# Summary of Bristol Bay Sockeye Salmon Harvests by Gear Type, 2009-2012: a Report to the Alaska Board of Fisheries 

by
Paul Salomone


## Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

| Weights and measures (metric) |  | General | Mathematics, statistics |  |
| :--- | :--- | :--- | :--- | :--- |
| centimeter | cm | Alaska Administrative |  | all standard mathematical |
| deciliter | dL | Code | signs, symbols and |  |
| gram | g | all commonly accepted |  | abbreviations |

# SPECIAL PUBLICATION NO. 12-20 

# SUMMARY OF BRISTOL BAY SOCKEYE SALMON HARVESTS BY GEAR TYPE, 2009-2012: A REPORT TO THE ALASKA BOARD OF FISHERIES 

by<br>Paul Salomone<br>Alaska Department of Fish and Game, Division of Commercial Fisheries, Anchorage

Alaska Department of Fish and Game Division of Sport Fish, Research and Technical Services 333 Raspberry Road, Anchorage, Alaska, 99518-1599

The Special Publication series was established by the Division of Sport Fish in 1991 for the publication of techniques and procedures manuals, informational pamphlets, special subject reports to decision-making bodies, symposia and workshop proceedings, application software documentation, in-house lectures, and became a joint divisional series in 2004 with the Division of Commercial Fisheries. Special Publications are intended for fishery and other technical professionals. Special Publications are available through the Alaska State Library, Alaska Resources Library and Information Services (ARLIS) and on the Internet http://www.adfg.alaska.gov/sf/publications/. This publication has undergone editorial and peer review.

Paul Salomone,<br>Alaska Department of Fish and Game, Division of Commercial Fisheries, 333 Raspberry Road, Anchorage, AK 99518, USA

This document should be cited as:
Salomone, P. 2012. Summary of Bristol Bay sockeye salmon harvests by gear type, 2010-2012: a report to the Alaska Board of Fisheries. Alaska Department of Fish and Game, Special Publication No. 12-20, Anchorage.

The Alaska Department of Fish and Game (ADF\&G) administers all programs and activities free from discrimination based on race, color, national origin, age, sex, religion, marital status, pregnancy, parenthood, or disability. The department administers all programs and activities in compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act (ADA) of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972.

If you believe you have been discriminated against in any program, activity, or facility please write:
ADF\&G ADA Coordinator, P.O. Box 115526, Juneau, AK 99811-5526
U.S. Fish and Wildlife Service, 4401 N. Fairfax Drive, MS 2042, Arlington, VA 22203

Office of Equal Opportunity, U.S. Department of the Interior, 1849 C Street NW MS 5230, Washington DC 20240
The department's ADA Coordinator can be reached via phone at the following numbers:
(VOICE) 907-465-6077, (Statewide Telecommunication Device for the Deaf) 1-800-478-3648, (Juneau TDD) 907-465-3646, or (FAX) 907-465-6078
For information on alternative formats and questions on this publication, please contact:
ADF\&G, Division of Sport Fish, Research and Technical Services, 333 Raspberry Rd, Anchorage AK 99518 (907) 267-2375

## TABLE OF CONTENTS

PageLIST OF TABLES ..... ii
LIST OF FIGURES ..... ii
ABSTRACT ..... 1
INTRODUCTION ..... 1
Effort ..... 2
Sockeye Salmon Harvest ..... 2
General District ..... 3
Alagnak River Special Harvest Area ..... 3
REFERENCES CITED ..... 4
TABLES AND FIGURES ..... 5

