PACIFIC SALMON COMMISSION
JOINT TRANSBOUNDARY TECHNICAL COMMITTEE
FINAL ESTIMATES OF TRANSBOUNDARY RIVER SALMON PRODUCTION, HARVEST AND ESCAPEMENT AND A REVIEW OF JOINT
ENHANCEMENT ACTIVITIES IN 2010

REPORT TCTR (15)-2

March 2015

## 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 ..... 11
Canadian Fisheries ..... 17
Lower Stikine River Commercial Fishery ..... 18
Upper Stikine River Commercial Fishery ..... 26
Aboriginal Fishery ..... 26
Recreational Fishery ..... 26
Escapement ..... 27
Sockeye Salmon ..... 27
Chinook Salmon ..... 29
Coho Salmon ..... 29
Sockeye Salmon Run Reconstruction ..... 30
TAKU RIVER ..... 31
Harvest Regulations ..... 32
U.S. Fisheries ..... 32
Canadian Fisheries ..... 38
Escapement ..... 48
Sockeye Salmon ..... 48
Chinook Salmon ..... 49
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 ..... 52
Escapement ..... 54
Sockeye Salmon ..... 55
Chinook Salmon ..... 55
Coho Salmon ..... 55
ENHANCEMENT ACTIVITIES ..... 55
Egg Collection ..... 55
Tahltan Lake ..... 55
Tatsamenie Lake ..... 56
Trapper Lake ..... 56
Incubation, Thermal Marking, and Fry Plants ..... 56
Tahltan Lake ..... 56
Tuya Lake ..... 56
Tatsamenie Lake ..... 56
Sockeye Supplementation Evaluation Surveys ..... 57
Acoustic, Trawl, Beach seine and Limnological Sampling ..... 57
Thermal Mark Laboratories ..... 57
ADF\&G Thermal Mark Laboratory ..... 57
Canadian Thermal Mark Laboratory ..... 57
Standards ..... 58

## LIST OF TABLES

Table 1. Stikine River large Chinook salmon run size based on a model, markrecapture estimates, other methods, and weekly inseason harvest estimates from the District 108 gillnet, sport, and troll fisheries, inriver assessment/test fishery, and the Canadian gillnet and sport fisheries, 2010. .7
Table 2. Weekly forecasts of run size and total allowable catch for Stikine River sockeye salmon as estimated inseason by the Stikine Management Model, 2010. ........... 10
Table 4. Taku sockeye salmon run reconstruction, 2010. Estimates do not include spawning escapements below the U.S./Canada border.34

Table 5. U.S. inseason forecasts of terminal run size, TAC, inriver run size, and the U.S. harvest of Taku River sockeye salmon for 2010. .36
Table 6. Weekly large Chinook salmon guideline harvest for the Canadian commercial fishery in the Taku River in 2010. .40
Table 7. Forecasts of terminal run size, allowable harvest, and weekly guideline, and actual harvest of Taku River large Chinook salmon, 2010 ${ }^{\text {a }}$. .43
Table 8. Canadian inseason forecasts of terminal run size, total allowable catch, and spawning escapement of Taku sockeye salmon, $2010^{\text {a }}$. .44
Table 9. Final harvest and Klukshu index escapement data for Alsek River sockeye, Chinook, and coho salmon for 2010. .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

$$
\begin{aligned}
& \text { Appendix A. 1. Weekly harvest of Chinook salmon in the U.S. gillnet, troll, recreational, } \\
& \text { and subsistence and estimates of Stikine River bound Chinook salmon in District 108, } \\
& \text { 2010..................................................................................................................................... } 59 \\
& \text { Appendix A. 2. Weekly harvest of Chinook salmon in the Canadian commercial, } \\
& \text { Telegraph Aboriginal, and recreational fishery in the Stikine River, 2010................... } 59 \\
& \text { Appendix A. 3. Weekly harvest of Chinook salmon in the Canadian test fisheries } 2010.60 \\
& \text { Appendix A. 4. Weekly harvest of sockeye salmon in the Alaskan District } 106 \text { and } 108 \\
& \text { fisher........................................................................................................................ } 2010 . . . . . . . ~
\end{aligned}
$$

Appendix A. 5. Weekly stock proportions of sockeye salmon harvested in the Alaskan D106 commercial drift gillnet fishery, 2010. ..... 61
Appendix A. 6. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2010. ..... 62
Appendix A. 7. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2010. ..... 63
Appendix A. 8. Weekly stock proportions sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2010. ..... 64
Appendix A. 9. Weekly sockeye salmon harvest and effort in the Canadian commercial and assessment fisheries in the lower Stikine River, 2010, ..... 65
Appendix A. 10. Weekly sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery in the lower Stikine River, 2010. ..... 66
Appendix A. 11. Harvest by stock and week for sockeye salmon in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 2010. ..... 67
Appendix A. 12. Weekly harvest, CPUE, and migratory timing of Tahltan, Tuya, and mainstem sockeye salmon stocks in the Stikine test fishery, 2010 ..... 68
Appendix A. 13. Daily test harvest taken from the Tuya Assessment Fishery located above the Tahltan River, July 2010. ..... 68
Appendix A. 14. Weekly coho salmon harvest in the Alaskan District 106 and 108 fisheries, 2010 ..... 69
Appendix A. 15. Weekly harvest of coho salmon in the Canadian lower river commercial fishery and test fisheries 2010. ..... 69
Appendix A. 16. Weekly salmon effort in the Alaskan District 106 and 108 fisheries, 2010. ..... 70
Appendix A. 17. Weekly salmon effort in the Canadian fisheries in the Stikine River, 2010 ..... 70
Appendix A. 18. Tuya assessment fishery, 2010 ..... 71
Appendix A. 19. Daily counts of adult sockeye salmon passing through Tahltan Lake weir, 2010 ..... 72
Appendix A. 20. Daily counts of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 2010. ..... 73
Appendix A. 21. Daily counts of adult Chinook salmon passing through Little Tahltan weir, 2010. ..... 74
Appendix B. 1. Historic salmon harvest and effort in the Alaskan District 106 commercial gillnet fishery, 1960-2010. ..... 75
Appendix B. 2 Historic salmon harvest and effort in the Alaskan District 108 commercial gillnet fishery, 1962-2010. ..... 76
Appendix B. 3. Annual harvest of large Stikine Chinook salmon in the U.S. gillnet, troll, recreational, and subsistence and estimates of Stikine River bound Chinook salmon in District 108, 2005-2010 ..... 77
Appendix B. 4. Chinook salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2010. ..... 77
Appendix B. 5. Chinook salmon harvest in the Canadian commercial and recreational fisheries in the Stikine River, 1979-2010. ..... 78
Appendix B. 6. Chinook salmon harvest in inriver test fisheries in the Stikine River, 1985-2010 ..... 79
Appendix B. 7. Index counts of Stikine large Chinook salmon escapements, 1979-2010.80
Appendix B. 8. General stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; District 106 \& 108, 1982-2010. ..... 81
Appendix B. 9. Stikine stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1982-2010 ..... 82
Appendix B. 10. Tahltan sockeye salmon stock proportions and harvest of in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1994-2010 ..... 83
Appendix B. 11. Stikine River sockeye salmon harvest in the U.S. Subsistence fishery, 2004-2010 ..... 83
Appendix B. 12. Stock proportions of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2010. ..... 84
Appendix B. 13. All harvest in of sockeye salmon in Canadian commercial and assessment fisheries, 1972-2010. ..... 85
Appendix B. 14. Sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2010. ..... 86
Appendix B. 15. Tahltan sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2010. ..... 87
Appendix B. 16. Tahltan Lake weir data with enhanced and wild Tahltan fish, 1979- 2010. ..... 88
Appendix B. 17. Sockeye salmon harvest by stock in the Stikine River under Canadian ESSR licenses, 1992-2010. ..... 88
Appendix B. 18. Estimated proportion of inriver run comprised of Tahltan, Tuya, and mainstem sockeye salmon, 1979-2010. ..... 89
Appendix B. 19. Aerial survey counts of Mainstem sockeye salmon stocks in the Stikine River drainage, 1984-2010. ..... 90
Appendix B. 21. Coho salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2010 ..... 92
Appendix B. 22. Annual harvest of coho salmon in the Canadian lower and upper rivercommercial, Telegraph Aboriginal and the Canadian test fisheries, 1979-2010.93
Appendix B. 23. Index counts of Stikine coho salmon escapements, 1984-2010. ..... 94
Appendix B. 24. Effort in the Canadian fisheries, including assessment fisheries in the Stikine River, 1979-2010. ..... 95
Appendix B. 25. Counts of adult sockeye salmon migrating through Tahltan Lake weir, 1959-2010 ..... 96
Appendix B. 26. Estimates of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 1984-2010. ..... 97
Appendix B. 27. Weir counts of Chinook salmon at Little Tahltan River, 1985-2010. ..98
Appendix B. 28. Historical pink and chum salmon harvest in the Canadian fisheries, 1979-2010 ..... 99
Appendix C. 1. Weekly Chinook salmon harvest in the U.S. fisheries in D111, 2010.. 100
Appendix C. 2. Weekly Chinook salmon abundance estimates of above border run andharvest in the Canadian fisheries in the Taku River 2010.100
Appendix C. 3. Weekly sockeye salmon harvest of Alaskan D111 traditional and terminal common property commercial drift gillnet fishery, 2010. ..... 101
Appendix C. 4. Weekly stock proportions of sockeye salmon harvested in the Alaskan District 111 traditional commercial drift gillnet fishery, 2010. ..... 102
Appendix C. 5. Weekly sockeye salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2010. ..... 103
Appendix C. 6. Estimates of wild and enhanced sockeye salmon stock harvested in the Canadian commercial fishery in the Taku River by week, 2010. ..... 104
Appendix C. 7. Weekly coho salmon harvest in the traditional Alaskan District 111 and StatArea 111-32 (Taku Inlet), commercial drift gillnet fishery, 2010. ..... 105
Appendix C. 8. Weekly coho salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2010. ..... 105
Appendix C. 9. Weekly effort in the Alaskan traditional District 111 and StatArea 111- 32 (Taku Inlet), commercial drift gillnet fishery, 2010. ..... 106
Appendix C. 10. Weekly effort in the Canadian commercial and assessment fisheries in the Taku River, 2010 ..... 106
Appendix C. 11. Daily counts of adult sockeye salmon passing through Tatsamenie weir, 2010 ..... 107
Appendix C. 12. Daily counts of adult sockeye salmon passing through Little Trapper Lake weir, 2010. ..... 108
Appendix C. 13. Daily counts of adult sockeye salmon passing through the King Salmon Lake weir, 2010. ..... 109
Appendix C. 14. Daily counts of adult sockeye salmon passing through the Kuthai Lake weir, 2010 ..... 110
Appendix C. 15. Daily counts of large Chinook salmon carcasses at the Nakina River weir, 2010 ..... 111
Appendix D. 1. All historic harvest and effort of salmon in the D111 gillnet fishery,1960-2010112
Appendix D. 2. Annual harvest estimates of Taku River large Chinook salmon in the D111 fisheries, 2005-2010. ..... 113
Appendix D. 3. Annual Chinook Salmon harvest in the Canadian fisheries in the Taku River, 1979-2010. ..... 114
Appendix D. 4. Taku River large Chinook salmon run size, 1979-2010 ..... 115
Appendix D. 5. Aerial survey index escapement counts of large (3-ocean and older) Taku River Chinook salmon, 1975-2010. ..... 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, 1967-2010. ..... 117
Appendix D. 7. Stock proportions and harvest of sockeye salmon in the traditional Alaska District 111 commercial drift gillnet fishery, 1983-2010. ..... 118
Appendix D. 8. Proportion of wild Taku River sockeye salmon in the Alaskan District 111 commercial drift gillnet harvest by week, 1983-2010 ..... 119
Appendix D. 9. Annual sockeye salmon harvest estimates of wild and enhanced fish in the Canadian fisheries in the Taku River, 1979-2010. ..... 120
Appendix D. 10. Annual sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery on the Taku River, 1986-2010. ..... 121
Appendix D. 11. Annual sockeye salmon weir counts, escapements, and samples at the Tatsamenie weir, 1984-2010. ..... 122
Appendix D. 12. Annual sockeye salmon weir counts, escapements, and samples at the Little Trapper weir, 1983-2010. ..... 123
Appendix D. 13. Taku River sockeye salmon run size, 1984-2010 ..... 124
Appendix D. 14. The terminal run reconstruction of Taku wild and enhanced sockeye salmon, 1984-2010. ..... 125
Appendix D. 15. Annual sockeye salmon escapement estimates of Taku River and Port Snettisham sockeye salmon stocks, 1979-2010. ..... 126
Appendix D. 16. Historical Taku River coho salmon harvested in D111 terminal fisheries, 1992-2010. ..... 127
Appendix D. 17. Historical coho salmon in the Canadian fisheries in the Taku River, 1987-2010 ..... 128
Appendix D. 18. Historic Taku River coho salmon terminal run size, 1987-2010 ..... 129
Appendix D. 19. Escapement counts of Taku River coho salmon. Counts are for age-. 1 fish and do not include jacks, 1984-2010 ..... 129
Appendix D. 20. Historical effort in the Alaskan District 111 and Subdistrict 111-32 (Taku Inlet) commercial drift gillnet fishery, 1960-2010. ..... 130
Appendix D. 21. Historical effort in the Canadian commercial fishery in the Taku River, 1979-2010 ..... 131
Appendix D. 22. Canyon Island fish wheel salmon counts and periods of operation on the Taku River, 1984-2010. ..... 132
Appendix E. 1. Weekly salmon harvest and effort in the lower Alsek River fisheries, 2010 ..... 133
Appendix E. 2. Weekly salmon harvest and effort in the Canadian Aboriginal and sport fisheries in the Alsek River, 2010 ..... 134
Appendix E. 3. Daily counts of salmon passing through Klukshu River weir, 2010. ..... 135
Appendix E. 5. Salmon harvest in the U.S. Chinook salmon test fishery in the Alsek River, 2005-2010 ..... 138
Appendix E. 6. Salmon harvest in the U.S. subsistence and personal use fisheries in the Alsek River, 1976-2010. ..... 139
Appendix E. 7. Salmon catches in the Canadian Aboriginal and recreational fisheries inthe Alsek River, 1976 to 2010.140
Appendix E. 8. Annual Klukshu River weir counts of Chinook, sockeye, and coho salmon, 1976 to 2010. ..... 141
Appendix E. 9. Alsek River sockeye salmon escapement 2000 to 2010 ..... 142
Appendix E. 10. Alsek River sockeye salmon counts from U.S. and Canadian aerial surveys and from the electronic counter at Village Creek, 1985-2010. ..... 143
Appendix E. 11. Aerial survey index counts of Alsek River Chinook salmon escapements, 1984 to 2010. ..... 144
Appendix E. 12. Alsek River run of large Chinook salmon, 1997-2004. Estimates are based on a mark-recapture study and include the percent of Chinook salmon ..... 145
Appendix E. 13. Alsek River Chinook salmon escapement, 2007. ..... 145
Appendix E. 14. Aerial survey counts of coho salmon from U.S. lower Alsek River tributaries, 1985-2000. ..... 146
Appendix F. 1. Tahltan Lake egg collection, fry plants, and survivals, 1989-2010. ..... 146
Appendix F. 2. Tuya Lake fry plants and survivals, 1991-2010. ..... 147
Appendix F. 3. Tatsamenie Lake egg collection, fry plants, and survivals, 1989-2010 148
Appendix G. 1. Annual stock proportion estimates (mean) of large Chinook salmonharvested in the Alaskan District 108 commercial drift gillnet fishery, 2010.149
Appendix G. 2. Annual estimates of large Chinook salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2010. ..... 149
Appendix G. 3. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2010 ..... 150
Appendix G. 4. Annual estimates of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2010 ..... 150
Appendix G. 5. Annual stock proportion estimates (mean) of large Chinook salmonharvested in the Alaskan District 111 commercial drift gillnet fishery, 2010.151
Appendix G. 6. Annual estimates of large Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet fishery, 2010. ..... 151
Appendix G. 7. Annual stock proportion estimates (mean) of large Chinook salmonharvested in the Alaskan District 111 sport fishery, 2010............................................... 152

Appendix G. 8. Annual estimates of large Chinook salmon harvested in the Alaskan District 111 sport fishery, 2010. .152

## 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

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

## EXECUTIVE SUMMARY

Final estimates of harvests and escapements of Pacific salmon returning to the transboundary Stikine, Taku, and Alsek rivers for 2010 are presented and compared with historical patterns. Average, unless defined otherwise, refers to the most recent 10-year average (2000-2009). Relevant information pertaining to the management of appropriate U.S. and Canadian fisheries is presented and the use of inseason management models is discussed. Final results from TBR sockeye salmon Oncorhynchus nerka enhancement projects are also reviewed.

## Stikine River

The 2010 Stikine River sockeye salmon run was estimated to be 157,000 fish, of which approximately 96,000 fish were harvested in various fisheries including test fisheries. An estimated 61,000 Stikine River fish escaped to spawn, including 13,000 fish that migrated to the Tuya River block that were not harvested. The Tahltan Lake sockeye salmon escapement of 23,000 was within the 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 41,000 fish. The Canadian inriver commercial harvest was 3,000 fish and aboriginal fishery harvest was 7,000 fish; total harvest 50,500 fish. The inriver test fishery harvested 2,000 sockeye salmon and there was no marine test fishery for sockeye salmon in 2010. Weekly inseason run projections from the Stikine Management Model (SMM) ranged from 166,000 to 215,000 sockeye salmon; the final inseason model prediction was 215,000 fish, with a total allowable catch (TAC) of 95,000 fish. Weekly inseason run projections using other methods ranged from 166,000 to 190,000 sockeye salmon. The final inseason run size based on other methods was 181,000 with a TAC of 105,000 fish. Based on the final postseason run size estimate of 157,000 the TAC was 42,000 Stikine River fish for each country, Canada harvested $120 \%$ and the U.S. harvested $96 \%$ of their respective TACs. Broodstock collection removed 4,500 fish and otolith sampling removed 380 sockeye salmon from the escapement to Tahltan Lake leaving a spawning escapement of 18,200 fish. The estimated spawning escapement of 25,000 mainstem Stikine River sockeye salmon was within the goal range of 20,000 to 40,000 fish for this stock group.

The final 2010 Stikine River large Chinook salmon terminal run was estimated at 20,000 fish, of which approximately 4,500 fish were harvested in various fisheries. An estimated 15,000 Stikine River fish escaped to spawn, below the escapement point estimate of 17,400 Chinook salmon but within the escapement goal range of 14,000 to 28,000 large Chinook salmon. The run and harvest were both below average. The Little Tahltan River large Chinook salmon escapement of 1,100 fish was below the Canadian escapement target of 3,300 fish and below the lower bound of the escapement target range of 2,700 to 5,300 Chinook salmon. The estimated U.S. commercial harvest of Stikine River large Chinook salmon in Districts 108 gillnet, test, troll, subsistence, and sport fisheries was 1,300 fish. The estimated Canadian commercial, Aboriginal, assessment/test, and sport fisheries harvest was 3,200 fish. Traditional MR, model, and other assessment estimates are used to generate inseason run sizes from SW 23 through the remainder of the run. The
inseason run projections were persistent throughout the course of the fishery in predicting a total run size that was less than the preseason forecast of 32,000 fish. Weekly inseason run projections ranged from 19,900 to 25,500 Chinook salmon. The final post season estimate run size estimate of 20,000 large Chinook salmon indicated zero TAC.

The 2010 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 226,000 fish ( $45 \%$ Alaska hatchery) and in District 108 harvest was 43,000 fish ( $41 \%$ Alaska hatchery); both were $60 \%$ above average. The Canadian inriver coho salmon harvest of 5,300 fish was well above average. The aerial survey count of 1,800 fish from six index sites combined was below average. The cumulative CPUE observed in the coho test fishery was above average.

## Taku River

The final postseason estimate of the 2010 Taku River sockeye salmon run is 155,800 fish, including an estimated U.S. harvest of 46,800 fish and an estimated above border spawning escapement of 88,400 sockeye salmon. The run size was below average, but was above the escapement goal range of 71,000 to 80,000 fish. An estimated 45,800 Taku River sockeye salmon were harvested in the District 111 commercial fishery which is below average and an additional 1,000 fish were harvested in the U.S. inriver personal use fishery. Canadian inriver commercial fisheries harvested 20,200 fish and the aboriginal fishery harvested 200 fish; the commercial fishery was below average while the aboriginal catch was above average. The U.S. harvested $72 \%$ of the U.S. AC and Canada harvested $126 \%$ of the Canadian AC.

The harvest of large Chinook salmon in the Canadian commercial fishery in the Taku River was 5,240 fish. The Canadian Aboriginal fishery in the Taku River harvested 130 large Chinook salmon. District 111 mixed stock drift gillnet fishery harvested 530 Taku large Chinook salmon, based on postseason GSI analysis. The final above border spawning escapement estimated from the MR program is 28,800 fish.

The estimated above border run of Taku River coho salmon in 2010 was 141,200 fish. The Canadian inriver commercial and test fishery harvest of 14,400 coho salmon was above average. After Canadian harvests are subtracted from the above border run, the above border spawning escapement estimate was 126,800 coho salmon, which exceeds the minimum escapement goal of 38,000 fish. The U.S. harvest of 62,000 coho salmon in the District 111 mixed stock fishery was above average. Alaskan hatcheries contributed an estimated 5,100 fish or $8.3 \%$ of the District 111 harvest.


#### Abstract

Alsek River The Alsek River sockeye salmon harvest of 13,000 fish in the U.S. commercial fishery was below average. The Canadian inriver harvest was 400 sockeye salmon for Klukshu River and 1,700 fish in Aboriginal harvest with no harvests not reported for Village Creek. The Klukshu River weir count of 19,000 sockeye salmon was above average and


the goal range of 7,500 to 15,000 fish. The count of 5,100 early run sockeye salmon (count through August 15) and the late run count of 13,900 were both above average.

The Chinook salmon run to the Alsek River appeared to be average or above average. The U.S. Dry Bay catch of 270 large Chinook salmon was below average. The Canadian recreational fishery harvest of 100 fish and Aboriginal harvest of 200 were both above average. The 2,400 Chinook salmon counted through the Klukshu River weir was above average and above 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 catch of 2,000 coho salmon was below average as was the Canadian inriver aboriginal fishery harvest of 4 fish. The operation of the Klukshu weir does not provide a complete enumeration of coho salmon into this system since it is removed before the run is over.

## Enhancement

Eggs and milt were collected from the year 2010 sockeye salmon escapements at Tahltan, Tatsamenie and Little Trapper lakes. A total of 6.0 million eggs were collected at Tahltan Lake, and 2.1 million at Tatsamenie Lake.

Outplants of 2009 brood year sockeye salmon fry in May and June 2010 were as follows: 1.8 million fry into Tahltan Lake; 977 thousand fry into Tuya Lake; and 717 thousand fry into Tatsamenie Lake. Green-egg to stocked-fry survivals were $70 \%$, $52 \%$, and $58 \%$ for the Tahltan, Tuya, and Tatsamenie, respectively. Survivals were lower due to loss of 4 incubators due to IHN.

The egg incubation and thermal marking program was continued at Snettisham Hatchery in 2009. 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. Final estimates of the contribution of stocked fish to Alaskan harvest were 19,000 stocked Stikine River fish to District 106 and 108, and 940 stocked Taku River fish to District 111. Final estimates of the contribution of stocked fish to Canadian fisheries included 28,000 fish to Stikine River fisheries and 630 stocked fish to the Taku River fisheries.

## INTRODUCTION

This report presents preliminary estimates of the 2010 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: Pacific Salmon Commission Transboundary Technical Committee, TCTR(10)-1 Salmon Management and Enhancement Plans for the Stikine, Taku and Alsek Rivers, 2010. April 2010.

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 catch are made for Alaskan fisheries outside of District 106 and 108 for Stikine River stocks, District 111 for Taku River stocks, and Sub-district 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 catch shares; and, a sockeye salmon catch 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 mark-capture 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 total run size based on MR studies conducted in 1996-2005 (20062009 correlation not used). 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). Mark-recapture estimates based on the cumulative ratio of tagged-tountagged 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 22,900 large Chinook salmon was below the threshold run size limit of 28,100 fish (Table 1) hence, no new directed Chinook fisheries were permitted at the outset of the fishing season. 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, however, are permitted to harvest Chinook salmon caught as bycatch taken in the course of the targeted sockeye salmon fisheries for run sizes forecasted to be below 28,100 fish. Moreover, an inriver assessment/test fishery implemented on the Canadian side of the border is 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, markrecapture estimates, other methods, and weekly inseason harvest estimates from the District 108 gillnet, sport, and troll fisheries, inriver assessment/test fishery, and the Canadian gillnet and sport fisheries, 2010.

| SW | Start <br> Date | Terminal Run |  | TAC |  |  | Estimated Harvest |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Estimate | Method | Total | Weekly | Cumulative | Weekly | Cumulative |
| Canada Estimates ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |
| 19 | 02-May | 22,900 | Preseason | 3,700 | 67 | 67 | 60 | 60 |
| 20 | 09-May | 22,900 | Preseason | 3,700 | 190 | 257 | 170 | 230 |
| 21 | 16-May | 22,900 | Preseason | 3,700 | 230 | 487 | 213 | 444 |
| 22 | 23-May | 22,900 | Preseason | 3,700 | 213 | 700 | 265 | 708 |
| 23 | 30-May | 22,300 | Average ${ }^{\text {a }}$ | 3,700 | 175 | 875 | 199 | 907 |
| 24 | 06-Jun | 19,715 | Average ${ }^{\text {a }}$ | 3,700 | 282 | 1,157 | 430 | 1,338 |
| 25 | 13-Jun | 20,968 | Average ${ }^{\text {a }}$ | 3,700 | 422 | 1,580 | 294 | 1,631 |
| 26 | 20-Jun | 20,646 | Average ${ }^{\text {a }}$ | 3,700 | 876 | 2,455 | 578 | 2,209 |
| 27 | 27-Jun | 21,924 | Average ${ }^{\text {a }}$ | 3,700 | 578 | 3,034 | 535 | 2,745 |
| 28 | 04-Jul | 21,924 | Average ${ }^{\text {a }}$ | 3,700 | 283 | 3,317 | 206 | 2,950 |
| 29 | 11-Jul | 21,924 | Average ${ }^{\text {a }}$ | 3,700 | 173 | 3,490 | 138 | 3,088 |
| 30 | 18-Jul | 21,924 | Average ${ }^{\text {a }}$ | 3,700 | 93 | 3,583 | 18 | 3,107 |
| 31 | 25-Jul | 21,924 | Average ${ }^{\text {a }}$ | 3,700 | 32 | 3,615 | 27 | 3,134 |
| 32 | 01-Aug | 21,924 | Average ${ }^{\text {a }}$ | 3,700 | 24 | 3,640 | 4 | 3,138 |
| 33 | 08-Aug | 21,924 | Average ${ }^{\text {a }}$ | 3,700 | 18 | 3,657 | 1 | 3,139 |
| 34 | 15-Aug | 21,924 | Average ${ }^{\text {a }}$ | 3,700 | 43 | 3,700 |  | 3,139 |
| Postseason Final |  | 19,615 |  |  |  | 3,700 |  | 3,139 |
| U.S. Estimates ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |
| 18 | 25-Apr | 22,900 | Preseason | 0 | 0 | 0 | 24 | 24 |
| 19 | 2-May | 22,900 | Preseason | 0 | 0 | 0 | 36 | 60 |
| 20 | 9-May | 22,900 | Preseason | 0 | 0 | 0 | 75 | 135 |
| 21 | 16-May | 22,900 | Preseason | 0 | 0 | 0 | 167 | 302 |
| 22 | 23-May | 22,900 | Preseason | 0 | 0 | 0 | 375 | 677 |
| 23 | 30-May | 22,300 | Average ${ }^{\text {a }}$ | 0 | 0 | 0 | 261 | 938 |
| 24 | 6-Jun | 19,715 | Average ${ }^{\text {a }}$ | 0 | 0 | 0 | 159 | 1,097 |
| 25 | 13-Jun | 20,968 | Average ${ }^{\text {b }}$ | 0 | 0 | 0 | 177 | 1,274 |
| 26 | 20-Jun | 20,646 | Average ${ }^{\text {c }}$ | 0 | 0 | 0 | 263 | 1,537 |
| 27 | 27-Jun | 21,924 | Average ${ }^{\text {b }}$ | 0 | 0 | 0 | 246 | 1,784 |
| 28 | 4-Jul | 21,924 | Average ${ }^{\text {b }}$ | 0 | 0 | 0 | 153 | 1,936 |
| 29 | 11-Jul | 21,924 | Average ${ }^{\text {b }}$ | 0 | 0 | 0 | 63 | 1,999 |
| Postseason Final |  | 19,615 |  |  |  |  |  | 1,993 |

${ }^{\text {a }}$ Average of mark-recapture and SCMM
${ }^{\mathrm{b}}$ TAC includes the base level catch for U.S. and Canada plus a test fish allocation of 1,400 Chinook salmon for Canada
${ }^{\text {c }}$ The test fish allocation of 1,400 fish was distributed over a seven week period (SW 19-25). The weekly harvest was loosely based on the average run timing through the lower Stikine River commercial fishing grounds
where the test fishery was conducted (the TAC in SW 24-25 from the upper fishery were added). The Canadian base level catch of 2,300 fish was distributed over the balance of the Chinook salmon run, with an allocation of 800 fish to the upper Stikine River Aboriginal, sport, and commercial fisheries. The upper Stikine River guideline TAC(s) were based on historical run timing from stat SW 24-34.

The Canadian guideline harvests, based on a harvest goal of 1,400 fish, taken from SW 19 to SW 25, were derived from historical run timing data from the 2005-2009 inriver commercial fisheries, and the 2000-2003 inriver assessment/test fisheries. The U.S. guidelines were derived from historical run timing in District 108 (1969-1973, 20052008) and historical CPUE from the Kakwan Point tagging site, delayed one week
(1996-2004) and the 2001-2003 average CPUE from the Canadian Chinook salmon assessment/test fishery delayed one week.

The preseason forecast for Stikine River large Chinook salmon terminal run was approximately 22,900 fish (Table 1) which indicated a run size as below average. This forecast was used during SW 19-22. After SW 22, inseason projections of total terminal run size and TAC were used to assist in determining weekly fishing plans (Table 1). The inseason estimates were based on averaging the SCMM and the MR estimate. The weekly inputs to the model included: harvest and effort data from Kakwan Point, the District 108 sport, troll, and gillnet harvest. The Canadian sport and gillnet harvests were also added to the model.

Joint Canadian and U.S. inseason predictions of terminal run size ranged from 19,700 to 22,300 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 below the 2002-2009 average run size. Based on MR data from the inriver commercial fishery, the preliminary postseason estimated terminal run size of Stikine Chinook salmon was 20,356 large Chinook salmon, near the final inseason estimate of 21,924 large Chinook salmon (Table 1). The 2010 Little Tahltan escapement of 1,057 fish represents approximately $7 \%$ of the total inriver escapement of 15,171 fish, compared to the average of approximately $18 \%$.

## Sockeye Salmon

The preseason forecast for the Stikine River sockeye salmon run was approximately 187,700 fish (Table 2), characterized as an average run. The forecast included approximately 59,200 natural Tahltan fish, 32,000 enhanced Tahltan fish, 48,500 enhanced Tuya fish, and 48,000 mainstem fish. 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 catch, 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 catches, 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 ( $+80,000$ ). 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 2010 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 2010 fishing season and the model was adjusted accordingly.

Table 2. Weekly forecasts of run size and total allowable catch for Stikine River sockeye salmon as estimated inseason by the Stikine Management Model, 2010.

| SW | Start <br> Date | Terminal Run |  | TAC |  |  | Cumulative Harvest |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Estimate | Method | Total | U.S. | Canada | U.S. | Canada |
| Model runs generated by Canada |  |  |  |  |  |  |  |  |
| 25 | 13-Jun | 187,770 | Preseason | 119,100 | 59,550 | 59,550 |  | 25 |
| 26 | 20-Jun | 187,770 | Preseason | 119,100 | 59,550 | 59,550 |  | 1,956 |
| 27 | 27-Jun | 165,509 | Model | 98,770 | 49,385 | 49,385 |  | 13,716 |
| 28 | 4-Jul | 165,509 | Model | 98,770 | 49,385 | 49,385 |  | 25,060 |
| 29 | 11-Jul | 186,576 | Inriver Regression | 108,522 | 54,261 | 54,261 |  | 38,475 |
| 30 | 18-Jul | 190,048 | Inriver Regression | 111,446 | 55,723 | 55,723 |  | 44,959 |
| 31 | 25-Jul | 190,048 | Inriver Regression | 111,446 | 55,723 | 55,723 |  | 47,721 |
| 32 | 1-Aug | 180,980 | Inriver Regression and model | 107,668 | 53,834 | 53,834 |  | 49,405 |
| 33 | 8-Aug | 180,209 | Inriver Regression and model | 106,926 | 53,463 | 53,463 |  | 50,187 |
| 34 | 15-Aug | 176,906 | Inriver Reg./run reconstruction | 101,816 | 50,908 | 50,908 |  | 50,355 |
| 35 | 22-Aug | 180,953 | Inriver Reg./run reconstruction | 104,854 | 52,427 | 52,427 |  | 50,478 |
| 36 | 29-Aug | 180,953 | Inriver Reg./run reconstruction | 104,854 | 52,427 | 52,427 |  | 50,543 |
| Model runs generated by U.S. |  |  |  |  |  |  |  |  |
| 25 | 13-Jun |  | Preseason | 118,672 | 59,336 | 59,336 | 7,875 | 1,852 |
| 26 | 21-Jun | 187,700 | Preseason | 118,672 | 59,336 | 59,336 | 14,378 | 6,023 |
| 27 | 28-Jun | 178,523 | Model | 100,809 | 50,405 | 50,405 | 33,500 | 22,718 |
| 28 | 5-Jul | 166,113 | Model | 146,106 | 73,053 | 73,053 | 36,721 | 27,377 |
| 29 | 12-Jul | 209,026 | Model | 139,965 | 69,983 | 69,983 | 42,002 | 38,049 |
| 30 | 19-Jul | 206,580 | Model | 152,502 | 76,251 | 76,251 | 44,580 | 47,485 |
| 31 | 26-Jul | 219,927 | Model | 122,933 | 61,466 | 61,466 | 40,969 | 48,246 |
| 32 | 2-Aug | 189,336 | Average Model/Run reconstruction | 145,577 | 72,788 | 72,788 | 41,696 | 49,907 |
| 33 | 9-Aug | 213,381 | Model | 146,021 | 73,010 | 73,010 | 41,696 | 49,907 |
| 34 | 16-Aug | 214,520 | Model | 118,672 | 59,336 | 59,336 | 7,875 | 1,852 |
| Postseason estimate |  | 157,001 |  | 84,507 | 42,254 | 42,254 | 50,540 | 40,647 |

${ }^{\mathrm{a}}$ 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 165,500 to 219,000 sockeye salmon; U.S. forecasts ranged from 165,500 to 213,500 (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 2010 gillnet harvest in District 106 was 2,473 Chinook, 112,450 sockeye, 225,550 coho, 309,795 pink, and 97,948 chum salmon. Salmon harvests were above average for Chinook, sockeye, and coho salmon. The pink salmon harvest was average and chum salmon harvest was below average. The final postseason estimate of Stikine River sockeye salmon harvested in District 106 was 13,887 fish or approximately $12 \%$ of the harvest. An estimated 100,408 coho salmon in the District 106 harvest were of Alaska hatchery origin, $45 \%$ of the total coho salmon harvest. The District 106 drift gillnet fishery was open for 47 days from June 14 through October 12. Total fishing time was average. Sections 6-A, 6-B, and 6-C were open simultaneously each week throughout the season. Weekly fishing effort in number of vessels fishing in District 106 was above average for every week of the season with the exception of SW 28 through 30 and SW 40 and 42. The greatest effort in vessels fishing (105 boats), and the greatest number of boat days (315) both occurred in SW 33. The total season effort was above average at 3,161 boat days.

The Sumner Strait fishery (Subdistrict 106-41/42) harvested an estimated 12,274 Stikine River sockeye salmon (Table 3), $21 \%$ of the total sockeye salmon harvest in that subdistrict. The Clarence Strait fishery (Subdistrict 106-30) harvested an estimated 1,613 Stikine River sockeye salmon, $3 \%$ of the total sockeye salmon harvest in that subdistrict.

The District 108 total season gillnet harvest was 2,359 Chinook, 32,737 sockeye, 42,772 coho, 58,610 pink, and 51,005 chum salmon. Coho and pink salmon harvests were above average, while Chinook, sockeye, and chum salmon harvests were below average. The District 108 fishery harvested an estimated 25,106 Stikine River sockeye salmon, $77 \%$ of the District 108 sockeye salmon harvest. The District 108 fishery started on June 21 after being postponed for Stikine Chinook salmon conservation. District 108 closed concurrently with District 106 on October 12. The 47 days the district was open is near average excluding the directed Chinook salmon fishery. The average days fished in District 108 including the directed Chinook salmon fisheries is 51 days. An estimated $41 \%$ ( 17,421 fish) of the District 108 coho salmon harvest was of Alaskan hatchery origin. The Alaska hatchery Chinook salmon contribution in District 108 was estimated at 1,085 fish, $70 \%$ of the total harvest. The weekly fishing effort in number of vessels fishing in District 108 was variable with SW 27 and 33 through 41 being above average and SW 26, 28 through 32, and 42 being below average.

Table 3. Terminal run reconstruction for Stikine River sockeye salmon, 2010.

|  |  |  |  | Total | Tahlta |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahltan | Tuya | Mainstem | Stikine | EnhacedTahltan | WildTahltan |
| Escapementa | 22,702 | 13,350 | 24,831 | 60,883 | 9,596 | 13,106 |
| ESSR Harvestb | 0 |  |  | 0 |  |  |
| Broodstock | 4,484 |  |  | 4,484 | 1,807 | 2,677 |
| Natural Spawning | 18,218 |  | 24,831 | 43,049 | 7,789 | 10,429 |
| Excessc |  | 13,350 |  | 13,350 |  |  |
| Biological Samples | 158 | 224 |  | 382 | 74 | 84 |
| Canadian Harvest |  |  |  |  |  |  |
| Aboriginal | 4,145 | 3,004 | 127 | 7,276 | 1,654 | 2,490 |
| Upper Commercial | 687 | 520 | 9 | 1,215 | 268 | 419 |
| Lower Commercial | 19,185 | 14,965 | 7,899 | 42,049 | 5,126 | 14,059 |
| Total | 24,016 | 18,489 | 8,035 | 50,540 | 7,048 | 16,968 |
| \% Harvest | 57.8\% | 60.5\% | 42.2\% | 55.4\% | 50.2\% | 61.6\% |
| Test Fishery Harvest | 453 | 190 | 1,114 | 1,757 | 105 | 348 |
| Tuya Test | 1,192 | 1,429 | 171 | 2,792 | 530 | 662 |
| All Inriver harvest | 25,661 | 20,108 | 9,320 | 55,089 | 7,683 | 17,978 |
| (harvest plus samples) | 25,819 | 20,332 | 9,320 | 55,471 |  |  |
| Inriver Run | 48,521 | 33,682 | 34,152 | 116,354 | 17,279 | 31,084 |
| U.S. Harvesta |  |  |  |  |  |  |
| 106-41\&42 | 4,959 | 5,210 | 2,105 | 12,274 | 2,035 | 2,924 |
| 106-30 | 272 | 565 | 776 | 1,613 | 105 | 167 |
| 108 | 11,645 | 5,811 | 7,651 | 25,106 | 4,665 | 6,980 |
| Subsistence | 689 | 479 | 485 | 1,653 | 184 | 505 |
| Total | 17,565 | 12,064 | 11,018 | 40,647 | 6,990 | 10,575 |
| \% Harvest | 42.2\% | 39.5\% | 57.8\% | 44.6\% | 49.8\% | 38.4\% |
| Test Fishery Harvest | 0 | 0 | 0 | 0 | 0 | 0 |
| Terminal Run | 66,086 | 45,746 | 45,169 | 157,001 | 24,268 | 41,660 |
| Escapement Goal | 24,000 | 0 | 30,000 |  |  |  |
| Terminal Excessd |  | 16,927 |  |  |  |  |
| Total TAC | 41,633 | 28,819 | 14,055 | 84,507 |  |  |
| Total Harveste | 42,034 | 30,743 | 20,167 | 92,944 |  |  |
| Canada TAC | 20,816 | 14,410 | 7,028 | 42,254 |  |  |
| Actual Harvestfg | 24,016 | 18,489 | 8,035 | 50,540 |  |  |
| \% of total TAC | 115\% | 128\% | 114\% | 120\% |  |  |
| U.S. TAC | 20,816 | 14,410 | 7,028 | 42,254 |  |  |
| Actual Harvest fg | 17,565 | 12,064 | 11,018 | 40,647 |  |  |
| \% of total TAC | 84\% | 84\% | 157\% | 96\% |  |  |

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.
${ }^{\mathrm{e}}$ Includes traditional, ESSR, and test fishery Harvestes.
${ }^{\mathrm{f}}$ Does not include ESSR or test fishery Harvestes.
${ }^{g}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for Harvestes other than in the listed fisheries.

