 | 0 | 0 | 0.000 |
| 18-Aug | 1 | 1,655 | 0.991 | 237 | 7,196 | 0.336 | 0 | 0 | 0.000 |
| 19-Aug | 0 | 1,655 | 0.991 | 1,074 | 8,270 | 0.387 | 0 | 0 | 0.000 |
| 20-Aug | 4 | 1,659 | 0.993 | 1,280 | 9,550 | 0.446 | 0 | 0 | 0.000 |
| 21-Aug | 4 | 1,663 | 0.996 | 976 | 10,526 | 0.492 | 0 | 0 | 0.000 |
| 22-Aug | 3 | 1,666 | 0.998 | 386 | 10,912 | 0.510 | 0 | 0 | 0.000 |
| 23-Aug | 1 | 1,667 | 0.998 | 409 | 11,321 | 0.529 | 0 | 0 | 0.000 |
| 24-Aug | 0 | 1,667 | 0.998 | 1,618 | 12,939 | 0.605 | 0 | 0 | 0.000 |
| 25-Aug | 1 | 1,668 | 0.999 | 1,547 | 14,486 | 0.677 | 0 | 0 | 0.000 |
| 26-Aug | 0 | 1,668 | 0.999 | 241 | 14,727 | 0.689 | 0 | 0 | 0.000 |
| 27-Aug | 0 | 1,668 | 0.999 | 419 | 15,146 | 0.708 | 0 | 0 | 0.000 |
| 28-Aug | 0 | 1,668 | 0.999 | 634 | 15,780 | 0.738 | 0 | 0 | 0.000 |
| 29-Aug | 0 | 1,668 | 0.999 | 788 | 16,568 | 0.775 | 0 | 0 | 0.000 |
| 30-Aug | 0 | 1,668 | 0.999 | 988 | 17,556 | 0.821 | 0 | 0 | 0.000 |
| 31-Aug | 0 | 1,668 | 0.999 | 130 | 17,686 | 0.827 | 0 | 0 | 0.000 |
| 1-Sep | 2 | 1,670 | 1.000 | 385 | 18,071 | 0.845 | 0 | 0 | 0.000 |
| 2-Sep | 0 | 1,670 | 1.000 | 242 | 18,313 | 0.856 | 0 | 0 | 0.000 |
| 3-Sep | 0 | 1,670 | 1.000 | 374 | 18,687 | 0.874 | 0 | 0 | 0.000 |
| 4-Sep | 0 | 1,670 | 1.000 | 517 | 19,204 | 0.898 | 0 | 0 | 0.000 |
| 5-Sep | 0 | 1,670 | 1.000 | 86 | 19,290 | 0.902 | 0 | 0 | 0.000 |
| 6-Sep | 0 | 1,670 | 1.000 | 306 | 19,596 | 0.916 | 0 | 0 | 0.000 |
| 7-Sep | 0 | 1,670 | 1.000 | 39 | 19,635 | 0.918 | 0 | 0 | 0.000 |
| 8-Sep | 0 | 1,670 | 1.000 | 33 | 19,668 | 0.920 | 0 | 0 | 0.000 |
| 9-Sep | 0 | 1,670 | 1.000 | 257 | 19,925 | 0.932 | 0 | 0 | 0.000 |
| 10-Sep | 0 | 1,670 | 1.000 | 20 | 19,945 | 0.932 | 0 | 0 | 0.000 |
| 11-Sep | 0 | 1,670 | 1.000 | 17 | 19,962 | 0.933 | 0 | 0 | 0.000 |
| 12-Sep | 0 | 1,670 | 1.000 | 6 | 19,968 | 0.934 | 0 | 0 | 0.000 |
| 13-Sep | 0 | 1,670 | 1.000 | 262 | 20,230 | 0.946 | 1 | 1 | 0.000 |
| 14-Sep | 0 | 1,670 | 1.000 | 15 | 20,245 | 0.947 | 0 | 1 | 0.000 |
| 15-Sep | 0 | 1,670 | 1.000 | 0 | 20,245 | 0.947 | 0 | 1 | 0.000 |
| 16-Sep | 0 | 1,670 | 1.000 | 1 | 20,246 | 0.947 | 0 | 1 | 0.000 |
| 17-Sep | 0 | 1,670 | 1.000 | 8 | 20,254 | 0.947 | 0 | 1 | 0.000 |
| 18-Sep | 0 | 1,670 | 1.000 | 98 | 20,352 | 0.952 | 2 | 3 | 0.001 |
| 19-Sep | 0 | 1,670 | 1.000 | 83 | 20,435 | 0.955 | 1 | 4 | 0.002 |
| 20-Sep | 0 | 1,670 | 1.000 | 120 | 20,555 | 0.961 | 2 | 6 | 0.003 |
| 21-Sep | 0 | 1,670 | 1.000 | 29 | 20,584 | 0.962 | 3 | 9 | 0.004 |
| 22-Sep | 0 | 1,670 | 1.000 | 22 | 20,606 | 0.963 | 2 | 11 | 0.005 |
| 23-Sep | 0 | 1,670 | 1.000 | 21 | 20,627 | 0.964 | 2 | 13 | 0.006 |
| 24-Sep | 0 | 1,670 | 1.000 | 47 | 20,674 | 0.967 | 5 | 18 | 0.008 |
| 25-Sep | 0 | 1,670 | 1.000 | 10 | 20,684 | 0.967 | 11 | 29 | 0.014 |
| 26-Sep | 0 | 1,670 | 1.000 | 35 | 20,719 | 0.969 | 10 | 39 | 0.018 |
| 27-Sep | 0 | 1,670 | 1.000 | 18 | 20,737 | 0.970 | 9 | 48 | 0.023 |
| 28-Sep | 0 | 1,670 | 1.000 | 28 | 20,765 | 0.971 | 8 | 56 | 0.026 |
| 29-Sep | 0 | 1,670 | 1.000 | 184 | 20,949 | 0.979 | 470 | 526 | 0.248 |
| 30-Sep | 0 | 1,670 | 1.000 | 34 | 20,983 | 0.981 | 138 | 664 | 0.313 |
| 1-Oct | 0 | 1,670 | 1.000 | 11 | 20,994 | 0.982 | 95 | 759 | 0.358 |
| 2-Oct | 0 | 1,670 | 1.000 | 5 | 20,999 | 0.982 | 19 | 778 | 0.367 |
| 3-Oct | 0 | 1,670 | 1.000 | 17 | 21,016 | 0.983 | 29 | 807 | 0.381 |
| 4-Oct | 0 | 1,670 | 1.000 | 123 | 21,139 | 0.988 | 612 | 1,419 | 0.670 |
| 5-Oct | 0 | 1,670 | 1.000 | 250 | 21,389 | 1.000 | 700 | 2,119 | 1.000 |
| 6-Oct |  | 1,670 | 1.000 |  | 21,389 | 1.000 |  | 2,119 | 1.000 |
| 7-Oct |  | 1,670 | 1.000 |  | 21,389 | 1.000 |  | 2,119 | 1.000 |
| Total Count |  | 1,670 |  |  | 21,389 |  |  | 2,119 |  |
| Adjustments |  | 0 |  |  | 0 |  |  | 0 |  |
| Harvest at weir |  | 3 |  |  | 262 |  |  | 9 |  |
| Harvest above weir |  | 58 |  |  | 358 |  |  | 0 |  |
| Total Escapement |  | 1,609 |  |  | 20,769 |  |  | 2,110 |  |

Appendix E. 4. Salmon harvest and effort in the U.S. Commercial fishery in the Alsek River, 1960 to 2011.