## LIST OF TABLES

Table Page

1. Drift and set gillnet fishing effort by year and district, 1975-2012 ..... 6
2. Bristol Bay interim-use and permanent entry permits and permits actually fished, 1980-2012. ..... 7
3. Bristol Bay sockeye salmon harvest in percent and numbers by gear type, 1965-2012. ..... 9
4. Bristol Bay average harvest in numbers of sockeye salmon by gear type and year, 1965-2012 ..... 10
5. Average harvest in numbers of sockeye salmon by gear type and district, 1984-2012. ..... 11
6. Naknek-Kvichak District sockeye salmon harvest in percent and numbers by gear type, 1965-2012. ..... 12
7. Egegik District sockeye salmon harvest in percent and numbers by gear type, 1965-2012. ..... 13
8. Ugashik District sockeye salmon harvest in percent and numbers by gear type, 1965-2012. ..... 14
9. Nushagak District sockeye salmon harvest in percent and numbers by gear type, 1965-2012. ..... 15
10. Togiak District sockeye salmon harvest in percent and numbers by gear type, 1965-2012. ..... 16
11. Nushagak District sockeye salmon harvest by gear type, in numbers of fish and percent of total catch, 1978-2012 ..... 17
12. Nushagak District sockeye salmon harvest by gear type, in numbers of fish and percent of the total harvest through the allocation period, 1998-2012. ..... 18
13. Naknek-Kvichak District sockeye salmon harvest by gear type, in numbers of fish and percent of total catch, 1985-2012. ..... 19
14. Naknek/Kvichak District sockeye salmon harvest by gear type, in numbers of fish and percent of total harvest through the allocation period, 1998-2009. ..... 20
15. Alagnak River and General District harvest numbers by gear type, 2004-2012. ..... 21

## LIST OF FIGURES

Figure Page

1. Bristol Bay area commercial salmon fishery management districts ..... 22


#### Abstract

The purpose of this report is to provide the Alaska Board of Fisheries with background information regarding fishing effort and sockeye salmon (Oncorhynchus nerka) harvest by gear type in the Bristol Bay commercial salmon fishery. Data in this report were obtained from previous reports to the board in 2003 from the Commercial Fisheries Entry Commission, and from the commercial fisheries fish ticket database. Information in this report is considered final for all years through 2011. The 2012 data are preliminary. For a more complete historical perspective, data from 1965 to 2012 are included.


Key words: Alaska Board of Fisheries, board, BOF, effort, harvest, gear type, Commercial Fisheries Entry Commission, CFEC, sockeye salmon, Oncorhynchus nerka.

## INTRODUCTION

By regulation (5 AAC 06.330), drift and set gillnets are the only two types of legal fishing gear in the Bristol Bay commercial salmon Oncorhynchus spp fishery. Drift gillnet fishermen are limited to 150 fathoms of gear, while set gillnet fishermen are limited to 50 fathoms, except that under dual permit regulations, 200 fathoms of gear can be used by drift gillnetters (5 AAC 06.333). Set gillnetters are allowed to own two permits and operate two full complements of gear (5 AAC 06.331(u)); however, that regulation is scheduled to sunset in 2012. Set gillnets fished in the Naknek-Kvichak, Egegik, Ugashik, and Togiak districts must be at least 300 feet apart, while in the Nushagak District set gillnets must be at least 450 feet apart. There is no minimum distance required between drift gillnets, but drift gillnets must be at least 300 feet from the side of a set gillnet or at least 100 feet from the offshore end of a set gillnet out to the allowable offshore distance for set gillnets (see 5 AAC 06.335 and 5 AAC 06.331(m) and (n)). In the Ugashik River Special Harvest Area (URSHA), Wood River Special Harvest Area (WRSHA), and Naknek River Special Harvest Area (NRSHA), reduced limits of gear and reduced distances between gear apply (see URSHA 5 AAC 06.357(e), WRSHA 5 AAC 06.358(1) and (2), NRSHA 5 AAC 06.360(d) and (e)).
The five fishing districts of Bristol Bay are illustrated in Figure 1. The drift fleet's mobility enables it to fish more than one district and many drift fishermen will land fish in more than one district in a given season. Most set gillnetters usually fish one district in a season. Set gillnet fishermen are less mobile and are limited by availability of fishing sites, existing tideland leases, and the base of operation necessary to conduct set gillnet fishing activities, mainly fish delivery logistics. However, both gear groups have evolved to take full advantage of available fishing opportunities and are effective in harvesting substantial numbers of salmon in relatively short time periods.

For this report, annual total effort in a district is defined as the total number of permits that had at least one delivery recorded within that district for the season. Average sockeye salmon $O$. nerka catches were calculated using total effort for each district.