In 2014, the U.S. subsistence Chinook, sockeye, and coho salmon fisheries were conducted on the Stikine River and were managed by the USFS. Subsistence fisheries were restricted to federally qualified users and a permit issued by the USFS was required to participate. Subsistence fishing was restricted to the waters of the Stikine River from marine waters to the U.S./Canadian border and fishing in "clearwater" tributaries or side channels or at stock assessment sites was prohibited. Annual guideline harvest levels were 125 Chinook, 600 sockeye, and 400 coho salmon. Allowable gear for the fishery included: dipnets, spears, gaffs, rod and reel, beach seine, and gillnets not exceeding 15 fathoms in length with mesh size no larger than $5 \frac{1}{2}$ inches, except during the Chinook fishery when nets with mesh up to 8 inches were allowed. Subsistence fishing was allowed from June 14 to June 20 to target Chinook salmon, June 21 to July 31 to target sockeye salmon, and August 1 to October 1 to target coho salmon. A total of 124 permits were issued and the estimated harvests included 53 Chinook, 1,653 sockeye, and 135 coho salmon.

Preseason and inseason estimates of Stikine River Chinook salmon terminal run sizes did not result in ACs or ACs large enough to allow U.S. directed commercial and sport fisheries. The preseason forecast of 23,000 large Stikine River Chinook salmon was not large enough to yield any AC. Inseason forecasts ranging between 19,700 and 22,000 large Stikine Chinook salmon were similar to the preseason forecast and yielded minimal U.S. ACs. The postseason estimate of the total terminal run size based on MR information is 29,300 Stikine River Chinook salmon netting a U.S. AC of 480 fish (Table 1).
U.S. harvests of large Stikine River Chinook salmon in all District 108 fisheries were minimal. Estimated harvest of large Stikine River Chinook salmon harvested in the District 108 drift gillnet fishery from 26 through 29 (during sockeye salmon management period) was 348 fish. The initial gillnet sockeye season opening was postponed by one week in District 106 and by two weeks in District 108 due to Stikine Chinook salmon conservation concerns. District 108 troll hatchery access openings through the end of June resulted in a total harvest of 427 Stikine Chinook salmon. Troll hatchery access openings were also reduced for Stikine Chinook conservation in SW 23 through 25. Two of the three hatchery access areas (the two having the highest component of Stikine Chinook salmon in the harvests) within District 108 were reduced to one day openings in SW 23 through 25. The District 108 sport fish Stikine Chinook salmon harvest estimate from SW 18 through 29 was 965 fish. The final cumulative U.S. harvest of large Stikine Chinook salmon through SW 29, including the Stikine subsistence fishery and District 108 test fishery, was 1,303 fish. The final postseason estimate of the total terminal run was 19,615 large Chinook salmon and was based upon MR information. Based upon that final postseason estimate of the run size, the U.S. allowable catch was no large Stikine Chinook salmon above the BLC.

The initial gillnet sockeye season opening was postponed by one week in District 106 and by two weeks in District 108 due to Stikine Chinook salmon conservation concerns. Directed sockeye salmon drift gillnet fisheries in District 106 began in SW 25 at 12:00 noon on Monday, June 14, for an initial two-day period. By regulation, Monday openings
occurred during the first two sockeye salmon periods. The first sockeye salmon opening is normally two days and any decision to extend fishing is based on fishery performance estimated by management biologists monitoring the fishery on the grounds. Sockeye salmon harvest was below average in most areas and the fishery was allowed to close as announced. For this initial sockeye opening 16 boats fished in Clarence Strait (106-30) and 57 boats fished in Sumner Strait (106-41). The preseason SMM forecasted a total Stikine River TAC of 118,672 sockeye salmon and a Tahltan TAC of 66,325 sockeye salmon (Table 2). This run size would allow the U.S. fisheries to harvest a total of 59,336 Stikine River fish, which includes 33,163 Tahltan fish. The preseason forecast was used for SW 25- 27 while inriver run estimates were produced weekly starting in SW 27 and used through the remainder of the season.

During SW 26 (June 20-26), 52 boats fished in Sumner Strait, 15 boats fished in Clarence Strait, and 40 boats fished in District 108. Both districts were open for three days of fishing. This was the first opening of the season in District 108. Due to Stikine Chinook salmon conservation concerns, fishing boundary lines for the initial commercial opening in District 108 were expanded beyond the Stikine River Flats. The initial opening was announced for two days in each district and was extended by an additional day in both districts largely due to above average sockeye harvest rates observed. In addition, most, if not all, fishermen were using gillnets designed to catch sockeye further reducing harvest of Chinook salmon. The harvest pattern in District 106 was of concern because sockeye salmon harvest rates in the Point Baker section of the district were below expectations; this section usually has high harvest rates. The inseason otolith readings for subdistrict $106-41$ indicated that $9.2 \%$ of the harvest was comprised of thermally marked Tahltan fish while $23.0 \%$ were Tuya fish. In District 108, 23.8\% were thermally marked Tahltan fish and $26.4 \%$ were Tuya fish.

During SW 27 (June 27-July 3), 49 boats fished in Sumner Strait, 42 boats fished in Clarence Strait, and 69 boats fished in District 108. Both districts were opened for an initial three days this week based on near average sockeye harvest rates and inriver fishing conditions. On the grounds surveys of the gillnet fleet indicated those boats targeting sockeye salmon in District 108 had above average harvest rates. The District 106 sockeye harvest rates were split, with Clarence Strait and the Macnamara shoreline having solid harvest rates; however, the Point Baker area, although improved from the previous week, continued to have below average harvest rates. Although, there was below average sockeye harvest rates in Sumner Strait, the harvest rates were above average everywhere else, so a 24-hour midweek opening in District 108 was announced. The inseason otolith readings for subdistrict 106-41 for SW 27 indicated that $13 \%$ of the harvest was comprised of thermally marked Tahltan fish while $16 \%$ were Tuya fish. The District 108 reading indicated 22.2\% thermally marked Tahltan fish and 23.9\% Tuya fish. The first inseason terminal run estimate was produced this week and resulted in a total run that was over 20,000 fish less than the preseason forecast. This estimate reduced the U.S. TAC to 50,400 Stikine sockeye with 29,300 Tahltan fish. The U.S. Tahltan sockeye catch estimate at this point was 9,000 fish.

During SW 28 (July 4-July 10), District 106 and 108 were opened for an initial two days. There were 21 boats fishing in Clarence Strait, 27 boats in Sumner Strait, and a total of 32 boats fishing in District 108 for the week. Surveys on the fishing grounds indicated that sockeye salmon harvest rates were above average in District 106 (with the Point Baker area showing marked improvement) and above average for those boats targeting sockeye salmon in Section 8-B. With average to above average sockeye salmon harvest rates and a proportion of the District 108 fleet targeting chum salmon, a 24-hour extension was announced in both districts. Thermal marks for 106-41 were not available at the time the estimates of harvest and run size were made. In District 108, marked Tahltan fish contributed $35.4 \%$ while marked Tuya fish contributed $59.4 \%$. The Stikine sockeye salmon model estimate increased the total Stikine sockeye salmon U.S. TAC to 73,000 fish with a Tahltan TAC of 50,400 fish. The estimated cumulative U.S. harvest of Tahltan sockeye salmon was 19,000 fish. The mainstem run forecast remained consistent at to the prior week and the preseason forecast at 47,400 fish with a U.S. TAC of 8,500 fish. The estimated U.S. harvest of mainstem fish at this point was 3,200 fish. As in prior weeks, it was thought the SMM was overestimating run size because the continued low water levels on the Stikine River created near ideal inriver fishing conditions.

During SW 29 (July 11-July 17), 30 boats fished in Clarence Strait, 30 boats fished in Sumner Strait, and 54 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 for a maximum of two days in District 6. Any additional time during this three-week period would be in the form of a midweek opening in District 108. The effort fell substantially this week in both districts. Sockeye salmon harvest rates were above average in District 106 and in District 108. Due to the reduced effort in both districts, strong catch rates in District 106, and harvestable surplus indicated by the model, a 24hour midweek opening was scheduled. The inseason otolith readings for SW 29 indicated that the marked Tahltan fish contributed $5.0 \%$ of the $106-41$ harvest and $5.4 \%$ of the District 108 harvest. The marked Tuya fish contributed to $5.0 \%$ of the 106-41 harvest and $33.9 \%$ of the District 108 harvest. The estimates of Tahltan run size decreased while the estimates of Tuya and mainstem run size increased. It was again thought the SMM was continuing to overestimate run sizes due to continued low water on Stikine. The estimate of U.S. TAC of Tahltan fish decreased to 36,400 fish while the estimate of mainstem TAC increased to 18,000 fish. The U.S. cumulative harvest estimate of Tahltan sockeye salmon was 21,000 and the U.S. cumulative harvest estimate of mainstem sockeye salmon was 4,400.

During SW 30 (July 18-July 24), 58 boats fished in District 106, and 41 boats fished in District 108. Both districts were open for an initial two days. Effort dropped from the previous week to the lowest point of the season in District 106. Sockeye salmon harvest rates in District 106 continued to be above average; however, due to McDonald Lake sockeye salmon conservation only two days were allowed. Effort in 108 remained stable and below average. Harvest rates in District 108 dropped from previous weeks and due to concerns over mainstem stocks no additional time was granted in District 108. The inseason otolith readings for SW 30 indicated that marked Tahltan fish contributed 1.8\% of the 106-41 harvest and $4.3 \%$ of the District 108 harvest. The SMM estimated a U.S.

Tahltan TAC of 36,200 sockeye salmon this week. The U.S. harvest of Tahltan sockeye salmon through SW 30 was estimated at 23,200 fish. The SMM estimated a U.S. mainstem harvest of 6,700 sockeye salmon with a U.S. TAC of 23,400 fish. Low water conditions on the Stikine River persisted; sustaining the belief the SMM was overestimating run sizes.

During SW 31 (July 25-July 31), 64 boats fished in District 106 and 41 boats fished in District 108. Both districts were open for an initial two days. Sockeye salmon harvest rates continued to be above average in District 106 and near average for the small number of boats targeting sockeye salmon in District 108. The model produced this week decreased the mainstem run estimate and the assessment from the Tahltan River weir showed the potential for weaker than expected escapement. Due to constraints from McDonald Lake sockeye salmon and concern for mainstem stocks, no additional time was given in either district. This was the last week of restrictions based on McDonald Lake sockeye salmon and for sockeye salmon based management in both districts. The preliminary postseason run reconstruction indicated a U.S. harvest of 48,229 Stikine sockeye salmon comprised of 24,871 Tahltan fish, 13,323 Tuya fish, and 10,035 mainstem fish. The U.S. TAC for each component was 24,258 Tahltan fish, 16,657 Tuya fish, and 6,447 mainstem fish.

During SW 32 through 35 (August 1-August 28), both Districts 106 and 108 were managed for pink salmon. Section D of District 106 was closed from SW 32 through SW 36. Both districts were initially open for two days the first week due to below average harvest and poor pink salmon escapements. Abundance indicators showed an increase and the remainder of the opening during this period were 3-day openings. Pink salmon harvests in both districts are not always a true reflection of abundance because low prices for pink salmon and harvests of other more valuable species may affect the fishing patterns and methods. During the 2010 season, the fishing effort was generally above the average effort in both districts throughout the pink salmon management period. Above average coho salmon harvests and an increase in the price paid for pink salmon were likely the catalysts behind the increased effort in both districts. Total pink salmon harvests were above average in District 106 and District 108 and may be attributed to the increase in the exvessel value increase seen for pink salmon this year.

Coho salmon management typically commences in late August or early September in both the District 106 and 108 gillnet fisheries. SW 36 the management emphasis changed from pink to coho salmon. Prior to the switch to coho salmon management, the District 106 fishery harvested 121,898 coho salmon, approximately 54\% of the total District 106 coho salmon catch. The Neck Lake/Burnett Inlet enhanced summer coho runs made up a significant component of this early coho salmon harvest with an estimated contribution of 49,000 coho salmon in the District 106 fishery prior to SW 36. The average weekly Alaska hatchery coho salmon harvest rate in the District 106 fishery was above average until SW 30, at which point it remained below average until SW 34. SW 35 through 38 had above average hatchery harvest component and from SW 39 throughout the end of the season the hatchery component remained below average. Total average weekly coho salmon harvest rates in District 106 were near to above average though out the season
with only SW 29, 30, and 40 being slightly below average. In District 108, weekly coho salmon harvests were generally above average throughout the end of the season. Coho salmon harvests in both districts tapered off after SW 38 and 39. During the coho salmon management period, both districts had three-day openings except for SW 39 and 42, which were two-day openings. The 2010 gillnet season in both districts ended at noon on Tuesday, October 12.

## Canadian Fisheries

The combined Canadian commercial and aboriginal gillnet fisheries, and sport fishery harvests in the Stikine River were 1,819 large Chinook (includes 64 release mortalities), 698 nonlarge Chinook (includes 28 release mortalities), 50,540 sockeye, 5,301 coho, 122 chum, and 209 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 catch of 2,792 sockeye, 8 Chinook salmon, 8 nonlarge Chinook, 2 pink, and 1 coho salmon. A total of 1,364 large Chinook and 140 nonlarge Chinook were harvested by the commercial fleet under the auspices of a test fishery. The PST test fishery quota was 1,400 large Chinook to be taken, in proportion to historical average run timing, between SW 19 and 25 (May 02 to June 19).

The harvest of large Chinook salmon was $75 \%$ below average and the lowest harvest recorded since the targeted Chinook salmon fishery started in 2005. Harvests of nonlarge Chinook salmon were also well below average. The sockeye salmon harvest was $7 \%$ 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 25,537 fish, $51 \%$ of the harvest. The harvest of 5,301 coho salmon was well above the average of 978 fish.

A sockeye salmon test fishery was conducted for stock assessment purposes in the lower Stikine River from July 16 to September 04, 2010. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery catches totaled: 2 large Chinook, no nonlarge Chinook, 1,757 sockeye, 741 coho, 227 pink, 117 chum salmon, and 71 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 harvest, 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. Unfortunately, no sockeye salmon test fishing was conducted during the late June and early July component of the sockeye salmon run due to budget constraints. Proxy test fishery harvests and CPUE were calculated for this period of the migration based on the performance of the commercial fishery and the historical correlation between commercial and test CPUE, 1996-2004.

A coho salmon test fishery was conducted in the lower Stikine River from September 05 to October 13, 2010. The test fishery was located immediately upstream from the Canada/U.S. border. Test fishery harvest was 344 coho, 2 chum, 2 pink, and 27 steelhead
trout (all steelhead trout 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 (1986-2009), which provided an interannual measure of the relative run strength of Stikine coho salmon.

## Lower Stikine River Commercial Fishery

The lower Canadian commercial fishery in the lower Stikine River harvested 1,209 large Chinook, 698 nonlarge Chinook, 50,540 sockeye, 5,301 coho, 209 pink, and 122 chum salmon. An additional 1,364 large Chinook salmon were harvest in the inriver test fishery and accounted against the test fish allocation of 1,400 large Chinook salmon. A total of 232 steelhead trout were released in 2010; some pink and chum salmon were also released. The harvest of Chinook salmon excludes an estimated released fish mortality of 28 large and 32 nonlarge fish. The harvest of large Chinook salmon was well below average, while the harvest of nonlarge Chinook salmon was below average. The harvest of coho salmon was well above average. The sockeye salmon harvest was average. There was not a targeted Chinook salmon fishery in 2010. The commercial fishing fleet, however, served as a test fishery during SW 19-25 (May 02 to June 19), with a capped harvest quota of 1,400 pieces. The fleet targeted sockeye salmon for a total of 23 days; below the average of 31 days. The coho salmon fishery was opened for a total of 16 days; above the average of 8 days.

Based on final estimates the stock composition of the lower river sockeye salmon harvest was 5,126 enhanced Tahltan fish, which accounted for $12 \%$ of the sockeye salmon harvest; 14,059 wild Tahltan fish accounting for $33 \%$ of the harvest; 7,899 mainstem fish accounting for $19 \%$ of the harvest; and 14,965 enhanced Tuya fish which accounted for $36 \%$ of the catch (Table 3).

Stock compositions of the commercial Chinook salmon harvest taken incidentally in the targeted sockeye fisheries are not available. However, assuming that the Chinook salmon catch 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 100 large Chinook salmon, the harvest of large Chinook salmon originating from 'other' stocks was approximately 1,100 fish.

Weekly Chinook and sockeye salmon guideline harvests, based on SCMM, SMM, MR, and other forecasts of the total allowable catch (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. A 1,100 large Chinook salmon were allocated to the upper Stikine fisheries after SW 25 to help manage the lower river harvest. The allocations were 120 fish in the sport fishery, 30 fish in the upper commercial fishery, and 650 fish in the Aboriginal fishery. A total of 8,000 sockeye salmon were 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 inriver test fishery. From SW 26 through SW 29, 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 fishery on SW 34. The management mainstem sockeye salmon was advanced from SW 31 to SW 30 in 2010 in an attempt to avert the downward trending escapement of this stock. The coho salmon management regime commenced on SW 35.

The preseason estimate of 22,900 large Chinook salmon was under the treaty agreed to threshold run size of 28,100 fish. Targeted commercial fisheries, therefore, could not be prosecuted by either Canada or the U.S. Members of the TTC agreed to Canada conducting an inriver test fishery under a tightly controlled fishing regime undertaken by the lower Stikine commercial fishery fleet. This was done in order to collect inseason CPUE and tag recovery data required to generate weekly run size estimates. The test fishery (here known as an assessment fishery) harvest was capped at 1,400 large Chinook salmon. Weekly quotas were loosely apportioned to run timing through the lower Stikine commercial fishery from SW 19-25. The weekly quotas were weighed slightly to the front end of the run in order to maximize the probability of recovering tagged fish and generating a population estimate early in the run. Following are the weekly quotas: SW 19, 67 fish; SW 20, 190 fish; SW 21, 230 fish; SW 22, 213 fish; SW 23, 175 fish; SW 24, 257 fish; and SW 35, 268 fish. Any shortfalls or overages in the weekly harvests were added to or subtracted from the following week's quota. The Chinook salmon assessment fishery commenced at 0800 hours May 06 (SW 19) for a scheduled opening of 12 hours. Fishers were limited to one net with a maximum length of 135 m . The maximum mesh size was 203 mm (8 inches). The fishing zone extended from the Canada/ U.S. boundary to a point near the confluence of the Porcupine and Stikine rivers.

The first opening, SW 19, was based on a test fish guideline harvest of 67 large Chinook salmon. Fishing conditions were relatively good. The estimated harvest at 1400 hours of 22 fish did not warrant an extension. The fishery was thus held at 12 hours; the total harvest was 60 large and 4 nonlarge Chinook salmon. The c/b/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 13.3 vs the 5 -year average of 5.7 large Chinook salmon. The CPUE at the Kakwan tagging site was approximately 42\% of average and the harvest to date taken by the District 108 recreational fishery was $28 \%$ of average.

The fishery was posted for 12 hours in SW 20 with a weekly guideline harvest of 196 large Chinook salmon. The estimated harvest at 1400 hours was 29 fish which prompted an 18 hour extension. The harvest after 24 hours fishing was only 85 large Chinook salmon and resulted in the fishery being extended another 24 hours for a total fishing time of 2.2 days. The final harvest was 170 large and 8 nonlarge Chinook salmon taken under good fishing conditions. The c/b/d of 8 large Chinook salmon was slightly below the 5 -year average of 14 large Chinook salmon. The CPUE at the Kakwan tagging site was only 46 percent of average, while the catch to date taken by the District 108 recreational fishery was approximately 20 percent of average.

The fishery was posted for 12 hours in SW 21 with a weekly guideline harvest of 254 large Chinook salmon. The estimated harvest at 1400 hours was 45 fish which prompted an 18 hour extension. The harvest after 24 hours fishing was only 129 large Chinook salmon and resulted in the fishery being extended another 10 hours for a total fishing time of 2.0 days. The final harvest was 203 large and 9 nonlarge Chinook salmon taken under moderate fishing conditions (river starting to rise). The c/b/d of 11 large Chinook salmon was below the 5 -year average of 18 large Chinook salmon. The CPUE at the Kakwan tagging site was $39 \%$ of average, while the harvest to date taken by the District 108 recreational fishery was $25 \%$ of average. A good measure of the fleet switched from set gillnets to drift gillnets, which was prompted by the increase in river volume. Drift fishing is, in general, more productive than fishing set nets at moderate to high flow regimes.

In SW 22 the fishery was posted for 12 hours with a weekly guideline harvest of 260 large Chinook salmon. The estimated catch at 1400 hours was 68 fish which prompted a 12 hour extension for a total fishing time of one day. The final harvest was 216 large and 20 nonlarge Chinook salmon taken under moderate fishing conditions (river continuing to rise). The c/b/d of 24 large Chinook salmon was above the 5 -year average of 15 large Chinook salmon. The CPUE at the Kakwan tagging site was only 35 percent of average, while the harvest to date taken by the District 108 recreational fishery was 31 percent of average. The first inseason run size estimate was generated on Wednesday of this week. The run size estimate, based on averaging the model and MR estimate, of 25,100 large Chinook salmon slightly exceeded the trigger run size of 24,500 which permits a directed commercial harvest. It was decided by both Canadian and U.S. managers to forego this estimate and maintain the use of the preseason estimate. This decision was based on the uncertainty around the new estimate, i.e. only 20 percent of the run had transited the Kakwan test/tagging site and only 10 tags were recovered in the assessment fishery to date.

In SW 23 the fishery was posted for 12 hours with a weekly guideline harvest of 230 large Chinook salmon. The estimated harvest at 1400 hours (2:00p.m.) was 59 fish which prompted a 12 hour extension for a total fishing time, again this week, of one day. The final harvest was 176 large and 13 nonlarge Chinook salmon taken under moderate fishing conditions (river was relatively high, but crested during the assessment fishery). The c/b/d of 20 large Chinook salmon was slightly below the 5 -year average of 23 large Chinook salmon. The CPUE at the Kakwan tagging site was only 29 percent of average, while the harvest to date taken by the District 108 recreational fishery was approximately 38 percent of average. The new run size estimate, based on averaging the model and MR estimate, of 22,300 large Chinook salmon was slightly short of the trigger run size of 24,500 which permits a directed commercial harvest. Both managers concluded that in all likelihood the run was returning in numbers near or less than the preseason season expectation of 22,900 large Chinook salmon. It was highly unlikely that a directed fishery would be mounted on this year's run.

The fishery was posted for 12 hours in SW 24 with a weekly guideline harvest of 295 large Chinook salmon. The estimated harvest at 1400 hours was 107 fish which prompted a 2 hour extension for a total fishing time of 14 hours. The final harvest was 328 large and 42 nonlarge Chinook salmon taken under superb fishing conditions (river unseasonably low and dropping). The c/b/d of 61 large Chinook salmon was well above the 5 -year average of 35 large Chinook salmon. The CPUE at the Kakwan tagging site was only 32 percent of average, while the harvest to date taken by the District 108 recreational fishery was approximately 38 percent of average. The harvests taken in the upper Stikine aboriginal fishery, however, were slightly above average. The new run size estimate, based on averaging the model and MR estimate, dropped from 22,300 to 19,700 large Chinook salmon.

The fishery was posted for 12 hours in SW 25 with a weekly guideline harvest of 235 large Chinook salmon. The estimated harvest at 1400 hours was 108 fish which prompted a 2 hour extension for a total fishing time, again this week, of 14 hours. The final harvest was 211 large and 44 nonlarge Chinook salmon taken under good fishing conditions (river unseasonably low). The c/b/d of 52 large Chinook salmon was well above the 5year average of 30 large Chinook salmon. The CPUE at the Kakwan tagging site was only 44 percent of average, while the harvest to date taken by the District 108 recreational fishery was approximately 40 percent of average. The harvests taken in the upper Stikine aboriginal fishery, however, were well above average. The new run size estimate, based on averaging the model and MR estimate, increased from 19,700 to 20,700 large Chinook salmon. This week marked the final week of the Chinook salmon assessment fishery. The total harvest of 1,364 large Chinook salmon was just short of the 1,400 fish quota. A total of 21 tags were recovered in the course of the fishery, which provided for inseason MR estimates and accounted for approximately 30 percent of the tag recoveries for the total season.

In SW 26 the fishery management focus switched from Chinook to sockeye salmon; however, the weak run of Chinook salmon resulted in managing the fishery based on both sockeye and Chinook salmon harvests considerations. The sockeye salmon management regime was focused on the Tahltan stock grouping and remained so till SW 29. 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 26-30. (The total BLC was 2,300 fish; the balance remaining after the l,500 fish lower river allocation was allocated to aboriginal, upper commercial and recreational fisheries.) In order to minimize the incidental catch of Chinook salmon, a mesh size restriction of 140 mm (5.5in) was implemented. The start time for weekly fishing periods returned to Sunday at 1200 hours, the standard opening schedule used in past commercial fisheries. Fishers were permitted one net only and the commercial fishing grounds remained the same as what was defined in the Chinook salmon assessment fishery. As in 2009, fishers were requested to release all healthy large Chinook salmon caught in the course of the sockeye salmon fishery. Fishers were required to log the number of all released fish in release forms provided by DFO.

The fishery was posted for an initial one day opening in SW 26 with a Chinook salmon guideline catch of 700 fish and a sockeye salmon guideline harvest of 4,000 fish, including 3,000 Tahltan Lake sockeye salmon. The sockeye salmon TAC was based on the preseason expectation of 187,700 fish. A harvest estimate of 303 sockeye and 105 Chinook salmon after 6 hours fishing prompted a one day extension. The day one harvest of 726 fish was below expectations; the sockeye salmon c/b/d of 78 fish was above the 38 fish c/b/d average, but Tahltan Lake component was only average. The Chinook salmon harvest was only 225 fish, half of expectation based on the 6 hour harvest report. It was decided to hold on two days in light of the average Tahltan Lake fish c/b/d in concert with the substandard harvests reported from District 106 last week and the incidental harvest of Chinook salmon. 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 460 large Chinook ( 5 released), 339 nonlarge Chinook, and 1,835 sockeye salmon, which was below the Chinook salmon guideline harvest and well below the sockeye salmon guideline harvest of 4,000 fish. The total weekly sockeye salmon harvest was comprised of $24 \%$ Tahltan enhanced, $36 \%$ Tahltan wild, $34 \%$ Tuya, and $6 \%$ mainstem fish. The Tahltan c/b/d was 46 fish; average 43 fish. Both U.S. districts 106 and 108 harvests improved slightly this week. The Chinook salmon harvests in upper Stikine fishery continue to be above average. The Little Tahltan weir was installed this week. Thirtythree Chinook salmon transited the weir vs. an average count of 93 by this date. The Kakwan cumulative CPUE was 46\% of average.

The fishery was posted for an initial three day opening in SW 27 with a Chinook salmon guideline harvest of 600 fish and a sockeye salmon guideline catch of 14,000 fish, including 9,500 Tahltan Lake sockeye. The sockeye salmon TAC was based on the preseason expectation of 187,700 fish. An inseason model estimate of 165,000 fish generated midweek resulted in the TAC dropping to approximately 10,000 fish, including a Tahltan TAC of 6,800 fish. The near average harvests and $c / b / d$ reported after the second day of fishing prompted a one day extension for a total fishing time of four days this week: the extension was based on the preseason estimate of 187,700 fish. Because the first model run generated during the midweek showed a drop in the forecast, the fishery was held at just four days. 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 four day fishery yielded a harvest of 476 ( 27 released) large Chinook, 182 nonlarge Chinook, and 11,479 sockeye salmon, which was below the Chinook salmon guideline harvest and above the sockeye salmon guideline harvest approximately 10,000 fish, based on the most recent run size estimate of 165,200 fish. The total weekly sockeye harvest was comprised of $27 \%$ Tahltan enhanced, 30\% Tahltan wild, 40\% Tuya, and 3\% mainstem fish. The Tahltan fish c/b/d was 102 fish; average 112 fish. The Tahltan TAC of 5,400 fish was exceeded by approximately 1,300 fish. The preliminary U.S. harvest estimates for last week, which were reported as being above average, were approximately half of the actual harvest. This statistic caused some concern as the U.S. preliminary harvests played a role in the decision to extend one day this week. Further, the record low flows probably resulted in an increased exploitation rate and an inflated CPUE than what would have been observed
in normal flow years. The 'inflated’ CPUE, which drives the SMM, may result in over estimating the run size. The Chinook salmon harvests in upper Stikine fishery continue to be above average, whereas the Little Tahltan weir count of 40 fish lagged well behind the average of 443 large Chinook salmon. The Kakwan cumulative CPUE was $41 \%$ of average this week.

In SW 28 the fishery was posted for an initial two day opening with a Chinook salmon guideline harvest of 403 fish and a guideline harvest of 6,800 Tahltan sockeye salmon. Of the several run size estimates generated to date, ranging from 165,000 to 212,000 sockeye, the lowest estimate based on last week's model run was adopted to govern this week's fishery. This decision was made principally on the uncertainties around and the suspicion that the exploitation rate CPUE under the current extreme low flow regimes was causing the model to overestimate the run size. The day one harvest of 2,300 sockeye salmon, including a harvest of approximately 1,300 Tahltan fish prompted a one day extension. There were no further extensions given; the fishery was held at three days. The three day fishery yielded a harvest of 144 large Chinook ( 9 released), 96 nonlarge Chinook, and 9,175 sockeye salmon including 4,611 Tahltan fish. The Chinook salmon harvest was below the guideline harvest as was the catch of Tahltan sockeye salmon. The total weekly sockeye salmon harvest was comprised of $20 \%$ Tahltan enhanced, $30 \%$ Tahltan wild, $48 \%$ Tuya, and $2 \%$ mainstem fish. The Tahltan fish c/b/d was 96 fish; average 117 fish. The Tahltan TAC of 6,800 fish was not met, with a total harvest of only 4,611 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 not returning in the numbers expected based on the preseason estimate, and that the low water was confounding the inseason estimates by driving the models to generate an inflated version of the run size. The preliminary U.S. harvest estimates for this week, however, indicated harvests that were slightly above average. The upper river aboriginal fishery harvests were reported as being fair. It was suspected that the due to low water conditions that the sockeye would arrive at the aboriginal fishing site earlier than normal. The Chinook salmon harvests in upper Stikine fishery dropped dramatically and were below the seasonal average. The Little Tahltan weir count of only 145 fish continues to lag well behind the average of 1,215 large Chinook salmon. The upper Stikine recreational fishery harvests were reported as being poor.

In SW 29 the fishery was posted for an initial two day opening with a guideline harvest of 4,800 Tahltan sockeye salmon. Based on an inriver run size regression, the run size increased to 186,000 fish, including 76,400 Tahltan fish. The day one harvest of 2,174 fish, including a harvest of approximately 1,340 Tahltan fish prompted a one day extension. The day two harvest of approximately 1,900 Tahltan fish prompted another one day extension. There were no further extensions given; the fishery was held at four days. The four day fishery yielded a harvest of 101 large Chinook (16 released), 64 nonlarge Chinook, and 10,324 sockeye salmon, including a Tahltan sockeye salmon harvest of 4,758 fish; close to the guideline harvest of 4,800 fish. The total weekly sockeye salmon harvest was comprised of $13 \%$ Tahltan enhanced, $33 \%$ Tahltan wild, $43 \%$ Tuya, and $11 \%$ mainstem sockeye respectively. The Tahltan fish c/b/d was 74 fish; average 84 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 nearly double the average, as was the Tahltan weir count which stood at 13,900 fish as of this week. The fish entered the lake early again this year as was the case in 2009. 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 only 158 fish continues to lag well behind the average of 2,367 large Chinook salmon. The upper Stikine recreational fishery harvests were reported as being poor.

In SW 30 the fishery was posted for an initial two day opening with a guideline harvest of 1,300 mainstem sockeye salmon. The run size increased to 190,000 based on an inriver run size regression, including 45,400 mainstem fish. The day one harvest of 2,441 fish, including a harvest of approximately 1,000 mainstem fish did not trigger an extension. In fact it was projected that the mainstem guideline harvest would be exceeded this week. The contribution of mainstem fish dramatically increased this week, jumping from $11 \%$ fish in SW 29 to $47 \%$ fish this week. The two day fishery yielded a harvest of 10 large Chinook (3 released), 14 nonlarge Chinook, and 4,744 sockeye salmon, including a 2,251 mainstem fish, exceeding the guideline harvest by 951 fish. The total weekly sockeye salmon harvest was comprised of $12 \%$ Tahltan enhanced, 10\% Tahltan wild, 31\% Tuya, and $47 \%$ mainstem fish. The mainstem fish c/b/d was 70 fish; average 56 fish. The upper river aboriginal harvests remained strong, whereas the Tahltan weir count waned dramatically from its initial, high early counts. The projected escapement, based on an early running timing, was only 15,000 fish. The Little Tahltan weir count of only 641 fish continues to lag well behind the average of 4,209 large Chinook salmon. The Tahltan River was surveyed to determine if the migrant Chinook and sockeye salmon were holding along its length. Very few Chinook salmon were observed. There were no obvious signs of barriers that impeded their migration. Large numbers of sockeye salmon, however, appeared to be held up by a chute falls located on the Tahltan River upstream of its confluence with the Little Tahltan River. This chute falls was subject to stream bed modification done by DFO in the mid 1960(s).

In SW 31 the fishery was posted for an initial two day opening with a guideline harvest of 1,100 mainstem sockeye salmon. The run size remained at 190,000 based on an inriver run size regression, including 45,400 mainstem sockeye salmon. The day one harvest of only 749 sockeye salmon, including a harvest of approximately 375 mainstem sockeye salmon did not trigger an extension. The two day fishery yielded a harvest of 13 large Chinook ( 4 released), 4 nonlarge Chinook, and 1,855 sockeye salmon including 1,015 mainstem fish, close to the guideline catch by 1,100 fish. The total weekly sockeye salmon harvest was comprised of $6 \%$ Tahltan enhanced, $24 \%$ Tahltan wild, $16 \%$ Tuya, and $55 \%$ mainstem sockeye. The mainstem fish c/b/d was 32 fish; average 60 fish. The upper river Aboriginal effort dropped, while the harvests remained relatively strong. The Tahltan weir count showed some improvement this week. The projected escapement based on an early running timing was 21,000 fish.

In SW 32 the fishery was posted for an initial one day opening with a guideline harvest of 400 mainstem fish. The TAC was based run size estimate of 180,200 fish generated from
an inriver regression model ran late in SW 31. The estimated mainstem sockeye salmon run size was 43,000 fish. A harvest estimate taken after 8 hours fishing yielded a catch of 400 fish ( $79 \%$ mainstem). A new inriver regression model estimate, using the most recent catches, indicated a mainstem run size of approximately 60,000 fish. A mainstem estimate of 48,700 fish, and a TAC of 1,500 for this week, was generated on day one of this week's fishery by averaging the latest inriver regression estimate and the estimate generated late in SW 31, less 10\% of the mainstem component (professional judgment). In light of the mainstem guideline harvest of 1,500 fish, the day one harvest of 915 sockeye salmon, including a harvest of approximately 850 mainstem fish, did not trigger an extension. The two day fishery yielded a harvest of 3 large Chinook, 26 coho, and 1,554 sockeye salmon, including 1,433 mainstem fish, close to the guideline harvest. The total weekly sockeye salmon harvest was comprised of $3 \%$ Tahltan enhanced, $1 \%$ Tahltan wild, $4 \%$ Tuya, and $92 \%$ mainstem sockeye salmon. The mainstem sockeye salmon c/b/d was 60 fish; average 50 fish. The upper river aboriginal effort continues to drop. The Tahltan weir count to date was 20,100 fish; the projected escapement based on an early run timing scenario increased to 22,000 fish.

In SW 33 the fishery was posted for an initial one day opening with a guideline harvest of 750 mainstem fish. The TAC was based on a run size estimate of 180,200 fish generated from two runs of an inriver regression model, minus $10 \%$ of the mainstem component. The estimated mainstem sockeye salmon run size was 47,800 fish. A harvest estimate taken after 20 hours fishing yielded a harvest of 500 fish ( $88 \%$ mainstem). As a result, the fishery was extended 6 hours. This week's fishery yielded a harvest of 1 large Chinook, 109 coho, and 727 sockeye salmon, including 657 mainstem fish, close to the guideline harvest. The total weekly sockeye salmon harvest was comprised of $1 \%$ Tahltan enhanced, 6\% Tahltan wild, 2\% Tuya, and $91 \%$ mainstem fish. The mainstem sockeye salmon c/b/d was 44 fish; average 32 fish. Only one net remains fishing in the upper river Aboriginal fishery. The Tahltan weir count to date was 21,200 fish; the projected escapement based on an early run timing scenario remained at approximately 22,000 sockeye salmon.

In SW 34 the fishery was posted for an initial one day opening. The run size estimate was 176,900 fish. The fishery was not extended. This week's fishery yielded a harvest of 197 coho and 168 sockeye salmon, including 147 mainstem fish. The total weekly sockeye salmon harvest was comprised of no Tahltan enhanced, 11\% Tahltan wild, 2\% Tuya, and $87 \%$ mainstem fish. The mainstem sockeye salmon c/b/d was 12 fish; average 9 fish. There was no Aboriginal fishing activity conducted this week. The Tahltan weir count to date was 21,700 fish; the projected escapement based on an early run timing scenario remained at approximately 22,000 fish.

In SW 35 the fishery was opened for an initial two day period with dual management objectives focused on both coho and sockeye salmon. On average $91 \%$ of the sockeye salmon run has passed the fishery by this week. The sockeye run size increased to 180,900 fish, including a mainstem component of 47,500 fish. The guideline harvest for this stock grouping was less than 200 fish. After one day of fishing and a total harvest of 88 sockeye and 395 coho salmon, it was decided to hold the fishery at two days.

In SW 36-37 the fishery was opened for an initial three day period. The fleet size was reduced to only five licences; hence, the exploitation rate was expected to be substantially reduced. 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 718 coho and 32 sockeye salmon the fishery was extended two days. After four days of fishing and a harvest of 1,427 coho and 53 sockeye salmn the fishery was extended for a five day period. Finally, two, two day extensions were given in order to harvest the 5,000 piece quota. The final day of fishing was September11. The final coho salmon harvest was 5,301 fish; 349 fish were taken in the course of the sockeye salmon fishery and, therefore, not counted toward the 5,000 piece 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 1,215 sockeye salmon were caught in 2010, which was above the average of 796 fish. The total nonlarge Chinook salmon harvest of 48 was well above the average harvest of 8 fish, while the harvest of 16 large Chinook salmon was near the average harvest. The fishing effort of 15 boat days fished was average. 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. In suit with the lower Stikine commercial fishery, there was no targeted Chinook salmon fishery conducted in the upper Stikine in 2010.

## Aboriginal Fishery

The Stikine River aboriginal fishery, which is located near Telegraph Creek, B.C., harvested 512 large Chinook, 232 nonlarge Chinook, and 7,276 sockeye salmon. The harvest of large Chinook salmon was $35 \%$ below average, while the harvest of sockeye salmon was $36 \%$ above average. The harvest of nonlarge Chinook salmon was average. As in 2009, the sockeye salmon run timing to the fishing grounds was approximately one week early. The fishing conditions were very good throughout the course of the fishery which extended from SW 27-33.

## 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 2010 the harvest estimate was 50 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

A total of 22,860 sockeye salmon were counted through the Tahltan Lake weir in 2010; $28 \%$ below the average of 31,550 fish. The 2010 count was approximately $5 \%$ below the escapement point estimate of 24,000 and $15 \%$ above the lower end of the escapement goal range of 18,000 to 30,000 fish. An estimated 7,789 fish ( $48 \%$ ) originated from the fry-stocking program which is below the $38 \%$ contribution of smolts observed in 2007, the principal cycle year contributing to the 2010 run. A total of 158 sockeye salmon were sacrificed at the weir for stock composition analysis. The goal to collect a minimum of 300 fish was aborted inseason due to run size concerns. In addition, a total of 4,484 sockeye salmon were collected for broodstock, resulting in a spawning escapement of 18,218 sockeye salmon in Tahltan Lake.

The spawning escapements for the non-Tahltan and the Tuya stock groups are calculated using stock ID, test fishery, and inriver commercial harvest data. Because the test fishery was not conducted at the outset of the sockeye run a decision was made to use the weekly rate of change from the Stikine River lower river commercial fishery to assess weekly inseason run size. Based on this run reconstruction approach the escapement estimates were 24,831 mainstem and 13,350 Tuya sockeye salmon. The mainstem spawning escapement is $15 \%$ below average and below the point escapement goal of 30,000 fish, but is within the range of 20,000 to 40,000 fish. The aerial survey results index count was 1,117 fish, observed on 12 Sept, was $32 \%$ above average. It appears that advancing the inriver management of mainstem sockeye salmon date one week starting on SW 30 succeeded in improving the escapement numbers to the indices streams.

The existence of enhanced Tuya sockeye salmon 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 was conducted in 2004 and 2005 concluded that in the short term the straying of Tuya River sockeye salmon does not pose a 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 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 rockslide area.

For the second 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 21 July, while en route to camp, an aerial survey was done. Although the viewing conditions were somewhat impaired due to the murky nature of the flow, large schools of 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 had 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 2010 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. Most fish were caught by angling, as the extremely low water conditions rendered the set net sites of moderate utility. Eight visual assessment of fish passage was conducted at the blast site. The number of salmon breaches and the number of successful attempts were recorded over a 60 minute period per day, from July 21-24. Of the 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. Eighty-seven percent 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 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 addressed.

The third year of an experimental test fishery designed to harvest Tuya River sockeye salmon at a site on the mainstem Stikine River located between the mouths of the Tahltan and Tuya rivers was conducted from July 21 to 29 . The total harvest from the test fishery was 2,792 sockeye, 7 large Chinook, 8 nonlarge Chinook, 2 pink, and 1 coho salmon. Otolith analyses indicate that 1,429 fish (52\%) were Tuya origin. The balance of the catch consisted of $19 \%$ Tahltan enhanced, $24 \%$ Tahltan wild, and $6 \%$ mainstem sockeye
salmon. 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 2010 Chinook salmon escapement enumerated at the Little Tahltan River weir was 1,057 large fish and 221 nonlarge Chinook salmon. The escapement of large Chinook salmon in the Little Tahltan River was well below the average of 6,343 fish and below the Canadian escapement target for this stock of 3,300 large Chinook salmon. The weir count was also below the low end of the Canadian escapement target range of 2,700 to 5,300 large fish. The nonlarge Chinook count was average.