| Year | Chinook | Sockeye | Coho | Pink | Chum | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Boat Days | Days Open |
| 1960 |  |  |  |  |  |  |  |
| 1961 | 2,120 | 23,339 | 7,679 | 84 | 86 | 1,436 | 80.0 |
| 1962 |  |  |  |  |  |  |  |
| 1963 | 131 | 6,055 | 7,164 | 42 | 34 | 692 | 68.0 |
| 1964 | 591 | 14,127 | 9,760 | 144 | 367 | 592 | 68.0 |
| 1965 | 719 | 28,487 | 9,638 | 10 | 72 | 1,016 | 72.0 |
| 1966 | 934 | 29,091 | 2,688 | 22 | 240 | 500 | 64.0 |
| 1967 | 225 | 11,108 | 10,090 | 107 | 30 | 600 | 68.0 |
| 1968 | 215 | 26,918 | 10,586 | 82 | 240 | 664 | 68.0 |
| 1969 | 685 | 29,259 | 2,493 | 38 | 61 | 807 | 61.0 |
| 1970 | 1,128 | 22,654 | 2,188 | 6 | 26 | 670 | 52.3 |
| 1971 | 1,222 | 25,314 | 4,730 | 3 | 120 | 794 | 60.5 |
| 1972 | 1,827 | 18,717 | 7,296 | 37 | 280 | 640 | 65.0 |
| 1973 | 1,757 | 26,523 | 4,395 | 26 | 283 | 894 | 52.0 |
| 1974 | 1,162 | 16,747 | 7,046 | 13 | 107 | 699 | 46.0 |
| 1975 | 1,379 | 13,842 | 2,230 | 16 | 261 | 738 | 58.0 |
| 1976 | 512 | 19,741 | 4,883 | 0 | 368 | 550 | 58.5 |
| 1977 | 1,402 | 40,780 | 11,817 | 689 | 483 | 882 | 57.0 |
| 1978 | 2,441 | 50,580 | 13,913 | 59 | 233 | 929 | 57.0 |
| 1979 | 2,525 | 41,449 | 6,158 | 142 | 263 | 1,110 | 51.0 |
| 1980 | 1,382 | 25,522 | 7,863 | 21 | 1,005 | 773 | 42.0 |
| 1981 | 779 | 23,641 | 10,232 | 65 | 816 | 588 | 40.0 |
| 1982 | 532 | 27,443 | 6,534 | 6 | 358 | 552 | 33.0 |
| 1983 | 94 | 18,293 | 5,253 | 20 | 432 | 487 | 38.0 |
| 1984 | 60 | 14,326 | 7,868 | 24 | 1,610 | 429 | 33.0 |
| 1985 | 213 | 5,792 | 5,490 | 3 | 427 | 277 | 33.0 |
| 1986 | 481 | 24,791 | 1,344 | 13 | 462 | 517 | 34.0 |
| 1987 | 347 | 11,393 | 2,517 | 0 | 1,924 | 388 | 40.5 |
| 1988 | 223 | 6,286 | 4,986 | 7 | 908 | 324 | 34.0 |
| 1989 | 228 | 13,513 | 5,972 | 2 | 1,031 | 378 | 38.0 |
| 1990 | 78 | 17,013 | 1,437 | 0 | 495 | 374 | 38.0 |
| 1991 | 103 | 17,542 | 5,956 | 0 | 105 | 530 | 49.0 |
| 1992 | 301 | 19,298 | 3,116 | 1 | 120 | 372 | 46.0 |
| 1993 | 300 | 20,043 | 1,215 | 0 | 49 | 372 | 40.0 |
| 1994 | 805 | 19,639 | 4,182 | 0 | 32 | 403 | 61.0 |
| 1995 | 670 | 33,112 | 14,184 | 13 | 347 | 879 | 53.5 |
| 1996 | 772 | 15,182 | 5,514 | 0 | 165 | 419 | 51.0 |
| 1997 | 568 | 25,879 | 11,427 | 0 | 34 | 611 | 59.0 |
| 1998 | 550 | 15,007 | 4,925 | 1 | 145 | 358 | 41.0 |
| 1999 | 482 | 11,441 | 5,660 | 0 | 112 | 319 | 44.0 |
| 2000 | 677 | 9,522 | 5,103 | 5 | 130 | 307 | 37.0 |
| 2001 | 541 | 13,995 | 2,909 | 8 | 17 | 234 | 50.0 |
| 2002 | 700 | 16,918 | 9,525 | 0 | 1 | 270 | 73.0 |
| 2003 | 937 | 39,698 | 47 | 0 | 0 | 271 | 60.0 |
| 2004 | 656 | 18,030 | 2,475 | 0 | 2 | 280 | 76.5 |
| 2005 | 286 | 7,572 | 1,196 | 0 | 0 | 171 | 41.0 |
| 2006 | 530 | 9,842 | 701 | 2 | 3 | 248 | 45.0 |
| 2007 | 400 | 19,795 | 134 | 0 | 0 | 199 | 47.0 |
| 2008 | 128 | 2,815 | 2,668 | 0 | 0 | 177 | 34.0 |
| 2009 | 602 | 12,906 | 3,454 | 0 | 20 | 200 | 44.0 |
| 2010 | 273 | 12,668 | 1,884 | 0 | 9 | 192 | 37.0 |
| 2011 | 546 | 24,169 | 1,614 | 0 | 11 | 235 | 46.0 |
| Averages |  |  |  |  |  |  |  |
| 61-10 | 724 | 19,956 | 5,443 | 34 | 286 | 527 | 51 |
| 01-10 | 505 | 15,424 | 2,499 | 1 | 5 | 224 | 51 |

Appendix E. 5. Salmon harvest in the U.S. Chinook salmon test fishery in the Alsek River, 2005-2011.

| Year | Chinook | Sockeye |
| :--- | :---: | :---: |
| 2005 | 423 | 222 |
| 2006 | 135 | 224 |
| 2007 | 347 | 367 |
| 2008 | 465 | 55 |
| -- |  |  |
| 2011 | 421 | 157 |

Appendix E. 6. Salmon harvest in the U.S. subsistence and personal use fisheries in the Alsek River, 1976-2011.

| Year | Chinook | Sockeye | Coho |
| :---: | :---: | :---: | :---: |
| 1976 | 13 | 51 | 5 |
| 1977 | 18 | 113 | 0 |
| 1978 |  |  |  |
| 1979 | 80 | 35 | 70 |
| 1980 | 57 | 41 | 62 |
| 1981 | 32 | 50 | 74 |
| 1982 | 87 | 75 | 50 |
| 1983 | 31 | 25 | 50 |
| 1984 |  |  |  |
| 1985 | 16 | 95 | 0 |
| 1986 | 22 | 241 | 45 |
| 1987 | 27 | 173 | 31 |
| 1988 | 13 | 148 | 9 |
| 1989 | 20 | 131 | 34 |
| 1990 | 85 | 144 | 12 |
| 1991 | 38 | 104 | 0 |
| 1992 | 15 | 37 | 44 |
| 1993 | 38 | 96 | 28 |
| 1994 | 60 | 47 | 20 |
| 1995 | 51 | 167 | 53 |
| 1996 | 60 | 67 | 28 |
| 1997 | 38 | 273 | 26 |
| 1998 | 63 | 158 | 42 |
| 1999 | 44 | 152 | 21 |
| 2000 | 73 | 146 | 31 |
| 2001 | 19 | 72 | 45 |
| 2002 | 60 | 232 | 35 |
| 2003 | 24 | 176 | 27 |
| 2004 | 51 | 224 | 21 |
| 2005 | 31 | 63 | 62 |
| 2006 | 47 | 272 | 23 |
| 2007 | 79 | 298 | 27 |
| 2008 | 34 | 200 | 28 |
| 2009 | 57 | 245 | 17 |
| 2010 | 70 | 259 | 0 |
| 2011 | 42 | 175 | 18 |
| Averages |  |  |  |
| 76-10 | 44 | 140 | 31 |
| 01-10 | 47 | 204 | 29 |