In 1997, the board allocated sockeye salmon harvests in the Naknek-Kvichak, Egegik, Ugashik, and Nushagak districts between set and drift gillnet gear. In most cases, the allocation period is from June 1 to July 17. Some statistics in this report, as footnoted, are calculated using only that time frame.

The Bristol Bay commercial salmon fishery became a "limited entry" fishery in 1975, and due to court adjudication, the number of permits has fluctuated since then (Tables 1 and 2). According
to the Commercial Fisheries Entry Commission, the number of Bristol Bay permit holders that could have received licenses to fish during the 2012 season totaled 2,841 permits, consisting of 1,862 drift gillnet permits and 979 set gillnet permits. Of these active permits, 1,823 drift gillnet and 956 set gillnet permits were renewed, and of these renewed permits, preliminary information shows 1,455 drift gillnet and 853 set gillnet permits recorded landings.

## Effort

Fishing effort by district from 1975 to 2012 is presented in Table 1. Effort has been greatest in districts with the largest sockeye salmon harvest predictions, but the largest annual drift gillnet effort recorded for a single district was 1,387 permit holders in the Naknek-Kvichak District during 1990. The Naknek-Kvichak District drift gillnet effort has exceeded 1,000 permit holders in 14 of the 37 years from 1975 to 2012, and has averaged 875 from 2009 to 2012. The Egegik District has exceeded 1,000 drift fishermen two times (1975-2012) while the other three districts have yet to reach that level of effort. The largest set gillnet effort also occurred in the NaknekKvichak District, with a peak level of 574 permit holders in 1985. Effort levels among districts tend to fluctuate with run sizes. Until 1999, drift effort in the Naknek-Kvichak District increased on pre-peak and peak years. Set gillnet effort has remained relatively stable in most districts. In general, effort was at a low point for both gear groups during years of poor sockeye salmon abundance from 2001 to 2004, but has rebounded since then as runs have improved.

## Sockeye Salmon Harvest

The 2009 to 2012 Bristol Bay percentages of sockeye salmon harvest by gear type are presented in Table 3. Over the last 20 years, the average percent of drift gillnet harvest is $83 \%$, and for set gillnet harvest it is $17 \%$ (Table 4). Breakdown of catch between gear groups within districts is presented in Table 5. District allocation goals are as follows: 1) Naknek-Kvichak - 84\% drift gillnet and $16 \%$ set gillnet, which is split between Kvichak and Naknek set gillnetters at $8 \%$ each; 2) Nushagak - $74 \%$ drift gillnet and $26 \%$ set gillnet, which is split between Igushik and Nushagak set gillnetters at $6 \%$ and $20 \%$, respectively; the Wood River Special Harvest Area (WRSHA) also has a $74 \%$ drift and $26 \%$ set gillnet split; 3) Egegik - $86 \%$ drift gillnet and $14 \%$ set gillnet; and 4) Ugashik - $90 \%$ drift gillnet and $10 \%$ set gillnet. Since 1998, managers in the Naknek-Kvichak, Nushagak, Egegik, and Ugashik districts have attempted to achieve allocations by adjusting fishing times for the two gear groups. In some cases, this has meant separate fishing periods for each gear group.

Over the last 5 years, sockeye salmon harvests have generally been within 2 to $4 \%$ of the allocations (Tables 6-14), with the exception of the Naknek-Kvichak District. The NaknekKvichak District fishermen spent much of the season in the Naknek River Special Harvest Area (NRSHA) from 1999 to 2007, which made management of the Naknek River escapement difficult. The fishery has occurred since 2008 without the use of the NRSHA. In case of processing capacity issues, management of escapement takes priority over management of the allocation targets.
The total set gillnet harvest, by section, for the Nushagak District and the Naknek-Kvichak District (2009 to 2012) are listed in Tables 11 and 13. Tables 12 and 14 list the allocation breakdown for those districts, by section and inriver fisheries, for the allocation period, June 1 July 17. From 2009 to 2012: 1) the Igushik Section set gillnet average percent of the total harvest is $5 \%$ (Table 11), and during the allocation period (June 1-July 17), it has been $6 \%$
(Table 12); 2) the Nushagak Section set gillnet percentage of the harvests has averaged $20 \%$ (Table 12); 3) the Naknek Section set gillnet average percent of the harvest during the allocation period has been $10 \%$ when the section was fished, while Kvichak Section set gillnetters have averaged 8\% (Table 14); 4) Egegik set gillnetters’ average harvest has been 16\% (Table 7); and 5) Ugashik set gillnetters averaged 11\% (Table 8).