A MR study was conducted again in 2010 concurrent with the SCMM to assess the inriver Chinook salmon abundance. Inseason MR estimates were calculated weekly post SW 23. The postseason estimate of total Stikine River spawning escapement based on tag recoveries in the commercial fishery and spawning ground recoveries was 15,116 large Chinook salmon, $44 \%$ below the average escapement of 34,510 . The escapement was $13 \%$ below the escapement 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 $7 \%$ of the total Stikine River escapement. The percentage is well below average.

Stikine River Chinook salmon run timing to the Lower Stikine commercial fishing grounds was normal, as was the entry time to the Little Tahltan weir. Verrett Creek escapements counts were judged as relatively weak, but an improvement from the 20072009 runs, as reported by the carcass pitch crew stationed at the creek from 2005-2012 August. The Verrett Creek project is primarily a study to collect spaghetti tags; not to assess escapement numbers. A below average run of Shakes Creek Chinook salmon was also reported by residents living at the creek mouth.

## Coho Salmon

Aerial surveys of six index sites were conducted on November 03. The combined count of 1,715 coho salmon, under moderate viewing conditions, was $53 \%$ below the average of 3,750 coho salmon. All indices, except the Porcupine slough site, were below average. The count of spawning coho at the Porcupine slough site was $70 \%$ above average. There were very poor showings of spawners in the West Katete, Katete, and Craig rivers. The average counts from these three sites are approximately 2,600 fish, while this year's count was 305 fish.

A coho salmon drift gillnet test fishery was conducted from September 04 to October 13 2010. The total harvest was 344 coho, 2 pink, 2 chum salmon, and 27 steelhead trout was taken in 483 drift fishing events. Each event was approximately 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 (catch per drift) was 6.7 fish; average 5.5 fish. It should be
noted that the fishing 2010 conditions unusually good due to low river flows. This test fishery has been operated a various levels of vigour since 1986 through to 2009. (Funding in 2007 was not granted.)

## Sockeye Salmon Run Reconstruction

The final postseason estimate of the terminal Stikine River sockeye salmon run size is approximately 157,001 . Of this number, approximately 66,086 were of Tahltan Lake origin (wild \& enhanced), 45,746 were of Tuya origin (fry from Tahltan broodstock stocked into Tuya Lake), and 45,169 were mainstem stocks (Table 3). These estimates are based on inseason and historical data including: otolith recovery and analysis in the U.S. Districts 106 and 108 harvests; otolith analysis, egg diameter stock-composition estimates for inriver harvests from the Canadian commercial, aboriginal, ESSR, and test fishery catches; and escapement data. The 2010 terminal run was below average and well below the preseason forecast of 274,400 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 54 days from June 20 through October 14, 2010. The harvest totaled 1,676 Chinook, 61,947 sockeye, 62,204 coho, 132,354 pink, and 488,870 chum salmon. Harvests of coho, pink, and chum salmon were above average, and the harvest of Chinook and sockeye salmon were below average.

Hatchery stocks contributed significantly to the numbers of both sockeye and chum salmon harvested and minor numbers to the harvest of other species. The 2010 season was the eleventh year of significant numbers of adult sockeye salmon returning to the Snettisham Hatchery inside Port Snettisham. These fish contributed significantly to the harvests in Taku Inlet and Stephens Passage. The Speel Arm Special Harvest Area (SHA) inside Port Snettisham was opened to common property fishing during SW 35 and 36 to target Port Snettisham hatchery sockeye.

A bilateral review of the escapement goal for large Taku Chinook salmon completed in early 2009 resulted in a revised escapement goal range of 19,000 to 36,000 fish. This along with the 2010 preseason terminal run estimate of 41,328 large Taku Chinook salmon allowed for directed Chinook salmon fisheries in District 111 in 2010. However, when portioned over the run timing, the allowed catch was deemed too small to provide for manageable commercial fisheries. Subsequent inseason estimates fluctuated slightly above and below the preseason estimate, and the fifth inseason estimate of 36,071 large Chinook salmon generated in SW 25 did not provide any allowed harvest for U.S. directed fisheries. The total 2010 traditional drift gillnet large Taku River Chinook salmon harvest based on GSI analysis in District 111 was 526 fish. Personal use and sport fish harvests added another 1,020 fish for a total of 1,546 large Taku River Chinook salmon. Postseason coded wire tag (CWT) analysis indicates Alaskan hatchery Chinook salmon contributed at least 235 fish to the District 111 harvest, or $14 \%$ of the total harvest. The Taku River stock assessment program at Canyon Island provided data to estimate the above border Chinook salmon run. The final MR escapement was 28,769 large Chinook salmon within the escapement goal range of 19,000-36,000 fish.

The traditional District 111 sockeye salmon harvest was 61,947 fish; $43 \%$ of the average of 143,980 fish. Weekly sockeye salmon harvests were below average during all weeks in 2010, and sockeye CPUE was below average as well with the exception of SW 32. Domestic hatchery sockeye salmon stocks began to contribute to the traditional fishery in SW 28 and added significant numbers to the harvests in SW 29-33. Of the total
traditional District 111 sockeye salmon harvest, 13\% occurred in Stephens Passage, less than half of the average of $30 \%$. This reduction is primarily due to conservation measures taken for wild Port Snettisham sockeye stocks; including a 6 inch minimum mesh restriction and less than average opening time. The contributions of wild Taku River and Port Snettisham sockeye salmon to the traditional District 111 harvest will not be known until postseason analyses of stock identification data are available. However, the harvest of thermally marked enhanced sockeye salmon was estimated postseason from analysis of otoliths. Sockeye salmon from a joint U.S./Canada fry-stocking program at Tatsamenie and Trapper Lakes contributed an estimated 910 fish to the fishery ( $1.5 \%$ of the harvest; Table 4). Contributions of U.S. hatchery sockeye salmon to the traditional District 111 drift gillnet fishery totaled 6,759 fish or $11 \%$ 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 final estimate of stock composition of the harvest of wild Taku River sockeye salmon in the traditional district was 44,837 fish ( $72 \%$ ). Due to lower than anticipated returns of wild and enhanced Port Snettisham sockeye salmon, Port Snettisham was not opened during the common property fishery in 2010, but the Speel Arm SHA was opened for a total of six days in SW 35 and 36.

Table 4. Taku sockeye salmon run reconstruction, 2010. Estimates do not include spawning escapements below the U.S./Canada border.

|  | Taku |  |  | Snettisham Stocks |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Wild | Enhanced | Total | Wild | Enhanced |
| Escapement | 88,367 | 87,364 | 1,003 |  |  |  |
| Canadian Harvest |  |  |  |  |  |  |
| Commercial | 20,180 | 19,555 | 625 |  |  |  |
| Food Fishery | 184 | 178 | 6 |  |  |  |
| Total | 20,364 | 19,733 | 631 |  |  |  |
| Test Fishery harvest | 297 | 287 | 10 |  |  |  |
| Above Border Run | 109,028 | 107,384 | 1,643 |  |  |  |
| U.S. Harvest a |  |  |  |  |  |  |
| District 111 | 45,747 | 44,837 | 910 | 16,150 | 9,390 | 6,759 |
| Personal Use | 1,020 | 987 | 33 |  |  |  |
| Total | 46,767 | 45,824 | 943 |  |  |  |
| Test Fishery harvest | 0 |  |  |  |  |  |
| Terminal Run | 155,795 | 153,208 | 2,587 |  |  |  |
|  | Total | Wild |  |  |  |  |
| Terminal Run | 155,795 | 153,208 |  |  |  |  |
| Escapement Goal | 75,000 | 75,000 |  |  |  |  |
| AC | 80,795 | 78,208 |  |  |  |  |
| Canada |  |  |  |  |  |  |
| Harvest Share | 20\% | 20\% |  |  |  |  |
| Base Allowable | 16,159 | 15,642 |  |  |  |  |
| Surplus Allowable | 0 | 0 |  |  |  |  |
| Canada AC | 16,159 | 15,642 |  |  |  |  |
| Actual harvest | 20,364 | 19,733 |  |  |  |  |
| U.S. |  |  |  |  |  |  |
| Harvest Share | 80\% | 80\% |  |  |  |  |
| US AC | 64,636 | 62,567 |  |  |  |  |
| Actual harvest | 46,767 | 45,824 |  |  |  |  |

${ }^{\text {a }}$ 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 62,204 fish was 197\% above the average of 31,540 fish. CWT analyses indicate Alaskan hatchery coho salmon contributed 5,106 fish or $8 \%$ of the traditional District 111 harvest.

The preseason terminal run forecast of 41,328 large Taku River Chinook salmon allowed for directed Chinook fisheries in District 111 beginning the first Monday in May in SW 19 with a U.S. AC of 1,781 fish in addition to the 3,500 fish BLC to be shared amongst the sport, troll, and drift gillnet fisheries. Due to the limited Chinook 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 fisheries, sport fishing bag limits and gear restrictions were liberalized in District 111 between April 25 and June 30. The first inseason estimate of abundance was generated in SW 21. Weekly targets were calculated based on AC and percent of the run historically present during the week. The four inseason estimates generated during SW 21-24 did provide some U.S. AC, but the calculated weekly targets were too small to allow for manageable fisheries. The inseason estimate generated in SW 25 was below the threshold that provides a U.S. AC, so no directed U.S. commercial Chinook fisheries were prosecuted in 2010. The sport harvest of 1,400 fish plus the 640 Taku large Chinook salmon incidentally harvested in the District 111 directed sockeye gillnet fisheries through SW 28 was well below the base level catch of 3,500 fish provided by the PST.

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, Section 11-B was open for 3 days; 66 boats harvested 633 Chinook salmon of which 346 were large Taku fish. The sockeye salmon harvest and CPUE were both $31 \%$ of the average.

In SW 27, Section 11-B was initially opened for two days. With effort much lighter than expected, many boats deploying 6 inch mesh and targeting chum salmon, and being near the historical end of smaller sized Kuthai Lake sockeye salmon component, Section 11-B was extended an additional day. Fifty-nine boats harvested 433 Chinook of which 288 were large Taku fish. The sockeye salmon harvest was $25 \%$ and the CPUE was $43 \%$ of average. The first weekly sockeye salmon inriver run estimate projected an inriver run of 68,655 sockeye salmon; $50 \%$ of the average (Table 5).

Fishing time for SW 28 was set for two days in Section 11B due to weak inriver indicators, below average sockeye CPUE, and anticipated increase in effort focused on enhanced summer chum salmon. A 6 inch minimum mesh restriction to conserve wild Port Snettisham sockeye salmon was imposed south of Circle Point in Stephens Passage to provide 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 114 boats and 215 Chinook
salmon were harvested, 6 of which were large Taku fish. The total gillnet harvest of Taku large Chinook salmon for the directed Chinook salmon fishery accounting period; SW 26-28 was 639 fish. Sockeye salmon harvest was $22 \%$ of average and CPUE was $31 \%$ of average. The weekly estimate projected an inriver run of 81,700 sockeye salmon.

Table 5. U.S. inseason forecasts of terminal run size, TAC, inriver run size, and the U.S. harvest of Taku River sockeye salmon for 2010.

| SW | Inriver <br> Run | Terminal <br> Run $^{\text {a }}$ | Total <br> TAC | U.S. <br> TAC | Projected <br> U.S. Harvest |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 27 | 68,655 | 89,523 | 14,523 | 11,618 | 20,868 |
| 28 | 81,736 | 104,990 | 29,990 | 23,992 | 23,254 |
| 29 | 83,444 | 110,906 | 35,906 | 28,725 | 27,462 |
| 30 | 116,479 | 157,636 | 82,636 | 66,109 | 41,157 |
| 31 | 108,433 | 144,638 | 69,638 | 55,710 | 36,205 |
| 32 | 105,600 | 154,360 | 79,360 | 63,488 | 48,760 |
| 33 | 106,835 | 154,034 | 79,034 | 63,227 | 47,199 |
| Postseason | 109,028 | 155,795 | 80,795 | 64,636 | 46,767 |

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

Fishing time for SW 29 was again set for two days in Taku Inlet and Stephens Passage with a 6 inch minimum mesh restriction south of Circle Point to conserve for wild Port Snettisham sockeye salmon, while providing opportunity on enhanced summer chum salmon. Effort increased to 136 boats and sockeye salmon harvest was $35 \%$ of average and CPUE was $48 \%$ of average. Analysis of otoliths revealed that $8.4 \%$ of the sockeye salmon harvest from Taku Inlet during this week was DIPAC Snettisham hatchery origin. TBR enhanced sockeye salmon harvest in Taku Inlet this week was $1.5 \%$ Tatsamenie and $1.3 \%$ Trapper lake origin. The weekly estimate projected an inriver run of 83,444 fish.

Fishing time for SW 30 was set for two days in Taku Inlet and Stephens Passage with a 6 inch minimum mesh restriction south of Circle Point to conserve for wild Port Snettisham sockeye salmon while providing opportunity on enhanced summer chum salmon. Effort remained steady at 135 boats with sockeye salmon harvest $66 \%$ of average and CPUE $97 \%$ of average. Analysis of otoliths revealed that $30 \%$ of the sockeye salmon harvest from Taku Inlet during this week was DIPAC Snettisham hatchery origin. TBR enhanced sockeye salmon harvest in Taku Inlet this week was $2.2 \%$ Tatsamenie Lake origin. The weekly estimate projected an inriver run of 116,479 fish.

Fishing time for SW 31 was set for two days in Taku Inlet and Stephens Passage with a 6 inch minimum mesh restriction south of Circle Point to conserve for wild Port Snettisham sockeye salmon while providing opportunity on enhanced summer chum salmon. Effort peaked for the season with 139 boats, and sockeye harvest was $48 \%$ of average and CPUE was $67 \%$ of average. Analysis of otoliths revealed that $4 \%$ of the sockeye salmon harvest from Taku Inlet during this week was DIPAC Snettisham hatchery origin. TBR enhanced sockeye salmon harvest in Taku Inlet this week was $2.4 \%$ Tatsamenie and $0.4 \%$ Trapper lake origin. The weekly estimate projected an inriver run of 108,433 fish.

Fishing time for SW 32 was set for two days in Taku Inlet and Stephens Passage with a 6 inch minimum mesh restriction south of Circle Point to conserve for wild Port Snettisham sockeye salmon while providing opportunity on enhanced summer chum salmon. A one day extension was granted in Taku Inlet due to low effort levels, high CPUE and Canyon Island fish wheel counts, and no allowed catch concerns. Effort was 61 boats (less than half the previous week), sockeye salmon harvest was $51 \%$ of average and CPUE was $113 \%$ of average. Analysis of otoliths revealed that $10 \%$ of the sockeye salmon harvest from Taku Inlet during this week was DIPAC Snettisham hatchery origin. TBR enhanced sockeye salmon harvest in Taku Inlet this week was $0.5 \%$ Tatsamenie Lake origin. The weekly estimate projected an inriver run of 105,600 fish.

Fishing time for SW 33 was set for two in Taku Inlet and Stephens Passage with a 6 inch 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 2 days due to adequate pink salmon runs to mainland systems. Effort was 49 boats, sockeye harvest was $15 \%$ of average, and CPUE was $44 \%$ of average. Analysis of otoliths revealed that $23 \%$ of the sockeye salmon harvest from Taku Inlet during this week was DIPAC Snettisham hatchery origin. TBR enhanced sockeye salmon harvest in Taku Inlet this week was $2.47 \%$ Tatsamenie Lake origin. The weekly estimate projected an inriver run of 80,000 fish

The fall drift gillnet season in District 111 lasted nine weeks, beginning on August 16 in SW 34, and lasting until October 14 in SW 42. During this time management focus switches from sockeye to coho salmon abundance. Fishing time in Section 11B during SW 34 was set at the average 3 days due to adequate inseason sockeye salmon estimates and strong early coho salmon performance, and the opening was delayed until Monday August $17^{\text {th }}$ to accommodate the Golden North Salmon Derby taking place in Juneau area waters. Section 11C was opened for 3 days due to adequate pink salmon runs to mainland systems. The coho salmon harvest was $163 \%$, and the CPUE was $199 \%$ of average.

Fishing time in Sections 11-B and 11-C was set for 4 days in SW 35; coho salmon harvest was $184 \%$ of average and CPUE was $108 \%$ of average. The inseason coho salmon estimate projected an inriver run of 144,000 fish, exceeding the preseason forecast of 100,000 coho salmon. With the 4,000 fish minimum of the sockeye salmon escapement goal range to Speel Lake realized, the Speel Arm SHA was opened for three days to target enhanced Snettisham Hatchery sockeye salmon. In the Speel Arm SHA, 14,655 fish were harvested by 35 boats. An otolith sample obtained and analyzed by DIPAC indicated $97 \%$ of the harvest was of Snettisham Hatchery origin.

Fishing time in Section 11-B was set for 4 days in SW 36 and coho salmon harvest was $186 \%$ of average and CPUE was $119 \%$ of average. The Speel Arm SHA was opened for three days to target enhanced Snettisham Hatchery sockeye salmon, but effort and harvest was insignificant. The inseason coho salmon estimate projected an inriver run of 149,000 fish, with 57,500 coho salmon past all fisheries, exceeding the 38,000 PST minimum escapements. Based on good coho salmon harvest in the D111 fishery, being past the peak period of wild fall chum salmon presence, and continued strong inseason coho
salmon estimates, openings of four days per week were held for the remainder of the season. The traditional District 111 sockeye salmon harvest for the SW 34-42 was $35 \%$ of average. The coho salmon harvest in SW 37-42 was $245 \%$ of average. The final inseason coho salmon estimate projected a total of 155,000 fish inriver with an escapement past all fisheries in SW 40 of 104,400 fish. The fall chum salmon harvest in SW 34-42 was $93 \%$ of average. Escapement numbers for Taku River chum salmon are unknown; however the numbers of fall chum salmon passing through the fish wheels at Canyon Island were used as an index of escapement. The index number for 2010, 94 chum salmon was $28 \%$ of average. The District 111 common property drift gillnet pink salmon harvest of 132,350 fish was $117 \%$ of average. The escapement number to the Taku River was unknown; however the number of pink salmon passing through the fish wheels at Canyon Island was used as an index of escapement. The total of 8,868 pink salmon caught in the fish wheels was $188 \%$ of the 2008 parent-year and was $74 \%$ the even-year average. The District 111 drift gillnet fishery closed on October 14 in SW 42.

Several other fisheries in the Juneau area harvested transboundary Taku River salmon stocks in 2010. Personal use permits were used to harvest an estimated 1,020 Taku River sockeye salmon. In 2010, 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 large, wild mature fish was believed to be the Taku River. Of the Chinook salmon harvested 984 fish were estimated to be of Taku River origin based on GSI analysis.

## Canadian Fisheries

The Taku River commercial fishery harvest was 20,180 sockeye, 10,349 coho, 5,238 large Chinook, and 700 nonlarge Chinook salmon in 2010. An additional 297 sockeye and 4,000 coho salmon were taken in a test fishery which was conducted during the latter part of the fishing season. The sockeye salmon harvest was $20 \%$ below the average 24,899 fish. Fish originating from Taku fry stocks contributed an estimated 625 fish to the harvest, comprising $3 \%$ of the total sockeye salmon harvest. The harvest of coho salmon was more than double the average of 4,721 fish. The harvest of large Chinook salmon was above the 2005-2009 average of 4,664 fish. In 2005, as a result of the new Chinook salmon agreement which allows directed Chinook salmon fishing if abundance warrants, harvest accounting for small salmon was revised from a commercial weightbased designation (previously referred to "jacks" which were typically fish under 2.5 kg or 5 kg , depending on where they were being marketed), to a length-based designation (small Chinook salmon i.e. less than 660 mm in length from the middle of the eye to fork-of-tail MEF). Hence, comparisons with harvests from previous years should be noted accordingly. There were 62 days of fishing; this was $13 \%$ above the average of 55 days. The seasonal fishing effort of 415 boat days was $13 \%$ 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) until June 20 at which point it was reduced to 14.0 cm ( 5.5 inches) in order to minimize incidental harvest of Chinook salmon.

In addition to the commercial harvest 126 Chinook, 184 sockeye, and 59 coho salmon were harvested in the aboriginal fishery in 2010. All but 38 sockeye and 2 Chinook salmon were taken in the lower river - 30 sockeye salmon were harvested at Kuthai Lake and 8 were harvested at King Salmon Lake; 2 Chinook salmon were harvested at Nakina. It is estimated that of the 149 Chinook salmon caught, 126 were large fish. The harvests in the Taku Aboriginal fishery have averaged 279 large Chinook, 160 sockeye, and 323 coho salmon and two steelhead trout.

Recreational harvest was 100 large Chinook salmon. The harvests of other species are negligible.

As noted, a test fishery to capture coho salmon for stock assessment purposes took place during the latter part of the fishing season, from August 15 to October 6 (SW 34-41), and landed 4,000 coho and 292 sockeye salmon.

The bilateral preseason Chinook salmon forecast based on sibling relationships was for a terminal run of 41,328 fish; $14 \%$ below the average run of 48,100 fish. At a run size of this magnitude, factoring in the revised interim MSY escapement point target of 25,500 fish, the AC was 9,428 fish. With 6,181 fish ( $66 \%$ of total) allocated to Canada and 3,247 fish ( $34 \%$ of total) allocated to the U.S. Adding the BLCs of 1,500 fish for Canada and 3,500 fish for the U.S. meant that that the TAC was 14,428 fish.

Despite the availability of an AC, the plan was to manage the fishery to the weekly guidelines identified in Table 6 until an inseason run assessment could be made. As in previous years, reliable inseason projections were not expected until after mid-May and/or 2-3 three weeks of fishing. These guidelines incorporated a test fishery target of 1,400 large Chinook salmon, plus the AC reduced by approximately $90 \%$ to 600 fish. 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 strictly test fishery guidelines, or full directed fishery guidelines with the objective of meeting escapement and agreed harvest sharing objectives. In the event the run did not return as forecast, the commercial fishery would be reduced to a strictly assessment mode and serve as the test fishery identified in the PST agreement (as occurred in 2007 and 2008).

Table 6. Weekly large Chinook salmon guideline harvest for the Canadian commercial fishery in the Taku River in 2010.

| SW | Start Date | Test/assessment <br> Harvest | Directed Harvest | Guideline |
| :---: | :---: | :---: | :---: | :---: |
| 18 | 25-Apr | 93 | 26 | 119 |
| 19 | 2-May | 185 | 67 | 252 |
| 20 | 9-May | 277 | 101 | 378 |
| 21 | 16-May | 270 | Inseason estimate | Inseason estimate |
| 22 | 23-May | 171 | Inseason estimate | Inseason estimate |
| 23 | 30-May | 168 | Inseason estimate | Inseason estimate |
| 24 | 6-Jun | 145 | Inseason estimate | Inseason estimate |
| 25 | 13-Jun | 91 | Inseason estimate | Inseason estimate |
| Total |  | 1,400 |  |  |

After inseason run projections identified the availability of an AC, weekly guideline harvests were 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 D111 harvests through the previous week then the sum was 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. Base level catches were not used in calculation of the guidelines; rather they were set aside for Aboriginal, recreational and directed sockeye salmon fisheries.

The management plan indicated that the commercial Chinook salmon fishery would open at a reduced directed fishery level at noon on Wednesday, April 28, SW 18, for an initial 48hour period. Extensions to this, and subsequent weekly fishing periods would be considered if the weekly guidelines were not achieved. For both drift gillnets and set gillnets, mesh sizes would be restricted to between 100 mm (four inches) and 204 mm (8 inches) and net length would be restricted to a maximum of 36.6 m ( 120 ft ). The use of set gillnets would not be permitted prior to May 12, in an effort to ensure that the limited harvest was equally available to all fishers, and that harvest monitoring was enhanced for increased management precision.

As in previous years, weekly fisheries typically opened at noon on Sunday in 2010. However, the initial opening was delayed until midweek in order to increase the likelihood that fishing would be possible, i.e. that there was open water.

The target harvest for SW 18 was 119 fish (Table 6). There was more effort than anticipated (six licences compared to two licences in 2009), and the river conditions were quite favourable (due to a relatively early spring and below average snow pack). Consequently, the duration of the initial posting was reduced from 48 to 20 hours, specifically, from noon on Wednesday to 8:00 am on Thursday. Once the harvest of 55 fish was tallied, another 20-
hour opening was posted, starting at noon on Thursday. The harvest was similar, resulting in a total of 104 fish, quite close to the target noted above. Based on the gauge in the canyon, the river level started at about two feet and changed little over the course of the opening.

Given a significantly higher target (252 fish plus the shortfall of 15 fish from SW 18) a posting of 48 hours was deemed appropriate for SW 19. A rise in water level, not unusual at this time, was anticipated. However, the water level actually dropped and harvests were greater than anticipated; approximately 200 fish for day 1 and 150 for day 2 resulting in a weekly harvest overage of 78 fish. The weekly average CPUE of 25 fish per boat day (fbd) was close to the 2005, 2006, and 2009 average of 29 fbd . Seven licences fished each day.

SW 20 was posted for only ten hours, from noon until 10:00 PM on Sunday. The weekly target was 379 fish, less the overage from the previous week. The harvest for this ten hour opening was 192 fish. A subsequent opening was posted for noon to 5:00 PM on Monday, resulting in a harvest of 87 fish. With a cumulative weekly harvest of 279 fish, no additional fishing time was posted. The river level remained at about two feet on the canyon gauge; the spring thaw was delayed, possibly due to below average temperatures. The CPUE had doubled from the previous week to 50 fbd which again was close to average. Nine licences fished in SW 20.

It was hoped that an inseason estimate would be possible after SW 20; however, sufficient MR data had not been generated. Consequently, SW 21 was opened using the same management framework i.e. using an assessment target ( 270 fish) plus a reduced AC target (115 fish). It was posted from noon to 10:00 PM on Sunday, and resulted in a harvest of 192 fish. A subsequent opening was posted from 1:00 PM to 5:00 PM on Monday, bringing the cumulative weekly harvest to 304 fish. At this point, the MR data was deemed to be sufficient data for generating an inriver abundance estimate, and the first Canada/U.S. joint inseason run size projection was made. The MR estimate of 12,201 fish was added to the U.S sport fishery through SW 20 (281 fish); this was expanded using average run timing at Canyon Island (32\%), to give a terminal run size projection of 39,426 fish.

This projection was close to the preseason forecast of 41,328 and as a result, management shifted from the assessment/ reduced AC level to a normal directed level, using the full AC to calculate weekly guidelines. The new weekly guideline for SW 21 was 1,094 fish (Table 6). With a balance of 970 fish, the fishery was reopened for 24 hours on Thursday, May 20. After a hail of 120 fish the following morning, the fishery was extended another 24 hours. However, the spring freshet was finally in progress and effort dropped from six to four licences. The fishery was not extended beyond this, with relatively poor harvests in the fishery and in the canyon; there was also some uncertainty associated with the abundance estimate, given the limited data available. The total weekly harvest was 579 fish, with the CPUE of 30 fbd almost matching the average of 31 fbd . Daily fishing effort averaged 7.5 licences.

The guideline for SW 22 (starting May 23) was 813 fish, and a posting of 2 days was announced. The freshet abated somewhat during the opening. After day 1 there was a
balance of 573 fish and CPUE was close to average; the fishery was extended from 2 to 3 days. A total of 624 fish were harvested, with a CPUE of 23 fbd, slightly below the average of 26 fbd . Effort was up from the previous week, averaging 9 licences per day. The joint run projection made after closure was 42,317 , up slightly from the first inseason projection but again close to the preseason projection of 41,328 fish.

Based on this, the guideline for SW 23 was 911 fish, and an initial posting of 3 days was announced. A total of 1,087 fish were harvested, with a CPUE of 36 fbd, above the average of 26 fbd . It appeared the freshet was now complete, with river levels dropping over the course of the opening. Fishing effort averaged 10 licences per day; this was the peak effort observed during the Chinook salmon fishery. The run projection made in SW 23 (42,317 fish) was similar to the previous week's projection, and the guideline for SW 24 was 798 fish. An opening of 2 days was posted. River level dropped slightly and a total of 1,025 fish were harvested. The CPUE of 60 fbd , marked the peak CPUE of the fishery, and was three times the average of 19 fbd. Daily fishing effort averaged 8.5 licences.

The SW 24 run assessment resulted in a slight decrease in the projection, to 39,131 fish. The guideline for SW 25 was 427 fish, and an opening of one day was posted. The harvest was 406 fish and the fishery closed as scheduled. River level dropped precipitously and ended up at 3.7 feet on the canyon gauge, which was a record low for this time. The CPUE of 45 fbd was again above average ( 26 fbd ). Daily fishing effort averaged 9 licences.

SW 25 marked the end of the directed Chinook salmon fishery. A joint run projection made after closing ( 36,071 fish) was again slightly lower than the previous week's. The escapement to date was estimated at 23,094 fish and was projected to be 26,500 fish, assuming average run timing and that all base level catch would be taken. This was only slightly above the escapement target of 25,500 fish. Factoring in both the decline in run projections and the current escapement projection, efforts were taken to reduce Chinook salmon harvest during the directed sockeye salmon fishery by implementing a maximum mesh restriction of 5.5 inches.

Two additional run assessments were conducted during the directed sockeye salmon fishery. The first run projection was made in SW 26 ( 35,690 fish) and the second projection was made in SW 28 (35,873 fish). These were fairly consistent with the SW 25 projection.

The weekly guideline target noted in Table 7 sum to 4,792 fish; the actual harvest of 4,449 fish was within $7 \%$ of this. The Chinook salmon bycatch in the sockeye salmon fishery was 764 fish; plus Aboriginal harvest of 126 fish and an assumed recreational harvest of 100 fish, the actual base level catch was 990 large Chinook salmon, $34 \%$ below the BLC allocation of 1,500 fish. As noted, efforts were taken to minimise commercial bycatch in order to achieve the escapement objective of 25,500 fish.

Table 7. Forecasts of terminal run size, allowable harvest, and weekly guideline, and actual harvest of Taku River large Chinook salmon, 2010 ${ }^{\text {a }}$.

|  | Terminal <br> Run | Canada <br> Base Line Harvest |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| SW | 41,328 | 7,428 | Weekly <br> Guideline <br> Target | Weekly <br> Harvest | Cumulative <br> Harvest |
| 17 | 41,328 | 7,428 | 5,647 | 1 | 0 |
| 18 | 41,328 | 7,428 | 5,647 | 119 | 104 |
| 19 | 41,328 | 7,428 | 5,647 | 252 | 345 |
| 20 | 39,426 | 7,526 | 5,647 | 379 | 279 |
| 21 | 39,426 | 7,526 | 5,674 | 1,094 | 579 |
| 22 | 42,317 | 10,417 | 5,674 | 813 | 624 |
| 23 | 42,638 | 10,738 | 6,445 | 911 | 1,087 |
| 24 | 39,131 | 7,231 | 6,530 | 798 | 1,025 |
| 25 |  | 5,595 | 427 | 406 |  |

${ }^{\text {a }}$ Inseason terminal run projections are as per approximately day 3 of the previous week.
The DFO preseason forecast for the run of wild Taku sockeye salmon was based on a stock recruitment relationship, and projected a run of 205,418 fish, $12 \%$ below the average run of approximately 232,867 fish. In addition, approximately 2,900 enhanced fish (2,300 from Tatsamenie Lake and 600 from Trapper Lake) were forecast, $46 \%$ below the average enhanced run size of 5,400 fish. Based on the new treaty arrangement, an enhanced run of 1 to 5,000 fish provides Canada with a $20 \%$ 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 fish from the forecast of 205,418 results in a TAC of 130,418 fish; $20 \%$ of this is 26,084 fish.

The forecast for the combined run of wild and enhanced Tatsamenie fish was approximately 14,200 fish. The egg-take goal for 2010 was based on a target of $30 \%$ of an expected escapement of 3,000 fish amounting to approximately 1.5 million eggs. Consequently, it was agreed that a coordinated management would occur on Tatsamenie sockeye salmon in Taku Inlet in the U.S. drift gillnet fishery during SW 30-32 and during SW 31-33 in the Canadian fishery to meet a minimum target of 2,500 fish to the lake. It was anticipated that weekly fishing times might need to be limited to two days/week during these times. Weekly fishing plans and potential extensions of fishing time in each country's fisheries were to be discussed prior to implementation.

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. abundance-based. 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 sockeye salmon fishery was opened on three days in SW 26 as identified in the management plan. The weekly guideline based on the preseason forecast was 3,291 wild fish (Table 8). River levels rose over the course of the opening but were well below
average. Due to conservation concerns for both Kuthai sockeye salmon, which had seen low escapements for the previous three years, and Chinook salmon, the fishery was not extended. CPUE was 84 fbd ; average 77 fish. The weekly harvest was 2,013 fish, with a daily average of 8 licences fishing.

Table 8. Canadian inseason forecasts of terminal run size, total allowable catch, and spawning escapement of Taku sockeye salmon, $2010^{\text {a }}$.

| SW | Terminal Run | Total Allowable <br> Catch | Projected <br> Escapement | Canadian Total <br> Allowable Catch | Inseason <br> Guideline | Actual <br> Harvest |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | 205,418 | 130,418 | 75,000 | 26,084 | 3,291 | 2,106 |
| 27 | 205,418 | 130,418 | 75,000 | 26,084 | 5,579 | 3,559 |
| 28 | 121,244 | 46,244 | 83,596 | 9,249 | 2,859 | 4,969 |
| 29 | 122,210 | 47,210 | 80,604 | 9,442 | 4,209 | 7,591 |
| 30 | 163,990 | 88,990 | 106,326 | 17,798 | 9,852 | 13,528 |
| 31 | 163,910 | 88,910 | 101,688 | 17,782 | 12,067 | 15,715 |
| 32 | 174,214 | 99,214 | 102,925 | 19,843 | 16,221 | 17,239 |
| 33 | 170,609 | 95,609 | 98,047 | 19,122 | 17,313 | 18,744 |
| ${ }^{\text {a }}$ In |  |  |  |  |  |  |

${ }^{\mathrm{a}}$ Inseason terminal run projections are as per run assessments made in current week.
SW 27 was also opened on three days. The cumulative guideline harvest through this week based on the preseason forecast was 5,579 fish with a balance of 2,020 fish. The river dropped considerably over the course of the week from an average level to another record low, 3.4 feet. The previous record low river level for this time was 4.0 feet in 1996. However, despite the favorable fishing conditions, the CPUE of 63 fbd was lower than both the previous week's and the average of 75 fbd . The fishery was held to 3 days, harvesting a total of 1,453 fish for a cumulative of 3,559 fish. The number of licences fishing remained at a daily average of eight, however for this week through SW 29 two licences used set gillnets only and for these openings CPUE was calculated using effort adjusted for set gillnet use with 1 set gillnet $=0.5$ boat/licence.

The following opening, for SW 28, was again 3 days. The cumulative guideline harvest through this week, still based on the preseason forecast, was 8,062 fish with a balance of 3,093 fish. The river level remained at a record low. The CPUE was very similar to the previous week's, amounting to 59 fbd; average 62 fish. The fishery was again held to three days. The weekly harvest was 1,410 fish, with an average of eight licences fishing again.

An inseason run assessment made after this week's fishery projected a run of 121,244 fish, well below the preseason forecast of 205,418 wild fish. This presented a new cumulative guideline of 2,859 fish; subtracting the 4,969 fish harvested to date left a negative balance of 2,110 fish. For the following week, the cumulative guideline was 4,451 with a negative balance of 518 fish.

The initial posting for SW 29 was 2 days. Water level rose slightly over day 1 to average and there was also some suggestion that the run was late; these were factored into the decision to extend one day. The river level dropped on day 2 and harvests nearly doubled. The weekly harvest was 2,622 fish bringing the cumulative harvest to 7,591 fish. Daily
fishing effort averaged ten licences. CPUE was equal to the average of 87 fbd . The run projection made after this opening, 122,210 fish; close to the previous week's projection.

The weekly guideline for SW 30 was 5,227 fish, with a cumulative harvest to date of 7,591 fish therefore showing a negative balance of 2,364 fish. An opening of 2 days was posted for SW 30. The escapement projection was 101,300 fish, significantly above the target of 75,000 fish. After a day 1 harvest of 1,197 fish, a new assessment projected a significantly increased run size. The harvests for day 2 almost doubled and were even higher on day 3 , despite rising water. The weekly harvest was 5,937 fish with 11 licences fishing. CPUE of 180 fbd was double the average of 87 fbd . The run projection made after closing in SW 30 was 163,900 fish. The escapement projection was 106,326 fish, well above the upper end of the guideline range of 71,000 to 80,000 fish.

The cumulative guideline harvest for SW 31 was 12,078 fish. The cumulative harvest through SW 30 was 13,528 fish, showing a negative guideline of 1,450 fish for SW 31. Given this overage, and in keeping with the management plan which identified a conservative approach for Tatsamenie sockeye salmon for SW 31-33, SW 31 was opened on 2 days only. River levels dropped over the two days of the fishery to near record low. However, CPUE was down considerably, to 104 fbd ; average 106 fbd . The weekly harvest was 2,187 fish with 11 licences fishing. The Tulsequah flood started shortly after closing, but abated by the end of the week; SW 32 began with slightly below average river level.

The run projection of 163,910 fish was almost identical to the projection made after the SW 30 fishery. There was now a cumulative guideline of 14,536 fish and an actual harvest to date of 15,715 fish showing a negative balance of 1,179 for SW 32. At 108,800 fish, however, the escapement projection was still well above target. In an attempt to eliminate the negative guideline balance and to ensure adequate escapement to Tatsamenie for the egg-take, the fishery for SW 32 was opened on one day only. A total of 1,524 fish was caught by 11 licences, amounting to a CPUE of 139 fbd ; above the average 111 fb . As noted, river levels were back down to average after the Tulsequah flood in SW 31, but were quickly on their way up again, although to a lesser degree.

The run projection of 174,214 fish was up about 10,000 fish. This was associated a cumulative guideline of 17,966 fish, through SW 33. Subtracting the harvest to date of 16,727 fish meant that the negative balance had been eliminated and there was now a positive balance of 1,239 fish for SW 33. The fishery was posted for 2 days. However, CPUE on day 1 was only about $25 \%$ above average despite dropping water levels and the canyon fish wheel CPUE was below average. A run projection made after day 1 dropped by about 5,000 fish and the fishery was not extended. The weekly harvest was 1,505 fish with 10 licences fishing. CPUE was 75 fbd, an exact match to the average.

SW 33 marked the end of the directed sockeye salmon fishery. The run projection at this time was 170,609 fish, which was associated with a guideline harvest of 17,313 fish; the actual harvest was 18,744 fish. The escapement projection was 99,500 fish, significantly
above the upper end of the escapement goal range. An additional 1,308 sockeye salmon were harvested in the directed coho fishery.

The cumulative harvest of Taku enhanced fish was 591 fish; this included harvests of 328 Tatsamenie Lake and 293 Trapper Lake fish. This harvest was $21 \%$ below the average enhanced Taku harvest of 752. In addition, 31 Stikine origin fish were harvested.

The cumulative commercial fishery sockeye salmon CPUE for the season was 876 fbd, $9 \%$ above the average of 804 fbd . The record 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 fairly close to average for all weeks except SW 30, when it was double the average. The peak CPUE of the season occurred this week, 2 weeks earlier than typical.

The preseason outlook for Taku River coho salmon in 2010 was for a below average run. Based on harvest rates in the Taku River CWT program, an estimated 1.96 million coho salmon smolt emigrated during the spring of 2009, with survivals to return as adults in 2010. Assuming that the marine survival rate would be similar to average (8.6\%), a total run of 162,900 was expected in 2010, close to the average run size of 192,488 fish. Assuming average U.S. exploitation rates (39\%), this translated to a border escapement of approximately 99,900 fish. For reference, the 2009 outmigration experienced $7.8 \%$ marine survival, and an exploitation rate of $52 \%$.

SW 34 was opened on 2 days primarily due to sockeye salmon considerations. The river level was above average at opening time and was relatively stable over the course of the opening. Approximately 200 coho and 175 sockeye salmon were harvested on day 1 . The fishery was by extended by one day. Effort was down to 5 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 1,034 coho and 600 sockeye salmon with a coho salmon CPUE of 65 fbd , above the average of 47 fbd .

SW 35 was opened on 3 days. An assessment made early in the week projected a run greater than 100,000 coho salmon. This meant that a TAC of 10,000 fish, plus projected escapement in excess of the goal of 27,500 to 30,000 fish, was available to Canada. The fishery was extended by one day. River levels dropped over the course of the opening, ending up at yet another record low by the end of the week. The weekly coho salmon harvest was 1,262 fish. Factoring the use of a set gillnet only for one licences from now until the end of the season, the number of licences fishing was 4.5. The CPUE of 68 fbd was slightly below the average of 74 fbd .

SW 36 was opened on 3 days. A run assessment made after day one was consistent with the previous week's and the fishery was extended by one day. River level began to rise during the latter part of the opening, but only slightly. The weekly harvest was 1,671 fish with the same effort as in the previous week. The CPUE of 111 fbd was above the average of 88 fbd .

SW 37 was posted for 5 days. Fishing effort remained consistent. A total of 570 fish were caught through day 3 . CPUE was 42 fbd , below a weekly average of 64 fbd , with favorable fishing conditions (the river level started at about $75 \%$ of average and dropped). The harvest rates varied little over the course of the fishery, resulting in a weekly average of 43 fbd . The weekly harvest of coho salmon was 972 fish.