Appendix E. 7. Salmon catches in the Canadian Aboriginal and recreational fisheries in the Alsek River, 1976 to 2011.

| Year | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aboriginal | Recreational | Total | Aboriginal | Recreational | Total | Aboriginal | Recreational | Total |
| 1976 | 150 | 200 | 350 | 4,000 | 600 | 4,600 | 0 | 100 | 100 |
| 1977 | 350 | 300 | 650 | 10,000 | 500 | 10,500 | 0 | 200 | 200 |
| 1978 | 350 | 300 | 650 | 8,000 | 500 | 8,500 | 0 | 200 | 200 |
| 1979 | 1,300 | 650 | 1,950 | 7,000 | 750 | 7,750 | 0 | 100 | 100 |
| 1980 | 150 | 200 | 350 | 800 | 600 | 1,400 | 0 | 200 | 200 |
| 1981 | 150 | 315 | 465 | 2,000 | 808 | 2,808 | 0 | 109 | 109 |
| 1982 | 400 | 224 | 624 | 5,000 | 755 | 5,755 | 0 | 109 | 109 |
| 1983 | 300 | 312 | 612 | 2,550 | 732 | 3,282 | 0 | 16 | 16 |
| 1984 | 100 | 475 | 575 | 2,600 | 289 | 2,889 | 0 | 20 | 20 |
| 1985 | 175 | 250 | 425 | 1,361 | 100 | 1,461 | 50 | 100 | 150 |
| 1986 | 102 | 165 | 267 | 1,914 | 307 | 2,221 | 0 | 9 | 9 |
| 1987 | 125 | 367 | 492 | 1,158 | 383 | 1,541 | 0 | 49 | 49 |
| 1988 | 43 | 249 | 292 | 1,604 | 322 | 1,926 | 0 | 192 | 192 |
| 1989 | 234 | 272 | 506 | 1,851 | 319 | 2,170 | 0 | 227 | 227 |
| 1990 | 202 | 555 | 757 | 2,314 | 392 | 2,706 | 0 | 75 | 75 |
| 1991 | 509 | 388 | 897 | 2,111 | 303 | 2,414 | 0 | 227 | 227 |
| 1992 | 148 | 103 | 251 | 2,592 | 582 | 3,174 | 0 | 213 | 213 |
| 1993 | 152 | 171 | 323 | 2,361 | 329 | 2,690 | 0 | 37 | 37 |
| 1994 | 289 | 197 | 486 | 1,745 | 261 | 2,006 | 8 | 69 | 77 |
| 1995 | 580 | 1,044 | 1,624 | 1,745 | 682 | 2,427 | 83 | 527 | 610 |
| 1996 | 448 | 650 | 1,098 | 1,204 | 157 | 1,361 | 56 | 9 | 65 |
| 1997 | 232 | 298 | 530 | 484 | 36 | 520 | 5 | 0 | 5 |
| 1998 | 171 | 175 | 346 | 567 | 18 | 585 | 72 | 40 | 112 |
| 1999 | 238 | 174 | 412 | 554 | 0 | 554 | 0 | 28 | 28 |
| 2000 | 65 | 77 | 142 | 745 | 0 | 745 | 51 | 1 | 52 |
| 2001 | 120 | 157 | 277 | 1,173 | 4 | 1,177 | 5 | 94 | 99 |
| 2002 | 120 | 197 | 317 | 2,194 | 61 | 2,255 | 6 | 283 | 289 |
| 2003 | 90 | 138 | 228 | 2,734 | 61 | 2,795 | 0 | 192 | 192 |
| 2004 | 139 | 46 | 185 | 1,875 | 247 | 2,122 | 0 | 127 | 127 |
| 2005 | 58 | 56 | 114 | 581 | 13 | 594 | 20 | 51 | 71 |
| 2006 | 2 | 17 | 19 | 1,321 | 6 | 1,327 | 0 | 0 | 0 |
| 2007 | 1 | 40 | 41 | 1,330 | 10 | 1,340 | 1 | 0 | 1 |
| 2008 | 0 | 7 | 7 | 0 | 0 | 0 | 26 | 8 | 34 |
| 2009 | 105 | 20 | 125 | 715 | 2 | 717 | 3 | 0 | 3 |
| 2010 | 197 | 97 | 294 | 1,704 | 12 | 1,716 | 4 | 3 | 7 |
| 2011 | 119 | 95 | 214 | 2,053 | 57 | 2,110 | 9 | 20 | 29 |
| Averages |  |  |  |  |  |  |  |  |  |
| 76-10 | 223 | 254 | 477 | 2,282 | 290 | 2,572 | 11 | 103 | 114 |
| 01-10 | 83 | 77 | 161 | 1,363 | 42 | 1,404 | 7 | 76 | 82 |

Appendix E. 8. Canadian harvest of Chinook, sockeye, and coho salmon at or above the Klukshu weir, 2009 to 2011.

|  | Chinook |  |  | sockeye |  |  | coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Village Creek | At weir | Above weir | Village Creek | At weir | Above weir | Village Creek | At weir | Above weir |
| 2009 | NA | 52 | 1 | NA | 128 | 75 | NA | 3 | 0 |
| 2010 | NA | 99 | 0 | NA | 323 | 91 | NA | 4 | 0 |
| 2011 | NA | 58 | 3 | NA | 358 | 262 | NA | 9 | 0 |

## Appendix E. 9. Annual Klukshu River weir counts of Chinook, sockeye, and coho salmon, 1976 to 2011.

The escapement count equals the weir count minus the aboriginal fishery harvest above the weir and brood stock taken. The remainder of the food fishery harvest occurred below the weir, at Village Creek, and Blanchard and Takhanne rivers. Jack Chinook salmon are included in Chinook counts.
Coho counts are partial counts; weir is removed prior to the end of the run.