Comparisons of average harvests for each gear type in numbers of sockeye salmon per permit are presented in Table 4 with pre and post allocation plan averages calculated. Beginning in 2009, the Bay has seen a downward trend in abundance (Table 3). Since the allocation plan was put into place in 1998, the average total harvest has been down by approximately $11 \%$ from the 1978 to 1997 average of approximately 25 million. Average sockeye salmon harvest for the drift gillnet group has decreased by approximately $19 \%$ from a 1978-1997 average of 22 million to a 1998-2012 average of 18 million sockeye salmon. For set gillnet fishermen, the average sockeye salmon harvest for the group has increased approximately $25 \%$ from a 1978-1997 average of 3.2 million to a 1998-2012 average of 4.1 million. From 2009 to 2012, average harvests have been 19.5 million for the drift group and 4.5 million for the set gillnet group.
Average sockeye salmon catches per permit holder by gear type and district are listed in Table 5. Egegik District drift gillnet fishermen have achieved the largest 10-year average (2003-2012) sockeye salmon harvest per permit holder of any district, with 10,138 fish per permit. However, from 2009 to 2012, the Naknek-Kvichak District drift fleet has averaged 10,329 fish per permit, while the Naknek-Kvichak setnet group has averaged 6,100 fish for the same period. The largest single season individual drift delivery average of 17,346 sockeye salmon per permit holder was recorded in the Egegik District in 2009. Egegik District set gillnet fishermen have the highest 10-year average harvest in Bristol Bay with 5,696 sockeye salmon per permit holder and Ugashik set gillnet fishermen are second with a 10 -year average of 5,424 sockeye salmon. Egegik District fishermen posted the largest single-season individual set gillnet average harvest per permit in the last 20 years with 8,528 sockeye salmon per permit, in 2009. Togiak District fishermen have had the lowest average annual harvest for both gear groups in the last 10 years, with drift gillnet fishermen averaging 3,420 sockeye salmon per permit holder and set gillnetters averaging 3,401 fish. However, during the exclusive periods from 1996 to 2012, the average in the Togiak District was 3,467 for drift gillnet fishermen and 2,929 for set gillnet fishermen.

## GENERAL DISTRICT

In anticipation of a large sockeye salmon run in 2004, the board allowed fishing in the General District. The regulation allowing fishing in this district had a sunset clause that caused the regulation to expire in December of 2004. Information on harvest and effort is presented in Table 15.

## Alagnak River Special Harvest Area

In response to large sockeye salmon runs in the Alagnak (Branch) River, the board created an inriver fishery in the Alagnak River Special Harvest Area (ARSHA). In 2005 the ARSHA was fished exclusively by set gillnet gear, but after action by the board in 2006, drift gillnet fishing was also allowed. Harvest and effort information is presented in Table 15. No directed fishing occurred in the ARSHA since 2007.

The ARSHA can be best characterized as being shallow, with a broad single channel and strong currents. There are few set gillnet sites and limited drift gillnet fishing can only occur during a
couple of hours on either side of high tides. Fishermen must exit the river while there is still sufficient water depth or risk grounding. This exercise is made difficult after a fishing period when the vessels have fish on board.

For reference, all data in this report were obtained from previous reports to the board and can be found in Weiland 2003 and Salomone 2006 and 2009.

## REFERENCES CITED

Weiland, K. 2003. Summary of Bristol Bay sockeye salmon catches by gear type, 1965-2003. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 2A03-25, Anchorage. http://www.adfg.alaska.gov/FedAidPDFs/RIR.2A.2003.25.pdf

Salomone, P. 2006. Summary of Bristol Bay sockeye salmon harvests by gear type, 2001-2006; a report to the Alaska Board of Fisheries. Alaska Department of Fish and Game, Special Publication No. 06-27, Anchorage. http://www.adfg.alaska.gov/FedAidPDFs/sp06-27.pdf
Salomone, P. 2009. Summary of Bristol Bay sockeye salmon harvests by gear type, 2007-2009. Alaska Department of Fish and Game, Special Publication No.09-17, Anchorage. http://www.adfg.alaska.gov/FedAidPDFs/SP0917.pdf