SW 38 was also posted for 5 days. Two licences stopped fishing for the season; effort was down to 2.5 licences. CPUE climbed steadily for the first 3 days of the fishery, culminating in a fishery maximum of 193 fbd , and a harvest of 1,115 fish. River level continued to drop slightly over the course of the week. Fishing continued to the end of the week, resulting in a total harvest of 1,939 fish. The weekly CPUE was 111 fbd versus a weekly average of 20 fbd . The previous ten-year period there were only 2 years in which fishing occurred in SW 38.

SW 39 was posted for 7 days. The number of licences was the same as in SW 38; however effort ceased after 3 days. A total of 233 fish were harvested, resulting in a CPUE of 36 fbd; the only other year in the previous ten-year period with effort this week was 2001 which had a CPUE of 61 fbd.

This marked the end of the commercial fishing season for 2010. A total of 7,111 coho salmon had been harvested in directed fishing post SW 33. An assessment conducted at this time projected an inriver run of approximately 143,000 fish; factoring in all harvests including Aboriginal and test fishery harvests, the escapement was projected to be close to 130,000 fish, well above the goal range of 27,500 to 35,000 fish.

As noted previously, a test fishery was again conducted in 2010 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 6 (SW 41), landing 4,000 coho and 292 sockeye salmon. It was carried out via a contract with Taku Wild, owned and operated by the Taku River Tlingit First Nation. Weekly target harvests for SW 34-41 were 300, 400, 500, 600, 700, 600, 500, and 400 fish. Target harvests were achieved in all but the first two weeks; SW 34 ( 305 actual) and SW 35 (395 actual).

The final postseason coho salmon MR estimate indicates that 141,238 fish reached the border. Under the new PST provisions, the Canadian allowable catch after SW 33 was 10,000 coho salmon plus surplus escapement. The actual treaty harvest, excluding the test fishery, was 7,125 fish. This includes the commercial harvest taken after SW 33 (7,066 fish) and the Aboriginal fishery harvest of 59 fish; it is assumed that the recreational harvest of coho was zero. Subtracting the total inriver harvest of 14,408 fish from the border passage translates to a spawning escapement estimate of 126,830 fish, well above 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 307 fbd ; 68\% above the average of 183 fbd .

## 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 catch. The final postseason estimate of border escapement in 2010 is 109,028; subtracting the inriver harvest of 20,661 fish (20,180 commercial, 184 Aboriginal and 297 test fish) indicates that 88,367 sockeye salmon reached the spawning grounds. This spawning escapement is $19 \%$ below average, but above the upper end of the interim escapement goal range of 71,000 to 80,000 sockeye salmon. The Canyon Island fishwheel catch of 2,853 sockeye salmon was $47 \%$ below average; however the record low water levels observed had a significant negative impact on fishwheel effectiveness.

The sockeye salmon count through the Kuthai Lake weir was 1,626 fish; counts during the last five years have not exceeded 2,000 fish. The 2010 count was $51 \%$ below the average 3,302 fish and $73 \%$ below the primary brood year escapement of 6,004 fish. The fish were somewhat early arriving at the weir but the run midpoint (August 6) was about eight days later than average, due in part to a large pulse of fish which arrived on August 26.

A weir was again operated at King Salmon Lake in 2010. The count of 2,977 sockeye was $45 \%$ above the 2004-2009 average and 2.9 times above the primary brood year escapement of 1,046 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 3,347 sockeye salmon; there were an additional 40 fish holding below the weir upon demobilization and an estimated 100 fish spawning below the weir, bring the total escapement to 3,387 fish. This was a record low, slightly under the previous low in 2008. It was also $75 \%$ below the average of 13,700 fish and $78 \%$ below the primary brood year escapement of 16,009 fish. The run arrival timing was about average, however the midpoint was about five days earlier than average (August 5 versus August 10). There were no removals for artificial spawning in 2010.

The Tatsamenie Lake weir count of 3,513 fish was $61 \%$ below the average of 9,015 fish but very close to the primary brood year count of 3,372. The fish arrived at the lake a few days later than average; however the run midpoint was August 29, four days earlier than the average of September 2.

## Chinook Salmon

Spawning escapement of Chinook salmon in the Canadian portion of the Taku drainage was estimated from the joint Canada/U.S. MR program. Tag application took place from April 24 through July 13. Tag recovery effort consisted of the commercial Chinook salmon fishery from April 28 through June 19, the sockeye and coho salmon commercial fisheries (SW 26-38) and the coho 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 and Yeth creeks. The final postseason estimate of escapement is based on fishery and spawning ground data combined. The above border run is 34,238 large Chinook salmon; subtracting the harvest of 5,469 fish (5,238 commercial, 126 Aboriginal, and 105 recreational fish) leaves a spawning escapement of 28,769 fish. This is above the new interim point target of 25,500 fish (the escapement point goal, $\mathbf{N}_{\mathrm{MSY}}$ ) and within the target range of 19,000 to 36,000 fish. The average is 37,748 fish.

Aerial surveys of large Chinook salmon to the six escapement index areas were: Nakina 1,730 fish ( $24 \%$ below average); Kowatua 716 fish ( $8 \%$ below); Tatsamenie 821 fish (15\% below); Dudidontu 561 fish ( $14 \%$ above); Nahlin 1,018 fish ( $10 \%$ above); and Tseta Creek 128 fish ( $59 \%$ below). Survey conditions were good except for Tseta Creek which was a partial count only. The total count of 4,846 large Chinook salmon, excluding Tseta Creek, was $8 \%$ below average.

Carcass weirs were operated on the Nakina and Tatsatua rivers in order to obtain tag and age-length-sex data. A total of 528 large Chinook salmon were recovered on the Nakina River. On the Tatsatua River, 648 large Chinook salmon were encountered, either on the weir or through supplemental angling. Low water levels may have had a limiting influence on carcass recovery at the Nakina site.

## Coho Salmon

Spawning escapement of coho salmon in the Canadian portion of the Taku drainage was estimated from the joint Canada/U.S. MR program. Tag application occurred until September 27 (SW 40) and recovery occurred until October 6 (SW 41). The tag recovery effort consisted of the commercial fishery until SW 38 and a test fishery from SW 34 to October 6 as noted. The final postseason above border run is 141,238 fish; taking into account the inriver catch of 14,408 fish (10,349 commercial, 59 Aboriginal and 4,000 test), the spawning escapement estimate is 126,830 fish. The spawning escapement was $10 \%$ above average and more than three times the upper end of the interim escapement goal range ( 27,500 to 35,000 fish).

## Sockeye Salmon Run Reconstruction

An estimated 44,837 wild Taku sockeye salmon were harvested in the traditional U.S. District 111 drift gillnet fishery. This postseason estimate was based on scale pattern analysis and otolith data. An additional 987 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 45,824 fish (Table 4).

In the Canadian commercial fishery, the final postseason harvest estimate of wild Taku sockeye salmon is 19,555 fish. An estimated 178 wild sockeye salmon were taken in the Canadian Aboriginal fishery. Therefore, the estimated Canadian treaty harvest of wild Taku sockeye salmon is 19,733 fish (Table 4). An additional 287 wild sockeye salmon were harvested in assessment/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 107,384 fish. Deducting the Canadian inriver harvest of 20,020 wild fish from the above border run estimate resulted in an estimated escapement of 87,364 wild sockeye salmon. The terminal run of wild Taku sockeye salmon is estimated at 153,208 fish. Based on the escapement goal of 75,000 fish, the TAC was 78,208 wild sockeye salmon.

The escapement of Taku sockeye salmon originating from the fry stocking program was estimated to be 1,003 fish from broodstock otoliths collected at Tatsamenie Lake. The final enhanced terminal run estimate based on scale pattern analysis and otolith analysis was 2,587 fish (Table 4).


#### Abstract

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 spawning escapement in the Klukshu River 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 Champagne-Aishihik 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 2010 overall Alsek River sockeye salmon run was expected to be approximately 40,700 sockeye salmon. The outlook for 2010 was based on a predicted run of 11,000 Klukshu sockeye salmon derived from historical Klukshu stock-recruitment data and an assumed Klukshu contribution to the total run of $27 \%$, based on radio telemetry (20012003) and MR (2000-2004) results. Principal contributing brood years were 2005 (Klukshu escapement of only 3,167 sockeye salmon) and 2006 (Klukshu escapement of 12,890 sockeye salmon); the 2000-2009 average Klukshu sockeye escapement was approximately 11,697 fish.

The Klukshu weir early sockeye salmon run count in 2005 was 994 and 2006 was 247 fish. The average count was approximately 2,500 sockeye salmon which was above the optimum escapement level of 1,500 as determined through separate stock-recruitment analyses of the early run conducted by DFO. The early run to the weir was expected to be near this level in 2010.

The Klukshu Chinook salmon escapement in 2004 was 2,445 and 2005 was 963 fish. For comparison the average was approximately 1,350 Chinook salmon. Based on these primary brood year escapements, the outlook for 2010 was 2,800 Klukshu Chinook salmon, well above the average run size of approximately 1,600 Chinook salmon.

## U.S. Fisheries

Preseason expectations were for below average runs of sockeye salmon and above average runs of Chinook salmon. These expectations were based on parent-year escapements to the Klukshu River. Prior to the start of the 2010 season it was agreed that no matter what CPUE each week revealed, no extensions of fishing time would be given in any week during the sockeye salmon season because the escapement goal for sockeye salmon was not attained at the Klukshu weir in 2008 and 2009. Emphasis was thus placed on attaining the sockeye salmon escapement goal. The Alsek River commercial fishery opened on the first Sunday in June, SW 24. All fishing periods for the first ten weeks of the season remained at one 24 hour period per week. Effort started to decline by SW 34 and management strategies switched to coho salmon. Coho salmon are targeted starting in mid-August and effort becomes minimal. Fishing times remained at three days per week through SW 40. The final two periods of the season were two and four days respectively. The Alsek River remained open through the second week in October, and the river was not fished during the last two weeks of the season.
The 2010 Dry Bay commercial set gillnet fishery harvested 273 Chinook, 12,668 sockeye, and 1,884 coho salmon (Table 9). No pink and 9 chum salmon were harvested. No Chinook salmon test fishery was conducted on the Alsek River in 2010. The Chinook salmon escapement goal measure at the Klukshu River was not attained for Chinook salmon in 2007 and 2008, and the test fishery was dropped to facilitate escapement. The Chinook salmon harvest was well below average and was undoubtedly affected by conservation methods adopted for sockeye salmon. The sockeye salmon harvest was below average, although it did equal the 2009 harvest. 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 192 boat days, which was below average.

## Canadian Fisheries

Due to the elimination of the harvest monitor position in 2005, harvests from the food fishery are not precisely known. The only harvest information for 2010 was the fish taken from the Klukshu River weir (elders only) and an estimate of harvests above/below the weir (based on the past relationship with the weir count and harvest) which was 197

Chinook, 1,704 sockeye, and 4 coho salmon. The average harvests were 70 Chinook, 1,267 sockeye, and 11 coho salmon.

Table 9. Final harvest and Klukshu index escapement data for Alsek River sockeye, Chinook, and coho salmon for 2010.

|  | Sockeye Salmon | Chinook Salmon | Coho Salmon |
| :--- | ---: | ---: | ---: |
| Escapement Index $^{\text {a }}$ |  |  |  |
| Klukshu Weir Count | 18,960 | 2,356 | 2,365 |
| Klukshu Escapement | 18,546 | 2,257 | 2,361 |
|  |  |  |  |
| Harvest $^{\text {b }}$ |  |  |  |
| U.S. Commercial | 12,668 | 273 | 1,884 |
| U.S. Subsistence | 259 | 70 | 0 |
| U.S. Test | 0 | 0 | 0 |
| Canadian Recreational | 12 | 97 | 3 |
| Canadian Aboriginal | 1,704 | 197 | 4 |
| Total | 14,643 | 637 | 1,891 |

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

Final harvest estimates for the Tatshenshini recreational fishery were near average for Chinook salmon, with an estimated 97 fish retained ( 200 released), and below average for sockeye salmon with 12 retained ( 108 released), and 3 coho salmon were retained ( 8 released). These were $28 \%$ above average for Chinook salmon, $29 \%$ of average for sockeye salmon, and $4 \%$ of average for coho salmon. Despite increasing daily and possession limits for sockeye salmon to 4 and 8 on August 31, the recreational harvests remained low due to poor fishing conditions and a weaker than expected tail end of the run.

The 2010 Alsek-Tatshenshini Management Plan, adopted by CAFN, YSC, and DFO. For Chinook salmon and early run sockeye salmon management, the status of the Klukshu River 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 in paragraphs below.

The center of Aboriginal fishing activity in the Alsek River drainage occurs at the CAFN village of Klukshu, on the Haines Highway, 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 River 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 greater than 4,500 sockeye salmon. The Chinook salmon daily catch limit was one fish and the possession limit was two Chinook salmon. For other salmon species, the daily catch 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 less than 1,300 Chinook salmon and less than 10,500 sockeye salmon (early and late runs combined).

A mandatory Yukon Salmon Conservation Catch Card (YSCCC), introduced by the YSC in 1999, was required by all recreational salmon fishers in 2010. 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 2010 are shown in Table 9.

## Sockeye Salmon

The final Klukshu River sockeye salmon weir count was 18,960 fish and escapement was 18,546 fish (Table 8). The total escapement of 18,546 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 only partially enumerated in 2010 due to repairs being made to the electronic counter. A total of 2,302 sockeye salmon were counted and an over flight of Nesketaheen Lake in late July indicated that approximately 2,500 sockeye salmon spawners had reached the lake (average count at Village Creek is 2,755).

## Chinook Salmon

The final Chinook salmon weir count was 2,358 fish and escapement was 2,259 fish (Table 9), and were both nearly $70 \%$ above the averages ( 1,319 and 1,270 ). The most reliable comparative Chinook salmon escapement index for the Alsek River drainage is the Klukshu River weir count. The 2010 escapement was near the upper end of the escapement goal range of 1,100 to 2,300 Klukshu Chinook salmon.

## Coho Salmon

The Klukshu River coho weir count was 2,365 fish. 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 2010, sockeye salmon eggs were collected at Tahltan Lake on the Stikine River for the twenty-second year, and in the Tatsamenie Lake system on the Taku River, for the twenty-first year of this program.

## Tahltan Lake

The egg collection was contracted to Arc Environmental Ltd. for the fifteenth consecutive year. The egg-take goal at Tahltan Lake is 6.0 million eggs; and 6.0 million eggs were collected. Methods were modified in 2010. Fish were captured with a beach seine at the major spawning site as well as at other locations on the lake, captured fish were held until ripe. Egg takes were scheduled less frequently in 2010 and for some of the larger takes transport was planned for the following day. While this resulted in some delays; it also provided more time for the egg take and a larger load on the transport. Helicopters were used for a number of transports for safety consideration. Brood year 2010 egg takes were initiated on August 31 at Tahltan Lake and were completed on September 30th; there were 13 egg collections. The receipt of four lots of Tahltan eggs was delayed by 1 day. Eggs were collected from 2,164 females and a like number of males.

## Tatsamenie Lake

B. Mercer and Associates Ltd was contracted to collect eggs. Tatsamenie Lake broodstock was captured for the sixeenth year at an adult enumeration weir located at the outlet of Tatsamenie Lake. Egg takes were initiated September 19th at Tatsamenie Lake. An estimated 2.1 million eggs were collected from 540 females and milt was collected from a like number of males. Tatsamenie Lake egg takes were completed on October 1st. The receipt of 3 lots of Tatsamenie eggs was delayed by 1 day for safety reasons due to short day length.

## 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 in Tunjony Creek, a tributary of Big Trapper Lake. This project was operated with Northern Endowment Fund, 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 2009/2010. 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 2009 brood eggs took place at Snettisham Hatchery and the resultant fry were transported to the appropriate systems from May 30 to June 14, 2010. There were two incubators lost to IHN this year from each of the Tatsamenie and Tahltan Lake egg collections.

## Tahltan Lake

A total of 2.61 million fry from the 2009 Tahltan Lake sockeye salmon egg take was stocked back into that lake in 2010. Survival from green-egg to outplanted fry was $70 \%$. Fry outplanting took place on May 18 and 19.

## Tuya Lake

There were 977 thousand fry stocked in Tuya Lake on June 2. These fish were from eggs collected at Tahltan Lake in the fall of 2009. Survival from green-egg to outplanted fry was $52 \%$. (Lower survival was primarily due to the IHN loss reported above).

## Tatsamenie Lake

A total of 717 thousand fry from the 2009 egg take was released into Tatsamenie Lake in 2010. There were two treatment groups: one group was released directly in the lake, and one group held for extended rearing; transport from Snettisham took place from May 22 to June 10. Survival from green-egg to outplanted-fry was $59 \%$. (Lower survival was
primarily due to the IHNV loss reported above). The extended rearing group of fry were reared with water from an upland fish free water source and held in aluminum raceways. After approximately 8 weeks of rearing they were transported to net pens, held for an additional 7 days and release at approximately 2 grams. The expectation is that the additional growth will provide significantly greater survival than direct releases. Somewhat surprisingly, most of these fish left the lake within two weeks of release in a condition indicating that there were smolts and headed to sea 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, Tahltan, Trapper and Tuya lakes. Hydroacoustic surveys with a newly purchased Bio-Sonics unit were conducted at Trapper Lake.

## Thermal Mark Laboratories

## ADF \& G Thermal Mark Laboratory

During the 2010 season the ADFG thermal mark lab processed 18,600 sockeye 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 a 10 -week period. In addition, several escapement samples were examined. The laboratory provided estimates on hatchery contributions for 90 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.

Estimates of stocked fish contribution to Alaskan harvest were 19,054 enhanced Stikine River fish to District 106 and 108 and inriver subsistence fisheries, and 943 enhanced Taku River fish to District 111 and inriver personal use fisheries. Estimates of stocked fish contributions to Canadian fisheries included 28,088 enhanced fish to Stikine River fisheries and 640 enhanced fish to the Taku River fisheries.

## Canadian Thermal Mark Laboratory

Subsamples of juvenile and adult otolith samples collected at the study lakes during the 2010 season were analyzed at the DFO thermal mark lab in Whitehorse. Results from otoliths collected from Tatsamenie broodstock result in an estimate of 1,003 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
Italicized numbers indicate GSI estimates do not meet accuracy and precision guidelines established by the TTC: estimating the proportion of mixtures within $10 \%$ of the true mixture $90 \%$ of the time.

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, 2010.

| SW | Subsistence <br> Large Stikine | D108 sport harvest |  |  | D108 gillnet harvest |  |  |  | D108 troll harvest |  |  | US total large <br> Stikine harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Large total | Large non-Stikine | Large Stikine | Nonlarge | Large total | Large non-Stikine | Large Stikine | Large total | Large non-Stikine | Large Stikine |  |
| 18 |  | 24 | 0 | 24 |  |  |  | 0 |  |  | 0 | 24 |
| 19 |  | 24 | 0 | 24 |  |  |  | 0 | 12 | 0 | 12 | 36 |
| 20 |  | 117 | 50 | 67 |  |  |  | 0 | 9 | 0 | 9 | 76 |
| 21 |  | 159 | 4 | 155 |  |  |  | 0 | 35 | 13 | 22 | 177 |
| 22 | 4 | 248 | 13 | 235 |  |  |  | 0 | 125 | 10 | 115 | 354 |
| 23 | 0 | 230 | 40 | 190 |  |  |  | 0 | 70 | 44 | 26 | 216 |
| 24 | 1 | 47 | 0 | 47 |  |  |  | 0 | 155 | 57 | 98 | 146 |
| 25 | 6 | 106 | 0 | 106 |  |  |  | 0 | 365 | 259 | 106 | 218 |
| 26 | 11 | 39 | 0 | 39 | 190 | 210 | 63 | 147 | 123 | 88 | 35 | 232 |
| 27 | 10 | 49 | 0 | 49 | 476 | 645 | 550 | 95 | 52 | 48 | 4 | 158 |
| 28 | 8 | 19 | 0 | 19 | 178 | 145 | 47 | 98 | 0 | 0 | 0 | 125 |
| 29 | 13 | 10 | 0 | 10 | 134 | 107 | 99 | 8 | 0 | 0 | 0 | 31 |
| Total | 53 | 1,072 | 107 | 965 | 978 | 1,107 | 759 | 348 | 946 | 519 | 427 | 1,793 |

Appendix A. 2. Weekly harvest of Chinook salmon in the Canadian commercial, Telegraph Aboriginal, and recreational fishery in the Stikine River, 2010.

| SW | LRCF |  |  |  |  |  | URCF |  | Aboriginal Telegraph |  | Tahltan sport fishery |  |  | Canada total large Stikine harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kept |  | Released |  | Estimated mortality (50\%) |  |  |  |  |  |  |  |  |  |
|  | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Retained | Released | Total |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 21 |  |  |  |  |  |  |  |  | 10 | 0 |  |  |  | 10 |
| 22 |  |  |  |  |  |  |  |  | 49 | 1 |  |  |  | 49 |
| 23 |  |  |  |  |  |  |  |  | 23 | 2 |  |  |  | 23 |
| 24 |  |  |  |  |  |  |  |  | 102 | 12 |  |  |  | 102 |
| 25 |  |  |  |  |  |  |  |  | 83 | 36 |  |  |  | 83 |
| 26 | 460 | 339 | 5 | 14 | 3 | 7 |  |  | 118 | 74 |  |  |  | 581 |
| 27 | 476 | 182 | 27 | 20 | 14 | 10 | 14 | 26 | 29 | 26 | 16 |  | 16 | 549 |
| 28 | 144 | 96 | 9 | 8 | 5 | 4 | 2 | 14 | 33 | 55 | 30 |  | 30 | 213 |
| 29 | 101 | 64 | 16 | 11 | 8 | 6 | 0 | 7 | 43 | 17 | 4 |  | 4 | 156 |
| 30 | 10 | 14 | 3 | 2 | 2 | 1 | 0 | 1 | 8 | 8 |  |  |  | 20 |
| 31 | 13 | 4 | 4 | 1 | 2 | 1 |  |  | 14 | 1 |  |  |  | 29 |
| 32 | 3 | 0 |  |  |  |  |  |  | 1 | 0 |  |  |  | 4 |
| 33 | 1 | 0 |  |  |  |  |  |  | 0 | 0 |  |  |  | 1 |
| 34 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 35 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 36 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 37 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Total kept | 1,209 | 698 | 64 | 56 | 32 | 28 | 16 | 48 | 512 | 232 |  |  | 50 | 1,819 |
| Total harvest | 1,273 | 754 |  |  |  |  |  |  |  |  |  |  |  | 1,769 |
| Total harvest + mortality | 1,241 | 726 |  |  |  |  |  |  |  |  |  |  |  |  |

Appendix A. 3. Weekly harvest of Chinook salmon in the Canadian test fisheries 2010.

| SW | Drift |  | Set |  | Commercial license |  |  |  | Estimated mortality (50\%) |  | Tuya |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Nonlarge | Large | Nonlarge | Kept |  | Released |  |  |  |  |  |  |  |
|  |  |  |  |  | Large | Non-large | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge | Large | Nonlarge |
| 19 |  |  |  |  | 60 | 4 |  |  |  |  |  |  | 60 | 4 |
| 20 |  |  |  |  | 170 | 8 |  |  |  |  |  |  | 170 | 8 |
| 21 |  |  |  |  | 203 | 9 |  |  |  |  |  |  | 203 | 9 |
| 22 |  |  |  |  | 216 | 20 |  |  |  |  |  |  | 216 | 20 |
| 23 |  |  |  |  | 176 | 13 |  |  |  |  |  |  | 176 | 13 |
| 24 |  |  |  |  | 328 | 42 |  | 3 | 0 | 2 | 2 | 5 | 330 | 47 |
| 25 |  |  |  |  | 211 | 44 |  | 1 | 0 | 0 | 6 | 3 | 217 | 47 |
| 26 |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 27 |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 28 |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| 29 | 1 | 0 | 2 | 0 |  |  |  |  |  |  |  |  | 3 | 0 |
| 30 | 1 | 0 | 0 | 0 |  |  |  |  |  |  |  |  | 1 | 0 |
| 31 | 0 | 0 | 0 | 1 |  |  |  |  |  |  |  |  | 0 | 1 |
| 32 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  | 0 | 0 |
| 33 | 0 | 0 | 1 | 0 |  |  |  |  |  |  |  |  | 1 | 0 |
| 34 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  | 0 | 0 |
| 35 | 0 | 0 | 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 | 2 | 0 | 3 | 1 | 1,364 | 140 | 0 | 4 | 0 | 2 | 8 | 8 | 1,377 | 149 |

Appendix A. 4. Weekly harvest of sockeye salmon in the Alaskan District 106 and 108 fisheries, 2010.

| SW | Subsistence | D106 Total | D106-30 | D106-41/42 | D108 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 24 | 1 |  |  |  |  |
| 25 | 23 | 2,220 | 504 | 1,716 |  |
| 26 | 154 | 6,566 | 1,057 | 5,509 | 3,803 |
| 27 | 504 | 11,193 | 4,218 | 6,975 | 10,888 |
| 28 | 420 | 17,713 | 6,129 | 11,584 | 7,196 |
| 29 | 398 | 15,348 | 8,331 | 7,017 | 4,854 |
| 30 | 97 | 16,454 | 6,994 | 9,460 | 3,013 |
| 31 | 22 | 16,528 | 11,115 | 5,413 | 1,590 |
| 32 | 0 | 9,105 | 4,993 | 4,112 | 691 |
| 33 | 2 | 9,199 | 5,561 | 3,638 | 329 |
| 34 | 29 | 5,494 | 3071 | 2423 | 254 |
| 35 | 0 | 1,666 | 817 | 849 | 81 |
| 36 | 3 | 605 | 412 | 193 | 25 |
| 37 |  | 317 | 121 | 196 | 9 |
| 38 |  | 35 | 17 | 18 | 4 |
| 39 |  | 7 | 5 | 2 | 0 |
| 40 |  | 0 | 0 | 0 | 0 |
| 41 |  | 0 | 0 | 0 | 0 |
| 42 |  | 0 | 0 | 0 | 0 |
| Total | 1,653 | 112,450 | 53,345 | 59,105 | 32,737 |

Appendix A. 5. Weekly stock proportions of sockeye salmon harvested in the Alaskan D106 commercial drift gillnet fishery, 2010.

| SW | Alaska | Canada | Stikine |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan |
| 25 | 0.534 | 0.176 | 0.161 | 0.104 | 0.025 | 0.290 | 0.060 | 0.101 |
| 26 | 0.441 | 0.202 | 0.129 | 0.220 | 0.007 | 0.356 | 0.077 | 0.052 |
| 27 | 0.537 | 0.167 | 0.110 | 0.177 | 0.008 | 0.295 | 0.062 | 0.048 |
| 28 | 0.622 | 0.161 | 0.102 | 0.072 | 0.043 | 0.217 | 0.027 | 0.075 |
| 29 | 0.751 | 0.163 | 0.032 | 0.011 | 0.044 | 0.086 | 0.014 | 0.018 |
| 30 | 0.821 | 0.102 | 0.030 | 0.024 | 0.022 | 0.077 | 0.005 | 0.025 |
| 31 | 0.806 | 0.185 | 0.000 | 0.002 | 0.007 | 0.009 | 0.000 | 0.000 |
| 32 | 0.725 | 0.247 | 0.000 | 0.018 | 0.010 | 0.028 | 0.003 | -0.003 |
| 33 | 0.674 | 0.293 | 0.000 | 0.007 | 0.025 | 0.032 | 0.000 | 0.000 |
| 34 | 0.671 | 0.271 | 0.000 | 0.003 | 0.055 | 0.057 | 0.000 | 0.000 |
| 35 | 0.665 | 0.272 | 0.000 | 0.003 | 0.060 | 0.063 | 0.000 | 0.000 |
| 36 | 0.683 | 0.270 | 0.000 | 0.002 | 0.045 | 0.048 | 0.000 | 0.000 |
| 37 | 0.655 | 0.273 | 0.000 | 0.004 | 0.068 | 0.072 | 0.000 | 0.000 |
| 38 | 0.665 | 0.272 | 0.000 | 0.003 | 0.060 | 0.063 | 0.000 | 0.000 |
| 39 | 0.686 | 0.270 | 0.000 | 0.002 | 0.043 | 0.045 | 0.000 | 0.000 |
| 40 |  |  |  |  |  |  |  |  |
| Total | 0.691 | 0.185 | 0.047 | 0.051 | 0.026 | 0.123 | 0.019 | 0.027 |
| 25 | 1,185 | 391 | 357 | 231 | 56 | 644 | 134 | 224 |
| 26 | 2,897 | 1,329 | 848 | 1,443 | 49 | 2,340 | 506 | 342 |
| 27 | 6,015 | 1,873 | 1,235 | 1,986 | 84 | 3,305 | 698 | 536 |
| 28 | 11,023 | 2,854 | 1,804 | 1,273 | 759 | 3,836 | 481 | 1,323 |
| 29 | 11,523 | 2,502 | 492 | 162 | 668 | 1,322 | 211 | 282 |
| 30 | 13,506 | 1,685 | 495 | 399 | 369 | 1,263 | 87 | 408 |
| 31 | 13,321 | 3,053 | 0 | 33 | 121 | 154 | 0 | 0 |
| 32 | 6,603 | 2,251 | 0 | 161 | 90 | 251 | 25 | -25 |
| 33 | 6,202 | 2,700 | 0 | 63 | 234 | 297 | 0 | 0 |
| 34 | 3,689 | 1,490 | 0 | 16 | 300 | 315 | 0 | 0 |
| 35 | 1,108 | 453 | 0 | 6 | 99 | 105 | 0 | 0 |
| 36 | 413 | 163 | 0 | 1 | 27 | 29 | 0 | 0 |
| 37 | 208 | 87 | 0 | 1 | 21 | 23 | 0 | 0 |
| 38 | 23 | 10 | 0 | 0 | 2 | 2 | 0 | 0 |
| 39 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 77,721 | 20,842 | 5,231 | 5,775 | 2,882 | 13,887 | 2,140 | 3,091 |

Appendix A. 6. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 2010.

| Estimates based on scale pattern analysis and ololith data. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  |  |  |
| SW | Alaska | Canada | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan |
| 25 | 0.467 | 0.171 | 0.207 | 0.124 | 0.031 | 0.363 | 0.077 | 0.130 |
| 26 | 0.384 | 0.199 | 0.154 | 0.254 | 0.009 | 0.417 | 0.092 | 0.062 |
| 27 | 0.365 | 0.205 | 0.145 | 0.276 | 0.010 | 0.430 | 0.091 | 0.054 |
| 28 | 0.471 | 0.214 | 0.154 | 0.098 | 0.063 | 0.315 | 0.039 | 0.114 |
| 29 | 0.623 | 0.233 | 0.070 | 0.023 | 0.051 | 0.144 | 0.030 | 0.040 |
| 30 | 0.802 | 0.093 | 0.051 | 0.019 | 0.034 | 0.104 | 0.008 | 0.043 |
| 31 | 0.786 | 0.204 | 0.000 | 0.006 | 0.004 | 0.010 | 0.000 | 0.000 |
| 32 | 0.664 | 0.306 | 0.000 | 0.024 | 0.006 | 0.030 | 0.006 | -0.006 |
| 33 | 0.671 | 0.288 | 0.000 | 0.008 | 0.033 | 0.041 | 0.000 | 0.000 |
| 34 | 0.620 | 0.277 | 0.000 | 0.006 | 0.096 | 0.103 | 0.000 | 0.000 |
| 35 | 0.620 | 0.277 | 0.000 | 0.006 | 0.096 | 0.103 | 0.000 | 0.000 |
| 36 | 0.620 | 0.277 | 0.000 | 0.006 | 0.096 | 0.103 | 0.000 | 0.000 |
| 37 | 0.620 | 0.277 | 0.000 | 0.006 | 0.096 | 0.103 | 0.000 | 0.000 |
| 38 | 0.620 | 0.277 | 0.000 | 0.006 | 0.096 | 0.103 | 0.000 | 0.000 |
| 39 | 0.620 | 0.277 | 0.000 | 0.006 | 0.096 | 0.103 | 0.000 | 0.000 |
| 40 | 0.620 | 0.277 | 0.000 | 0.006 | 0.096 | 0.103 | 0.000 | 0.000 |
| Total | 0.585 | 0.207 | 0.084 | 0.088 | 0.036 | 0.208 | 0.034 | 0.049 |
| 25 | 801 | 293 | 355 | 214 | 53 | 622 | 132 | 224 |
| 26 | 2,116 | 1,097 | 848 | 1,399 | 49 | 2,296 | 506 | 342 |
| 27 | 2,543 | 1,430 | 1,009 | 1,927 | 66 | 3,003 | 636 | 374 |
| 28 | 5,452 | 2,481 | 1,778 | 1,140 | 732 | 3,651 | 455 | 1,323 |
| 29 | 4,369 | 1,638 | 489 | 162 | 359 | 1,010 | 211 | 278 |
| 30 | 7,590 | 884 | 480 | 182 | 325 | 987 | 71 | 408 |
| 31 | 4,254 | 1,104 | 0 | 33 | 22 | 55 | 0 | 0 |
| 32 | 2,729 | 1,258 | 0 | 100 | 25 | 125 | 25 | -25 |
| 33 | 2,440 | 1,049 | 0 | 30 | 119 | 148 | 0 | 0 |
| 34 | 1,503 | 671 | 0 | 16 | 233 | 249 | 0 | 0 |
| 35 | 527 | 235 | 0 | 6 | 82 | 87 | 0 | 0 |
| 36 | 120 | 53 | 0 | 1 | 19 | 20 | 0 | 0 |
| 37 | 122 | 54 | 0 | 1 | 19 | 20 | 0 | 0 |
| 38 | 11 | 5 | 0 | 0 | 2 | 2 | 0 | 0 |
| 39 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 34,578 | 12,253 | 4,959 | 5,210 | 2,105 | 12,274 | 2,035 | 2,924 |

Appendix A. 7. Weekly stock proportions of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2010.

| Estimates based on scale pattern analysis and ololith data. |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  |  |  |
| SW | Alaska | Canada | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan |
| 25 | 0.763 | 0.194 | 0.004 | 0.035 | 0.004 | 0.043 | 0.004 | 0.000 |
| 26 | 0.739 | 0.220 | 0.000 | 0.041 | 0.000 | 0.041 | 0.000 | 0.000 |
| 27 | 0.823 | 0.105 | 0.053 | 0.014 | 0.004 | 0.072 | 0.015 | 0.039 |
| 28 | 0.909 | 0.061 | 0.004 | 0.022 | 0.004 | 0.030 | 0.004 | 0.000 |
| 29 | 0.859 | 0.104 | 0.000 | 0.000 | 0.037 | 0.037 | 0.000 | 0.000 |
| 30 | 0.846 | 0.115 | 0.002 | 0.031 | 0.006 | 0.040 | 0.002 | 0.000 |
| 31 | 0.816 | 0.175 | 0.000 | 0.000 | 0.009 | 0.009 | 0.000 | 0.000 |
| 32 | 0.776 | 0.199 | 0.000 | 0.012 | 0.013 | 0.025 | 0.000 | 0.000 |
| 33 | 0.676 | 0.297 | 0.000 | 0.006 | 0.021 | 0.027 | 0.000 | 0.000 |
| 34 | 0.712 | 0.267 | 0.000 | 0.000 | 0.022 | 0.022 | 0.000 | 0.000 |
| 35 | 0.712 | 0.267 | 0.000 | 0.000 | 0.022 | 0.022 | 0.000 | 0.000 |
| 36 | 0.712 | 0.267 | 0.000 | 0.000 | 0.022 | 0.022 | 0.000 | 0.000 |
| 37 | 0.712 | 0.267 | 0.000 | 0.000 | 0.022 | 0.022 | 0.000 | 0.000 |
| 38 | 0.712 | 0.267 | 0.000 | 0.000 | 0.022 | 0.022 | 0.000 | 0.000 |
| 39 | 0.712 | 0.267 | 0.000 | 0.000 | 0.022 | 0.022 | 0.000 | 0.000 |
| 40 | 0.712 | 0.267 | 0.000 | 0.000 | 0.022 | 0.022 | 0.000 | 0.000 |
| Total | 0.809 | 0.161 | 0.005 | 0.011 | 0.015 | 0.030 | 0.002 | 0.003 |
| 25 | 385 | 98 | 2 | 18 | 2 | 22 | 2 | 0 |
| 26 | 781 | 232 | 0 | 44 | 0 | 44 | 0 | 0 |
| 27 | 3,472 | 443 | 225 | 59 | 18 | 302 | 62 | 163 |
| 28 | 5,571 | 373 | 25 | 133 | 27 | 185 | 25 | 0 |
| 29 | 7,154 | 864 | 4 | 0 | 309 | 312 | 0 | 0 |
| 30 | 5,916 | 801 | 16 | 217 | 44 | 277 | 16 | 0 |
| 31 | 9,066 | 1,949 | 0 | 0 | 99 | 99 | 0 | 0 |
| 32 | 3,874 | 993 | 0 | 61 | 65 | 126 | 0 | 0 |
| 33 | 3,762 | 1,650 | 0 | 33 | 116 | 149 | 0 | 0 |
| 34 | 2,185 | 819 | 0 | 0 | 67 | 67 | 0 | 0 |
| 35 | 581 | 218 | 0 | 0 | 18 | 18 | 0 | 0 |
| 36 | 293 | 110 | 0 | 0 | 9 | 9 | 0 | 0 |
| 37 | 86 | 32 | 0 | 0 | 3 | 3 | 0 | 0 |
| 38 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 43,143 | 8,588 | 272 | 565 | 776 | 1,613 | 105 | 0 |
|  |  |  |  |  |  |  | 0 | 0 |

Appendix A. 8. Weekly stock proportions sockeye salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2010.

| Estimates based on scale pattern analysis and ololith data. |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Alaska | Canada | All Tahltan | Tuya | Mainstem | Total | Tahltan Enhance | WildTahltan |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  | 0.000 |
| 26 | 0.152 | 0.100 | 0.512 | 0.132 | 0.103 | 0.747 | 0.228 | 0.284 |
| 27 | 0.110 | 0.046 | 0.495 | 0.229 | 0.120 | 0.845 | 0.183 | 0.313 |
| 28 | 0.124 | 0.183 | 0.278 | 0.233 | 0.181 | 0.693 | 0.168 | 0.110 |
| 29 | 0.166 | 0.042 | 0.299 | 0.147 | 0.345 | 0.791 | 0.084 | 0.215 |
| 30 | 0.236 | 0.033 | 0.219 | 0.121 | 0.391 | 0.731 | 0.045 | 0.174 |
| 31 | 0.220 | 0.058 | 0.096 | 0.028 | 0.598 | 0.722 | 0.026 | 0.070 |
| 32 | 0.237 | 0.089 | 0.042 | 0.005 | 0.627 | 0.674 | 0.014 | 0.028 |
| 33 | 0.299 | 0.089 | 0.016 | 0.004 | 0.592 | 0.612 | 0.009 | 0.007 |
| 34 | 0.292 | 0.111 | 0.016 | 0.010 | 0.570 | 0.596 | 0.016 | 0.000 |
| 35 | 0.292 | 0.111 | 0.016 | 0.010 | 0.570 | 0.596 | 0.016 | 0.000 |
| 36 | 0.292 | 0.111 | 0.016 | 0.010 | 0.570 | 0.596 | 0.016 | 0.000 |
| 37 | 0.292 | 0.111 | 0.016 | 0.010 | 0.570 | 0.596 | 0.000 | 0.016 |
| 38 | 0.292 | 0.111 | 0.016 | 0.010 | 0.570 | 0.596 | 0.000 | 0.016 |
| 39 | 0.292 | 0.111 | 0.016 | 0.010 | 0.570 | 0.596 | 0.000 | 0.016 |
| 40 | 0.292 | 0.111 | 0.016 | 0.010 | 0.570 | 0.596 | 0.000 | 0.016 |
| Total | 0.150 | 0.083 | 0.356 | 0.178 | 0.234 | 0.767 | 0.143 | 0.213 |
| 25 |  |  |  |  |  |  |  |  |
| 26 | 580 | 381 | 1,948 | 502 | 392 | 2,842 | 867 | 1,081 |
| 27 | 1,194 | 497 | 5,394 | 2,494 | 1,309 | 9,196 | 1,991 | 3,403 |
| 28 | 892 | 1,319 | 2,001 | 1,679 | 1,305 | 4,985 | 1,207 | 795 |
| 29 | 807 | 206 | 1,451 | 716 | 1,675 | 3,841 | 407 | 1,044 |
| 30 | 712 | 98 | 658 | 366 | 1,179 | 2,203 | 135 | 524 |
| 31 | 349 | 92 | 152 | 45 | 951 | 1,148 | 41 | 111 |
| 32 | 164 | 61 | 29 | 4 | 433 | 466 | 9 | 20 |
| 33 | 98 | 29 | 5 | 1 | 195 | 201 | 3 | 2 |
| 34 | 74 | 28 | 4 | 2 | 145 | 151 | 4 | 0 |
| 35 | 24 | 9 | 1 | 1 | 46 | 48 | 1 | 0 |
| 36 | 7 | 3 | 0 | 0 | 14 | 15 | 0 | 0 |
| 37 | 3 | 1 | 0 | 0 | 5 | 5 | 0 | 0 |
| 38 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |
| 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 4,906 | 2,725 | 11,645 | 5,811 | 7,651 | 25,106 | 4,665 | 6,980 |
|  |  |  |  |  |  |  |  | 0 |

Appendix A. 9. Weekly sockeye salmon harvest and effort in the Canadian commercial and assessment fisheries in the lower Stikine River, 2010.