| Year | Chinook |  | Sockeye |  |  |  | Coho |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Escape | Early (to August 16) | Late | Total | Escape | Count | Escape |
| 1976 | 1,278 | 1,153 | 181 | 11,510 | 11,691 | 7,941 | 1,572 |  |
| 1977 | 3,144 | 2,894 | 8,931 | 17,860 | 26,791 | 15,441 | 2,758 |  |
| 1978 | 2,976 | 2,676 | 2,508 | 24,359 | 26,867 | 19,017 | 30 |  |
| 1979 | 4,404 | 2,454 | 977 | 11,334 | 12,311 | 7,051 | 175 |  |
| 1980 | 2,637 | 2,487 | 1,008 | 10,742 | 11,750 | 10,850 | 704 |  |
| 1981 | 2,113 | 1,963 | 997 | 19,351 | 20,348 | 18,448 | 1,170 |  |
| 1982 | 2,369 | 1,969 | 7,758 | 25,941 | 33,699 | 28,899 | 189 |  |
| 1983 | 2,537 | 2,237 | 6,047 | 14,445 | 20,492 | 18,017 | 303 |  |
| 1984 | 1,672 | 1,572 | 2,769 | 9,958 | 12,727 | 10,227 | 1,402 |  |
| 1985 | 1,458 | 1,283 | 539 | 18,081 | 18,620 | 17,259 | 350 |  |
| 1986 | 2,709 | 2,607 | 416 | 24,434 | 24,850 | 22,936 | 71 |  |
| 1987 | 2,616 | 2,491 | 3,269 | 7,235 | 10,504 | 9,346 | 202 |  |
| 1988 | 2,037 | 1,994 | 585 | 8,756 | 9,341 | 7,737 | 2,774 |  |
| 1989 | 2,456 | 2,289 | 3,400 | 20,142 | 23,542 | 21,636 | 2,219 |  |
| 1990 | 1,915 | 1,742 | 1,316 | 24,679 | 25,995 | 24,607 | 315 |  |
| 1991 | 2,489 | 2,248 | 1,924 | 17,053 | 18,977 | 17,645 | 8,540 | 8,478 |
| 1992 | 1,367 | 1,242 | 11,339 | 8,428 | 19,767 | 18,269 | 1,145 | 1,145 |
| 1993 | 3,302 | 3,220 | 5,369 | 11,371 | 16,740 | 14,921 | 788 | 788 |
| 1994 | 3,727 | 3,628 | 3,247 | 11,791 | 15,038 | 13,892 | 1,232 | 1,232 |
| 1995 | 5,678 | 5,394 | 2,289 | 18,407 | 20,696 | 19,817 | 3,614 | 3,564 |
| 1996 | 3,599 | 3,382 | 1,502 | 6,818 | 8,320 | 7,891 | 3,465 | 3,465 |
| 1997 | 2,989 | 2,829 | 6,565 | 4,931 | 11,496 | 11,303 | 307 | 302 |
| 1998 | 1,364 | 1,347 | 597 | 12,994 | 13,591 | 13,580 | 1,961 | 1,961 |
| 1999 | 2,193 | 2,168 | 371 | 5,010 | 5,381 | 5,101 | 2,531 | 2,531 |
| 2000 | 1,365 | 1,321 | 237 | 5,314 | 5,551 | 5,422 | 4,832 | 4,791 |
| 2001 | 1,825 | 1,738 | 908 | 9,382 | 10,290 | 9,329 | 748 | 746 |
| 2002 | 2,240 | 2,134 | 11,904 | 13,807 | 25,711 | 23,587 | 9,921 | 9,921 |
| 2003 | 1,737 | 1,661 | 3,084 | 31,278 | 34,362 | 32,120 | 3,689 | 3,689 |
| 2004 | 2,525 | 2,445 | 3,464 | 11,884 | 15,348 | 13,721 | 750 | 750 |
| 2005 | 1,070 | 963 | 994 | 2,379 | 3,373 | 3,167 | 683 | 663 |
| 2006 | 568 | 566 | 247 | 13,208 | 13,455 | 12,890 | 420 | 420 |
| 2007 | 677 | 676 | 2,725 | 6,231 | 8,956 | 8,310 | 300 | 299 |
| 2008 | 466 | 466 | 43 | 2,698 | 2,741 | 2,741 | 4,275 | 4,249 |
| 2009 | 1,571 | 1,518 | 1,247 | 4,484 | 5,731 | 5,528 | 424 | 421 |
| 2010 | 2,358 | 2,259 | 5,073 | 13,887 | 18,960 | 18,546 | 2,365 | 2,361 |
| 2011 | 1,671 | 1,610 | 5,635 | 15,767 | 21,402 | 20,782 | 2,119 | 2,110 |
| Averages |  |  |  |  |  |  |  |  |
| 76-10 | 2,269 | 2,086 | 2,967 | 13,148 | 16,115 | 14,205 | 1,892 |  |
| 01-10 | 1,504 | 1,443 | 2,969 | 10,924 | 13,893 | 12,994 | 2,358 | 2,352 |

Appendix E. 10. Alsek River sockeye salmon escapement 2000 to 2011.
The 2000-2004 estimates are based on a mark-recapture study; starting in 2005 estimates based on GSI analysis and the expansion of the Klukshu River weir count.

| Year | Inriver Run Estimate | CI |  | Canadian Harvest | Spawning Escapement | U.S. <br> Harvest | Total <br> Run | Percent <br> Klukshu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Lower | Upper |  |  |  |  |  |
| 2000 | 37,887 | 23,410 | 52,365 | 745 | 37,142 | 9,668 | 47,555 | 14.7\% |
| 2001 | 31,164 | 23,143 | 39,185 | 1,177 | 29,987 | 14,067 | 45,231 | 33.0\% |
| 2002 | 95,427 | 55,893 | 134,961 | 2,255 | 93,172 | 17,150 | 112,577 | 26.9\% |
| 2003 | 103,507 | 74,350 | 132,664 | 2,795 | 100,712 | 39,874 | 143,381 | 33.2\% |
| 2004 | 83,703 | 39,566 | 127,841 | 2,122 | 81,581 | 18,254 | 101,957 | 18.3\% |
| 2005 | 57,817 | 21,907 | 93,727 | 594 | 57,223 | 7,857 | 65,674 | 5.8\% |
| 2006 | 48,901 | 41,234 | 56,569 | 1,327 | 47,574 | 10,338 | 59,239 | 27.5\% |
| --- |  |  |  |  |  |  |  |  |
| 2011 | 86,009 | 72,970 | 99,049 | 2,110 | 83,899 | 24,501 | 110,510 | 26.6\% |
| Averages |  |  |  |  |  |  |  |  |
| 00-06, 1 | 68,052 |  |  | 1,641 | 66,411 | 17,714 | 85,766 | 23.3\% |

Appendix E. 11. Alsek River sockeye salmon counts from U.S. and Canadian aerial surveys and from the electronic counter at Village Creek, 1985-2011.
Surveys not made every year at each tributary. Canaidan surveys-include several streams from Lo-Fog to Goat Creek. Village Creek counter 1986-2011.

| Year | U.S. Aerial Surveys |  |  |  | Canada Aerial Surveys |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Basin Creek | Cabin <br> Creek | Muddy Creek | Tanis <br> River | Tatshenshini River | Neskataheen Lake | Village Creek Counter |
| 1985 | 2,600 |  |  | 2,200 |  |  |  |
| 1986 | 100 |  | 300 | 2,700 | 536 | 750 | 1,490 |
| 1987 | 350 | 220 |  | 1,600 |  |  | 1,875 |
| 1988 | 500 |  |  | 750 | 433 | 456 | 433 |
| 1989 | 320 |  |  | 680 | 1,689 | 1,700 | 9,569 |
| 1990 | 275 | 300 |  | 3,500 |  |  | 5,313 |
| 1991 |  |  |  | 800 |  |  | 86 |
| 1992 | 1,000 | 10 |  | 50 |  |  | 7,447 |
| 1993 | 4,800 |  |  | 900 |  |  | 2,104 |
| 1994 | 250 |  |  | 600 | 366 |  | 3,921 |
| 1995 | 2,700 |  |  | 350 |  |  | 4,042 |
| 1996 | 325 |  |  | 650 |  |  | 1,583 |
| 1997 | 600 |  |  | 350 |  |  | 2,267 |
| 1998 |  |  |  | 130 |  |  | 826 |
| $1999{ }^{\text {a }}$ | 30 |  |  | 800 |  |  | NA |
| 2000 | 25 |  |  | 180 |  |  | 1,860 |
| 2001 |  |  |  | 700 |  |  | 1,897 |
| 2002 | No survey | own |  |  |  |  | 2,765 |
| 2003 | No survey | own |  |  |  |  | 2,778 |
| 2004 | No survey | own |  |  |  |  | 1,968 |
| 2005 | No survey | own |  |  |  |  | 1,408 |
| 2006 | No survey | own |  |  |  |  | 979 |
| 2007 | No survey | own |  |  |  |  | 10,254 |
| $2008^{\text {a }}$ | No survey | own |  |  |  | 1,000 | NA |
| 2009 | No survey | own |  |  |  | 4,500 | 887 |
| 2010 | No survey | own |  |  |  | 2,500 | 2,305 |
| 2011 | No survey | own |  |  |  | 150 | 355 |
| Averages |  |  |  |  |  |  |  |
| 86-10 |  |  |  |  |  |  | 2,959 |
| 01-10 |  |  |  |  |  |  | 2,805 |