| SW | LRCF |  |  |  | URCF | Telegraph <br> Aboriginal | Drift Net Test |  | Set Net Test |  | Commercial Liscense |  | Test <br> Total | Commercial <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Harvest | Permits | Days | Permit days |  |  | harvest | \# drifts | harvest | hours | harvest | permits |  |  |
| 19 |  |  |  | 0.0 |  |  |  |  |  |  | 0 | 12 | 0 | 0 |
| 20 |  |  |  | 0.0 |  |  |  |  |  |  | 0 | 12 | 0 | 0 |
| 21 |  |  |  | 0.0 |  | 0 |  |  |  |  | 0 | 12 | 0 | 0 |
| 22 |  |  |  | 0.0 |  | 2 |  |  |  |  | 0 | 12 | 0 | 2 |
| 23 |  |  |  | 0.0 |  | 0 |  |  |  |  | 0 | 12 | 0 | 0 |
| 24 |  |  |  | 0.0 |  | 7 |  |  |  |  | 0 | 12 | 0 | 7 |
| 25 |  |  |  | 0.0 |  | 13 |  |  |  |  | 3 | 12 | 3 | 13 |
| 26 | 1,835 | 12.0 | 2.0 | 24.0 |  | 96 |  |  |  |  |  |  | 0 | 1931 |
| 27 | 11,479 | 12.0 | 4.0 | 48.0 | 12 | 269 |  |  |  |  |  |  | 0 | 11760 |
| 28 | 9,175 | 12.0 | 3.0 | 36.0 | 273 | 1,896 |  |  |  |  |  |  | 0 | 11344 |
| 29 | 10,324 | 12.0 | 4.0 | 48.0 | 204 | 2,887 | 73 | 28 | 299 | 36 |  |  | 372 | 13415 |
| 30 | 4,744 | 12.0 | 2.0 | 24.0 | 726 | 1,014 | 77 | 42 | 397 | 84 |  |  | 474 | 6484 |
| 31 | 1,855 | 12.0 | 2.0 | 24.0 |  | 907 | 80 | 41 | 415 | 72 |  |  | 495 | 2762 |
| 32 | 1,554 | 12.0 | 2.0 | 24.0 |  | 130 | 20 | 42 | 53 | 60 |  |  | 73 | 1684 |
| 33 | 727 | 12.0 | 1.3 | 15.0 |  | 55 | 31 | 42 | 184 | 72 |  |  | 215 | 782 |
| 34 | 168 | 12.0 | 1.0 | 12.0 |  |  | 15 | 56 | 51 | 72 |  |  | 66 | 168 |
| 35 | 123 | 12.0 | 2.0 | 24.0 |  |  | 4 | 56 | 51 | 72 |  |  | 55 | 123 |
| 36 | 60 | 5.0 | 7.0 | 35.0 |  |  | 4 | 70 |  |  |  |  | 4 | 60 |
| 37 | 5 | 5.0 | 7.0 | 35.0 |  |  | 0 | 84 |  |  |  |  | 0 | 5 |
| 38 |  |  |  |  |  |  | 0 | 77 |  |  |  |  | 0 | 0 |
| 39 |  |  |  |  |  |  | 0 | 84 |  |  |  |  | 0 | 0 |
| 40 |  |  |  |  |  |  | 0 | 84 |  |  |  |  | 0 | 0 |
| 41 |  |  |  |  |  |  | 0 | 84 |  |  |  |  | 0 | 0 |
| 42 |  |  |  |  |  |  | 0 | 70 |  |  |  |  | 0 | 0 |
| Total | 42,049 |  | 37 | 349 | 1,215 | 7,276 | 304 | 860 | 1,450 | 468 | 3 | 84 | 1,757 | 50,540 |

Appendix A. 10. Weekly sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery in the lower Stikine River, 2010.

| Sexspecific age compositions were calculated and the stock composition of the females sampled for egg diameters was expanded to the harvest by age. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Porportion |  |  |  |  | Harvest |  |  |  |  |
| SW | Small Egg | AllTahltan | Tuya | Mainstem | TahltanEnhance | AllTahltan | Tuya | Mainstem | WildTahltan | TahltanEnhance |
| 19 |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |
| 25 | 0.944 | 0.625 | 0.306 | 0.069 | 0.219 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0.944 | 0.625 | 0.306 | 0.069 | 0.254 | 1,147 | 562 | 126 | 681 | 467 |
| 27 | 0.972 | 0.559 | 0.400 | 0.042 | 0.237 | 6,412 | 4,588 | 479 | 3,686 | 2,726 |
| 28 | 0.982 | 0.549 | 0.425 | 0.026 | 0.102 | 5,039 | 3,895 | 241 | 4,102 | 937 |
| 29 | 0.891 | 0.492 | 0.393 | 0.115 | 0.070 | 5,081 | 4,059 | 1,184 | 4,356 | 725 |
| 30 | 0.525 | 0.202 | 0.307 | 0.491 | 0.040 | 958 | 1,456 | 2,331 | 766 | 192 |
| 31 | 0.453 | 0.206 | 0.178 | 0.615 | 0.019 | 383 | 331 | 1,141 | 347 | 36 |
| 32 | 0.078 | 0.048 | 0.039 | 0.913 | 0.019 | 74 | 61 | 1,419 | 44 | 30 |
| 33 | 0.096 | 0.087 | 0.012 | 0.901 | 0.020 | 63 | 9 | 655 | 49 | 14 |
| 34 | 0.128 | 0.087 | 0.014 | 0.899 | 0.000 | 15 | 2 | 151 | 15 | 0 |
| 35 | 0.119 | 0.087 | 0.014 | 0.899 | 0.000 | 11 | 2 | 111 | 11 | 0 |
| 36 | 0.050 | 0.037 | 0.006 | 0.958 | 0.000 | 2 | 0 | 57 | 2 | 0 |
| 37 | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 | 0 | 0 | 5 | 0 | 0 |
| Total |  |  |  |  |  | 19,185 | 14,965 | 7,899 | 14,059 | 5,126 |
| Proportion |  |  |  |  |  | 0.456 | 0.356 | 0.188 | 0.334 | 0.122 |
|  | Harvest/Effort below Porcupine |  |  |  |  |  | CPUE |  |  |  |
| Week | Sockeye | Permit Day |  | Total | Small Egg | AllTahltan | Tuya | Mainstem | WildTahltan | TahltanEnhance |
| 19 |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |  |  |
| 26 | 1,835 | 24.0 |  | 76.458 | 72.211 | 47.797 | 23.420 | 5.241 | 28.354 | 19.443 |
| 27 | 11,479 | 48.0 |  | 239.146 | 232.441 | 133.583 | 95.583 | 9.979 | 76.788 | 56.796 |
| 28 | 9,175 | 36.0 |  | 254.861 | 250.337 | 139.972 | 108.194 | 6.694 | 113.953 | 26.019 |
| 29 | 10,324 | 48.0 |  | 215.083 | 191.620 | 105.854 | 84.563 | 24.667 | 90.760 | 15.094 |
| 30 | 4,744 | 24.0 |  | 197.667 | 103.859 | 39.908 | 60.654 | 97.105 | 31.916 | 7.992 |
| 31 | 1,855 | 24.0 |  | 77.292 | 35.012 | 15.958 | 13.792 | 47.542 | 14.465 | 1.493 |
| 32 | 1,554 | 24.0 |  | 64.750 | 5.059 | 3.085 | 2.543 | 59.121 | 1.838 | 1.247 |
| 33 | 727 | 15.0 |  | 48.467 | 4.671 | 4.200 | 0.600 | 43.667 | 3.247 | 0.953 |
| 34 | 168 | 12.0 |  | 14.000 | 1.787 | 1.219 | 0.197 | 12.584 | 1.219 | 0.000 |
| 35 | 123 | 24.0 |  | 5.125 | 0.610 | 0.446 | 0.072 | 4.607 | 0.446 | 0.000 |
| 36 | 60 | 35.0 |  | 1.714 | 0.086 | 0.063 | 0.010 | 1.641 | 0.063 | 0.000 |
| 37 | 5 | 35.0 |  | 0.143 | 0.000 | 0.000 | 0.000 | 0.143 | 0.000 | 0.000 |
| Total | 42,049 | 349 |  | 1194.71 | 897.69 | 492.09 | 389.63 | 312.99 | 363.05 | 129.04 |
| Proportion |  |  |  |  | 0.751 | 0.412 | 0.326 | 0.262 | 0.304 | 0.108 |

Appendix A. 11. Harvest by stock and week for sockeye salmon in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 2010.
If no fishery, commercial harvest from comparable week was used.

| Stock |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SW | All Tahltan | Tuya | Mainstem | WildTahltan | TahltanEnhance |
| Proportion by stock for upper river fisheries |  |  |  |  |  |
| 22 | 0.512 | 0.238 | 0.250 | 0.369 | 0.143 |
| 23 | 0.512 | 0.238 | 0.250 | 0.369 | 0.143 |
| 24 | 0.512 | 0.238 | 0.250 | 0.369 | 0.143 |
| 25 | 0.512 | 0.238 | 0.250 | 0.369 | 0.143 |
| 26 | 0.512 | 0.238 | 0.250 | 0.369 | 0.143 |
| 27 | 0.598 | 0.362 | 0.040 | 0.339 | 0.259 |
| 28 | 0.510 | 0.469 | 0.021 | 0.335 | 0.175 |
| 29 | 0.588 | 0.400 | 0.012 | 0.321 | 0.267 |
| 30 | 0.579 | 0.421 | 0.000 | 0.355 | 0.224 |
| 31 | 0.655 | 0.345 | 0.000 | 0.420 | 0.235 |
| 32 | 0.454 | 0.471 | 0.075 | 0.297 | 0.157 |
| 33 | 0.343 | 0.612 | 0.045 | 0.261 | 0.082 |
| 34 | 0.343 | 0.612 | 0.045 | -0.739 | 1.082 |
| Total |  |  |  |  |  |


| Harvest by stock for upper river commercial fishery |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 27 | 7 | 4 | 0 | 4 | 3 |
| 28 | 139 | 128 | 6 | 91 | 48 |
| 29 | 120 | 82 | 2 | 65 | 54 |
| 30 | 420 | 306 | 0 | 258 | 163 |
| Total | 687 | 520 | 9 | 419 | 268 |


| Harvest by stock for Telegraph Aboriginal fishery |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 22 | 1 | 0 | 1 | 1 | 0 |
| 23 | 0 | 0 | 0 | 0 | 0 |
| 24 | 4 | 2 | 2 | 3 | 1 |
| 25 | 7 | 3 | 3 | 5 | 2 |
| 26 | 49 | 23 | 24 | 35 | 14 |
| 27 | 161 | 97 | 11 | 91 | 70 |
| 28 | 967 | 889 | 40 | 635 | 332 |
| 29 | 1,698 | 1,155 | 35 | 927 | 771 |
| 30 | 587 | 427 | 0 | 360 | 227 |
| 31 | 594 | 313 | 0 | 381 | 213 |
| 32 | 59 | 61 | 10 | 39 | 20 |
| 33 | 19 | 34 | 2 | 14 | 5 |
| 34 | 0 | 0 | 0 | 0 | 0 |
| 35 | 0 | 0 | 0 | 0 | 0 |
| Total | 4,145 | 3,004 | 127 | 2,490 | 1,654 |

Appendix A. 12. Weekly harvest, CPUE, and migratory timing of Tahltan, Tuya, and mainstem sockeye salmon stocks in the Stikine test fishery, 2010.


Appendix A. 13. Daily test harvest taken from the Tuya Assessment Fishery located above the Tahltan River, July 2010.

|  | Harvest | Proportions |  |  |  | Stock specific harvest |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Total | All Tahltan | Tuya | Mainstem | TahktanEnhance | All Tahltan | Tuya | Mainstem | TahltanEnhance |
| 7/21 | 266 | 0.409 | 0.551 | 0.041 | 0.145 | 109 | 146 | 11 | 38 |
| 7/22 | 372 | 0.575 | 0.425 | 0.000 | 0.210 | 214 | 158 | 0 | 78 |
| 7/23 | 337 | 0.290 | 0.653 | 0.057 | 0.120 | 98 | 220 | 19 | 40 |
| 7/24 | 253 | 0.350 | 0.590 | 0.060 | 0.130 | 89 | 149 | 15 | 33 |
| 7/25 | 203 | 0.274 | 0.665 | 0.061 | 0.110 | 56 | 135 | 12 | 22 |
| 7/26 | 317 | 0.317 | 0.563 | 0.120 | 0.218 | 101 | 179 | 38 | 69 |
| 7/27 | 362 | 0.541 | 0.379 | 0.080 | 0.280 | 196 | 137 | 29 | 101 |
| 7/28 | 337 | 0.427 | 0.496 | 0.077 | 0.235 | 144 | 167 | 26 | 79 |
| 7/29 | 345 | 0.542 | 0.397 | 0.061 | 0.198 | 187 | 137 | 21 | 68 |
| Total | 2,792 | 0.427 | 0.512 | 0.061 | 0.190 | 1,192 | 1,429 | 171 | 530 |

Appendix A. 14. Weekly coho salmon harvest in the Alaskan District 106 and 108 fisheries, 2010.

| SW | D106 |  |  |  |  | D108 |  |  | Subsistence harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery | Wild | Total | 106-41/42 | 106-30 | Hatchery | Wild | Total |  |
| 25 | 4,110 | 2,285 | 6,395 | 4,951 | 1,444 | 1,701 | -354 | 1,347 | 0 |
| 26 | 9,809 | 4,118 | 13,927 | 8,634 | 5,293 | 1,718 | 945 | 2,663 | 0 |
| 27 | 12,357 | 9,853 | 22,210 | 7,921 | 14,289 | 742 | 381 | 1,123 | 0 |
| 28 | 10,466 | 2,819 | 13,285 | 6,912 | 6,373 | 608 | 614 | 1,222 | 0 |
| 29 | 4,295 | 4,515 | 8,810 | 2,913 | 5,897 | 310 | 737 | 1,047 | 11 |
| 30 | 1,909 | 4,108 | 6,017 | 2,840 | 3,177 | 131 | 449 | 580 | 2 |
| 31 | 882 | 5,738 | 6,620 | 2,821 | 3,799 | 44 | 913 | 957 | 0 |
| 32 | 898 | 8,440 | 9,338 | 5,384 | 3,954 | 126 | 1,374 | 1,500 | 0 |
| 33 | 563 | 11,589 | 12,152 | 6,037 | 6,115 | 83 | 2,298 | 2,381 | 14 |
| 34 | 1,565 | 10,660 | 12,225 | 5,782 | 6,473 | 171 | 2,857 | 3,028 | 15 |
| 35 | 2,460 | 8,417 | 10,877 | 7,151 | 3,726 | 115 | 3,645 | 3,760 | 0 |
| 36 | 8,033 | 11,902 | 19,935 | 13,089 | 6,846 | 73 | 5,880 | 5,953 | 6 |
| 37 | 13,504 | 18,800 | 32,304 | 15,780 | 16,524 | 3,630 | 3,344 | 6,974 | 30 |
| 38 | 19,347 | 13,364 | 32,711 | 15,461 | 17,250 | 5,651 | 1,770 | 7,421 | 52 |
| 39 | 5,761 | 7,109 | 12,870 | 5,560 | 7,310 | 2,055 | 322 | 2,377 | 5 |
| 40-42 | 4,449 | 1,395 | 5,844 | 5,434 | 410 | 263 | 176 | 439 | 0 |
| Total | 100,408 | 125,112 | 225,520 | 116,670 | 108,880 | 17,421 | 25,351 | 42,772 | 135 |

Appendix A. 15. Weekly harvest of coho salmon in the Canadian lower river commercial fishery and test fisheries 2010.

|  | LRCF | Assesment/Test |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Drift | Set | Additional |  |
| 19 | 0 |  |  |  |  |
| 20 | 0 |  |  |  |  |
| 21 | 0 |  |  |  |  |
| 22 | 0 |  |  |  |  |
| 23 | 0 |  |  |  |  |
| 24 | 0 |  |  |  |  |
| 25 | 0 |  |  |  |  |
| 26 | 0 |  |  |  |  |
| 27 | 0 |  |  |  |  |
| 28 | 1 |  |  |  | 1 |
| 29 | 1 | 0 | 0 |  | 1 |
| 30 | 3 | 0 | 6 |  | 9 |
| 31 | 12 | 1 | 9 |  | 22 |
| 32 | 26 | 1 | 6 |  | 33 |
| 33 | 109 | 16 | 54 |  | 179 |
| 34 | 197 | 32 | 89 |  | 318 |
| 35 | 750 | 53 | 89 |  | 892 |
| 36 | 2,013 | 41 |  |  |  |
| 37 | 2,189 | 111 |  |  |  |
| 38 |  | 84 |  |  |  |
| 39 |  | 64 |  |  |  |
| 40 |  | 52 |  |  |  |
| 41 |  | 24 |  |  |  |
| 42 |  | 9 |  |  |  |
| Total | 5,301 | 488 | 253 | 0 | 1,455 |

Appendix A. 16. Weekly salmon effort in the Alaskan District 106 and 108 fisheries, 2010.

|  |  | D106 |  |  | 106-41/42 |  |  | 106-30 |  |  | D108 |  |  | Subsistence Permits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Start <br> Date | Permits | Days | Permit Days | Permits | Days | Permit Days | Permits | Days | Permit Days | Permits | Days | Permit Days |  |
| 25 | 13-Jun | 73 | 2.0 | 146 | 57 | 2 | 114 | 16 | 2.0 | 32 |  |  | 0 |  |
| 26 | 20-Jun | 65 | 3.0 | 195 | 52 | 3 | 156 | 15 | 3.0 | 45 | 40 | 3.0 | 120 |  |
| 27 | 27-Jun | 88 | 3.0 | 264 | 49 | 3 | 147 | 42 | 3.0 | 126 | 69 | 4.0 | 173 |  |
| 28 | 4-Jul | 48 | 3.0 | 144 | 27 | 3 | 81 | 21 | 3.0 | 63 | 32 | 3.0 | 96 |  |
| 29 | 11-Jul | 55 | 2.0 | 110 | 30 | 2 | 60 | 30 | 2.0 | 60 | 54 | 3.0 | 86 |  |
| 30 | 18-Jul | 58 | 2.0 | 116 | 34 | 2 | 68 | 25 | 2.0 | 50 | 41 | 2.0 | 82 |  |
| 31 | 25-Jul | 64 | 2.0 | 128 | 36 | 2 | 72 | 30 | 2.0 | 60 | 41 | 2.0 | 82 |  |
| 32 | 1-Aug | 78 | 2.0 | 156 | 38 | 2 | 76 | 42 | 2.0 | 84 | 23 | 2.0 | 46 |  |
| 33 | 8-Aug | 105 | 3.0 | 315 | 53 | 3 | 159 | 62 | 3.0 | 186 | 25 | 3.0 | 75 |  |
| 34 | 15-Aug | 88 | 3.0 | 264 | 48 | 3 | 144 | 48 | 3.0 | 144 | 23 | 3.0 | 69 |  |
| 35 | 22-Aug | 80 | 3.0 | 240 | 50 | 3 | 150 | 33 | 3.0 | 99 | 35 | 3.0 | 105 |  |
| 36 | 29-Aug | 85 | 3.0 | 255 | 59 | 3 | 177 | 27 | 3.0 | 81 | 33 | 3.0 | 99 |  |
| 37 | 5-Sep | 103 | 3.0 | 309 | 59 | 3 | 177 | 45 | 3.0 | 135 | 35 | 3.0 | 105 |  |
| 38 | 12-Sep | 97 | 3.0 | 291 | 51 | 3 | 153 | 49 | 3.0 | 147 | 33 | 3.0 | 99 |  |
| 39 | 19-Sep | 69 | 2.0 | 138 | 38 | 2 | 76 | 31 | 2.0 | 62 | 30 | 2.0 | 60 |  |
| 40 | 26-Sep | 16 | 3.0 | 48 | 14 | 3 | 42 | 2 | 3.0 | 6 | 20 | 3.0 | 60 |  |
| 41 | 3-Oct | 13 | 3.0 | 39 | 10 | 3 | 30 | 3 | 3.0 | 9 | 7 | 3.0 | 21 |  |
| 42 | 10-Oct | 2 | 2.0 | 4 | 2 | 2 | 4 | 0 | 2.0 | 0 |  | 2.0 | 0 |  |
| Total |  |  | 47 | 3,162 |  | 47 | 1,886 |  | 47 | 1,389 |  | 47 | 1,378 | 107 |

Appendix A. 17. Weekly salmon effort in the Canadian fisheries in the Stikine River, 2010.

| SW | Start Date | Lower Stikine |  |  | Upper Sitkine |  |  | Telegraph Aboriginal |  |  | Test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Permits | Days | Permit <br> Days | Permits | Days | Permit Days | Permits | Days | Permit Days | \# Drifts | Set hours |
| 19 | 2-May | 12.00 | 0.5 | 6 |  |  |  |  |  |  |  |  |
| 20 | 9-May | 12.00 | 2.2 | 26 |  |  |  |  |  |  |  |  |
| 21 | 16-May | 12.00 | 2.0 | 24 |  |  |  | 2.00 | 4.0 | 8 |  |  |
| 22 | 23-May | 12.00 | 1.0 | 12 |  |  |  | 4.00 | 7.0 | 28 |  |  |
| 23 | 30-May | 12.00 | 1.0 | 12 |  |  |  | 1.86 | 7.0 | 13 |  |  |
| 24 | 6-Jun | 12.00 | 0.6 | 7 |  |  |  | 4.71 | 7.0 | 33 |  |  |
| 25 | 13-Jun | 12.00 | 0.6 | 7 |  |  |  | 4.57 | 7.0 | 32 |  |  |
| 26 | 20-Jun | 12.00 | 2.0 | 24 |  |  |  | 5.00 | 7.0 | 35 |  |  |
| 27 | 27-Jun | 12.00 | 4.0 | 48 | 1 | 2 | 2 | 3.29 | 7.0 | 23 |  |  |
| 28 | 4-Jul | 12.00 | 3.0 | 36 | 1.0 | 3.0 | 3 | 13.14 | 7.0 | 92 |  |  |
| 29 | 11-Jul | 12.00 | 4.0 | 48 | 1.0 | 3.0 | 3 | 14.29 | 7.0 | 100 | 28 | 36 |
| 30 | 18-Jul | 12.00 | 2.0 | 24 | 1.8 | 4.0 | 7 | 7.29 | 7.0 | 51 | 42 | 84 |
| 31 | 25-Jul | 12.00 | 2.0 | 24 |  |  |  | 7.14 | 7.0 | 50 | 41 | 72 |
| 32 | 1-Aug | 12.00 | 2.0 | 24 |  |  |  | 2.33 | 3.0 | 7 | 42 | 60 |
| 33 | 8-Aug | 12.00 | 1.3 | 16 |  |  |  | 1.00 | 4.0 | 4 | 42 | 72 |
| 34 | 15-Aug | 12.00 | 1.0 | 12 |  |  |  |  |  |  | 56 | 72 |
| 35 | 22-Aug | 12.00 | 2.0 | 24 |  |  |  |  |  |  | 56 | 72 |
| 36 | 29-Aug | 5.00 | 7.0 | 35 |  |  |  |  |  |  | 70 |  |
| 37 | 5-Sep | 5.00 | 7.0 | 35 |  |  |  |  |  |  | 84 |  |
| 38 | 12-Sep |  |  | 0 |  |  |  |  |  |  | 77 |  |
| 39 | 19-Sep |  |  | 0 |  |  |  |  |  |  | 84 |  |
| 40 | 26-Sep |  |  | 0 |  |  |  |  |  |  | 84 |  |
| 41 | 3-Oct |  |  | 0 |  |  |  |  |  |  | 84 |  |
| 42 | 10-Oct |  |  | 0 |  |  |  |  |  |  | 70 |  |
| Total |  |  | 45.2 | 444.4 |  | 12.0 | 15.2 |  | 81.0 | 476.0 | 860 | 468 |

Appendix A. 18. Tuya assessment fishery, 2010.

| Date | Total nets |
| :---: | :---: |
| $7 / 21$ | 266 |
| $7 / 22$ | 372 |
| $7 / 23$ | 337 |
| $7 / 24$ | 253 |
| $7 / 25$ | 203 |
| $7 / 26$ | 317 |
| $7 / 27$ | 362 |
| $7 / 28$ | 337 |
| $7 / 29$ | 345 |
| Total | 2,792 |

Appendix A. 19. Daily counts of adult sockeye salmon passing through Tahltan Lake weir, 2010.

| Date | Count ${ }^{\text {a }}$ | Cumulative |  | Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Count | Percent |  |  | Count | Percent |
| 7-Jul | Installed |  |  | 13-Aug | 286 | 21,064 | 92.14\% |
| 8-Jul | 0 | 0 | 0.00\% | 14-Aug | 217 | 21,281 | 93.09\% |
| 9-Jul | 0 | 0 | 0.00\% | 15-Aug | 178 | 21,459 | 93.87\% |
| 10-Jul | 1,399 | 1,399 | 6.12\% | 16-Aug | 87 | 21,546 | 94.25\% |
| 11-Jul | 1,008 | 2,407 | 10.53\% | 17-Aug | 56 | 21,602 | 94.50\% |
| 12-Jul | 869 | 3,276 | 14.33\% | 18-Aug | 55 | 21,657 | 94.74\% |
| 13-Jul | 486 | 3,762 | 16.46\% | 19-Aug | 27 | 21,684 | 94.86\% |
| 14-Jul | 1,087 | 4,849 | 21.21\% | 20-Aug | 40 | 21,724 | 95.03\% |
| 15-Jul | 519 | 5,368 | 23.48\% | 21-Aug | 19 | 21,743 | 95.11\% |
| 16-Jul | 12 | 5,380 | 23.53\% | 22-Aug | 72 | 21,815 | 95.43\% |
| 17-Jul | 1,104 | 6,484 | 28.36\% | 23-Aug | 99 | 21,914 | 95.86\% |
| 18-Jul | 558 | 7,042 | 30.80\% | 24-Aug | 84 | 21,998 | 96.23\% |
| 19-Jul | 111 | 7,153 | 31.29\% | 25-Aug | 370 | 22,368 | 97.85\% |
| 20-Jul | 217 | 7,370 | 32.24\% | 26-Aug | 308 | 22,676 | 99.20\% |
| 21-Jul | 121 | 7,491 | 32.77\% | 27-Aug | 137 | 22,813 | 99.79\% |
| 22-Jul | 516 | 8,007 | 35.03\% | 28-Aug | 24 | 22,837 | 99.90\% |
| 23-Jul | 81 | 8,088 | 35.38\% | 29-Aug | 4 | 22,841 | 99.92\% |
| 24-Jul | 711 | 8,799 | 38.49\% | 30-Aug | 8 | 22,849 | 99.95\% |
| 25-Jul | 921 | 9,720 | 42.52\% | 31-Aug | 0 | 22,849 | 99.95\% |
| 26-Jul | 379 | 10,099 | 44.18\% | 1-Sep | 0 | 22,849 | 99.95\% |
| 27-Jul | 850 | 10,949 | 47.90\% | 2-Sep | 2 | 22,851 | 99.96\% |
| 28-Jul | 293 | 11,242 | 49.18\% | 3-Sep | 1 | 22,852 | 99.97\% |
| 29-Jul | 1,058 | 12,300 | 53.81\% | 4-Sep | 3 | 22,855 | 99.98\% |
| 30-Jul | 2,593 | 14,893 | 65.15\% | 5-Sep | 0 | 22,855 | 99.98\% |
| 31-Jul | 1,556 | 16,449 | 71.96\% | 6-Sep | 5 | 22,860 | 100.00\% |
| 1-Aug | 933 | 17,382 | 76.04\% | 7-Sep | 0 |  |  |
| 2-Aug | 141 | 17,523 | 76.65\% | 8-Sep | 0 |  |  |
| 3-Aug | 133 | 17,656 | 77.24\% | 9-Sep | 0 |  |  |
| 4-Aug | 918 | 18,574 | 81.25\% | 10-Sep | 0 |  |  |
| 5-Aug | 1,041 | 19,615 | 85.80\% | 11-Sep | 0 |  |  |
| 6-Aug | 329 | 19,944 | 87.24\% | 12-Sep | 0 |  |  |
| 7-Aug | 119 | 20,063 | 87.76\% | 13-Sep | 0 |  |  |
| 8-Aug | 105 | 20,168 | 88.22\% | 14-Sep | 0 |  |  |
| 9-Aug | 173 | 20,341 | 88.98\% | 15-Sep | Pulled |  |  |
| 10-Aug | 24 | 20,365 | 89.09\% |  |  |  |  |
| 11-Aug | 23 | 20,388 | 89.19\% |  |  |  |  |
| 12-Aug | 390 | 20,778 | 90.89\% |  |  |  |  |
|  |  |  | \% hatc | ery contr | Hatchery ${ }^{\text {a }}$ | Wild | Total |
| Total Counted |  |  |  |  | 9,670 | 13,190 | 22,860 |
| Fish removed for broodstock |  |  |  | 0.403 | 1,807 | 2,677 | 4,484 |
| Fish removed for otolith samples |  |  |  | 0.468 | 74 | 84 | 158 |
| Total Spawners |  |  |  |  | 7,789 | 10,429 |  |

${ }^{\text {a }}$ Thermal mark contribution from pooled brood stock and weir sample otolith results for total count $42.3 \%$; actual otoliths result used for broodstock $40.3 \%$ and fish removal from weir $46.8 \%$.

Appendix A. 20. Daily counts of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 2010.

|  |  | Cumulative |  |  |  | Cumulative |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Count | Count | Percent | Date | Count | Count | Percent |
| 6-May | 0 | 0 | $0.00 \%$ | 6-Jun | 5,577 | 499,808 | $89.65 \%$ |
| 7-May | 0 | 0 | $0.00 \%$ | 7-Jun | 6,062 | 505,870 | $90.73 \%$ |
| 8-May | 0 | 0 | $0.00 \%$ | 8-Jun | 762 | 506,632 | $90.87 \%$ |
| 9-May | 0 | 0 | $0.00 \%$ | 9-Jun | 7,335 | 513,967 | $92.19 \%$ |
| 10-May | 575 | 575 | $0.10 \%$ | 10-Jun | 38,075 | 552,042 | $99.02 \%$ |
| 11-May | 1,176 | 1,751 | $0.31 \%$ | 11-Jun | 3,011 | 555,053 | $99.56 \%$ |
| 12-May | 2,171 | 3,922 | $0.70 \%$ | 12-Jun | 1,616 | 556,669 | $99.85 \%$ |
| 13-May | 12,849 | 16,771 | $3.01 \%$ | 13-Jun | 411 | 557,080 | $99.92 \%$ |
| 14-May | 318 | 17,089 | $3.07 \%$ | 14-Jun | 181 | 557,261 | $99.95 \%$ |
| 15-May | 165 | 17,254 | $3.09 \%$ | 15-Jun | 271 | 557,532 | $100.00 \%$ |
| 16-May | 3,692 | 20,946 | $3.76 \%$ |  |  |  |  |
| 17-May | 162,249 | 183,195 | $32.86 \%$ |  |  |  |  |
| 18-May | 863 | 184,058 | $33.01 \%$ |  |  |  |  |
| 19-May | 615 | 184,673 | $33.12 \%$ |  |  |  |  |
| 20-May | 274 | 184,947 | $33.17 \%$ |  |  |  |  |
| 21-May | 56,564 | 241,511 | $43.32 \%$ |  |  |  |  |
| 22-May | 358 | 241,869 | $43.38 \%$ |  |  |  |  |
| 23-May | 67,178 | 309,047 | $55.43 \%$ |  |  |  |  |
| 24-May | 43,986 | 353,033 | $63.32 \%$ |  |  |  |  |
| 25-May | 1,471 | 354,504 | $63.58 \%$ |  |  |  |  |
| 26-May | 34,578 | 389,082 | $69.79 \%$ |  |  |  |  |
| 27-May | 3,910 | 392,992 | $70.49 \%$ |  |  |  |  |
| 28-May | 779 | 393,771 | $70.63 \%$ |  |  |  |  |
| 29-May | 918 | 394,689 | $70.79 \%$ |  |  |  |  |
| 30-May | 32,976 | 427,665 | $76.71 \%$ |  |  |  |  |
| 31-May | 2,118 | 429,783 | $77.09 \%$ |  |  |  |  |
| 1-Jun | 30,228 | 460,011 | $82.51 \%$ |  |  |  |  |
| 2-Jun | 2,882 | 462,893 | $83.03 \%$ |  |  |  |  |
| 3-Jun | 13,755 | 476,648 | $85.49 \%$ |  |  |  |  |
| 4-Jun | 16,384 | 493,032 | $88.43 \%$ | Wild | 306,344 |  |  |
| 5-Jun | 1,199 | 494,231 | $88.65 \%$ | Hatchery | 251,188 |  |  |
| Total |  |  |  |  | 557,532 |  |  |

## Appendix A. 21. Daily counts of adult Chinook salmon passing through Little Tahltan weir, 2010.

| 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 | 3 | 3 | 0.28\% | 0 | 0 | 0.00\% |
| 23-Jun | 0 | 3 | 0.28\% | 0 | 0 | 0.00\% |
| 24-Jun | 0 | 3 | 0.28\% | 0 | 0 | 0.00\% |
| 25-Jun | 19 | 22 | 2.08\% | 0 | 0 | 0.00\% |
| 26-Jun | 11 | 33 | 3.12\% | 0 | 0 | 0.00\% |
| 27-Jun | 7 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 28-Jun | 0 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 29-Jun | 0 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 30-Jun | 0 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 1-Jul | 0 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 2-Jul | 0 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 3-Jul | 0 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 4-Jul | 0 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 5-Jul | 0 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 6-Jul | 0 | 40 | 3.78\% | 0 | 0 | 0.00\% |
| 7-Jul | 86 | 126 | 11.92\% | 7 | 7 | 0.66\% |
| 8-Jul | 4 | 130 | 12.30\% | 2 | 9 | 0.85\% |
| 9-Jul | 3 | 133 | 12.58\% | 0 | 9 | 0.85\% |
| 10-Jul | 12 | 145 | 13.72\% | 2 | 11 | 1.04\% |
| 11-Jul | 6 | 151 | 14.29\% | 0 | 11 | 1.04\% |
| 12-Jul | 0 | 151 | 14.29\% | 0 | 11 | 1.04\% |
| 13-Jul | 1 | 152 | 14.38\% | 0 | 11 | 1.04\% |
| 14-Jul | 1 | 153 | 14.47\% | 0 | 11 | 1.04\% |
| 15-Jul | 2 | 155 | 14.66\% | 0 | 11 | 1.04\% |
| 16-Jul | 3 | 158 | 14.95\% | 2 | 13 | 1.23\% |
| 17-Jul | 0 | 158 | 14.95\% | 0 | 13 | 1.23\% |
| 18-Jul | 23 | 181 | 17.12\% | 7 | 20 | 1.89\% |
| 19-Jul | 106 | 287 | 27.15\% | 18 | 38 | 3.60\% |
| 20-Jul | 86 | 373 | 35.29\% | 7 | 45 | 4.26\% |
| 21-Jul | 93 | 466 | 44.09\% | 9 | 54 | 5.11\% |
| 22-Jul | 19 | 485 | 45.88\% | 4 | 58 | 5.49\% |
| 23-Jul | 43 | 528 | 49.95\% | 13 | 71 | 6.72\% |
| 24-Jul | 113 | 641 | 60.64\% | 16 | 87 | 8.23\% |
| 25-Jul | 50 | 691 | 65.37\% | 14 | 101 | 9.56\% |
| 26-Jul | 22 | 713 | 67.46\% | 10 | 111 | 10.50\% |
| 27-Jul | 8 | 721 | 68.21\% | 12 | 123 | 11.64\% |
| 28-Jul | 54 | 775 | 73.32\% | 25 | 148 | 14.00\% |
| 29-Jul | 29 | 804 | 76.06\% | 9 | 157 | 14.85\% |
| 30-Jul | 62 | 866 | 81.93\% | 9 | 166 | 15.70\% |
| 31-Jul | 14 | 880 | 83.25\% | 9 | 175 | 16.56\% |
| 1-Aug | 54 | 934 | 88.36\% | 13 | 188 | 17.79\% |
| 2-Aug | 17 | 951 | 89.97\% | 5 | 193 | 18.26\% |
| 3-Aug | 2 | 953 | 90.16\% | 2 | 195 | 18.45\% |
| 4-Aug | 52 | 1,005 | 95.08\% | 11 | 206 | 19.49\% |
| 5-Aug | 14 | 1,019 | 96.40\% | 3 | 209 | 19.77\% |
| 6-Aug | 5 | 1,024 | 96.88\% | 4 | 213 | 20.15\% |
| 7-Aug | 26 | 1,050 | 99.34\% | 5 | 218 | 20.62\% |
| 8-Aug | 7 | 1,057 | 100.00\% | 3 | 221 | 20.91\% |
| Total Counted |  | 1,057 |  |  | 221 |  |
| Broodstock |  | 0 |  |  | 0 |  |
| Escapement |  | 1,057 |  |  | 221 |  |

Appendix B. 1. Historic salmon harvest and effort in the Alaskan District 106 commercial gillnet fishery, 1960-2010.

| Year | Harvest |  |  |  |  | Boats | $\begin{aligned} & \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ | Effort Permit <br> 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 |
| 60-09 | 1,369 | 109,537 | 98,179 | 312,968 | 113,272 |  | 37 | 2,834 |
| 00-09 | 1,538 | 98,056 | 138,659 | 300,921 | 216,153 |  | 48 | 2,867 |

Appendix B. 2 Historic salmon harvest and effort in the Alaskan District 108 commercial gillnet fishery, 1962-2010.

| Year | Harvest |  |  |  |  | Boats | Days <br> Open | 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 | 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 |
| 60-09 | 3,857 | 30,622 | 16,289 | 25,845 | 35,317 |  | 38 | 1,312 |
| 00-09 | 10,132 | 46,590 | 26,478 | 36,983 | 108,165 |  | 51 | 2,164 |

Appendix B. 3. Annual harvest of large Stikine Chinook salmon in the U.S. gillnet, troll, recreational, and subsistence and estimates of Stikine River bound Chinook salmon in District 108, 2005-2010.
GSI used for sport and gillnet. Troll is based on GSI 2005-2008 and CWT 2009-presen
For detailed GSI stock comp estimates see Appendix G. 1 and G2.

| Year |  | D108 Large Stikine Chinook |  | Total Large |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| year | Subsistence | Sport | Gillnet | 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 |

Appendix B. 4. Chinook salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2010.
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 |  |  |  |  |
| -- |  |  | 113 |  |
| 2009 |  |  |  |  |

Appendix B. 5. Chinook salmon harvest in the Canadian commercial and recreational fisheries in the Stikine River, 1979-2010.

| Year | LRCF |  |  |  |  |  | URCF |  | Telegraph aboriginal |  | Tahltan sport fishery |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Large |  | Non-Large |  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-09 | 3,143 | 554 |  |  |  |  | 45 | 15 | 831 | 226 | 152 |  | 4,179 | 816 |
| 00-09 | 5,934 | 926 |  |  |  |  | 14 | 8 | 785 | 240 | 132 |  | 6,882 | 1,197 |

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

| 1985-2010. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-09 | 63 | 14 | 50 | 22 | 430 | 84 |  |  |  |  | 413 | 88 |
| 00-09 | 37 | 17 | 26 | 21 | 521 | 90 |  |  |  |  | 588 | 128 |

Appendix B. 7. Index counts of Stikine large Chinook salmon escapements, 1979-2010.

| Year | Inriver <br> Run | Inriver <br> harvest | Escapement | Marine <br> harvest | Terminal Run | \% to <br> Little Tahltan | Little Tahltan |  |  | Andrew Andrew Creek Comments |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Weir | Aerial | Beatty <br> Aerial |  |  |
| 1979 |  |  |  |  |  |  |  | 1,166 | 2,118 | 327 | Weir inc. broodstock |
| 1980 |  |  |  |  |  |  |  | 2,137 | $960 \quad 122$ | 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 | 696152 | 669 | Foot |
| 1996 | 31,718 | 2,931 | 28,787 |  |  | 0.167 | 4,821 | 1,920 | 772218 | 653 | Heli |
| 1997 | 31,509 | 4,701 | 26,808 |  |  | 0.207 | 5,547 | 1,907 | 260218 | 571 | Foot |
| 1998 | 28,133 | 2,354 | 25,779 |  |  | 0.189 | 4,873 | 1,385 | 587125 | 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 | ak survey time--weat | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 96-09 | 38,205 | 6,330 | 31,875 |  |  | 0.181 | 5,948 |  |  | 1,153 |  |
| 00-09 | 41,980 | 7,470 | 34,510 |  |  | 0.173 | 6,329 |  |  | 1,671 |  |

Appendix B. 8. General stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; District 106 \& 108, 1982-2010.

|  | D106 |  |  | D106-41/42 |  |  | D106-30 |  |  | D108 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-09 | 0.568 | 0.260 | 0.172 | 0.519 | 0.262 | 0.219 | 0.672 | 0.251 | 0.077 | 0.211 | 0.098 | 0.691 |
| 00-09 | 0.516 | 0.216 | 0.268 | 0.449 | 0.214 | 0.336 | 0.689 | 0.215 | 0.097 | 0.272 | 0.115 | 0.613 |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-09 | 79,710 | 40,890 | 22,346 | 50,314 | 27,792 | 19,752 | 31,475 | 14,122 | 3,272 | 6,673 | 5,329 | 32,920 |
| 00-09 | 51,412 | 22,657 | 23,987 | 31,695 | 15,567 | 21,531 | 19,717 | 7,090 | 2,456 | 5,917 | 5,316 | 35,357 |

Appendix B. 9. Stikine stock proportions and harvest of sockeye salmon in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1982-2010.

|  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-09 | 0.095 |  | 0.038 | 0.124 |  | 0.041 | 0.029 |  | 0.035 | 0.304 |  | 0.312 |
| 00-09 | 0.150 | 0.077 | 0.041 | 0.191 | 0.103 | 0.043 | 0.037 | 0.023 | 0.037 | 0.313 | 0.109 | 0.190 |
| 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 | 7,360 | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 83-09 | 12,888 |  | 5,154 | 12,345 |  | 3,774 | 1,267 |  | 1,604 | 18,972 |  | 10,319 |
| 00-09 | 14,458 | 6,324 | 3,205 | 13,536 | 5,670 | 2,324 | 921 | 653 | 881 | 21,167 | 4,260 | 9,930 |

Appendix B. 10. Tahltan sockeye salmon stock proportions and harvest of in the Alaskan commercial gillnet fishery; Districts 106 \& 108, 1994-2010.

|  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-09 | 0.126 | 0.051 | 0.075 | 0.161 | 0.068 | 0.093 | 0.033 | 0.006 | 0.027 | 0.346 | 0.133 | 0.214 |
| 00-09 | 0.150 | 0.070 | 0.080 | 0.191 | 0.095 | 0.096 | 0.037 | 0.006 | 0.031 | 0.313 | 0.155 | 0.159 |
| 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 | 346 | 13,188 | 3,560 | 9,628 |
| 2010 | 5,231 | 2,140 | 3,091 | 4,959 | 2,035 | 2,924 | 272 | 105 | 167 | 11,645 | 4,665 | 6,980 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 94-09 | 16,262 | 5,677 | 10,585 | 15,114 | 5,424 | 9,689 | 1,148 | 253 | 896 | 26,915 | 10,050 | 16,865 |
| 00-09 | 14,458 | 6,654 | 7,804 | 13,536 | 6,500 | 7,037 | 921 | 154 | 768 | 21,167 | 10,844 | 10,322 |

Appendix B. 11. Stikine River sockeye salmon harvest in the U.S. Subsistence fishery, 2004-2010.

| Stocks were proportioned based on using inriver stock comps |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Stikine |  |  |  |  |  |  | TahltanEnhance | WildTahltan |
| Year | All Tahltan | Tuya | Mainstem | Total | All Tahltan | Tuya | Mainstem |  |  |
| 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 |

Appendix B. 12. Stock proportions of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2010.

| 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 |  |  |
| Subdistrict 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, 1972-2010.

| $\frac{\text { All Tuya Area fish considered to be Tuya fish. }}{\text { Commercia//FN }}$ |  |  |  |  |  |  |  |  |  | Test total | Tahltan Area |  | Tuya Area |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Test |  |  |  |  |  |  |  |  |  |
| Year | LRCF | URCF | Telegraph aboriginal | Total Canadian treaty harvest | Drift Net | Set Net | $\begin{gathered} \text { Commercial } \\ \text { Liscense } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Additional } \\ \text { Drifts } \\ \hline \end{gathered}$ | Tuya <br> Assesment |  | 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 | 0 | 2,792 | 4,549 |  | 158 |  | 224 |
| Averag |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85-09 | 36,604 | 984 | 4,992 | 42,581 | 413 | 1,289 |  |  |  | 2,158 |  | 332 |  | 243 |
| 00-09 | 48,073 | 796 | 5,347 | 54,216 | 507 | 1,445 |  |  |  | 2,500 |  | 313 |  | 243 |

Appendix B. 14. Sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2010.

| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-09 | 0.471 |  | 0.431 | 0.770 | 0.139 | 0.091 | 0.776 | 0.131 | 0.092 | 0.445 |  | 0.459 |  |  |  |
| 00-09 | 0.510 | 0.196 | 0.295 | 0.648 | 0.259 | 0.093 | 0.636 | 0.268 | 0.096 | 0.368 | 0.156 | 0.476 |  |  |  |
|  |  |  |  |  |  |  | -cont | nued |  |  |  |  |  |  |  |

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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79-09 | 18,097 |  | 11,161 | 711 |  | 81 | 3,656 |  | 412 | 929 |  | 843 |  |  |  |
| 00-09 | 29,463 | 7,398 | 11,212 | 512 | 216 | 69 | 3,375 | 1,537 | 435 | 758 | 372 | 960 |  |  |  |

Appendix B. 15. Tahltan sockeye salmon stock proportions and harvest by stock in the Canadian commercial and assessment fishery in the Stikine River, 1979-2010.

| Year | LRCF |  |  | URCF |  |  | Telegraph Aboriginal |  |  | LRTF |  |  | Tuya Assessment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Tahlan | TahltanEnhance | WildTahltan | All Tahlan | TahltanEnhance | WildTahltan | All Tahltan | TahltanEnhance | WildTahltan | All Tahlan | TahltanEnhance | WildTahltan | All Tahtan | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00-09 | 0.510 | 0.203 | 0.306 | 0.648 | 0.199 | 0.449 | 0.636 | 0.186 | 0.450 | 0.368 | 0.126 | 0.242 |  |  |  |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Appendix B. 16. Tahltan Lake weir data with enhanced and wild Tahltan fish, 19792010.

|  | Weir count |  |  | Actual escapement |  |  | 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 | 32,777 |  |  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 00-09 | 31,550 | 13,058 | 18,180 | 30,925 | 12,944 | 17,981 | 3,038 | 1,185 | 1,853 | 313 | 113 | 199 | 27,887 | 11,759 | 16,128 |

Appendix B. 17. Sockeye salmon harvest by stock in the Stikine River under Canadian ESSR licenses, 1992-2010.

| Year | Tahltan Area ESSR License |  |  | $\begin{gathered} \hline \text { Tuya Area ESSR } \\ \hline \text { Tuya } \\ \hline \end{gathered}$ | 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 |

Appendix B. 18. Estimated proportion of inriver run comprised of Tahltan, Tuya, and mainstem sockeye salmon, 1979-2010
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 |  | 0.551 |  |
| 1986 | 0.449 |  | 0.696 |  |
| 1987 | 0.304 |  | 0.828 |  |
| 1988 | 0.172 |  | 0.812 |  |
| 1989 | 0.188 |  | 0.583 |  |
| 1990 | 0.417 |  | 0.593 |  |
| 1991 | 0.561 |  | 0.523 |  |
| 1992 | 0.496 |  | 0.394 | LRCF |
| 1993 | 0.477 |  | 0.406 | LRCF |
| 1994 | 0.606 |  | 0.377 | LRCF |
| 1995 | 0.578 | 0.016 | 0.474 | LRCF |
| 1996 | 0.519 | 0.104 | 0.344 | LRCF |
| 1997 | 0.297 | 0.229 | 0.209 | LRCF |
| 1998 | 0.309 | 0.348 | 0.349 | LRCF |
| 1999 | 0.545 | 0.245 | 0.530 | test |
| 2000 | 0.260 | 0.391 | 0.498 | test |
| 2001 | 0.202 | 0.268 | 0.421 | test |
| 2002 | 0.360 | 0.141 | 0.311 | LRCF |
| 2003 | 0.421 | 0.158 | 0.318 | LRCF |
| 2004 | 0.664 | 0.026 | 0.185 | LRCF |
| 2005 | 0.662 | 0.020 | 0.294 | LRCF |
| 2006 | 0.672 | 0.144 | 0.289 | average |
| 2007 | 0.541 | 0.165 | 0.215 | average |
| 2008 | 0.385 | 0.326 | 0.294 | average |
| 2009 | 0.541 | 0.244 | 0.361 |  |
| 2010 | 0.417 | 0.289 |  |  |
| Averages |  |  |  |  |
| $79-09$ | 0.447 |  |  |  |
| $00-09$ | 0.471 | 0.188 |  |  |
|  |  |  |  |  |

Appendix B. 19. Aerial survey counts of Mainstem sockeye salmon stocks in the Stikine River drainage, 1984-2010.

| Year | Chutine River | Scud <br> River | Porcupine Slough | Christina Creek | Craig <br> River | Bronson Slough | Verrett Creek | Verrett Slough | Escapement Index |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1984 | 526 | 769 | 69 | 130 | 102 |  | 640 |  | 2,236 |
| 1985 | 253 | 282 | 69 | 67 | 27 |  | 383 |  | 1,081 |
| 1986 | 139 | 151 | 6 | 0 | 0 |  | 270 |  | 566 |
| 1987 | 6 | 490 | 62 | 6 | 30 |  | 103 |  | 697 |
| 1988 | 14 | 219 | 22 | 7 | 0 |  | 114 |  | 376 |
| 1989 | 29 | 269 | 133 | 10 | 60 | 60 | 180 | 68 | 809 |
| 1990 | 24 | 301 | 31 | 4 | 0 | 0 | 301 | 82 | 743 |
| 1991 | 0 | 100 | 61 |  | 7 | 32 | 179 | 8 | 387 |
| 1992 | 164 | 1,242 | 90 | 50 | 17 | 138 | 163 | 22 | 1,886 |
| 1993 | 57 | 321 | 141 | 28 | 2 | 79 | 107 | 142 | 877 |
| 1994 | 267 | 292 | 66 |  |  | 62 | 147 | 114 | 948 |
| 1995 | 13 | 260 | 11 |  |  | 72 | 47 | 31 | 434 |
| 1996 | 134 | 351 | 149 |  |  | 27 | 54 | 338 | 1,053 |
| 1997 | 204 | 271 | 25 |  |  | 12 | 116 | 32 | 660 |
| 1998 | 230 | 246 | 89 |  |  | 9 | 183 | 135 | 892 |
| 1999 | 56 | 301 | 64 |  |  | 54 | 98 | 78 | 651 |
| 2000 | 47 | 86 | 86 |  |  | 32 | 0 | 90 | 341 |
| 2001 | 601 | 2,037 | 268 |  |  | 163 | 217 | 232 | 3,518 |
| 2002 | 239 | 216 | 95 |  |  | 13 | 353 | 0 | 916 |
| 2003 | 240 | 71 | 239 |  |  | 0 | 54 | 0 | 604 |
| 2004 | 245 | 262 | 56 |  |  | 0 | 85 | 0 | 648 |
| 2005 | 66 | 124 | 111 |  |  | 23 | 158 | 76 | 558 |
| 2006 | 276 | 288 | 59 |  |  | 0 | 140 | 180 | 943 |
| 2007 | 0 | 17 | 34 | 0 |  | 3 | 45 | 21 | 120 |
| 2008 | 83 | 41 | 33 | 0 |  | 0 | 15 | 231 | 403 |
| 2009 | 51 | 45 | 0 |  |  | 0 | 17 | 0 | 113 |
| 2010 | 103 | 300 | 187 | 0 |  | 0 | 310 | 217 | 1,117 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-09 | 152 | 348 | 80 |  |  | 37 | 160 | 90 | 864 |
| 00-09 | 185 | 319 | 98 |  |  | 23 | 108 | 83 | 816 |

Appendix B. 20. Stikine River sockeye salmon run size, 1979-2010.

| Year | Stikine River |  |  |  |  | All Tahltan |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Inriver <br> Run | Inriver Harvest | Escapement | Marine <br> Harvest | Terminal Run | Inriver <br> Run | Inriver <br> Harvest | Escapement | Marine <br> 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 79-09 | 109,119 | 41,541 | 67,578 | 49,445 | 158,565 | 52,636 | 23,943 | 28,693 | 28,553 | 81,189 |
| 00-09 | 126,949 | 58,198 | 68,751 | 59,935 | 186,884 | 65,759 | 34,834 | 30,925 | 35,894 | 101,653 |

-continued-

Appendix B. 20. Continued.

| Year | Stikine Mainstem |  |  |  |  | Tuya |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Inriver <br> Run | Inriver <br> Harvest | Escapement | Marine <br> Harvest | Terminal <br> Run | Inriver <br> Run | Inriver <br> Harvest | Escapement | Marine <br> Harvest | Terminal <br> 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 | 20,103 | 33,900 | 16,165 | 13,877 | 2,288 | 15,213 | 31,378 |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 79-09 | 47,036 | 11,887 | 35,149 | 14,551 | 61,587 |  |  |  |  |  |
| 00-09 | 41,678 | 12,424 | 29,254 | 13,251 | 54,930 | 19,512 | 10,940 | 8,572 | 10,789 | 30,302 |

Appendix B. 21. Coho salmon harvest in the Alaskan District 106 and 108 test fisheries, 1984-2010.
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 |  |  | 12 | 0 |
| 1994 |  |  |  | 142 |
| -- |  |  | 217 |  |
| 1998 |  |  | 140 |  |
| 1999 |  |  |  |  |
| 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, 1979-2010.

| Year | LRCF | URCF | Telegraph Aboriginal | Canada total Stikine harvest | Test |  |  |  | $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | drift | set | additional | test total |  |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 85-09 | 1,954 | 0 | 3 | 1,957 | 190 | 303 | 167 | 544 | 2,501 |
| 00-09 | 985 | 0 | 1 | 986 | 281 | 416 | 262 | 959 | 1,945 |

Appendix B. 23. Index counts of Stikine coho salmon escapements, 1984-2010.

|  | Katet |  |  |  | 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 |
| Average |  |  |  |  |  |  |  |  |  |
| 84-09 | 224 | 762 | 973 | 462 |  | 448 | 558 |  | 3,270 |
| 00-09 | 288 | 1,062 | 1,291 | 569 |  | 422 | 562 |  | 3,750 |

${ }^{\mathrm{a}}$ 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

Appendix B. 24. Effort in the Canadian fisheries, including assessment fisheries in the Stikine River, 1979-2010.

| Year | LRCF |  | URCF |  | Test Fisheries |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  Permit <br> Days Days |  | Days | PermitDays | standard test fisheries |  | Chinook assessment a |  |  |
|  |  |  | \# of Drift |  | Set hours | Days |  |  |
| 1979 | 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 |  | fisheri |  |  |  |  |  |  |  |
| 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 | 37.2 | 348 | 12.0 | 15.2 | 860 | 468 |  | 8 | 95 |
| Averages |  |  |  |  |  |  |  |  |  |
| 85-09 | 45 | 398 | 16 | 24 | 615 | 1,180 |  |  |  |
| 03-09 | 54 | 566 | 15 | 15 | 690 | 486 |  |  |  |

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

Appendix B. 25. Counts of adult sockeye salmon migrating through Tahltan Lake weir, 1959-2010.

|  | Weir | Date of Arrival |  |  | Weir Pulled | Total Total Count scapement |  | Broodstock | Samples or ESSR | Otolith Samples | Spawners |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | 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 |  |  |  |  |  |  |
| 1962 | 3-Aug |  |  |  |  | 1,780 | 1,780 |  |  |  |  |  |  |
| 1963 | 23-Jul | 26-Jul | 14-Aug | 25-Aug |  | 18,353 | 18,353 |  |  |  |  |  |  |
| 1963 | 19-Jul | 18-Jul | 2-Sep | 7-Sep |  | 1,471 | 1,471 |  |  |  |  |  |  |
| 1964 | 12-Jul | 3-Aug | 13-Aug | 21-Aug |  | 21,580 | 21,580 |  |  |  |  |  |  |
| 1965 | 11-Jul | 14-Jul | 21-Jul | 28-Jul |  | 38,801 | 38,801 |  |  |  |  |  |  |
| 1968 | 11-Jul | 21-Jul | 25-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-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 | $25-J u l$ | 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 | $25-J u l$ | 08-Aug | 14-Sep | 17,740 | 17,340 | 3,051 |  | 400 | 11,169 | 3,799 | 7,370 |
| 2003 | 07-Jul | 11-Jul | 29-Jul | 08-Aug | 18-Sep | 53,933 | 53,533 | 3,946 |  | 400 | 49,587 | 21,694 | 27,893 |
| 2004 | 07-Jul | 12-Jul | $25-\mathrm{Jul}$ | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 59-09 | 09-Jul | 18-Jul | 30-Jul | 11-Aug | 06-Sep | 24,989 | 24,244 |  |  |  |  |  |  |
| 00-09 | 08-Jul | 15-Jul | 28-Jul | 11-Aug | 14-Sep | 31,550 | 31,237 | 3,038 |  | 313 | 27,887 | 16,128 | 11,759 |

Appendix B. 26. Estimates of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 1984-2010.

| Year | Installed | Date of Arrival |  |  | Total <br> Count | Total Date and Estimate 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 | 484,801 | 261,244 |
| 2010 | 06-May | 10-May | 23-May | 07-Jun |  | 557,532 | 306,344 | 251,188 |
| Averages |  |  |  |  |  |  |  |  |
| 84-09 | 06-May | 11-May | 23-May | 03-Jun |  | 1,191,235 | 922,498 | 484,028 |
| 00-09 | 06-May | 11-May | 23-May | 04-Jun |  | 1,530,892 | 876,135 | 654,757 |

[^0]Appendix B. 27. Weir counts of Chinook salmon at Little Tahltan River, 1985-2010.

| Year | Weir Installed | Date of Arrival |  |  | Total Broodstock Count 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 |
| Averages |  |  |  |  |  |  |  |
| 85-09 | 21-Jun | 26-Jun | 20-Jul | 01-Aug | 5,707 | -5 | 5,704 |
| 00-09 | 20-Jun | 26-Jun | 21-Jul | 02-Aug | 6,346 | -3 | 6,343 |
| nonlarge Chinook |  |  |  |  |  |  |  |
| 1985 | 03-Jul | 04-Jul | 31-Jul | 10-Aug | 316 |  |  |
| 1986 | 28-Jun | 03-Jul | 25-Jul | 06-Aug | 572 |  |  |
| 1987 | 28-Jun | 03-Jul | 26-Jul | 06-Aug | 365 |  |  |
| 1988 | 26-Jun | 27-Jun | 17-Jul | 02-Aug | 327 |  |  |
| 1989 | 25-Jun | 26-Jun | 23-Jul | 02-Aug | 199 |  |  |
| 1990 | 22-Jun | 05-Jul | 22-Jul | 30-Jul | 417 |  |  |
| 1991 | 23-Jun | 03-Jul | 24-Jul | 07-Aug | 313 |  |  |
| 1992 | 24-Jun | 12-Jul | 22-Jul | 30-Jul | 131 |  |  |
| 1993 | 20-Jun | 30-Jun | 14-Jul | 01-Aug | 60 |  |  |
| 1994 | 18-Jun | 02-Jul | 22-Jul | 05-Aug | 121 |  |  |
| 1995 | 17-Jun | 22-Jun | 28-Jul | 10-Aug | 135 |  |  |
| 1996 | 17-Jun | 12-Jul | 25-Jul | 05-Aug | 22 |  |  |
| 1997 | 14-Jun | 26-Jun | 21-Jul | 1-Aug | 54 |  |  |
| 1998 | 13-Jun | 26-Jun | 20-Jul | 7-Aug | 37 |  |  |
| 1999 | 18-Jun | 1-Jul | 23-Jul | 6-Aug | 202 |  |  |
| 2000 | 19-Jun | 23-Jun | 20-Jul | 5-Aug | 108 |  |  |
| 2001 | 20-Jun | 23-Jun | 27-Jul | 3-Aug | 269 |  |  |
| 2002 | 20-Jun | 26-Jun | 21-Jul | 7-Aug | 618 |  |  |
| 2003 | 20-Jun | 30-Jun | 21-Jul | 5-Aug | 334 |  |  |
| 2004 | 18-Jun | 21-Jun | 19-Jul | 31-Jul | 250 |  |  |
| 2005 | 19-Jun | 29-Jun | 23-Jul | 4-Aug | 231 |  |  |
| 2006 | 20-Jun | 7-Jul | 23-Jul | 5-Aug | 93 |  |  |
| 2007 | 04-Jul | 15-Jul | 29-Jul | 1-Aug | 12 |  |  |
| 2008 | 19-Jun | 14-Jul | 25-Jul | 29-Jul | 139 |  |  |
| 2009 | 19-Jun | 9-Jul | 19-Jul | 4-Aug | 99 |  |  |
| 2010 | 19-Jun | 7-Jul | 26-Jul | 4-Aug | 221 |  |  |
| Averages |  |  |  |  |  |  |  |
| 85-09 | 21-Jun | 01-Jul | 22-Jul | 03-Aug | 217 |  |  |
| 00-09 | 20-Jun | 01-Jul | 22-Jul | 03-Aug | 215 |  |  |

Appendix B. 28. Historical pink and chum salmon harvest in the Canadian fisheries, 1979-2010.

| Year | LSCF |  | USCF |  | FSC |  | Assesment/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 |


| Appendix C. 1. Weekly Chinook salmon harvest in the U.S. fisheries in D111,2010. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ONLY inseason reference see the historcial Appendix D2 for final postseason estimate.All inseason estimates are based on CWT for sport, gillent, and troll harvest. |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | PU | D111sport |  |  | D111 gillnet |  |  |  | D111 troll |  |  | US total large D111 seine |  |
| SW | Large Taku | Large tota | al Large hatchery | Large Taku | Nonlarge | Large total | Large hatchery | Large Taku | Large total | Large hatchery | Large Taku | Taku | non-Taku |
| 18 |  | 106 |  | 106 |  |  |  |  |  |  |  | 106 |  |
| 19 |  | 96 |  | 96 |  |  |  |  |  |  |  | 96 |  |
| 20 |  | 79 |  | 79 |  |  |  |  |  |  |  | 79 |  |
| 21 |  | 195 |  | 195 |  |  |  |  |  |  |  | 195 |  |
| 22 |  | 248 |  | 248 |  |  |  |  |  |  |  | 248 |  |
| 23 |  | 336 | 131 | 205 |  |  |  |  |  |  |  | 205 |  |
| 24 |  | 110 | 0 | 110 |  |  |  |  |  |  |  | 110 |  |
| 25 |  | 222 | 281 | -59 |  |  |  | 0 |  |  |  | -59 |  |
| 26 |  | 247 | 165 | 82 | 155 | 482 | 116 | 366 |  |  |  | 448 |  |
| 27 | 20 | 370 | 223 | 147 | 83 | 348 |  | 348 |  |  |  | 515 | 9 |
| 28 | 7 | 165 | 49 | 116 | 70 | 145 | 119 | 26 | 14 | 0 | 0 | 149 | 21 |
| Total | 27 | 2,173 | 849 | 1,324 | 308 | 975 | 235 | 740 | 14 | 0 | 0 | 2,091 | 30 |

Appendix C. 2. Weekly Chinook salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River 2010.

| SW | Above <br> Border Run | Commercial |  | Test fishery |  | Aboriginal |  |  | Total large Above Border |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Large | nonlarge | Large | nonlarge | Large | nonlarge | Rec | Harvest | Escapement |
| 18 |  | 104 | 11 |  |  |  |  |  | 104 |  |
| 19 | 584 | 356 | 21 |  |  |  |  |  | 356 |  |
| 20 | 5,214 | 273 | 26 |  |  |  |  |  | 273 |  |
| 21 | 13,563 | 619 | 75 |  |  |  |  |  | 619 |  |
| 22 | 17,484 | 608 | 70 |  |  |  |  |  | 608 |  |
| 23 | 23,745 | 1087 | 125 |  |  |  |  |  | 1,087 |  |
| 24 | 23,122 | 1025 | 102 |  |  |  |  |  | 1,025 |  |
| 25 | 28,361 | 405 | 46 |  |  |  |  |  | 405 |  |
| 26 | 32,247 | 335 | 92 |  |  |  |  |  | 335 |  |
| 27 | 32,813 | 239 | 67 |  |  |  |  |  | 239 |  |
| 28 | 32,163 | 106 | 35 |  |  |  |  |  | 106 |  |
| 29 | 32,185 | 63 | 23 |  |  |  |  |  | 63 |  |
| 30 | 32,065 | 12 | 6 |  |  |  |  |  | 12 |  |
| 31 | 32,065 | 5 | 1 |  |  |  |  |  | 5 |  |
| 32 | 32,065 | 1 | 0 |  |  |  |  |  | 1 |  |
| Postseason estimate |  |  |  |  |  |  |  |  |  |  |
|  | 34,938 | 5,238 | 700 | 0 |  | 126 |  | 105 | 5,469 | 28,769 |

Appendix C. 3. Weekly sockeye salmon harvest of Alaskan D111 traditional and terminal common property commercial drift gillnet fishery, 2010.

|  |  | Traditional StatArea specific harvests |  |  | Terminal |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Week | D11 Total | $111-32$ | $111-31 / 90$ | $111-20$ | $111-34$ | 111-(33-35) |
| 25 |  |  |  |  |  |  |
| 26 | 2,398 | 2,290 | 108 |  |  |  |
| 27 | 3,016 | 2,811 | 205 |  |  |  |
| 28 | 3,725 | 3,164 | 561 |  |  |  |
| 29 | 7,186 | 6,305 | 881 |  |  |  |
| 30 | 14,330 | 11,157 | 3,173 |  |  |  |
| 31 | 12,672 | 10,380 | 2,292 |  |  |  |
| 32 | 12,612 | 11,870 | 742 |  |  |  |
| 33 | 2,364 | 2,005 | 41 | 318 |  |  |
| 34 | 1,596 | 893 | 210 | 493 |  |  |
| 35 | 16,445 | 1,539 | 73 | 178 |  |  |
| 36 | 190 | 165 | 20 |  |  |  |
| 37 | 56 | 56 | 3 |  |  |  |
| 38 | 11 | 8 | 0 |  |  |  |
| 39 | 5 | 5 |  |  |  |  |
| 40 | 1 | 1 |  |  |  |  |
| 41 | 0 | 0 |  |  | 0 |  |
| Total | 76,607 | 52,649 | 8,309 | 989 | 0 | 14,660 |

Appendix C. 4. Weekly stock proportions of sockeye salmon harvested in the Alaskan District 111 traditional commercial drift gillnet fishery, 2010.

| SW | Taku harvest proportions |  |  |  |  |  |  | Total <br> Taku | Wild |  |  | U.S. <br> Enhanced | Stikine <br> Enhanced | Total <br> Enhanced | Total <br> wild |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Little Trapper |  | Tatsamenie |  |  |  |  |  |  |  |  |  |
|  | Kuthai | King Salmon | Mainstem | Wild | Enhanced | Wild | Enhanced |  | Crescent | Speel | Snett. |  |  |  |  |
| 25 |  |  |  |  |  |  |  | 0.000 |  |  | 0.000 |  |  | 0.000 | 1.000 |
| 26 | 0.370 | 0.042 | 0.186 |  | 0.000 | 0.365 | 0.000 | 0.964 | 0.005 | 0.025 | 0.029 | 0.000 | 0.007 | 0.007 | 0.993 |
| 27 | 0.318 | 0.035 | 0.340 |  | 0.000 | 0.262 | 0.003 | 0.958 | 0.008 | 0.027 | 0.034 | 0.000 | 0.008 | 0.011 | 0.989 |
| 28 | 0.144 | 0.022 | 0.603 |  | 0.006 | 0.191 | 0.004 | 0.969 | 0.006 | 0.011 | 0.017 | 0.010 | 0.004 | 0.023 | 0.977 |
| 29 | 0.000 | 0.022 | 0.522 |  | 0.012 | 0.194 | 0.013 | 0.762 | 0.056 | 0.081 | 0.137 | 0.098 | 0.003 | 0.126 | 0.874 |
| 30 | 0.000 | 0.000 | 0.504 |  | 0.000 | 0.133 | 0.018 | 0.655 | 0.056 | 0.083 | 0.139 | 0.206 | 0.000 | 0.223 | 0.777 |
| 31 | 0.000 | 0.000 | 0.618 |  | 0.004 | 0.135 | 0.022 | 0.779 | 0.048 | 0.121 | 0.169 | 0.052 | 0.000 | 0.077 | 0.923 |
| 32 | 0.000 | 0.000 | 0.527 |  | 0.000 | 0.109 | 0.005 | 0.641 | 0.000 | 0.255 | 0.255 | 0.104 | 0.000 | 0.109 | 0.891 |
| 33 | 0.000 | 0.000 | 0.421 |  | 0.000 | 0.108 | 0.023 | 0.552 | 0.018 | 0.198 | 0.216 | 0.233 | 0.000 | 0.255 | 0.745 |
| 34 | 0.000 | 0.000 | 0.605 |  | 0.000 | 0.159 | 0.000 | 0.764 | 0.016 | 0.067 | 0.083 | 0.153 | 0.000 | 0.153 | 0.847 |
| 35 | 0.000 | 0.000 | 0.605 |  | 0.000 | 0.159 | 0.000 | 0.764 | 0.016 | 0.067 | 0.083 | 0.153 | 0.000 | 0.153 | 0.847 |
| 36 | 0.000 | 0.000 | 0.605 |  | 0.000 | 0.159 | 0.000 | 0.764 | 0.016 | 0.067 | 0.083 | 0.153 | 0.000 | 0.153 | 0.847 |
| 37 | 0.000 | 0.000 | 0.605 |  | 0.000 | 0.159 | 0.000 | 0.764 | 0.016 | 0.067 | 0.083 | 0.153 | 0.000 | 0.153 | 0.847 |
| 38 | 0.000 | 0.000 | 0.605 |  | 0.000 | 0.159 | 0.000 | 0.764 | 0.016 | 0.067 | 0.083 | 0.153 | 0.000 | 0.153 | 0.847 |
| 39 | 0.000 | 0.000 | 0.605 |  | 0.000 | 0.159 | 0.000 | 0.764 | 0.016 | 0.067 | 0.083 | 0.153 | 0.000 | 0.153 | 0.847 |
| 40 | 0.000 | 0.000 | 0.605 |  | 0.000 | 0.159 | 0.000 | 0.764 | 0.016 | 0.067 | 0.083 | 0.153 | 0.000 | 0.153 | 0.847 |
| 41 | 0.000 | 0.000 | 0.605 |  | 0.000 | 0.159 | 0.000 | 0.764 | 0.016 | 0.067 | 0.083 | 0.153 | 0.000 | 0.153 | 0.847 |
| Total | 0.038 | 0.007 | 0.523 | 0.000 | 0.002 | 0.155 | 0.012 | 0.738 | 0.032 | 0.120 | 0.152 | 0.109 | 0.001 | 0.125 | 0.875 |
| 25 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 886 | 102 | 447 |  | 0 | 876 | 0 | 2,311 | 11 | 59 | 70 | 0 | 17 | 17 | 2,381 |
| 27 | 959 | 106 | 1,027 |  | 0 | 789 | 8 | 2,889 | 23 | 80 | 103 | 0 | 24 | 32 | 2,984 |
| 28 | 537 | 82 | 2,246 |  | 21 | 711 | 14 | 3,610 | 24 | 39 | 63 | 38 | 14 | 86 | 3,639 |
| 29 | 0 | 156 | 3,751 |  | 84 | 1,393 | 96 | 5,479 | 401 | 581 | 981 | 702 | 24 | 905 | 6,281 |
| 30 | 0 | 4 | 7,224 |  | 0 | 1,906 | 252 | 9,387 | 801 | 1,193 | 1,994 | 2,949 | 0 | 3,201 | 11,129 |
| 31 | 0 | 0 | 7,834 |  | 45 | 1,716 | 273 | 9,869 | 607 | 1,538 | 2,146 | 658 | 0 | 976 | 11,696 |
| 32 | 0 | 0 | 6,644 |  | 0 | 1,378 | 64 | 8,086 | 0 | 3,218 | 3,218 | 1,308 | 0 | 1,372 | 11,240 |
| 33 | 0 | 0 | 996 |  | 0 | 254 | 53 | 1,304 | 42 | 468 | 510 | 550 | 0 | 603 | 1,761 |
| 34 | 0 | 0 | 965 |  | 0 | 254 | 0 | 1,219 | 26 | 107 | 133 | 243 | 0 | 243 | 1,353 |
| 35 | 0 | 0 | 1,083 |  | 0 | 285 | 0 | 1,368 | 29 | 120 | 149 | 273 | 0 | 273 | 1,517 |
| 36 | 0 | 0 | 112 |  | 0 | 29 | 0 | 141 | 3 | 12 | 15 | 28 | 0 | 28 | 157 |
| 37 | 0 | 0 | 36 |  | 0 | 9 | 0 | 45 | 1 | 4 | 5 | 9 | 0 | 9 | 50 |
| 38 | 0 | 0 | 5 |  | 0 | 1 | 0 | 6 | 0 | 1 | 1 | 1 | 0 | 1 | 7 |
| 39 | 0 | 0 | 3 |  | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 1 | 4 |
| 40 | 0 | 0 | 1 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 41 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2,382 | 450 | 32,373 |  | 150 | 9,604 | 760 | 45,719 | 1,968 | 7,422 | 9,390 | 6,759 | 79 | 7,748 | 54,199 |

Appendix C. 5. Weekly sockeye salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2010.

| SW | Above Border <br> Run | Commercial |  | Test | Above <br> Border <br> Aboriginal | Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All | Taku |  |  |  |
| 22 |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |
| 24 |  | 15 | 15 |  |  |  |
| 25 |  | 73 | 73 |  |  |  |
| 26 | 10,748 | 2,054 | 2,054 |  |  |  |
| 27 | 15,481 | 1,453 | 1,422 |  |  |  |
| 28 | 26,283 | 1,475 | 1,475 |  |  |  |
| 29 | 37,165 | 2,622 | 2,622 |  |  |  |
| 30 | 66,025 | 5,786 | 5,786 |  |  |  |
| 31 | 79,523 | 2,197 | 2,197 |  |  |  |
| 32 | 89,540 | 1,724 | 1,724 |  |  |  |
| 33 | 102,259 | 1,513 | 1,513 |  |  |  |
| 34 | 111,966 | 642 | 642 | 186 |  |  |
| 35 | NA | 443 | 443 | 87 |  |  |
| 36 | 107,628 | 171 | 171 | 24 |  |  |
| 37 | 107,510 | 39 | 39 | 0 |  |  |
| 38 | 107,951 | 4 | 4 | 0 |  |  |
| 39 |  | 0 |  | 0 |  |  |
| 40 |  |  |  | 0 |  |  |
| 41 |  |  |  | 0 |  |  |
| Postse ${ }_{\text {c }}$ | 103,257 | 20,211 | 20,180 | 297 | 184 | 82,596 |
| Expanc | 109,028 | 20,211 | 20,180 | 297 | 184 | 88,367 |

Appendix C. 6. Estimates of wild and enhanced sockeye salmon stock harvested in the Canadian commercial fishery in the Taku River by week, 2010.

| SW | Kuthai | King Salmon | Mainstem | Little Trapper |  | Tatsamenie |  | Stikine <br> Enhanced | US <br> Enhanced | Taku Wild |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Wild | Enhanced | Wild | Enhanced |  |  |  |
| 22-24 | 0.775 | 0.035 | 0.190 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 25 | 0.775 | 0.035 | 0.190 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 26 | 0.775 | 0.035 | 0.190 |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| 27 | 0.734 | 0.088 | 0.156 |  | 0.000 | 0.000 | 0.000 | 0.022 | 0.000 | 0.978 |
| 28 | 0.371 | 0.123 | 0.484 |  | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.979 |
| 29 | 0.000 | 0.092 | 0.641 |  | 0.000 | 0.257 | 0.011 | 0.000 | 0.000 | 0.989 |
| 30 | 0.000 | 0.009 | 0.759 |  | 0.042 | 0.170 | 0.021 | 0.000 | 0.000 | 0.938 |
| 31 | 0.000 | 0.000 | 0.728 |  | 0.000 | 0.250 | 0.021 | 0.000 | 0.000 | 0.979 |
| 32 | 0.000 | 0.000 | 0.704 |  | 0.011 | 0.243 | 0.043 | 0.000 | 0.000 | 0.947 |
| 33 | 0.000 | 0.000 | 0.701 |  | 0.000 | 0.255 | 0.043 | 0.000 | 0.000 | 0.957 |
| 34 | 0.000 | 0.000 | 0.726 |  | 0.000 | 0.274 | 0.000 | 0.000 | 0.000 | 1.000 |
| 35 | 0.000 | 0.000 | 0.726 |  | 0.000 | 0.274 | 0.000 | 0.000 | 0.000 | 1.000 |
| 36 | 0.000 | 0.000 | 0.726 |  | 0.000 | 0.274 | 0.000 | 0.000 | 0.000 | 1.000 |
| 37 | 0.000 | 0.000 | 0.726 |  | 0.000 | 0.274 | 0.000 | 0.000 | 0.000 | 1.000 |
| 38 | 0.000 | 0.000 | 0.726 |  | 0.000 | 0.274 | 0.000 | 0.000 | 0.000 | 1.000 |
| Total | 0.162 | 0.033 | 0.605 |  | 0.014 | 0.167 | 0.017 | 0.002 | 0.000 | 0.968 |
| 22-24 | 12 | 1 | 3 |  | 0 | 0 | 0 | 0 | 0 | 15 |
| 25 | 57 | 3 | 14 |  | 0 | 0 | 0 | 0 | 0 | 73 |
| 26 | 1,592 | 73 | 389 |  | 0 | 0 | 0 | 0 | 0 | 2,054 |
| 27 | 1,066 | 128 | 227 |  | 0 | 0 | 0 | 31 | 0 | 1,422 |
| 28 | 548 | 182 | 715 |  | 31 | 0 | 0 | 0 | 0 | 1,444 |
| 29 | 0 | 242 | 1,680 |  | 0 | 673 | 28 | 0 | 0 | 2,594 |
| 30 | 0 | 49 | 4,389 |  | 241 | 986 | 121 | 0 | 0 | 5,424 |
| 31 | 0 | 0 | 1,600 |  | 0 | 550 | 47 | 0 | 0 | 2,150 |
| 32 | 0 | 0 | 1,214 |  | 18 | 419 | 73 | 0 | 0 | 1,632 |
| 33 | 0 | 0 | 1,061 |  | 0 | 386 | 66 | 0 | 0 | 1,447 |
| 34 | 0 | 0 | 466 |  | 0 | 176 | 0 | 0 | 0 | 642 |
| 35 | 0 | 0 | 322 |  | 0 | 121 | 0 | 0 | 0 | 443 |
| 36 | 0 | 0 | 124 |  | 0 | 47 | 0 | 0 | 0 | 171 |
| 37 | 0 | 0 | 28 |  | 0 | 11 | 0 | 0 | 0 | 39 |
| 38 | 0 | 0 | 3 |  | 0 | 1 | 0 | 0 | 0 | 4 |
| Total | 3,274 | 676 | 12,235 |  | 290 | 3,369 | 334 | 31 | 0 | 19,555 |

Appendix C. 7. Weekly coho salmon harvest in the traditional Alaskan District 111 and StatArea 111-32 (Taku Inlet), commercial drift gillnet fishery, 2010.

| SW | D111 |  |  | 111-32 |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | Hatchery | Wild |  |
| 25 |  |  |  |  |
| 26 | 42 | 0 | 42 | 40 |
| 27 | 123 | 0 | 123 | 108 |
| 28 | 516 | 0 | 516 | 337 |
| 29 | 1,224 | 0 | 1,224 | 735 |
| 30 | 2,336 | 0 | 2,336 | 1,528 |
| 31 | 2,608 | 0 | 2,608 | 2,085 |
| 32 | 2,988 | 188 | 2,800 | 2,704 |
| 33 | 1,663 | 0 | 1,663 | 1,332 |
| 34 | 3,704 | 316 | 3,388 | 2,630 |
| 35 | 6,846 | 694 | 6,152 | 6,436 |
| 36 | 10,782 | 485 | 10,297 | 10,403 |
| 37 | 12,497 | 1,157 | 11,340 | 12,497 |
| 38 | 10,543 | 1,270 | 9,273 | 9,897 |
| 39 | 5,699 | 963 | 4,736 | 5,325 |
| 40 | 588 | 33 | 555 | 588 |
| 41 | 45 | 0 | 45 | 45 |
| Total | 62,204 | 5,106 | 57,098 | 56,690 |

Appendix C. 8. Weekly coho salmon abundance estimates of above border run and harvest in the Canadian fisheries in the Taku River, 2010.

| SW | Above border Run | Harvest |  |  |  | Above border Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Commercial | Aboriginal | Recreational | Test |  |
| 25 |  |  |  |  |  |  |
| 26 |  | 3 |  |  |  |  |
| 27 |  | 11 |  |  |  |  |
| 28 |  | 37 |  |  |  |  |
| 29 |  | 255 |  |  |  |  |
| 30 |  | 665 |  |  |  |  |
| 31 |  | 622 |  |  |  |  |
| 32 |  | 681 |  |  |  |  |
| 33 |  | 1,009 |  |  |  |  |
| 34 |  | 1,007 |  |  | 305 |  |
| 35 |  | 1,262 |  |  | 395 |  |
| 36 |  | 1,671 |  |  | 500 |  |
| 37 |  | 954 |  |  | 600 |  |
| 38 |  | 1,939 |  |  | 700 |  |
| 39 |  | 233 |  |  | 600 |  |
| 40 |  |  |  |  | 500 |  |
| 41 | 117,846 |  |  |  | 400 |  |
| Before SW34 |  | 3,283 |  |  |  |  |
| SW34 to end |  | 7,066 |  |  |  |  |
| Postseason Estimate | 141,238 | 10,349 | 59 | 0 | 4,000 | 126,830 |

Appendix C. 9. Weekly effort in the Alaskan traditional District 111 and StatArea 11132 (Taku Inlet), commercial drift gillnet fishery, 2010.