${ }^{\mathrm{a}}$ No counts due to malfunction of the counter

Appendix E. 12. Aerial survey index counts of Alsek River Chinook salmon escapements, 1984 to 2011.

| Year | Blanchard River | Takhanne River | Goat <br> Creek |
| :---: | :---: | :---: | :---: |
| 1984 | 304 | 158 | 28 |
| 1985 | 232 | 184 |  |
| 1986 | 556 | 358 | 142 |
| 1987 | 624 | 395 | 85 |
| 1988 | 437 | 169 | 54 |
| 1989 | a | 158 | 34 |
| 1990 | a | 325 | 32 |
| 1991 | 121 | 86 | 63 |
| 1992 | 86 | 77 | 16 |
| 1993 | 326 | 351 | 50 |
| 1994 | 349 | 342 | 67 |
| 1995 | 338 | 260 | b |
| 1996 | 132 | 230 | 12 |
| 1997 | 109 | 190 |  |
| 1998 | 71 | 136 | 39 |
| 1999 | 371 | 194 | 51 |
| 2000 | 163 | 152 | 33 |
| 2001 | 543 | 287 | 21 |
| 2002 | 351 | 220 | 86 |
| 2003 | 127 | 105 | 10 |
| 2004 | 84 | 46 | no survey |
| 2005 | 112 | 47 | 7 |
| 2006 | 98 | 28 | 9 |
| 2007 | 39 | 32 | 45 |
| 2008 | 65 | 41 | 11 |
| 2009 | No surveys conducted |  |  |
| 2010 | No surveys conducted |  |  |
| 2011 | No surveys conducted |  |  |


| ${ }^{\mathrm{a}}$ Not surveyed due to poor visibility. 89,90 Blanchard |
| :--- |
| ${ }^{\mathrm{b}}$ Late survey date which missed the peak of spawning. |

## Appendix E. 13. Alsek River run of large Chinook salmon, 1997-2004. Estimates are based on a mark-recapture study and include the percent of Chinook salmon.

| Estimates are based on a mark-recapture study and include the percent of Chinook salmon spawning in the Klukshu River; the program was discontinued in 2005. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Inriver Run <br> Past <br> Dry Bay | CI |  | U.S. Harvest |  | Total Inriver Run | Canadian Harvest |  | Escapement |
|  |  |  |  | Dry Bay |  |  |  |  |  |
|  |  | Lower | Upper | Commercial | Subsistence |  | Aboriginal | Sport |  |
| 1997 | 15,250 | 9,081 | 21,418 | 568 | 38 | 15,856 | 232 | 298 | 14,720 |
| 1998 | 4,967 | 3,027 | 9,765 | 550 | 63 | 5,580 | 171 | 175 | 4,621 |
| 1999 | 11,969 | 8,243 | 22,035 | 482 | 44 | 12,495 | 238 | 174 | 11,557 |
| 2000 | 8,432 | 6,805 | 14,308 | 677 | 73 | 9,182 | 65 | 77 | 8,290 |
| 2001 | 11,246 | 9,146 | 14,303 | 541 | 19 | 11,806 | 120 | 157 | 10,969 |
| 2002 | 8,807 | 8,345 | 10,790 | 700 | 60 | 9,567 | 120 | 197 | 8,490 |
| 2003 | 5,105 | 4,302 | 6,310 | 937 | 24 | 6,066 | 90 | 138 | 4,877 |
| 2004 | 7,565 |  |  | 656 | 38 | 8,259 | 139 | 46 | 7,380 |
| Avera |  |  |  |  |  |  |  |  |  |
| 97-04 | 9,168 | 6,993 | 14,133 | 639 | 45 | 9,851 | 147 | 158 | 8,863 |

$\underline{\text { Klukshu weir count of large Chinook salmon as a percent of the Alsek escapement of large Chinook salmon }}$

|  | Weir Count |  |  |
| :--- | :---: | :---: | :---: |
| Year | All | Large | Percent <br> Klukshu |
| 1997 | 2,989 | 2,864 | $19.5 \%$ |
| 1998 | 1,364 | 1,184 | $25.6 \%$ |
| 1999 | 2,193 | 1,663 | $14.4 \%$ |
| 2000 | 1,365 | 1,218 | $14.7 \%$ |
| 2001 | 1,825 | 1,538 | $14.0 \%$ |
| 2002 | 2,240 | 2,067 | $24.3 \%$ |
| 2003 | 1,737 | 1,313 | $26.9 \%$ |
| 2004 | 2,525 | 2,376 | $32.2 \%$ |
| Averages |  |  |  |
| $97-04$ | 2,030 | 1,778 | $21.5 \%$ |

Appendix E. 14. Alsek River Chinook salmon escapement, 2007.


Appendix E. 15. Aerial survey counts of coho salmon from U.S. lower Alsek River tributaries, 1985-2000.

| Year | Combined U.S.Tributary Counts |
| :--- | :---: |
| 1985 | 450 |
| 1986 | 1,100 |
| 1987 | 100 |
| 1988 | 1,900 |
| 1989 | 1,990 |
| 1990 | 1,600 |
| $1991^{\text {a }}$ | 500 |
| $1992^{\text {a }}$ | 1,010 |
| $1993^{\mathrm{a}}$ | 800 |
| $1994^{\mathrm{a}}$ | 975 |
| 1995 | 1,050 |
| 1996 | 1,550 |
| 1997 | No surveys due to poor weather conditions |
| 1998 | 500 |
| 1999 | No surveys due to poor weather conditions |
| 2000 | 620 |
| ${ }^{\text {a }}$ Few systems surveyed. |  |

Appendix F. 1. Tahltan Lake egg collection, fry plants, and survivals, 1989-2011.
Numbers for eggs and fry are millions.
Eggs collected from Tahltan broodstock are used for outplants to both Tahltan and Tuya Lakes.

| Brood Year | Egg Take |  | Designated <br> Tahltan | Fry Planted | Percent <br> Fertilized | Survival |  | Thermal <br> Mark <br> Pattern |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Fertilized |  |  | Green |  |
|  | Target | Collected |  |  |  | Egg to Fry | Egg to Fry |  |
| 1989 ${ }^{\text {a }}$ | 3.000 | 2.955 |  | 2.955 | 1.042 | 0.704 | 0.501 | 0.353 | 1:1.4 |
| 1990 | 5.000 | 4.511 | 4.511 | 3.585 | 0.824 | 0.964 | 0.795 | 1:1.3 |
| 1991 | 5.000 | 4.246 | 1.514 | 1.415 | 0.949 | 0.984 | 0.935 | 1:1.4 |
| 1992 | 5.400 | 4.901 | 2.154 | 1.947 | 0.919 | 0.983 | 0.904 | 1:1.4+2.3 |
| 1993 | 6.000 | 6.140 | 0.969 | 0.904 | 0.946 | 0.986 | 0.933 | 1:1.6+2.5n |
| 1994 | 6.000 | 4.183 | 1.418 | 1.143 | 0.929 | 0.868 | 0.806 | 1:1.6 |
| 1995 | 6.000 | 6.891 | 3.008 | 2.296 | 0.906 | 0.843 | 0.763 | 1:1.7 |
| 1996 | 6.000 | 6.402 | 3.169 | 2.248 | 0.923 | 0.769 | 0.709 | 1:1.6 |
| 1997 | 6.000 | 3.221 | 2.700 | 1.900 | 0.812 | 0.867 | 0.704 | 2:1.6 |
| 1998 | 6.000 | 4.022 | 1.998 | 1.671 | 0.911 | 0.918 | 0.836 | 1:1.7 |
| 1999 | 6.000 | 3.826 | 2.773 | 2.228 | 0.901 | 0.892 | 0.804 | 2:1.6 |
| 2000 | 6.000 | 2.388 | 2.388 | 1.873 | 0.920 | 0.852 | 0.784 | 1:1.7 |
| 2001 | 6.000 | 3.306 | 3.306 | 2.533 | 0.829 | 0.924 | 0.766 | 2:1.6 |
| 2002 | 6.000 | 4.050 | 2.780 | 2.623 | 0.926 | 1.018 | 0.943 | 1:1.7 |
| 2003 | 6.000 | 5.391 | 2.661 | 2.226 | 0.899 | 0.931 | 0.836 | 1.6\&1:1.5+2.4 |
| 2004 | 6.000 | 5.701 | 1.966 | 1.226 | 0.803 | 0.777 | 0.624 | 1:1.6+2.6 |
| 2005 | 6.000 | 4.552 | 1.809 | 1.280 | 0.800 | 0.885 | 0.708 | 1:1.4+2.2 |
| 2006 | 6.000 | 4.364 | 2.954 | 2.466 | 0.910 | 0.917 | 0.835 | 1:1.3n,2.2 |
| 2007 | 6.000 | 4.060 | 2.209 | 1.540 | 0.756 | 0.922 | 0.697 | 1,2n,3H |
| 2008 | 6.000 | 3.386 | 2.398 | 1.395 | 0.850 | 0.684 | 0.582 | 1,4H |
| 2009 | 6.000 | 4.469 | 2.609 | 1.830 | 0.774 | 0.906 | 0.701 | 5,2H |
| 2010 | 6.000 | 6.000 | 3.097 | 1.230 | 0.824 | 0.482 | 0.397 | 4,3H |
| 2011 | 6.000 | 6.481 | 3.383 | 2.130 | 0.854 | 0.737 | 0.630 | 3,2n,2H |
| Averages |  |  |  |  |  |  |  |  |
| 89-10 | 5.745 | 4.498 | 2.516 | 1.845 | 0.864 | 0.858 | 0.746 |  |
| 01-10 | 6.000 | 4.528 | 2.579 | 1.835 | 0.837 | 0.845 | 0.709 |  |