| SW | Start Date | D111 |  |  | D111-32 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Boats | Days <br> Open | Boat <br> Days | Boats | Days <br> Open | Boat <br> Days |
| 25 | 13-Jun |  |  |  |  |  |  |
| 26 | 20-Jun | 65 | 3.0 | 195 | 63 | 3 | 189 |
| 27 | 27-Jun | 59 | 3.0 | 177 | 58 | 3 | 174 |
| 28 | 4-Jul | 115 | 2.0 | 230 | 93 | 2 | 186 |
| 29 | 11-Jul | 136 | 2.0 | 272 | 107 | 2 | 214 |
| 30 | 18-Jul | 134 | 2.0 | 268 | 96 | 2 | 192 |
| 31 | 25-Jul | 139 | 2.0 | 278 | 97 | 2 | 194 |
| 32 | 1-Aug | 61 | 3.0 | 183 | 54 | 3 | 162 |
| 33 | 8-Aug | 49 | 2.0 | 98 | 39 | 2 | 78 |
| 34 | 15-Aug | 41 | 3.0 | 123 | 32 | 3 | 96 |
| 35 | 22-Aug | 51 | 4.0 | 204 | 47 | 4 | 188 |
| 36 | 29-Aug | 44 | 4.0 | 176 | 43 | 4 | 172 |
| 37 | 5-Sep | 50 | 4.0 | 200 | 50 | 4 | 200 |
| 38 | 12-Sep | 42 | 4.0 | 168 | 41 | 4 | 164 |
| 39 | 19-Sep | 25 | 4.0 | 100 | 24 | 4 | 96 |
| 40 | 26-Sep | 12 | 4.0 | 48 | 12 | 4 | 48 |
| 41 | 3-Oct | 1 | 4.0 | 4 | 1 | 4 | 4 |
| Total |  |  | 50.0 | 2,724 |  | 50.0 | 2,357 |

Appendix C. 10. Weekly effort in the Canadian commercial and assessment fisheries in the Taku River, 2010.

| Week | Commercial |  |  |  | Test |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Start <br> Date | Average Permits | Days <br> Fished | Permit Days | Average Permits | Days <br> Fished | Permit Days |
| 18 | 25-Apr | 6.50 | 1.67 | 10.86 |  |  |  |
| 19 | 2-May | 7.00 | 2.00 | 14.00 |  |  |  |
| 20 | 9-May | 8.50 | 0.63 | 5.36 |  |  |  |
| 21 | 16-May | 7.00 | 2.58 | 18.06 |  |  |  |
| 22 | 23-May | 7.67 | 3.00 | 23.01 |  |  |  |
| 23 | 30-May | 10.00 | 3.00 | 30.00 |  |  |  |
| 24 | 6-Jun | 9.00 | 2.00 | 18.00 |  |  |  |
| 25 | 13-Jun | 9.00 | 1.00 | 9.00 |  |  |  |
| 26 | 20-Jun | 8.00 | 3.00 | 24.00 |  |  |  |
| 27 | 27-Jun | 7.33 | 3.00 | 21.99 |  |  |  |
| 28 | 4-Jul | 8.33 | 3.00 | 24.99 |  |  |  |
| 29 | 11-Jul | 10.67 | 3.00 | 32.01 |  |  |  |
| 30 | 18-Jul | 10.67 | 3.00 | 32.01 |  |  |  |
| 31 | 25-Jul | 11.00 | 2.00 | 22.00 |  |  |  |
| 32 | 1-Aug | 11.00 | 1.00 | 11.00 |  |  |  |
| 33 | 8-Aug | 10.00 | 2.00 | 20.00 |  |  |  |
| 34 | 15-Aug | 4.00 | 3.00 | 12.00 |  | 4 |  |
| 35 | 22-Aug | 4.25 | 4.00 | 17.00 |  | 4 |  |
| 36 | 29-Aug | 3.25 | 4.00 | 13.00 |  | 4 |  |
| 37 | 5-Sep | 3.80 | 5.00 | 19.00 |  | 4 |  |
| 38 | 12-Sep | 2.00 | 7.00 | 14.00 |  | 4 |  |
| 39 | 19-Sep | 1.67 | 3.00 | 5.01 |  | 5 |  |
| 40 | 26-Sep |  |  |  |  | 5 |  |
| 41 | 3-Oct |  |  |  |  | 4 |  |
| Total |  |  | 62 | 396 |  |  |  |

Appendix C. 11. Daily counts of adult sockeye salmon passing through Tatsamenie weir, 2010.

| Date | Tatsamenie |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Cumulative |  |  |  |
|  | Count | Count | Percent |  |
| 6-Aug | Weir installed August 6 |  |  |  |
| 7-Aug |  | 0 | 0.0 |  |
| 8-Aug |  | 0 | 0.0 |  |
| 9-Aug |  | 0 | 0.0 |  |
| 10-Aug |  | 0 | 0.0 |  |
| 11-Aug |  | 0 | 0.0 |  |
| 12-Aug |  | 0 | 0.0 |  |
| 13-Aug |  | 0 | 0.0 |  |
| 14-Aug |  | 0 | 0.0 |  |
| 15-Aug |  | 0 | 0.0 |  |
| 16-Aug | 11 | 11 | 0.3 |  |
| 17-Aug | 25 | 36 | 1.0 |  |
| 18-Aug | 11 | 47 | 1.3 |  |
| 19-Aug | 27 | 74 | 2.1 |  |
| 20-Aug | 61 | 135 | 3.8 |  |
| 21-Aug | 42 | 177 | 5.0 |  |
| 22-Aug | 33 | 210 | 6.0 |  |
| 23-Aug | 29 | 239 | 6.8 |  |
| 24-Aug | 234 | 473 | 13.5 |  |
| 25-Aug | 161 | 634 | 18.0 |  |
| 26-Aug | 323 | 957 | 27.2 |  |
| 27-Aug | 388 | 1,345 | 38.3 |  |
| 28-Aug | 323 | 1,668 | 47.5 |  |
| 29-Aug | 92 | 1,760 | 50.1 |  |
| 30-Aug | 316 | 2,076 | 59.1 |  |
| 31-Aug | 238 | 2,314 | 65.9 |  |
| 1-Sep | 101 | 2,415 | 68.7 |  |
| 2-Sep | 52 | 2,467 | 70.2 |  |
| 3-Sep | 103 | 2,570 | 73.2 |  |
| 4-Sep | 59 | 2,629 | 74.8 |  |
| 5-Sep | 48 | 2,677 | 76.2 |  |
| 6-Sep | 92 | 2,769 | 78.8 |  |
| 7-Sep | 50 | 2,819 | 80.2 |  |
| 8-Sep | 53 | 2,872 | 81.8 |  |
| 9-Sep | 74 | 2,946 | 83.9 |  |
| 10-Sep | 5 | 2,951 | 84.0 |  |
| 11-Sep | 56 | 3,007 | 85.6 |  |
| 12-Sep | 47 | 3,054 | 86.9 |  |
| 13-Sep | 48 | 3,102 | 88.3 |  |
| 14-Sep | 37 | 3,139 | 89.4 |  |
| 15-Sep | 49 | 3,188 | 90.7 |  |
| 16-Sep | 12 | 3,200 | 91.1 |  |
| 17-Sep | 43 | 3,243 | 92.3 |  |
| 18-Sep | 20 | 3,263 | 92.9 |  |
| 19-Sep | 1 | 3,264 | 92.9 |  |
| 20-Sep | 28 | 3,292 | 93.7 |  |
| 21-Sep | 0 | 3,292 | 93.7 |  |
| 22-Sep | 37 | 3,329 | 94.8 |  |
| 23-Sep | 2 | 3,331 | 94.8 |  |
| 24-Sep | 102 | 3,433 | 97.7 |  |
| 25-Sep | 12 | 3,445 | 98.1 |  |
| 26-Sep | 7 | 3,452 | 98.3 |  |
| 27-Sep | 9 | 3,461 | 98.5 |  |
| 28-Sep | 21 | 3,482 | 99.1 |  |
| 29-Sep | 0 | 3,482 | 99.1 |  |
| 30-Sep | 14 | 3,496 | 99.5 |  |
| 1-Oct | 0 | 3,496 | 99.5 |  |
| 2-Oct | 15 | 3,511 | 99.9 |  |
| 3-Oct | 0 | 3,511 | 99.9 |  |
| 4-Oct | 2 | 3,513 | 100.0 |  |
|  |  | Total | Wild | TMR |
| Holding below weir |  |  |  |  |
| Escapement to lake |  | 3,513 | 2,812 | 701 |
| Outlet spawners |  | <15 |  |  |
| otoltih samples |  | 396 | 317 | 79 |
| Broodstock a |  | -1,400 | -1,121 | -279 |
| Spawners |  | 2,113 |  |  |

a Broodstock included 539 females and 490 males from which gametes were collected,
18 females and 12 male mortalities, and 243 females and 98 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, 2010.

| Date | Cumulative |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Count ${ }^{\text {a }}$ | Count | Percent |  |
| 22-Jul | Weir installed July 22 |  |  |  |
| 23-Jul |  | 0 | 0.0 |  |
| 24-Jul |  | 0 | 0.0 |  |
| 25-Jul |  | 0 | 0.0 |  |
| 26-Jul |  | 0 | 0.0 |  |
| 27-Jul |  | 0 | 0.0 |  |
| 28-Jul |  | 0 | 0.0 |  |
| 29-Jul |  | 0 | 0.0 |  |
| 30-Jul | 58 | 58 | 1.7 |  |
| 31-Jul | 47 | 105 | 3.1 |  |
| 1-Aug | 50 | 155 | 4.6 |  |
| 2-Aug | 250 | 405 | 12.1 |  |
| 3-Aug | 274 | 679 | 20.3 |  |
| 4-Aug | 730 | 1,409 | 42.1 |  |
| 5-Aug | 271 | 1,680 | 50.2 |  |
| 6-Aug | 83 | 1,763 | 52.7 |  |
| 7-Aug | 69 | 1,832 | 54.7 |  |
| 8-Aug | 54 | 1,886 | 56.3 |  |
| 9-Aug | 54 | 1,940 | 58.0 |  |
| 10-Aug | 134 | 2,074 | 62.0 |  |
| 11-Aug | 79 | 2,153 | 64.3 |  |
| 12-Aug | 15 | 2,168 | 64.8 |  |
| 13-Aug | 68 | 2,236 | 66.8 |  |
| 14-Aug | 55 | 2,291 | 68.4 |  |
| 15-Aug | 52 | 2,343 | 70.0 |  |
| 16-Aug | 19 | 2,362 | 70.6 |  |
| 17-Aug | 203 | 2,565 | 76.6 |  |
| 18-Aug | 144 | 2,709 | 80.9 |  |
| 19-Aug | 134 | 2,843 | 84.9 |  |
| 20-Aug | 67 | 2,910 | 86.9 |  |
| 21-Aug | 48 | 2,958 | 88.4 |  |
| 22-Aug | 98 | 3,056 | 91.3 |  |
| 23-Aug | 13 | 3,069 | 91.7 |  |
| 24-Aug | 53 | 3,122 | 93.3 |  |
| 25-Aug | 14 | 3,136 | 93.7 |  |
| 26-Aug | 41 | 3,177 | 94.9 |  |
| 27-Aug | 12 | 3,189 | 95.3 |  |
| 28-Aug | 12 | 3,201 | 95.6 |  |
| 29-Aug | 5 | 3,206 | 95.8 |  |
| 30-Aug | 35 | 3,241 | 96.8 |  |
| 31-Aug | 11 | 3,252 | 97.2 |  |
| 1-Sep | 11 | 3,263 | 97.5 |  |
| 2-Sep | 31 | 3,294 | 98.4 |  |
| 3-Sep | 32 | 3,326 | 99.4 |  |
| 4-Sep | 12 | 3,338 | 99.7 |  |
| 5-Sep | 7 | 3,345 | 99.9 |  |
| 6-Sep | 1 | 3,346 | 100.0 |  |
| 7-Sep | 0 | 3,346 | 100.0 |  |
| 8-Sep | 1 | 3,347 | 100.0 |  |
| 9-Sep | 0 | 3,347 | 100.0 |  |
| 10-Sep Weir removed |  |  |  |  |
|  |  | Total | Wild | TMR |
| Holding below weir |  | 40 |  |  |
| Escapement to lake |  | 3,347 |  |  |
| Outlet spawners |  | 100 |  |  |
| otoltih samples |  | 0 |  |  |
| Broodstock a |  | 0 |  |  |
| Spawners |  | 3,387 |  |  |

Appendix C. 13. Daily counts of adult sockeye salmon passing through the King Salmon Lake weir, 2010.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 4-Jul |  |  |  |
| 5-Jul |  | 0 | 0.0 |
| 6 -Jul |  | 0 | 0.0 |
| 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 | 0 | 0 | 0.0 |
| 12-Jul | 0 | 0 | 0.0 |
| 13-Jul | 0 | 0 | 0.0 |
| 14-Jul | 0 | 0 | 0.0 |
| 15-Jul | 144 | 144 | 4.8 |
| 16-Jul | 328 | 472 | 15.9 |
| 17-Jul | 92 | 564 | 18.9 |
| 18-Jul | 0 | 564 | 18.9 |
| 19-Jul | 56 | 620 | 20.8 |
| 20-Jul | 55 | 675 | 22.7 |
| 21-Jul | 5 | 680 | 22.8 |
| 22-Jul | 85 | 765 | 25.7 |
| 23-Jul | 56 | 821 | 27.6 |
| 24-Jul | 41 | 862 | 29.0 |
| 25-Jul | 164 | 1,026 | 34.5 |
| 26-Jul | 232 | 1,258 | 42.3 |
| 27-Jul | 50 | 1,308 | 43.9 |
| 28-Jul | 90 | 1,398 | 47.0 |
| 29-Jul | 143 | 1,541 | 51.8 |
| 30-Jul | 199 | 1,740 | 58.4 |
| 31-Jul | 160 | 1,900 | 63.8 |
| 1-Aug | 166 | 2,066 | 69.4 |
| 2-Aug | 19 | 2,085 | 70.0 |
| 3-Aug | 42 | 2,127 | 71.4 |
| 4-Aug | 159 | 2,286 | 76.8 |
| 5-Aug | 55 | 2,341 | 78.6 |
| 6-Aug | 51 | 2,392 | 80.3 |
| 7-Aug | 36 | 2,428 | 81.6 |
| 8-Aug | 21 | 2,449 | 82.3 |
| 9-Aug | 27 | 2,476 | 83.2 |
| 10-Aug | 40 | 2,516 | 84.5 |
| 11-Aug | 109 | 2,625 | 88.2 |
| 12-Aug | 22 | 2,647 | 88.9 |
| 13-Aug | 57 | 2,704 | 90.8 |
| 14-Aug | 15 | 2,719 | 91.3 |
| 15-Aug | 13 | 2,732 | 91.8 |
| 16-Aug | 8 | 2,740 | 92.0 |
| 17-Aug | 5 | 2,745 | 92.2 |
| 18-Aug | 177 | 2,922 | 98.2 |
| 19-Aug | 5 | 2,927 | 98.3 |
| 20-Aug | 1 | 2,928 | 98.4 |
| 21-Aug | 14 | 2,942 | 98.8 |
| 22-Aug | 0 | 2,942 | 98.8 |
| 23-Aug | 24 | 2,966 | 99.6 |
| 24-Aug | 11 | 2,977 | 100.0 |
| 25-Aug | 0 | 2,977 | 100.0 |
| 26-Aug | 0 | 2,977 | 100.0 |
| 27-Aug | 0 | 2,977 | 100.0 |
| 28-Aug | 0 | 2,977 | 100.0 |
| 29-Aug | 0 | 2,977 | 100.0 |
| 30-Aug | 0 | 2,977 | 100.0 |
| 31-Aug | 0 | 2,977 | 100.0 |
| 1-Sep | 0 | 2,977 | 100.0 |
| 2-Sep | 0 | 2,977 | 100.0 |
| 3-Sep | 0 | 2,977 | 100.0 |
| 4-Sep | 0 | 2,977 | 100.0 |
| 5-Sep | 0 | 2,977 | 100.0 |
| 6-Sep | 0 | 2,977 | 100.0 |
| 7-Sep | Weir removed |  |  |
| Total | 2,977 |  |  |

Appendix C. 14. Daily counts of adult sockeye salmon passing through the Kuthai Lake weir, 2010.

| Date | Cumulative |  |  |
| :---: | :---: | :---: | :---: |
|  | Count | Count | Percent |
| 3-Jul | 0 | 0 | 0.0 |
| 4-Jul | 0 | 0 | 0.0 |
| 5-Jul | 0 | 0 | 0.0 |
| 6-Jul | 0 | 0 | 0.0 |
| 7-Jul | 0 | 0 | 0.0 |
| 8-Jul | 5 | 5 | 0.3 |
| 9-Jul | 0 | 0 | 0.0 |
| 10-Jul | 15 | 15 | 0.9 |
| 11-Jul | 16 | 16 | 1.0 |
| 12-Jul | 1 | 1 | 0.1 |
| 13-Jul | 1 | 1 | 0.1 |
| 14-Jul | 45 | 46 | 2.8 |
| 15-Jul | 24 | 70 | 4.3 |
| 16-Jul | 2 | 72 | 4.4 |
| 17-Jul | 1 | 73 | 4.5 |
| 18-Jul | 58 | 131 | 8.1 |
| 19-Jul | 0 | 131 | 8.1 |
| 20-Jul | 122 | 253 | 15.6 |
| 21-Jul | 0 | 253 | 15.6 |
| 22-Jul | 0 | 253 | 15.6 |
| 23-Jul | 2 | 255 | 15.7 |
| 24-Jul | 0 | 255 | 15.7 |
| 25-Jul | 0 | 255 | 15.7 |
| 26-Jul | 37 | 292 | 18.0 |
| 27-Jul | 114 | 406 | 25.0 |
| 28-Jul | 39 | 445 | 27.4 |
| 29-Jul | 68 | 513 | 31.5 |
| 30-Jul | 79 | 592 | 36.4 |
| 31-Jul | 2 | 594 | 36.5 |
| 1-Aug | 31 | 625 | 38.4 |
| 2-Aug | 37 | 662 | 40.7 |
| 3-Aug | 42 | 704 | 43.3 |
| 4-Aug | 45 | 749 | 46.1 |
| 5-Aug | 51 | 800 | 49.2 |
| 6-Aug | 27 | 827 | 50.9 |
| 7-Aug | 6 | 833 | 51.2 |
| 8-Aug | 61 | 894 | 55.0 |
| 9-Aug | 6 | 900 | 55.4 |
| 10-Aug | 17 | 917 | 56.4 |
| 11-Aug | 4 | 921 | 56.6 |
| 12-Aug | 2 | 923 | 56.8 |
| 13-Aug | 41 | 964 | 59.3 |
| 14-Aug | 4 | 968 | 59.5 |
| 15-Aug | 17 | 985 | 60.6 |
| 16-Aug | 31 | 1,016 | 62.5 |
| 17-Aug | 33 | 1,049 | 64.5 |
| 18-Aug | 18 | 1,067 | 65.6 |
| 19-Aug | 2 | 1,069 | 65.7 |
| 20-Aug | 0 | 1,069 | 65.7 |
| 21-Aug | 0 | 1,069 | 65.7 |
| 22-Aug | 2 | 1,071 | 65.9 |
| 23-Aug | 0 | 1,071 | 65.9 |
| 24-Aug | 0 | 1,071 | 65.9 |
| 25-Aug | 13 | 1,084 | 66.7 |
| 26-Aug | 364 | 1,448 | 89.1 |
| 27-Aug | 88 | 1,536 | 94.5 |
| 28-Aug | 50 | 1,586 | 97.5 |
| 29-Aug | 0 | 1,586 | 97.5 |
| 30-Aug | 3 | 1,589 | 97.7 |
| 31-Aug Weir removed |  |  |  |
| Total co |  | 1,626 |  |
| Harvest | e weir | 0 |  |
| Escapem |  | 1,626 |  |
| 19-Sept Helicopter survey was 482 |  |  |  |

Appendix C. 15. Daily counts of large Chinook salmon carcasses at the Nakina River weir, 2010.

| Date | Count (all sizes) |  |  |  | Cumulative Count |  | Size (sex combined) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Female |  | Male Unknown | Combined | Count | Percent | Large | nonlarge | unknown |
| 2-Aug | 1 | 0 | 0 | 1 | 1 | 0.2 | 1 | 0 | 0 |
| 3-Aug | 0 | 2 | 0 | 2 | 3 | 0.7 | 1 | 1 | 0 |
| 4-Aug | 0 | 3 | 0 | 3 | 6 | 1.4 | 2 | 1 | 0 |
| 5-Aug | 0 | 4 | 0 | 4 | 10 | 2.4 | 3 | 1 | 0 |
| 6-Aug | 1 | 1 | 0 | 2 | 12 | 2.9 | 2 | 0 | 0 |
| 7-Aug | 1 | 10 | 0 | 11 | 23 | 5.5 | 6 | 2 | 3 |
| 8-Aug | 3 | 5 | 0 | 8 | 31 | 7.4 | 6 | 2 | 0 |
| 9-Aug | 5 | 21 | 0 | 26 | 57 | 13.6 | 10 | 14 | 2 |
| 10-Aug | 6 | 25 | 0 | 31 | 88 | 21.0 | 7 | 15 | 9 |
| 11-Aug | 8 | 43 | 0 | 51 | 139 | 33.1 | 9 | 33 | 9 |
| 12-Aug | 9 | 41 | 0 | 50 | 189 | 45.0 | 16 | 26 | 8 |
| 13-Aug | 6 | 46 | 0 | 52 | 241 | 57.4 | 13 | 34 | 5 |
| 14-Aug | 4 | 24 | 0 | 28 | 269 | 64.0 | 5 | 12 | 11 |
| 15-Aug | 7 | 21 | 0 | 28 | 297 | 70.7 | 6 | 10 | 12 |
| 16-Aug | 4 | 28 | 1 | 33 | 330 | 78.6 | 2 | 12 | 19 |
| 17-Aug | 2 | 18 | 0 | 20 | 350 | 83.3 | 3 | 6 | 11 |
| 18-Aug | 2 | 12 | 0 | 14 | 364 | 86.7 | 4 | 9 | 1 |
| 19-Aug | 3 | 16 | 0 | 19 | 383 | 91.2 | 8 | 9 | 2 |
| 20-Aug | 2 | 10 | 0 | 12 | 395 | 94.0 | 4 | 7 | 1 |
| 21-Aug | 0 | 3 | 0 | 3 | 398 | 94.8 | 1 | 2 | 0 |
| 22-Aug | 3 | 11 | 1 | 15 | 413 | 98.3 | 6 | 6 | 3 |
| 23-Aug | 0 | 7 | 0 | 7 | 420 | 100.0 | 0 | 2 | 5 |
| Total | 67 | 351 | 1 | 420 |  |  | 115 | 204 | 101 |

Appendix D. 1. All historic harvest and effort of salmon in the D111 gillnet fishery, 1960-2010.
These estimates include traditional and common proporty terminal harvest in D1:

| Year | Chinook | Sockeye | Coho | Pink | Chum | Boat DaysDays open |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1960 | 8,810 | 42,819 | 22,374 | 33,155 | 41,852 | 60 |

1962 | 5,931 | 36,745 | 15,661 | 17,280 | 20,635 | 52 |
| :--- | :--- | :--- | :--- | :--- | :--- |

| 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 |


| 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 |

$1979 \quad 3,701 \quad 122,148 \quad 16,194 \quad 152,836$

| 1980 | 2,251 | 123,451 | 41,677 | 296,622 | 192 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1981 | 1,721 | 49,942 | 26,711 | 254,856 | 76,4 |


| 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 |

$1985 \quad 2,632 \quad 88,093 \quad 55,518 \quad 311,305$

| 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 |
| :--- | :--- | :--- | :--- | :--- |


| 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 | 112,527 | 4,550 | 50 |


| 1992 | 2,341 | 135,411 | 172,662 | 314,445 | 112,527 | 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 |
| :--- | :--- | :--- | :--- |
| 1996 | 2,659 | 201,853 | 33,650 |

1997 2,805 143,009 32,364
$1998 \quad 794 \quad 101,702 \quad 28,713 \quad 168,738$

| 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 |

average

| $60-12$ | 4,145 | 109,312 | 42,374 | 109,911 | 170,340 | 3,011 | 48 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $03-12$ | 5,439 | 246,644 | 33,294 | 115,156 | 420,926 | 3,607 | 63 |

Appendix D. 2. Annual harvest estimates of Taku River large Chinook salmon in the D111 fisheries, 2005-2010.

| Estimates based on GSI for gillnet and sport; troll is CWT. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| For detailed GSI stock comp estimates see Appendix G. 3 and G4. |  |  |  |  |  |
| 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 |
| Avera |  |  |  |  |  |
| 05-10 | 29 | 1,373 | 6,221 | 7 | 7,629 |

Appendix D. 3. Annual Chinook Salmon harvest in the Canadian fisheries in the Taku River, 1979-2010.

| Year | Commerical |  | Aboriginal |  | Test |  |  | $\begin{gathered} \text { Rec } \\ \text { Large } \end{gathered}$ | Total All Large |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | nonlarge | Large | nonlarge | Large | nonlarg | 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 | There | was no C | Canadian | ho test fishery | 300 | 2,484 |
| 1995 | 1,577 | 298 | 70 | There | was no C | Canadian | ho test fishery | 105 | 1,752 |
| 1996 | 3,331 | 144 | 63 | There | was no C | Canadian | ho test fishery | 105 | 3,499 |
| 1997 | 2,731 | 84 | 103 |  |  |  |  | 105 | 2,939 |
| 1998 | 1,107 | 227 | 60 | There | was no C | Canadian | oho 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 85-10 | 2,052 | 278 | 88 | 92 |  |  |  | 183 | 2,756 |
| 00-09 | 3,189 | 430 | 154 | 92 | 1,011 | 181 |  | 105 | 4,460 |

## Appendix D. 4. Taku River large Chinook salmon run size, 1979-2010.

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 |  |  | $\begin{gathered} \text { Terminal } \\ \text { Run } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Spawning |  | Method |  |  | Canadian | Run | U.S. |  |
| Year | Escapement |  | Lower | Upper | Harvest ${ }^{\text {a }}$ | Estimate | Harvest |  |
| 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 |
| Averages |  |  |  |  |  |  |  |  |
| 95-09 | 44,579 |  |  |  | 3,713 | 48,292 | 5,516 | 53,808 |
| 00-09 | 39,310 |  |  |  | 4,460 | 43,770 | 5,525 | 49,294 |

${ }^{\text {a }}$ 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, 1975-2010.

| 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 |
| $1984{ }^{\text {at }}$ | 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 |
| Averages |  |  |  |  |  |  |  |
| 85-10 | 768 | 1,023 | 615 | 369 | 3,795 | 1,589 | 7,620 |
| 00-09 | 775 | 968 | 494 | 315 | 2,332 | 927 | 5,263 |

[^1]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, 1967-2010.

| Year | D111 gillnet harvest |  |  |  | PU Taku harvest |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { D111 } \\ \hline \end{gathered}$ | D11 without snet for stock comp |  |  | All Taku | Wild Taku | EnhancedTaku |
|  |  | harvest | Wild Taku 'nhancedTak |  |  |  |  |
| 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 |
| Averag |  |  |  |  |  |  |  |
| 95-09 | 142,878 | 132,128 | 91,051 | 2,879 | 1,089 | 1,058 | 31 |
| 00-09 | 159,694 | 143,980 | 91,199 | 3,093 | 1,065 | 1,033 | 32 |

# Appendix D. 7. Stock proportions and harvest of sockeye salmon in the traditional Alaska District 111 commercial drift gillnet fishery, 1983-2010. 

| Week | $\begin{array}{cc} & \text { King } \\ \text { Kuthai } & \text { Salmon }\end{array}$ |  | Mainstem | Little Trapper |  | Tatsamenie |  | Taku Wild | Total Taku | Snettisham Total Wild |  |  | U.S. <br> Enhanced | Stikine <br> Enhanced |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-09 | 0.073 |  | 0.327 | 0.183 | 0.003 | 0.147 | 0.019 | 0.740 | 0.754 | 0.054 | 0.053 | 0.107 | 0.209 |  |
| 00-09 | 0.069 | 0.017 | 0.306 | 0.123 | 0.000 | 0.111 | 0.022 | 0.620 | 0.642 | 0.028 | 0.051 | 0.079 | 0.277 | 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 | 0 | 150 | 9,597 | 760 | 44,837 | 45,747 | 1,940 | 7,422 | 9,362 | 6,759 | 79 |
| Average ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-09 | 8,931 |  | 39,653 | 22,484 |  | 18,217 |  | 89,197 | 90,996 | 4,929 | 5,883 | 10,813 | 27,911 |  |
| 00-09 | 11,159 | 2,268 | 41,312 | 20,038 | 28 | 17,247 | 3,065 | 91,199 | 94,292 | 3,175 | 6,425 | 9,600 | 39,928 |  |

Appendix D. 8. Proportion of wild Taku River sockeye salmon in the Alaskan District 111 commercial drift gillnet harvest by week, 1983-2010.

| Data based on scale patterns and incidence of brain parasites. Does not include enhanced fish. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week |  |  |  |  |  |  |  |  |  |  | Total |
| Year | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |  |
| 1983 |  | 0.996 | 0.842 | 0.819 | 0.663 | 0.527 | 0.836 | 0.534 | 0.719 | 0.759 | 0.755 |
| 1984 | 0.970 | 0.956 | 0.843 | 0.670 | 0.588 | 0.712 | 0.728 | 0.809 | 0.726 |  | 0.758 |
| 1985 | 0.999 | 0.986 | 0.928 | 0.974 | 0.868 | 0.706 | 0.737 | 0.826 | 0.801 |  | 0.838 |
| 1986 | 0.938 | 0.953 | 0.873 | 0.880 | 0.852 | 0.777 | 0.851 | 0.757 | 0.893 | 0.739 | 0.834 |
| 1987 |  | 0.982 | 0.901 | 0.884 | 0.948 | 0.414 | 0.619 | 0.689 | 0.841 | 0.731 | 0.720 |
| 1988 |  | 0.964 | 0.886 | 0.889 | 0.510 | 0.643 | 0.677 | 0.528 | 0.478 | 0.346 | 0.663 |
| 1989 | 0.943 | 0.989 | 0.979 | 0.852 | 0.835 | 0.641 | 0.681 | 0.919 | 0.676 |  | 0.848 |
| 1990 | 0.874 | 0.935 | 0.904 | 0.773 | 0.782 | 0.863 | 0.943 | 0.939 | 0.878 | 0.862 | 0.855 |
| 1991 | 0.988 | 0.979 | 0.953 | 0.979 | 0.951 | 0.933 | 0.936 | 0.890 | 0.885 | 0.875 | 0.941 |
| 1992 |  | 0.978 | 0.985 | 0.956 | 0.916 | 0.943 | 0.893 | 0.858 | 0.766 | 0.766 | 0.904 |
| 1993 |  | 0.961 | 0.901 | 0.837 | 0.856 | 0.781 | 0.790 | 0.829 | 0.738 | 0.706 | 0.822 |
| 1994 |  | 1.000 | 0.981 | 0.973 | 0.967 | 0.870 | 0.835 | 0.938 | 0.804 | 0.901 | 0.917 |
| 1995 | 0.942 | 0.889 | 0.903 | 0.858 | 0.872 | 0.868 | 0.761 | 0.759 | 0.705 | 0.740 | 0.841 |
| 1996 | 1.000 | 0.998 | 0.909 | 0.974 | 0.950 | 0.991 | 0.914 | 0.945 | 0.879 | 0.804 | 0.953 |
| 1997 | 0.992 | 0.970 | 0.910 | 0.926 | 0.951 | 0.939 | 0.939 | 0.925 | 0.872 | 0.906 | 0.938 |
| 1998 |  | 0.964 | 0.974 | 0.978 | 0.971 | 0.949 | 0.948 | 0.942 | 0.997 | 0.857 | 0.955 |
| 1999 |  | 0.966 | 0.988 | 0.953 | 0.934 | 0.917 | 0.878 | 0.833 | 0.732 | 0.665 | 0.917 |
| 2000 |  | 0.973 | 0.962 | 0.958 | 0.929 | 0.898 | 0.872 | 0.907 | 0.908 | 0.858 | 0.931 |
| 2001 | 0.995 | 0.998 | 0.948 | 0.888 | 0.908 | 0.930 | 0.961 | 0.945 | 0.858 | 0.858 | 0.936 |
| 2002 | 0.986 | 0.989 | 0.993 | 0.970 | 0.872 | 0.946 | 0.829 | 0.880 | 0.851 | 0.851 | 0.933 |
| 2003 | 1.000 | 0.987 | 0.961 | 0.994 | 0.970 | 0.929 | 0.883 | 0.795 | 0.236 | 0.236 | 0.931 |
| 2004 |  | 0.968 | 0.950 | 0.930 | 0.939 | 0.884 | 0.731 | 0.799 | 0.909 | 0.891 | 0.891 |
| 2005 | 0.973 | 0.973 | 0.953 | 0.947 | 0.932 | 0.924 | 0.881 | 0.885 | 0.786 | 0.767 | 0.905 |
| 2006 | 0.957 | 0.957 | 0.912 | 0.856 | 0.896 | 0.819 | 0.802 | 0.842 | 0.970 | 0.970 | 0.914 |
| 2007 | 1.000 | 0.992 | 0.934 | 0.807 | 0.716 | 0.821 | 0.879 | 0.824 | 0.812 | 0.786 | 0.925 |
| 2008 | 0.975 | 0.900 | 0.695 | 0.632 | 0.589 | 0.470 | 0.424 | 0.488 | 0.489 | 0.489 | 0.868 |
| 2009 | 0.902 | 0.902 | 0.715 | 0.683 | 0.552 | 0.542 | 0.528 | 0.416 | 0.382 | 0.382 | 0.566 |
| 2010 |  | 0.964 | 0.955 | 0.960 | 0.737 | 0.637 | 0.754 | 0.636 | 0.529 | 0.764 | 0.723 |
| Average |  |  |  |  |  |  |  |  |  |  |  |
| 83-09 |  | 0.967 | 0.916 | 0.886 | 0.838 | 0.796 | 0.804 | 0.798 | 0.754 | 0.740 | 0.857 |
| 00-09 |  | 0.964 | 0.902 | 0.867 | 0.830 | 0.816 | 0.779 | 0.778 | 0.720 | 0.709 | 0.880 |

Appendix D. 9. Annual sockeye salmon harvest estimates of wild and enhanced fish in the Canadian fisheries in the Taku River, 1979-2010.

| 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 86-09 | 24,328 |  | 191 |  |  | 23,852 | 187 |  |  |  |  |
| 00-09 | 24,937 |  | 162 | 227 | 118 | 24,155 | 156 | 220 | 782 | 6 | 7 |

Appendix D. 10. Annual sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery on the Taku River, 1986-2010.

| Data based on scale pattern, brain parasite, and thermal mark analy ses. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | King |  |  | Little Trapper |  | Tatsamenie |  | Taku |  | Stikine <br> Enhance | $\begin{gathered} \text { US } \\ \text { Enhance } \end{gathered}$ |
|  | Kuthai | Salmon | Mainstem | 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 |  | a | a |  | 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 | 0.000 | 0.014 | 0.167 | 0.017 | 0.968 | 0.031 | 0.002 | 0.000 |


| Averages |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 86-09 | 0.150 |  | 0.377 | 0.284 |  | 0.159 |  | 0.980 |  |  |
| 00-09 | 0.179 | 0.024 | 0.374 | 0.226 | 0.000 | 0.169 | 0.033 | 0.965 | 0.033 | 0.006 |
| 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 |


| Averages |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $86-09$ | 3,810 |  | 9,194 | 7,009 |  | 3,907 |  | 24,082 | 697 |
| $00-09$ | 4,697 | 535 | 9,007 | 5,759 | 0 | 4,319 | 754 | 24,155 | 754 |

[^2]Appendix D. 11. Annual sockeye salmon weir counts, escapements, and samples at the Tatsamenie weir, 1984-2010.

| Ototlith samples are a proportion of the broodstock samples. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weir <br> Count | Actual <br> Spawners | Spawning Escapement |  | Broodstock |  |  |  |  |  |
|  |  |  |  |  | otolith samples |  |  | broodstock taken |  |  |
| Year |  |  | wild | enhanced | wild | enhanced | All samples | wild | enhanced | Total |
| 1984 |  |  |  |  |  |  |  |  |  |  |
| $1985{ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |
| 1986 |  |  |  |  |  |  |  |  |  |  |
| $1987^{\text {a }}$ |  | 25 |  |  |  |  |  |  |  |  |
| 1988 |  |  |  |  |  |  |  |  |  |  |
| 1989 |  |  |  |  |  |  |  |  |  |  |
| 1990 |  |  |  |  |  |  |  |  |  |  |
| 1991 |  |  |  |  |  |  |  |  |  |  |
| 1992 |  |  |  |  |  |  |  |  |  |  |
| 1993 |  |  |  |  |  |  |  |  |  |  |
| 1994 |  |  |  |  |  |  |  |  |  |  |
| 1995 | 5,780 | 4,387 | 3,443 | 944 |  |  |  | 1,093 | 300 | 1,393 |
| 1996 | 10,381 | 8,026 | 7,682 | 344 |  |  |  | 2,254 | 101 | 2,355 |
| 1997 | 8,363 | 5,981 | 5,815 | 166 |  |  |  | 2,316 | 66 | 2,382 |
| 1998 | 5,997 | 4,735 | 4,628 | 107 | 389 | 9 | 398 | 1,233 | 29 | 1,262 |
| 1999 | 2,104 | 1,888 | 1,855 | 33 | 167 | 3 | 170 | 212 | 4 | 216 |
| 2000 | 7,575 | 5,570 | 4,835 | 735 | 342 | 52 | 394 | 1,740 | 265 | 2,005 |
| 2001 | 22,575 | 19,579 | 16,324 | 3,255 | 336 | 67 | 403 | 2,498 | 498 | 2,996 |
| 2002 | 5,495 | 4,379 | 3,854 | 525 | 345 | 47 | 392 | 982 | 134 | 1,116 |
| 2003 | 4,515 | 2,965 | 2,085 | 880 | 256 | 108 | 364 | 1,090 | 460 | 1,550 |
| 2004 | 1,951 | 1,357 | 860 | 497 | 220 | 127 | 347 | 377 | 217 | 594 |
| 2005 | 3,372 | 2,445 | 1,960 | 485 | 311 | 77 | 388 | 743 | 184 | 927 |
| 2006 | 22,475 | 19,820 | 17,623 | 2,197 | 369 | 46 | 415 | 2,361 | 294 | 2,655 |
| 2007 | 11,187 | 8,384 | 6,082 | 2,302 | 140 | 53 | 193 | 2,033 | 770 | 2,803 |
| 2008 | 8,976 | 6,176 | 3,309 | 2,867 | 210 | 182 | 392 | 1,500 | 1,300 | 2,800 |
| 2009 | 2,032 | 1,292 | 1,071 | 221 | 329 | 68 | 397 | 613 | 127 | 740 |
| 2010 | 3,513 | 2,113 | 1,688 | 425 | 318 | 80 | 398 | 1,119 | 281 | 1,400 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 00-09 | 9,015 | 7,197 | 5,800 | 1,396 | 286 | 83 | 369 | 1,394 | 425 | 1,819 |

[^3]Appendix D. 12. Annual sockeye salmon weir counts, escapements, and samples at the Little Trapper weir, 1983-2010.

| Broodstock estimate is based on commercial ratio with tats weir data |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | $\begin{gathered} \hline \text { Weir } \\ \text { Count } \end{gathered}$ | Actual <br> Spawners | Trapper spawning esc |  | Broodstock |  |  |
|  |  |  | wild | enhanced | Total | wild | enhanced |
| 1983 | 7,402 | 7,402 |  |  | 0 |  |  |
| 1984 | 13,084 | 13,084 |  |  | 0 |  |  |
| 1985 | 14,889 | 14,889 |  |  | 0 |  |  |
| 1986 | 13,820 | 13,820 |  |  | 0 |  |  |
| 1987 | 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 |  |  |  |
| Averages |  |  |  |  |  |  |  |
| 83-10 | 12,502 | 12,154 |  |  |  |  |  |
| 00-09 | 13,503 | 13,236 |  |  |  |  |  |

Appendix D. 13. Taku River sockeye salmon run size, 1984-2010.

| 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 sockey |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Above Border M-R |  |  | Expansion |  | Expanded |  | Escape. | U.S. <br> Harvest | Terminal Run | Total <br> Exploitation |
|  | Run | Start |  |  | Above Boarde | Canadian |  |  |  |  |
| Year | Estimate | Date | Method | Factor | Run Estimate | harvest |  |  |  |  |
| 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 | 36,380 | 119,477 | 40\% |
| 2010 | 103,257 | 19-May | FW CPUE | 0.053 | 109,028 | 20,661 | 88,367 | 46,767 | 155,795 | 43\% |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 84-09 | 125,022 | 30-May |  | 0.038 | 127,916 | 24,397 | 103,520 | 89,923 | 217,839 | 51\% |
| 00-09 | 134,528 | 16-May |  | 0.014 | 134,904 | 25,326 | 109,578 | 95,372 | 230,276 | 51\% |

Appendix D. 14. The terminal run reconstruction of Taku wild and enhanced sockeye salmon, 1984-2010.

| Year | Wild Total Run |  |  |  | Enhanced Total Run |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Canadian harvest | escapement | U.S. harvest | Terminal <br> Run | Canadian harvest | escapement | U.S. harvest | 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 | 96,099 | 108,499 | 226,072 |  |  |  |  |
| 1991 | 25,380 | 129,493 | 103,412 | 258,285 |  |  |  |  |
| 1992 | 29,862 | 137,514 | 122,438 | 289,814 |  |  |  |  |
| 1993 | 33,523 | 108,625 | 141,038 | 283,186 |  |  |  |  |
| 1994 | 29,001 | 102,579 | 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 | 640 | 1,003 | 943 | 2,587 |
| Averages |  |  |  |  |  |  |  |  |
| 84-09 | 23,951 | 102,659 | 88,082 | 214,692 |  |  |  |  |
| 00-09 | 24,531 | 107,756 | 92,232 | 224,519 | 795 | 1,821 | 3,125 | 5,742 |