Appendix F. 2. Tuya Lake fry plants and survivals, 1991-2011.

| Numbers for eggs and fry are millions. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brood Year | Egg Take Designated | $\begin{array}{r} \text { Fry } \\ \text { Planted } \end{array}$ | Percent Fertilized | Survival |  | Thermal <br> Mark <br> Pattern |
|  |  |  |  | Fertilized | Green |  |
|  | Tuya |  |  | Egg to Fry | Egg to Fry |  |
| 1991 | 2.732 | 1.632 | 0.944 | 0.633 | 0.597 | 1:1.6 |
| 1992 | 2.747 | 1.990 | 0.929 | 0.780 | 0.724 | 1:1.7 |
| 1993 | 5.171 | 4.691 | 0.911 | 0.996 | 0.907 | $1: 1.4+2.5 n$ |
| 1994 | 2.765 | 2.267 | 0.870 | 0.943 | 0.820 | 1:1.4 |
| 1995 | 3.883 | 2.474 | 0.795 | 0.802 | 0.637 | 1:1.4+2.4 |
| 1996 | 3.233 | 2.611 | 0.932 | 0.867 | 0.808 | 1:1.4 |
| 1997 | 0.521 | 0.433 | 0.911 | 0.912 | 0.830 | 2:1.4 |
| 1998 | 2.024 | 1.603 | 0.917 | 0.864 | 0.792 | 1:1.4 |
| 1999 | 1.053 | 0.867 | 0.960 | 0.857 | 0.823 | 2:1.4 |
| 2000 | All eggs collected in 2000 and 2001 were for backplant into Tahltan Lake. |  |  |  |  |  |
| 2001 |  |  |  |  |  |  |
| 2002 | 1.271 | 1.124 | 0.904 | 0.978 | 0.885 | 1:1.7+2.3 |
| 2003 | 2.730 | 2.445 | 0.927 | 0.966 | 0.895 | 1:1.4 |
| 2004 | 3.734 | 3.200 | 0.921 | 0.931 | 0.857 | 1:1.6+2.4 |
| 2005 | 2.744 | 2.138 | 0.900 | 0.866 | 0.779 | 1:1.4+2.4 |
| 2006 | 1.410 | 1.201 | 0.920 | 0.926 | 0.852 | 1:1.3,2.3 |
| 2007 | 1.852 | 1.537 | 0.856 | 0.970 | 0.830 | 2,1,3H |
| 2008 | 0.988 | 0.832 | 0.856 | 0.984 | 0.842 | 6H |
| 2009 | 1.860 | 0.976 | 0.794 | 0.661 | 0.525 | 3,4H |
| 2010 | 2.852 | 1.240 | 0.819 | 0.531 | 0.435 | 3n,3H |
| 2011 | 3.098 | 1.600 | 0.865 | 0.597 | 0.516 | 6 H |
| Averages |  |  |  |  |  |  |
| 91-10 | 2.421 | 1.848 | 0.892 | 0.859 | 0.769 |  |
| 01-10 | 2.160 | 1.633 | 0.877 | 0.868 | 0.767 |  |

Appendix F. 3. Tatsamenie Lake egg collection, fry plants, and survivals, 1989-2011.


[^4]Appendix F. 4. Trapper Lake egg collection, fry plants, and survivals, 1990-2011.

| Numbers for eggs and fry are millions. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brood Year | Egg Take |  |  | Fry <br> Planted | Percent Fertilized | Survival |  | Thermal <br> Mark Pattern | Last <br> Date <br> Released |
|  |  |  |  | Fertilized |  | Green |  |  |
|  | Target | Collected | Transport |  |  | Egg to Fry | Egg to Fry |  |  |
| 1990 | 2.500 | 2.314 | 0.934 |  | 0.934 |  |  | 0.404 | 5H | 22-Jun |
| 1991 | 2.500 | 2.953 | 1.811 | 1.811 |  |  | 0.613 | 6 H | 11-Jun |
| 1992 | 2.500 | 2.521 | 1.113 | 1.113 |  |  | 0.442 | 7H3 | 22-Jun |
| 1993 |  | 1.174 | 0.916 | 0.916 |  |  | 0.781 | 5H5n | 24-Jun |
| 1994 |  | 1.117 | 0.773 | 0.773 |  |  | 0.692 | 7H | 3-Jul |
| --- |  |  |  |  |  |  |  |  |  |
| 2006 | 1.000 | 1.109 | 0.897 | 0.897 | 0.897 | 0.905 | 0.808 | 6H | 20-Jun |
| 2007 | 1.000 | 0.900 | 0.353 | 0.353 | 0.604 | 0.650 | 0.393 | 4,2nH | 5-Jun |

Appendix G. 1. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2011.

CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  |  | 5 Reporting Groups |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2005 | 254 | Mean | 0.310 | 0.068 | 0.577 | 0.033 | 0.012 |
|  |  | SD | 0.051 | 0.022 | 0.055 | 0.015 | 0.007 |
|  |  | CI05 | 0.227 | 0.035 | 0.486 | 0.011 | 0.003 |
|  |  | CI95 | 0.396 | 0.107 | 0.666 | 0.060 | 0.025 |
| 2006 | 350 | Mean | 0.286 | 0.308 | 0.357 | 0.044 | 0.006 |
|  |  | SD | 0.042 | 0.034 | 0.046 | 0.017 | 0.004 |
|  |  | CI05 | 0.217 | 0.254 | 0.281 | 0.018 | 0.001 |
|  |  | CI95 | 0.357 | 0.365 | 0.432 | 0.074 | 0.015 |
| 2007 | 292 | Mean | 0.187 | 0.463 | 0.302 | 0.041 | 0.007 |
|  |  | SD | 0.037 | 0.036 | 0.042 | 0.014 | 0.006 |
|  |  | CI05 | 0.129 | 0.404 | 0.234 | 0.020 | 0.001 |
|  |  | CI95 | 0.249 | 0.522 | 0.373 | 0.066 | 0.019 |
|  |  | Mean | 0.211 | 0.522 | 0.175 | 0.082 | 0.009 |
|  |  | SD | 0.033 | 0.035 | 0.036 | 0.020 | 0.007 |
|  |  | CI05 | 0.158 | 0.464 | 0.120 | 0.051 | 0.001 |
|  |  | CI95 | 0.266 | 0.580 | 0.238 | 0.118 | 0.022 |
|  |  | Mean | 0.014 | 0.738 | 0.114 | 0.126 | 0.008 |
|  |  | SD | 0.020 | 0.040 | 0.033 | 0.029 | 0.007 |
|  |  | CI05 | 0.000 | 0.671 | 0.063 | 0.082 | 0.000 |
|  |  | CI95 | 0.057 | 0.801 | 0.171 | 0.176 | 0.022 |
|  |  | Mean | 0.093 | 0.648 | 0.122 | 0.110 | 0.028 |
|  |  | SD | 0.050 | 0.070 | 0.065 | 0.043 | 0.022 |
|  |  | CI05 | 0.020 | 0.531 | 0.026 | 0.047 | 0.002 |
|  |  | CI95 | 0.182 | 0.760 | 0.237 | 0.187 | 0.070 |
|  |  | Mean | 0.202 | 0.529 | 0.144 | 0.056 | 0.069 |
|  |  | SD | 0.064 | 0.071 | 0.059 | 0.035 | 0.032 |
|  |  | CI05 | 0.101 | 0.411 | 0.060 | 0.010 | 0.024 |
|  |  | CI95 | 0.311 | 0.644 | 0.251 | 0.123 | 0.129 |

Appendix G. 2. Annual estimates of large Chinook salmon harvested in the Alaskan
District 108 commercial drift gillnet fishery, 2011.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  | 5 Reporting Groups |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2010 | 72 | Estimate | 103 | 717 | 135 | 122 | 31 |
|  |  | SD | 55 | 77 | 72 | 48 | 24 |
|  |  | CI05 | 22 | 587 | 28 | 52 | 2 |
|  |  | CI95 | 202 | 842 | 263 | 207 | 78 |
| 2011 | 70 | Estimate | 566 | 1,480 | 404 | 158 | 192 |
|  |  | SD | 180 | 198 | 165 | 99 | 91 |
|  |  | CI05 | 283 | 1,152 | 167 | 27 | 67 |
|  |  | CI95 | 870 | 1,803 | 702 | 344 | 361 |

Appendix G. 3. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2011.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  |  | 5 Reporting Groups |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2005 | 226 | Mean | 0.220 | 0.134 | 0.518 | 0.082 | 0.045 |
|  |  | SD | 0.052 | 0.032 | 0.059 | 0.025 | 0.015 |
|  |  | CI05 | 0.136 | 0.084 | 0.421 | 0.043 | 0.024 |
|  |  | CI95 | 0.308 | 0.190 | 0.615 | 0.125 | 0.072 |
| 2006 | 201 | Mean | 0.156 | 0.177 | 0.561 | 0.086 | 0.019 |
|  |  | SD | 0.043 | 0.038 | 0.055 | 0.028 | 0.011 |
|  |  | CI05 | 0.089 | 0.118 | 0.471 | 0.045 | 0.005 |
|  |  | CI95 | 0.230 | 0.241 | 0.651 | 0.135 | 0.041 |
|  |  | Mean | 0.221 | 0.296 | 0.383 | 0.053 | 0.048 |
| 2007 | 200 | SD | 0.047 | 0.040 | 0.054 | 0.021 | 0.017 |
|  |  | CI05 | 0.145 | 0.232 | 0.295 | 0.023 | 0.024 |
|  |  | CI95 | 0.301 | 0.362 | 0.473 | 0.090 | 0.079 |
|  |  | Mean | 0.284 | 0.251 | 0.330 | 0.089 | 0.046 |
|  |  | SD | 0.048 | 0.039 | 0.055 | 0.029 | 0.015 |
|  |  | CI05 | 0.206 | 0.189 | 0.242 | 0.047 | 0.024 |
|  |  | CI95 | 0.365 | 0.316 | 0.422 | 0.142 | 0.074 |
|  |  | Mean | 0.321 | 0.166 | 0.195 | 0.094 | 0.222 |
|  |  | SD | 0.047 | 0.033 | 0.046 | 0.035 | 0.035 |
|  |  | CI05 | 0.245 | 0.114 | 0.122 | 0.048 | 0.166 |
|  |  | CI95 | 0.400 | 0.224 | 0.275 | 0.164 | 0.280 |
|  |  | Mean | 0.206 | 0.257 | 0.340 | 0.116 | 0.080 |
|  |  | SD | 0.044 | 0.038 | 0.053 | 0.030 | 0.020 |
|  |  | CI05 | 0.136 | 0.197 | 0.254 | 0.070 | 0.050 |
|  |  | CI95 | 0.281 | 0.321 | 0.429 | 0.168 | 0.115 |
|  |  | Mean | 0.237 | 0.099 | 0.272 | 0.133 | 0.259 |
|  |  | SD | 0.047 | 0.028 | 0.061 | 0.037 | 0.037 |
|  |  | CI05 | 0.162 | 0.055 | 0.176 | 0.075 | 0.201 |
|  |  | CI95 | 0.317 | 0.148 | 0.377 | 0.197 | 0.322 |


| Appendix G. 4. Annual estimates of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2011. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CI05 is the lower credibility interval and CI95 is the upper credibility interval. |  |  |  |  |  |  |  |
| Year | Sample Size | Statistic | 5 Reporting Groups |  |  |  |  |
|  |  |  | Taku | Andrew | Stikine | SSEAK | Other |
| 2010 | 72 | Estimate | 221 | 275 | 364 | 125 | 86 |
|  |  | SD | 47 | 41 | 57 | 32 | 21 |
|  |  | CI05 | 146 | 211 | 272 | 76 | 54 |
|  |  | CI95 | 301 | 344 | 460 | 180 | 124 |
| 2011 | 70 | Estimate | 303 | 126 | 348 | 170 | 331 |
|  |  | SD | 60 | 36 | 78 | 48 | 47 |
|  |  | CI05 | 207 | 71 | 225 | 96 | 257 |
|  |  | CI95 | 405 | 189 | 482 | 252 | 412 |

Appendix G. 5. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet fishery, 2011.

CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  |  | 5 Reporting Groups |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2005 | 247 | Mean | 0.914 | 0.073 | 0.005 | 0.000 | 0.008 |
|  |  | SD | 0.023 | 0.020 | 0.011 | 0.001 | 0.006 |
|  |  | CI05 | 0.874 | 0.043 | 0.000 | 0.000 | 0.001 |
|  |  | CI95 | 0.947 | 0.109 | 0.028 | 0.000 | 0.020 |
| 2006 | 209 | Mean | 0.878 | 0.085 | 0.027 | 0.010 | 0.000 |
|  |  | SD | 0.026 | 0.023 | 0.015 | 0.008 | 0.002 |
|  |  | CI05 | 0.833 | 0.051 | 0.005 | 0.001 | 0.000 |
|  |  | CI95 | 0.918 | 0.125 | 0.055 | 0.025 | 0.002 |
|  |  | Mean | 0.491 | 0.490 | 0.001 | 0.015 | 0.003 |
| 2007 |  | SD | 0.054 | 0.054 | 0.007 | 0.015 | 0.007 |
|  |  | CI05 | 0.402 | 0.402 | 0.000 | 0.000 | 0.000 |
|  |  | CI95 | 0.580 | 0.579 | 0.005 | 0.045 | 0.016 |
|  |  | Mean | 0.482 | 0.360 | 0.001 | 0.071 | 0.086 |
| 2008 |  | SD | 0.053 | 0.051 | 0.007 | 0.028 | 0.028 |
|  |  | CI05 | 0.395 | 0.278 | 0.000 | 0.030 | 0.046 |
|  |  | CI95 | 0.569 | 0.446 | 0.001 | 0.121 | 0.136 |
|  |  | Mean | 0.809 | 0.185 | 0.004 | 0.001 | 0.001 |
|  |  | SD | 0.031 | 0.027 | 0.015 | 0.006 | 0.003 |
| 2009 |  | CI05 | 0.755 | 0.143 | 0.000 | 0.000 | 0.000 |
|  |  | CI95 | 0.854 | 0.231 | 0.034 | 0.011 | 0.005 |
|  |  | Mean | 0.537 | 0.448 | 0.002 | 0.000 | 0.013 |
|  |  | SD | 0.043 | 0.042 | 0.008 | 0.001 | 0.009 |
|  |  | CI05 | 0.466 | 0.378 | 0.000 | 0.000 | 0.002 |
| 2010 |  | CI95 | 0.607 | 0.518 | 0.011 | 0.000 | 0.031 |
|  |  | Mean | 0.808 | 0.162 | 0.001 | 0.001 | 0.028 |
|  |  | SD | 0.052 | 0.049 | 0.007 | 0.004 | 0.020 |
|  |  | CI05 | 0.717 | 0.089 | 0.000 | 0.000 | 0.005 |
|  |  | CI95 | 0.887 | 0.249 | 0.003 | 0.001 | 0.066 |

Appendix G. 6. Annual estimates of large Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet fishery, 2011.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  |  | 5 Reporting Groups |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2010 | 72 | Estimate | 524 | 436 | 2 | 0 | 13 |
|  |  | SD | 42 | 41 | 7 | 1 | 9 |
|  |  | CI05 | 454 | 369 | 0 | 0 | 2 |
|  |  | CI95 | 592 | 505 | 11 | 0 | 31 |
| 2011 | 70 | Estimate | 518 | 104 | 1 | 0 | 18 |
|  |  | SD | 33 | 31 | 4 | 3 | 13 |
|  |  | CI05 | 459 | 57 | 0 | 0 | 3 |
|  |  | CI95 | 568 | 160 | 2 | 1 | 43 |

Appendix G. 7. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 111 sport fishery, 2011.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.
5 Reporting Groups

|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2005 | 264 | Mean | 0.563 | 0.376 | 0.015 | 0.028 | 0.018 |
|  |  | SD | 0.041 | 0.034 | 0.029 | 0.016 | 0.009 |
|  |  | CI05 | 0.491 | 0.320 | 0.000 | 0.009 | 0.006 |
|  |  | CI95 | 0.626 | 0.433 | 0.081 | 0.059 | 0.035 |
| 2006 | 269 | Mean | 0.600 | 0.312 | 0.052 | 0.008 | 0.027 |
|  |  | SD | 0.036 | 0.031 | 0.022 | 0.008 | 0.010 |
|  |  | CI05 | 0.540 | 0.262 | 0.020 | 0.000 | 0.013 |
|  |  | CI95 | 0.659 | 0.365 | 0.092 | 0.025 | 0.045 |
| 2007 | 237 | Mean | 0.424 | 0.523 | 0.027 | 0.000 | 0.025 |
|  |  | SD | 0.043 | 0.035 | 0.032 | 0.003 | 0.011 |
|  |  | CI05 | 0.352 | 0.466 | 0.000 | 0.000 | 0.010 |
|  |  | CI95 | 0.493 | 0.581 | 0.089 | 0.000 | 0.044 |
| 2008 | 218 | Mean | 0.224 | 0.763 | 0.002 | 0.000 | 0.010 |
|  |  | SD | 0.031 | 0.032 | 0.006 | 0.001 | 0.007 |
|  |  | CI05 | 0.174 | 0.709 | 0.000 | 0.000 | 0.002 |
|  |  | CI95 | 0.278 | 0.814 | 0.016 | 0.000 | 0.024 |
| 2009 | 239 | Mean | 0.254 | 0.726 | 0.001 | 0.000 | 0.018 |
|  |  | SD | 0.031 | 0.031 | 0.006 | 0.001 | 0.009 |
|  |  | CI05 | 0.205 | 0.674 | 0.000 | 0.000 | 0.006 |
|  |  | CI95 | 0.306 | 0.776 | 0.002 | 0.000 | 0.035 |
|  |  | Mean | 0.453 | 0.501 | 0.001 | 0.000 | 0.045 |
|  |  | SD | 0.038 | 0.038 | 0.004 | 0.001 | 0.015 |
|  |  | CI05 | 0.390 | 0.439 | 0.000 | 0.000 | 0.024 |
|  |  | CI95 | 0.515 | 0.564 | 0.000 | 0.000 | 0.072 |
|  |  | Mean | 0.435 | 0.500 | 0.019 | 0.019 | 0.027 |
|  |  | SD | 0.046 | 0.040 | 0.030 | 0.013 | 0.014 |
|  |  | CI05 | 0.358 | 0.435 | 0.000 | 0.000 | 0.008 |
|  |  | CI95 | 0.509 | 0.566 | 0.082 | 0.043 | 0.053 |

Appendix G. 8. Annual estimates of large Chinook salmon harvested in the Alaskan District 111 sport fishery, 2011.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.

|  |  | 5 Reporting Groups |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK | Other |
| 2010 | 72 | Estimate | 983 | 1,089 | 1 | 0 | 99 |
|  |  | SD | 83 | 83 | 8 | 2 | 32 |
|  |  | CI05 | 848 | 953 | 0 | 0 | 52 |
|  |  | CI95 | 1,120 | 1,225 | 1 | 0 | 157 |
|  |  | 7011 | 70 | Estimate | 549 | 631 | 24 |
|  |  | SD | 58 | 50 | 38 | 17 | 17 |
|  |  | CI05 | 452 | 548 | 0 | 0 | 10 |
|  |  | CI95 | 642 | 713 | 103 | 55 | 67 |


[^0]:    ${ }^{\text {a }}$ Veiwing conditions at the Craig River site were poor in 2004 and 2010.
    ${ }^{\mathrm{b}}$ West Katete and Katete not survey due to inclement weather
    ${ }^{\text {c }}$ aborted to due ice condtions and inclement weather

[^1]:    ${ }^{\text {a }}$ denotes an assessment/test fishery prosecuted with the commercial fleet

[^2]:    ${ }^{\text {a }}$ Estimate includes approximately 30,000 mortalities from overcrowding on May 22, 1987.
    ${ }^{\text {b }}$ Estimate of 595,147 on June 14 expanded by average \% of outmigration by date ( $97.5 \%$ ) from historical data.
    ${ }^{\text {c }}$ Estimate of 1,439,673 on June 13 expanded by average \% of outmigration by date ( $96.8 \%$ ) from historical data.
    ${ }^{\text {d }}$ Estimate of 1,516,150 on June 14 expanded by average \% of outmigration by date ( $97.5 \%$ ) from historical data.

[^3]:    ${ }^{\text {a }}$ Partial survey. Tseta 84
    ${ }^{\mathrm{b}}$ Extrapolated results. Nahlin 84
    ${ }^{\text {c }}$ Stopped flying index area 4 on the Nakina after 2009.

[^4]:    ${ }^{\text {a }}$ Eggs not transported but placed in inlake incubator; $2000=244,000,2001=865,000,2002196,000,2003=190,000$.
    ${ }^{\mathrm{b}}$ Survival rates are for hatchery eggs and hatchery fry plants and do not inlcude the lake incubators.
    ${ }^{\text {c }}$ All died to IHNV