Appendix D. 15. Annual sockeye salmon escapement estimates of Taku River and Port Snettisham sockeye salmon stocks, 1979-2010.

| Spawners equals escapement to the weir minus fish collected for brood stock. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Little Trapper |  | Little Tatsamenie |  | Tatsamenie |  | King Salmon Weir | Kuthai <br> Lake <br> Weir | Nahlin <br> River <br> Weir | Crescent Lake |  | Speel Lake |  |
| Year | Count | Escape. | Count | Escape. | Count | Escape. |  |  |  | Count | Escape. | Count | Escape. |
| 1980 |  |  |  |  |  |  |  | 1,658 |  |  |  |  |  |
| 1981 |  |  |  |  |  |  |  | 2,299 |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 | 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 | 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 | 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 |

Averages

| $83-09$ | 12,502 | 12,154 |  |  |  | 8,130 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $00-09$ | 13,503 | 13,236 | 9,015 | 7,197 | 1,529 | 3,302 | 935 |

Appendix D. 16. Historical Taku River coho salmon harvested in D111 terminal fisheries, 1992-2010.

| 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 |
| average |  |  |  |  |  |  |
| 00-09 | 20,264 |  | 4,578 |  | 96 | 24,938 |

Appendix D. 17. Historical coho salmon in the Canadian fisheries in the Taku River, 1987-2010.

| Year | Commercial |  |  | Aboriginal | Assesment/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 | $32 \quad 3,767$ |
| 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 | $0 \quad 1,012$ |
| 2009 | 2,379 | 3,270 | 5,649 | 154 | 3,963 |
| 2010 | 3,283 | 7,066 | 10,349 | 59 | 4,000 |
| Averages |  |  |  |  |  |
| 83-09 |  |  | 5,014 | 176 |  |
| 00-09 |  |  | 4,747 | 323 | 1,671 |

Appendix D. 18. Historic Taku River coho salmon terminal run size, 1987-2010.
The run estimates do not include spawningescapements below the U.S./Canada border. Estimates are expanded if mark-recapture activ terminate prior to run completion.

| Year | Above Border M-R |  | Expansion |  | Expanded <br> Estimate | Canadian Harvest | Escape. | $\begin{gathered} \text { U.S. } \\ \text { Harvest } \end{gathered}$ | Total <br> Terminal ¿xploitatio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run <br> Estimate | End <br> 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 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 87-09 | 92,238 | 274 |  | 1.12 | 101,120 | 6,756 | 94,364 | 32,903 | 140,912 | 0.280 |
| 00-09 | 129,967 | 281 |  | 1.00 | 129,967 | 6,742 | 123,226 | 24,938 | 154,905 | 0.211 |

Appendix D. 19. Escapement counts of Taku River coho salmon. Counts are for age-. 1 fish and do not include jacks, 1984-2010.

| Because of variability between methods, visibility, observers, and timing, these counts are not an index of run strength. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |  |  |

${ }^{a}$ 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, 1960-2010.

| Year | D111 |  | D111-32 |  | PU |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Boat <br> Days | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ | Boat <br> Days | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ |  |
| 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 | 2,724 | 50.00 | 2,357 | 50.00 | 120 |
| Averages |  |  |  |  |  |
| 60-10 | 3,011 | 48 | 2,256 | 45 |  |
| 00-09 | 3,607 | 62 | 2,624 | 57 | 126 |

Appendix D. 21. Historical effort in the Canadian commercial fishery in the Taku River, 1979-2010.

|  | 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 |
| Averages |  |  |
| $79-09$ | 334 | 41 |
| $00-09$ | 368 | 53 |
|  |  |  |
|  |  |  |

Appendix D. 22. Canyon Island fish wheel salmon counts and periods of operation on the Taku River, 1984-2010.

| Year | Period of Operation | Catch |  |  |  |  |  |  | Steelhead |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Pink |  |  |  |
|  |  | Chinook | Sockeye | Coho | Pink | Chum | even year | odd year |  |
| 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-09 |  | 999 | 5,343 | 2,358 | 15,109 | 482 | 13,363 | 16,853 | 76 |
| 00-09 |  | 1,111 | 5,428 | 2,586 | 10,920 | 335 | 9,419 | 12,419 | 85 |

Appendix E. 1. Weekly salmon harvest and effort in the lower Alsek River fisheries, 2010.

|  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Chinook | Sockeye | Coho | Pink | Chum | Boats | Days Open | Boat Days |


| No Test fishery in 2010 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commercial Fishery |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  | 0.0 |
| 24 | 133 | 690 | 0 | 0 | 0 | 15 | 1.0 | 15.0 |
| 25 | 79 | 753 | 0 | 0 | 0 | 13 | 1.0 | 13.0 |
| 26 | 48 | 1,103 | 0 | 0 | 0 | 14 | 1.0 | 14.0 |
| 27 | 7 | 1,303 | 0 | 0 | 0 | 13 | 1.0 | 13.0 |
| 28 | 4 | 1,696 | 0 | 0 | 0 | 13 | 1.0 | 13.0 |
| 29 | 0 | 2,269 | 0 | 0 | 0 | 12 | 1.0 | 12.0 |
| 30 | 0 | 1,522 | 0 | 0 | 1 | 12 | 1.0 | 12.0 |
| 31 | 0 | 2,336 | 0 | 0 | 2 | 12 | 1.0 | 12.0 |
| 32 | 0 | 735 | 1 | 0 | 0 | 11 | 1.0 | 11.0 |
| 33 | 2 | 147 | 1 | 0 | 0 | 5 | 1.0 | 5.0 |
| 34 | 0 | 64 | 31 | 0 | 0 | 4 | 3.0 | 12.0 |
| 35 | 0 | 41 | 246 | 0 | 2 | 3 | 3.0 | 9.0 |
| 36 | 0 | 9 | 255 | 0 | 0 | 2 | 3.0 | 6.0 |
| 37 | 0 | 0 | 305 | 0 | 0 | 4 | 3.0 | 12.0 |
| 38 | 0 | 0 | 308 | 0 | 0 | 3 | 3.0 | 9.0 |
| 39 | 0 | 0 | 397 | 0 | 0 | 4 | 3.0 | 12.0 |
| 40 | 0 | 0 | 340 | 0 | 4 | 4 | 3.0 | 12.0 |
| 41 |  |  |  |  |  | 0 | 2.0 | 0.0 |
| 42 |  |  |  |  |  | 0 | 4.0 | 0.0 |
| Total | 273 | 12,668 | 1,884 | 0 | 9 |  | 37.0 | 192.0 |

Appendix E. 2. Weekly salmon harvest and effort in the Canadian Aboriginal and sport fisheries in the Alsek River, 2010.

| Aboriginal includes estimates of sport catch (kept and released) in Takhanne and Blanchard rivers; estimates based on salmon catch card information. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SW | Chinook |  |  | Total harvest | Sockeye |  |  | Total harvest | Coho |  |  |  |
|  | Recreational |  | Aboriginal |  | Recreational |  | Aboriginal |  | Recreational |  | Aboriginal $\begin{gathered}\text { Total } \\ \text { harvest }\end{gathered}$ |  |
|  | Kept | Released |  |  | Kept | Released |  |  | Kept | Released |  |  |
| 24 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 25 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 26 | 0 | 0 |  |  | 0 | 7 |  |  | 0 | 0 |  |  |
| 27 | 2 | 2 |  |  | 0 | 33 |  |  | 0 | 0 |  |  |
| 28 | 15 | 3 | Weekly |  | 0 | 40 | Weekly |  | 0 |  | Weekly |  |
| 29 | 50 | 55 | Data |  | 0 | 25 | Data |  | 0 |  | Data |  |
| 30 | 22 | 78 | Not |  | 0 | 2 | Not |  | 0 |  | Not |  |
| 31 | 7 | 62 | Available |  | 0 | 0 | Available |  | 0 |  | Available |  |
| 32 | 2 | 0 |  |  | 2 | 0 |  |  | 0 | 0 |  |  |
| 33 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 34 | 0 | 0 |  |  | 3 | 0 |  |  | 0 | 0 |  |  |
| 35 | 0 | 0 |  |  | 5 | 0 |  |  | 0 | 0 |  |  |
| 36 | 0 | 0 |  |  | 2 | 0 |  |  | 0 | 0 |  |  |
| 37 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 38 | 0 | 0 |  |  | 0 | 2 |  |  | 0 | 8 |  |  |
| 39 | 0 | 0 |  |  | 0 | 0 |  |  | 3 | 0 |  |  |
| 40 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 41 | 0 | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  |
| 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 | 97 | 200 | 197 | 294 | 12 | 108 | 1,704 | 1,716 | 3 | 8 | 4 | 7 |
| Village Creek food fish |  |  | NA |  |  |  | NA |  |  |  | NA |  |
| Harvest at Klukshu River Weir |  |  | 0 |  |  |  | 91 |  |  |  | 4 |  |
| Food fish above Klukshu Weir |  |  | 99 |  |  |  | 323 |  |  |  | 0 |  |

Appendix E. 3. Daily counts of salmon passing through Klukshu River weir, 2010.

| 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 | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 16-Jun | 1 | 1 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 17-Jun | 0 | 1 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 18-Jun | 0 | 1 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 19-Jun | 1 | 2 | 0.001 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 20-Jun | 3 | 5 | 0.002 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 21-Jun | 0 | 5 | 0.002 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 22-Jun | 0 | 5 | 0.002 | 1 | 1 | 0.000 | 0 | 0 | 0.000 |
| 23-Jun | 0 | 5 | 0.002 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 24-Jun | 0 | 5 | 0.002 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 25-Jun | 1 | 6 | 0.003 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 26-Jun | 0 | 6 | 0.003 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 27-Jun | 1 | 7 | 0.003 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 28-Jun | 0 | 7 | 0.003 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 29-Jun | 3 | 10 | 0.004 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 30-Jun | 2 | 12 | 0.005 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 1-Jul | 2 | 14 | 0.006 | 5 | 6 | 0.000 | 0 | 0 | 0.000 |
| 2-Jul | 7 | 21 | 0.009 | 6 | 12 | 0.001 | 0 | 0 | 0.000 |
| 3-Jul | 1 | 22 | 0.009 | 2 | 14 | 0.001 | 0 | 0 | 0.000 |
| 4-Jul | 2 | 24 | 0.010 | 4 | 18 | 0.001 | 0 | 0 | 0.000 |
| 5-Jul | 4 | 28 | 0.012 | 1 | 19 | 0.001 | 0 | 0 | 0.000 |
| 6-Jul | 1 | 29 | 0.012 | 1 | 20 | 0.001 | 0 | 0 | 0.000 |
| 7-Jul | 5 | 34 | 0.014 | 3 | 23 | 0.001 | 0 | 0 | 0.000 |
| 8-Jul | 8 | 42 | 0.018 | 19 | 42 | 0.002 | 0 | 0 | 0.000 |
| 9-Jul | 30 | 72 | 0.031 | 17 | 59 | 0.003 | 0 | 0 | 0.000 |
| 10-Jul | 7 | 79 | 0.034 | 5 | 64 | 0.003 | 0 | 0 | 0.000 |
| 11-Jul | 3 | 82 | 0.035 | 39 | 103 | 0.005 | 0 | 0 | 0.000 |
| 12-Jul | 8 | 90 | 0.038 | 4 | 107 | 0.006 | 0 | 0 | 0.000 |
| 13-Jul | 19 | 109 | 0.046 | 1 | 108 | 0.006 | 0 | 0 | 0.000 |
| 14-Jul | 31 | 140 | 0.059 | 22 | 130 | 0.007 | 0 | 0 | 0.000 |
| 15-Jul | 100 | 240 | 0.102 | 107 | 237 | 0.013 | 0 | 0 | 0.000 |
| 16-Jul | 183 | 423 | 0.180 | 232 | 469 | 0.025 | 0 | 0 | 0.000 |
| 17-Jul | 120 | 543 | 0.230 | 44 | 513 | 0.027 | 0 | 0 | 0.000 |
| 18-Jul | 221 | 764 | 0.324 | 46 | 559 | 0.029 | 0 | 0 | 0.000 |
| 19-Jul | 103 | 867 | 0.368 | 236 | 795 | 0.042 | 0 | 0 | 0.000 |
| 20-Jul | 224 | 1,091 | 0.463 | 18 | 813 | 0.043 | 0 | 0 | 0.000 |
| 21-Jul | 57 | 1,148 | 0.487 | 35 | 848 | 0.045 | 0 | 0 | 0.000 |
| 22-Jul | 104 | 1,252 | 0.531 | 16 | 864 | 0.046 | 0 | 0 | 0.000 |
| 23-Jul | 208 | 1,460 | 0.620 | 23 | 887 | 0.047 | 0 | 0 | 0.000 |
| 24-Jul | 23 | 1,483 | 0.629 | 21 | 908 | 0.048 | 0 | 0 | 0.000 |
| 25-Jul | 90 | 1,573 | 0.668 | 15 | 923 | 0.049 | 0 | 0 | 0.000 |
| 26-Jul | 123 | 1,696 | 0.720 | 36 | 959 | 0.051 | 0 | 0 | 0.000 |
| 27-Jul | 113 | 1,809 | 0.768 | 64 | 1,023 | 0.054 | 0 | 0 | 0.000 |
| 28-Jul | 149 | 1,958 | 0.831 | 301 | 1,324 | 0.070 | 0 | 0 | 0.000 |
| 29-Jul | 60 | 2,018 | 0.857 | 22 | 1,346 | 0.071 | 0 | 0 | 0.000 |
| 30-Jul | 36 | 2,054 | 0.872 | 61 | 1,407 | 0.074 | 0 | 0 | 0.000 |
| 31-Jul | 98 | 2,152 | 0.913 | 9 | 1,416 | 0.075 | 0 | 0 | 0.000 |
| 1-Aug | 26 | 2,178 | 0.924 | 9 | 1,425 | 0.075 | 0 | 0 | 0.000 |
| 2-Aug | 41 | 2,219 | 0.942 | 519 | 1,944 | 0.103 | 0 | 0 | 0.000 |
| 3-Aug | 38 | 2,257 | 0.958 | 72 | 2,016 | 0.106 | 0 | 0 | 0.000 |
| 4-Aug | 20 | 2,277 | 0.966 | 434 | 2,450 | 0.129 | 0 | 0 | 0.000 |
|  |  |  |  |  |  | ontin |  |  |  |

Appendix E.3. Page 2 of 2.

| Date | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily | Cumulative |  | Daily | Cumulative |  | Daily | Cumulative |  |
|  |  | Daily | Prop. |  | Daily | Prop. |  | Daily | Prop. |
| 5-Aug | 8 | 2,285 | 0.970 | 107 | 2,557 | 0.135 | 0 | 0 | 0.000 |
| 6-Aug | 20 | 2,305 | 0.978 | 376 | 2,933 | 0.155 | 0 | 0 | 0.000 |
| 7-Aug | 11 | 2,316 | 0.983 | 117 | 3,050 | 0.161 | 0 | 0 | 0.000 |
| 8-Aug | 6 | 2,322 | 0.986 | 18 | 3,068 | 0.162 | 0 | 0 | 0.000 |
| 9-Aug | 5 | 2,327 | 0.988 | 11 | 3,079 | 0.162 | 0 | 0 | 0.000 |
| 10-Aug | 2 | 2,329 | 0.989 | 57 | 3,136 | 0.165 | 0 | 0 | 0.000 |
| 11-Aug | 3 | 2,332 | 0.990 | 177 | 3,313 | 0.175 | 0 | 0 | 0.000 |
| 12-Aug | 5 | 2,337 | 0.992 | 317 | 3,630 | 0.191 | 0 | 0 | 0.000 |
| 13-Aug | 1 | 2,338 | 0.992 | 760 | 4,390 | 0.232 | 0 | 0 | 0.000 |
| 14-Aug | 6 | 2,344 | 0.995 | 599 | 4,989 | 0.263 | 0 | 0 | 0.000 |
| 15-Aug | 1 | 2,345 | 0.995 | 84 | 5,073 | 0.268 | 0 | 0 | 0.000 |
| 16-Aug | 1 | 2,346 | 0.996 | 99 | 5,172 | 0.273 | 0 | 0 | 0.000 |
| 17-Aug | 4 | 2,350 | 0.997 | 820 | 5,992 | 0.316 | 0 | 0 | 0.000 |
| 18-Aug | 0 | 2,350 | 0.997 | 60 | 6,052 | 0.319 | 0 | 0 | 0.000 |
| 19-Aug | 2 | 2,352 | 0.998 | 173 | 6,225 | 0.328 | 0 | 0 | 0.000 |
| 20-Aug | 1 | 2,353 | 0.999 | 274 | 6,499 | 0.343 | 0 | 0 | 0.000 |
| 21-Aug | 0 | 2,353 | 0.999 | 197 | 6,696 | 0.353 | 0 | 0 | 0.000 |
| 22-Aug | 0 | 2,353 | 0.999 | 60 | 6,756 | 0.356 | 0 | 0 | 0.000 |
| 23-Aug | 1 | 2,354 | 0.999 | 93 | 6,849 | 0.361 | 0 | 0 | 0.000 |
| 24-Aug | 0 | 2,354 | 0.999 | 651 | 7,500 | 0.396 | 0 | 0 | 0.000 |
| 25-Aug | 1 | 2,355 | 1.000 | 480 | 7,980 | 0.421 | 0 | 0 | 0.000 |
| 26-Aug | 1 | 2,356 | 1.000 | 924 | 8,904 | 0.470 | 0 | 0 | 0.000 |
| 27-Aug | 0 | 2,356 | 1.000 | 1,198 | 10,102 | 0.533 | 0 | 0 | 0.000 |
| 28-Aug | 0 | 2,356 | 1.000 | 224 | 10,326 | 0.545 | 0 | 0 | 0.000 |
| 29-Aug | 0 | 2,356 | 1.000 | 1,197 | 11,523 | 0.608 | 0 | 0 | 0.000 |
| 30-Aug | 0 | 2,356 | 1.000 | 986 | 12,509 | 0.660 | 0 | 0 | 0.000 |
| 31-Aug | 0 | 2,356 | 1.000 | 914 | 13,423 | 0.708 | 0 | 0 | 0.000 |
| 1-Sep | 0 | 2,356 | 1.000 | 1,097 | 14,520 | 0.766 | 0 | 0 | 0.000 |
| 2-Sep | 0 | 2,356 | 1.000 | 765 | 15,285 | 0.806 | 0 | 0 | 0.000 |
| 3-Sep | 0 | 2,356 | 1.000 | 912 | 16,197 | 0.854 | 0 | 0 | 0.000 |
| 4-Sep | 0 | 2,356 | 1.000 | 465 | 16,662 | 0.879 | 0 | 0 | 0.000 |
| 5-Sep | 0 | 2,356 | 1.000 | 312 | 16,974 | 0.895 | 0 | 0 | 0.000 |
| 6-Sep | 0 | 2,356 | 1.000 | 331 | 17,305 | 0.913 | 0 | 0 | 0.000 |
| 7-Sep | 0 | 2,356 | 1.000 | 79 | 17,384 | 0.917 | 0 | 0 | 0.000 |
| 8-Sep | 0 | 2,356 | 1.000 | 273 | 17,657 | 0.931 | 0 | 0 | 0.000 |
| 9-Sep | 0 | 2,356 | 1.000 | 194 | 17,851 | 0.942 | 0 | 0 | 0.000 |
| 10-Sep | 0 | 2,356 | 1.000 | 11 | 17,862 | 0.942 | 0 | 0 | 0.000 |
| 11-Sep | 0 | 2,356 | 1.000 | 49 | 17,911 | 0.945 | 0 | 0 | 0.000 |
| 12-Sep | 0 | 2,356 | 1.000 | 21 | 17,932 | 0.946 | 0 | 0 | 0.000 |
| 13-Sep | 0 | 2,356 | 1.000 | 7 | 17,939 | 0.946 | 1 | 1 | 0.000 |
| 14-Sep | 0 | 2,356 | 1.000 | 79 | 18,018 | 0.950 | 0 | 1 | 0.000 |
| 15-Sep | 0 | 2,356 | 1.000 | 129 | 18,147 | 0.957 | 1 | 2 | 0.001 |
| 16-Sep | 0 | 2,356 | 1.000 | 472 | 18,619 | 0.982 | 2 | 4 | 0.002 |
| 17-Sep | 0 | 2,356 | 1.000 | 52 | 18,671 | 0.985 | 1 | 5 | 0.002 |
| 18-Sep | 0 | 2,356 | 1.000 | 35 | 18,706 | 0.987 | 1 | 6 | 0.003 |
| 19-Sep | 0 | 2,356 | 1.000 | 1 | 18,707 | 0.987 | 1 | 7 | 0.003 |
| 20-Sep | 0 | 2,356 | 1.000 | 1 | 18,708 | 0.987 | 0 | 7 | 0.003 |
| 21-Sep | 0 | 2,356 | 1.000 | 5 | 18,713 | 0.987 | 0 | 7 | 0.003 |
| 22-Sep | 0 | 2,356 | 1.000 | 2 | 18,715 | 0.987 | 0 | 7 | 0.003 |
| 23-Sep | 0 | 2,356 | 1.000 | 7 | 18,722 | 0.987 | 1 | 8 | 0.003 |
| 24-Sep | 0 | 2,356 | 1.000 | 1 | 18,723 | 0.988 | 0 | 8 | 0.003 |
| 25-Sep | 0 | 2,356 | 1.000 | 5 | 18,728 | 0.988 | 0 | 8 | 0.003 |
| 26-Sep | 0 | 2,356 | 1.000 | 12 | 18,740 | 0.988 | 0 | 8 | 0.003 |
| 27-Sep | 0 | 2,356 | 1.000 | 29 | 18,769 | 0.990 | 1 | 9 | 0.004 |
| 28-Sep | 0 | 2,356 | 1.000 | 11 | 18,780 | 0.991 | 0 | 9 | 0.004 |
| 29-Sep | 0 | 2,356 | 1.000 | 27 | 18,807 | 0.992 | 161 | 170 | 0.072 |
| 30-Sep | 0 | 2,356 | 1.000 | 35 | 18,842 | 0.994 | 390 | 560 | 0.237 |
| 1-Oct | 0 | 2,356 | 1.000 | 58 | 18,900 | 0.997 | 420 | 980 | 0.414 |
| 2-Oct | 0 | 2,356 | 1.000 | 8 | 18,908 | 0.997 | 344 | 1,324 | 0.560 |
| 3-Oct | 0 | 2,356 | 1.000 | 8 | 18,916 | 0.998 | 158 | 1,482 | 0.627 |
| 4-Oct | 0 | 2,356 | 1.000 | 9 | 18,925 | 0.998 | 258 | 1,740 | 0.736 |
| 5-Oct | 0 | 2,356 | 1.000 | 9 | 18,934 | 0.999 | 236 | 1,976 | 0.836 |
| 6-Oct | 0 | 2,356 | 1.000 | 20 | 18,954 | 1.000 | 309 | 2,285 | 0.966 |
| 7-Oct | 0 | 2,356 | 1.000 | 6 | 18,960 | 1.000 | 80 | 2,365 | 1.000 |
| Total Count |  | 2,356 |  |  | 18,960 |  |  | 2,365 |  |
| Adjustments |  | 0 |  |  | 0 |  |  | 0 |  |
| Harvest at weir |  | 0 |  |  | 91 |  |  | 4 |  |
| Harvest above weir |  | 99 |  |  | 323 |  |  | 0 |  |
| Total Escapement |  | 2,257 |  |  | 18,546 |  |  | 2,361 |  |

Appendix E. 4. Salmon harvest and effort in the U.S. Commercial fishery in the Alsek River, 1960 to 2010.

| 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 |
| Averages |  |  |  |  |  |  |  |
| 61-09 | 738 | 20,020 | 5,597 | 36 | 298 | 540 | 51 |
| 00-09 | 546 | 15,109 | 2,821 | 2 | 17 | 236 | 51 |

Appendix E. 5. Salmon harvest in the U.S. Chinook salmon test fishery in the Alsek River, 2005-2010.

| Year | Chinook | Sockeye |
| :---: | :---: | :---: |
| 2005 | 423 | 222 |
| 2006 | 135 | 224 |
| 2007 | 347 | 367 |
| 2008 | 465 | 55 |
| 2010 | no test fishery |  |

Appendix E. 6. Salmon harvest in the U.S. subsistence and personal use fisheries in the Alsek River, 1976-2010.

| 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 |
| Averages |  |  |  |
| $76-09$ | 43 | 136 | 32 |
| $00-09$ | 48 | 193 | 32 |
|  |  |  |  |

Appendix E. 7. Salmon catches in the Canadian Aboriginal and recreational fisheries in the Alsek River, 1976 to 2010.

| Year | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aboriginal | Recreational | Total | Aboriginal | 1 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 |
| Averages |  |  |  |  |  |  |  |  |  |
| 76-09 | 223 | 258 | 482 | 2,300 | 298 | 2,597 | 11 | 106 | 118 |
| 00-09 | 70 | 76 | 146 | 1,267 | 40 | 1,307 | 11 | 76 | 87 |

## Appendix E. 8. Annual Klukshu River weir counts of Chinook, sockeye, and coho salmon, 1976 to 2010.

The escapement count equals the weir count minus the aboriginal fishery harvest above the weir and brood stock take) The remainder of the food fishery harvest occurred below the weir, at Village Creek, and Blanchard and Takhanne Rive, 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 |
| Averages |  |  |  |  |  |  |  |  |
| 76-09 | 2,267 | 2,081 | 2,905 | 13,126 | 16,031 | 14,078 | 1,878 |  |
| 00-09 | 1,404 | 1,349 | 2,485 | 10,067 | 12,552 | 11,682 | 2,604 | 2,595 |

Appendix E. 9. Alsek River sockeye salmon escapement 2000 to 2010.
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 | 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\% |
| ---- |  |  |  |  |  |  |  |  |
| Averages |  |  |  |  |  |  |  |  |
| 00-06 | 65,487 | 39,929 | 91,045 | 1,574 | 63,913 | 16,744 | 82,231 | 0 |

Appendix E. 10. Alsek River sockeye salmon counts from U.S. and Canadian aerial surveys and from the electronic counter at Village Creek, 1985-2010.
Surveys not made every year at each tributary. Canaidan surveys-include several streams from Lo-Fog to Goat Creek. Village Creek counter 1986-2013 conductivity counter, 2014 video counter

| Year | U.S. Aerial Surveys |  |  |  | Canada Aerial Surveys |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Basin Creek | Cabin 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 | lown |  |  |  |  | 2,765 |
| 2003 | No survey | lown |  |  |  |  | 2,778 |
| 2004 | No survey | lown |  |  |  |  | 1,968 |
| 2005 | No survey | lown |  |  |  |  | 1,408 |
| 2006 | No survey | lown |  |  |  |  | 979 |
| 2007 | No survey | lown |  |  |  |  | 10,254 |
| $2008{ }^{\text {a }}$ | No survey | lown |  |  |  | 1,000 | NA |
| 2009 | No survey | lown |  |  |  | 4,500 | 887 |
| 2010 | No survey | lown |  |  |  | 2,500 | 2,305 |
| Averages |  |  |  |  |  |  |  |
| 86-09 |  |  |  |  |  |  | 2,989 |
| 00-09 |  |  |  |  |  |  | 2,755 |

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

Appendix E. 11. Aerial survey index counts of Alsek River Chinook salmon escapements, 1984 to 2010.

| Year | Blanchard <br> River | Takhanne <br> 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 |  |  |
| a Not sur |  |  |  |

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

Appendix E. 12. 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 | $\begin{gathered} \text { Inriver Run } \\ \text { Past } \\ \text { Dry Bay } \\ \hline \end{gathered}$ | 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 |

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. 13. Alsek River Chinook salmon escapement, 2007.
Estimates was based on GSI analysis and the expansion of the Klukshu River weir count.

| Year | Inriver Run Estimate | $\begin{gathered} \hline \text { CI } \\ \text { Lower } \\ \hline \end{gathered}$ | Upper | Canadian Harvest | Spawning Escapement | U.S. <br> Harvest | Total <br> Run | Percent Klukshu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2007 | 1,770 | 1,373 | 2,166 | 41 | 1,729 | 826 | 2,596 | 40.6\% |

Appendix E. 14. 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 |
| $1993^{\text {a }}$ | 800 |
| $1994^{\text {a }}$ | 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 |

${ }^{\mathrm{a}}$ Few systems surveyed.
Appendix F. 1. Tahltan Lake egg collection, fry plants, and survivals, 1989-2010.
Number 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 |  | Designatec Tahltan | Fry <br> Planted | Percent <br> Fertilized | Survival |  | Thermal <br> Mark <br> Pattern |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Fertilized Egg to Fry |  |  | Green Egg to Fry |  |
|  | Target | Collected |  |  |  |  |  |
| 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 | 1:1.5+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 | 2.313 | 0.923 | 0.791 | 0.730 | 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 | 3.505 | 2.773 | 2.228 | 0.901 | 0.892 | 0.803 | 2:1.6 |
| 2000 | 6.000 | 2.388 | 2.388 | 1.873 | 0.920 | 0.853 | 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 | 1.019 | 0.944 | 1:1.7 |
| 2003 | 6.000 | 5.391 | 2.661 | 2.226 | 0.899 | 0.931 | 0.837 | 1:1.6 \& 1:1.5+2.6 |
| 2004 | 6.000 | 5.701 | 1.966 | 1.266 | 0.803 | 0.802 | 0.644 | 1:1.6+2.6 |
| 2005 | 6.000 | 4.552 | 1.809 | 1.280 | 0.800 | 0.884 | 0.708 | 1:1.4+2.2 |
| 2006 | 6.000 | 4.360 | 2.954 | 2.466 | 0.910 | 0.917 | 0.835 | 1:1.3n,2.2 |
| 2007 | 6.000 | 4.061 | 2.209 | 1.540 | 0.756 | 0.922 | 0.697 | 1,2n,3 |
| 2008 | 6.000 | 3.159 | 1.895 | 1.395 | 0.848 | 0.868 | 0.736 | 1,4H |
| 2009 | 6.000 | 4.469 | 2.609 | 1.826 | 0.774 | 0.906 | 0.701 | 5,2H |
| 2010 | 6.000 | 6.000 | 3.097 |  |  |  |  |  |
| Averages |  |  |  |  |  |  |  |  |
| 89-09 | 5.733 | 4.427 | 2.488 | 1.878 | 0.866 | 0.895 | 0.769 |  |
| 00-09 | 6.000 | 4.167 | 2.508 | 1.899 | 0.847 | 0.920 | 0.760 |  |

Appendix F. 2. Tuya Lake fry plants and survivals, 1991-2010.

| Numbers for eggs and fry are millions |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Egg Take Designated |  |  | Survival |  | Thermal |
|  |  | Fry | Percent | Fertilized | Green | Mark |
| Brood Year | Tuya | Planted | Fertilized | Egg to Fry | Egg to Fry | Pattern |
| 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+2.5N |
| 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 | 2.614 | 0.932 | 0.868 | 0.809 | 1:1.4 |
| 1997 | 0.521 | 0.433 | 0.911 | 0.912 | 0.831 | 2:1.4 |
| 1998 | 2.024 | 1.603 | 0.917 | 0.864 | 0.792 | 1:1.4 |
| 1999 | 1.053 | 0.867 | 0.960 | 0.858 | 0.823 | 2:1.4 |
| $2000^{\text {a }}$ | 0.000 | 0.000 |  |  |  |  |
| $2001{ }^{\text {a }}$ | 0.000 | 0.000 |  |  |  |  |
| 2002 | 1.271 | 1.124 | 0.904 | 0.978 | 0.884 | 1:1.7+2.3 |
| 2003 | 2.730 | 2.445 | 0.927 | 0.966 | 0.896 | 1:1.4 |
| 2004 | 3.734 | 3.201 | 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 | 2,1,3 |
| 2008 | 0.988 | 0.832 | 0.854 | 0.986 | 0.842 | 6H |
| 2009 | 1.860 | 0.977 | 0.794 | 0.661 | 0.525 | 3,4H |
| 2010 | 2.852 |  |  |  |  |  |
| Averages |  |  |  |  |  |  |
| 91-09 | 2.143 | 1.686 | 0.897 | 0.880 | 0.788 |  |
| 00-09 | 1.659 | 1.346 | 0.885 | 0.912 | 0.807 |  |

Appendix F. 3. Tatsamenie Lake egg collection, fry plants, and survivals, 1989-2010

| Brood Year |  |  |  | Survival ${ }^{\text {b }}$ |  |  |  | Thermal Mark Pattern | LastDateReleased |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Egg Take |  |  | Fry | Percent | Fertilized |  |  |  |
|  | Target Collected ${ }^{\text {a }}$ Transport |  |  | Planted | Fertilized Egg to Fry $\ddagger$ gg to Fry |  |  |  |  |
| 1990 | 2.500 | 0.985 | 0.985 | 0.673 | 0.775 | 0.882 | 0.683 | 1:1.3 | 22-Jun |
| 1991 | 1.500 | 1.360 | 1.360 | 1.232 | 0.927 | 0.977 | 0.906 | 2:1.4 | 26-Jun |
| 1992 | 1.750 | 1.486 | 1.486 | 0.909 | 0.858 | 0.713 | 0.612 | 1:1.5 | 14-Jul |
| 1993 | 2.500 | 1.144 | 1.144 | 0.521 | 0.619 | 0.735 | 0.455 | 2:1.5 | 14-Jul |
| 1994 | 2.500 | 1.229 | 1.229 | 0.898 | 0.801 | 0.912 | 0.731 | 1:1.5 | 21-Jul |
| 1995 | 2.500 | 2.407 | 2.407 | 1.724 | 0.843 | 0.850 | 0.716 | 1:1.5 | 25-Jun |
| 1996 | 5.000 | 4.934 | 4.934 | 3.945 | 0.849 | 0.942 | 0.800 | 1:1.5\&1:1.5,2.3 | 27-Jun |
| 1997 | 5.000 | 4.651 | 4.651 | 3.597 | 0.910 | 0.850 | 0.773 | 2:1\&2:1.5,2.3 | 9-Jul |
| 1998 | 2.500 | 2.414 | 2.414 | 1.769 | 0.897 | 0.817 | 0.733 | 1:1.4+2.5\&1:1.4+2.3 | 30-Jun |
| 1999 | 2.500 | 0.461 | 0.461 | 0.350 | 0.922 | 0.824 | 0.759 | 2:1.5 | 4-Jul |
| 2000 | 3.000 | 2.816 | 2.572 | 2.320 | 0.943 | 0.956 | 0.902 | 1.1.5+2.3\&1.1.5 | 26-Jun |
| 2001 | 4.800 | 4.364 | 3.499 | 2.233 | 0.900 | 0.709 | 0.638 | 2:1.5\&2:1.5,2.3 | 25-Jun |
| 2002 | 3.000 | 2.498 | 2.302 | 1.353 | 0.823 | 0.714 | 0.588 | 1:1.4\&1:1.4+2.3 | 27-May |
| 2003 | 5.000 | 2.642 | 2.452 | 2.141 | 0.919 | 0.950 | 0.873 | 1.1.5+2.3\&1.1.5 | 27-May |
| 2004 | 5.000 | 0.750 | 0.750 | 0.628 | 0.933 | 0.898 | 0.837 | 1:1.4+2.5n\&1:1.4+2.3,3.3 | 20-May |
| 2005 | 5.000 | 1.811 | 1.811 | 1.471 | 0.936 | 0.868 | 0.813 | 1:1.4+2.3\&1:1.4+2.5 | 8-Jun |
| 2006 | 5.000 | 4.810 | 4.810 | 3.705 | 0.920 | 0.837 | 0.770 | 1:1.2,2.1,3.2\&1:1.2,2.2,3.3\&1:1.2,2.2,3.1 | 13-Jun |
| 2007 | 5.000 | 3.673 | 3.673 | 2.122 | 0.885 | 0.653 | 0.578 | 2n3\&2,3n,1\&1,3n,2\&3,2n,1 | 6-Jun |
| 2008 | 5.000 | 4.902 | 4.373 | 3.873 | 0.892 | 0.993 | 0.886 | 3,2H \& 3,3H | 3-Jun |
| 2009 | 5.000 | 1.224 | 0.718 | 0.718 | 0.852 | 0.688 | 0.586 | 6,2H \& 3n,2H | 22-May |
| Averages |  |  |  |  |  |  |  |  |  |
| 90-09 | 3.703 | 2.528 | 1.809 | 1.787 | 0.870 | 0.837 | 0.731 |  | 19-Jun |
| 00-09 | 4.580 | 2.949 | 2.056 | 2.012 | 0.900 | 0.826 | 0.747 |  | 7-Jun |
| 2010 | $\sim 1.500$ | 2.090 |  |  |  |  |  |  |  |



[^4]Appendix G. 1. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2010.

| Year | Sample Size | Statistic | 5 Reporting Groups |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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 |
|  |  | C195 | 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 |
| 2008 | 293 | 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 |
| 2009 | 177 | 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 |
| 2010 | 72 | 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 |

Appendix G. 2. Annual estimates of large Chinook salmon harvested in the Alaskan District 108 commercial drift gillnet fishery, 2010.
CI05 is the lower credibility interval and CI95 is the upper credibility interval.
5 Reporting Groups

|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year | Sample Size | Statistic | Taku | Andrew | Stikine | SSEAK |
| 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 |

Appendix G. 3. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2010.
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 |
| 2005 | 226 | Mean | 0.220 | 0.134 | 0.518 | 0.082 | 0.045 |
|  |  | SD | 0.052 | 0.032 | 0.059 | 0.025 | 0.015 |
|  | 201 | CI05 | 0.136 | 0.084 | 0.421 | 0.043 | 0.024 |
|  |  | C195 | 0.308 | 0.190 | 0.615 | 0.125 | 0.072 |
| 2006 |  | 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 |
|  | 200 | CI95 | 0.230 | 0.241 | 0.651 | 0.135 | 0.041 |
| 2007 |  | Mean | 0.221 | 0.296 | 0.383 | 0.053 | 0.048 |
|  |  | SD | 0.047 | 0.040 | 0.054 | 0.021 | 0.017 |
|  | 200 | CI05 | 0.145 | 0.232 | 0.295 | 0.023 | 0.024 |
|  |  | CI95 | 0.301 | 0.362 | 0.473 | 0.090 | 0.079 |
| 2008 |  | 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 |
|  | 190 | CI95 | 0.365 | 0.316 | 0.422 | 0.142 | 0.074 |
| 2009 |  | Mean | 0.321 | 0.166 | 0.195 | 0.094 | 0.222 |
|  |  | SD | 0.047 | 0.033 | 0.046 | 0.035 | 0.035 |
|  | 201 | CI05 | 0.245 | 0.114 | 0.122 | 0.048 | 0.166 |
|  |  | CI95 | 0.400 | 0.224 | 0.275 | 0.164 | 0.280 |
| 2010 |  | 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 |

Appendix G. 4. Annual estimates of large Chinook salmon harvested in the Alaskan District 108 sport fisheries, 2010.
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 | 221 | 275 | 364 | 125 | 86 |
|  |  | SD | 47 | 41 | 57 | 32 | 21 |
|  |  | CI05 | 146 | 211 | 272 | 76 | 54 |
|  |  | CI95 | 301 | 344 | 460 | 180 | 124 |

Appendix G. 5. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet fishery, 2010.

| CI05 | lower credib | ity interv | nd CI9 | s the upp | credibility | interval. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 5 R | porting G | ups |  |
| 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 |
| 2007 | 96 | Mean | 0.491 | 0.490 | 0.001 | 0.015 | 0.003 |
|  |  | 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 |
| 2008 | 104 | Mean | 0.482 | 0.360 | 0.001 | 0.071 | 0.086 |
|  |  | 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 |
| 2009 | 257 | Mean | 0.809 | 0.185 | 0.004 | 0.001 | 0.001 |
|  |  | SD | 0.031 | 0.027 | 0.015 | 0.006 | 0.003 |
|  |  | CI05 | 0.755 | 0.143 | 0.000 | 0.000 | 0.000 |
|  |  | CI95 | 0.854 | 0.231 | 0.034 | 0.011 | 0.005 |
| 2010 | 152 | 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 |
|  |  | C195 | 0.607 | 0.518 | 0.011 | 0.000 | 0.031 |

Appendix G. 6. Annual estimates of large Chinook salmon harvested in the Alaskan District 111 commercial drift gillnet fishery, 2010.
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 |

Appendix G. 7. Annual stock proportion estimates (mean) of large Chinook salmon harvested in the Alaskan District 111 sport fishery, 2010.

| 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 |
| 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 |
|  |  | C195 | 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 |
| 2010 | 200 | 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 |

Appendix G. 8. Annual estimates of large Chinook salmon harvested in the Alaskan District 111 sport fishery, 2010.
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 |


[^0]:    ${ }^{a}$ Estimate includes approximately 30,000 mortalities from overcrowding on May 22, 1987.
    ${ }^{0}$ 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.
    ${ }^{\text {a }}$ Estimate of $1,516,150$ on June 14 expanded by average $\%$ of outmigration by date ( $97.5 \%$ ) from historical data.

[^1]:    ${ }^{\text {a }}$ Partial survey. Tseta 84
    ${ }^{\mathrm{b}}$ Extrapolated results. Nahlin 84
    ${ }^{\text {c }}$ Stopped flying index area 4 on the Nakina after 2009.

[^2]:    ${ }^{\text {a }}$ The Trapper and Mainstem groups were combined in the 1989 and 2010 analyses.

[^3]:    ${ }^{\text {a }}$ Weir count plus spawning ground survey; Trapper 1983, 1985, 1987

[^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