TABLES AND FIGURES

Table 1.-Drift and set gillnet fishing effort by year and district, 1975-2012.

| Units of Effort (one or more sockeye salmon deliveries during season) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nakne | vichak | Egegik |  | Ugashik |  | Nushagak |  | Togiak |  | $\begin{gathered} \hline \text { Bristol Bay } \\ \text { Total } \\ \hline \end{gathered}$ |  |
| Year | Drift | Set | Drift | Set | Drift | Set | Drift | Set | Drift | Set | Drift | Set |
| 1975 | 705 | 147 | 235 | 88 | 34 | 8 | 421 | 141 | 92 | 24 | 1,235 | 445 |
| 1976 | 664 | 182 | 256 | 96 | 75 | 18 | 422 | 178 | 86 | 31 | 1,353 | 501 |
| 1977 | 621 | 179 | 324 | 94 | 47 | 7 | 476 | 166 | 130 | 31 | 1,359 | 498 |
| 1978 | 798 | 280 | 386 | 130 | 48 | 4 | 641 | 216 | 151 | 38 | 1,575 | 656 |
| 1979 | 1,060 | 298 | 332 | 159 | 103 | 23 | 656 | 236 | 162 | 57 | 1,714 | 770 |
| 1980 | 1,011 | 347 | 283 | 179 | 187 | 29 | 666 | 241 | 181 | 47 | 1,764 | 807 |
| 1981 | 993 | 348 | 345 | 167 | 270 | 33 | 658 | 260 | 178 | 54 | 1,785 | 841 |
| 1982 | 801 | 332 | 420 | 168 | 253 | 49 | 980 | 252 | 202 | 56 | 1,792 | 859 |
| 1983 | 1,064 | 361 | 483 | 171 | 346 | 47 | 792 | 260 | 251 | 58 | 1,797 | 865 |
| 1984 | 1,091 | 338 | 573 | 180 | 313 | 53 | 575 | 260 | 225 | 63 | 1,804 | 869 |
| 1985 | 1,184 | 574 | 928 | 180 | 757 | 65 | 403 | 265 | 340 | 106 | 1,836 | 877 |
| 1986 | 730 | 302 | 838 | 220 | 829 | 86 | 749 | 281 | 146 | 101 | 1,836 | 901 |
| 1987 | 1,059 | 320 | 927 | 205 | 628 | 74 | 584 | 282 | 145 | 211 | 1,828 | 899 |
| 1988 | 1,014 | 356 | 999 | 307 | 578 | 71 | 512 | 306 | 319 | 211 | 1,849 | 1,215 |
| 1989 | 1,219 | 364 | 986 | 215 | 551 | 65 | 415 | 288 | 138 | 96 | 1,866 | 972 |
| 1990 | 1,387 | 441 | 969 | 214 | 420 | 64 | 446 | 342 | 127 | 77 | 1,878 | 975 |
| 1991 | 1,089 | 359 | 667 | 211 | 416 | 62 | 467 | 312 | 207 | 106 | 1,887 | 958 |
| 1992 | 976 | 349 | 947 | 203 | 501 | 67 | 478 | 298 | 278 | 116 | 1,889 | 969 |
| 1993 | 834 | 335 | 1,189 | 227 | 608 | 70 | 490 | 296 | 154 | 107 | 1,881 | 971 |
| 1994 | 1,139 | 326 | 1,087 | 228 | 477 | 67 | 455 | 295 | 171 | 115 | 1,882 | 946 |
| 1995 | 1,187 | 348 | 945 | 207 | 743 | 67 | 398 | 312 | 176 | 110 | 1,921 | 991 |
| 1996 | 761 | 348 | 933 | 203 | 626 | 53 | 570 | 278 | $140^{\text {a }}$ | $111{ }^{\text {b }}$ | 1,890 | 942 |
| 1997 | 550 | 301 | 950 | 243 | 473 | 58 | 577 | 284 | $65^{\text {a }}$ | $85^{\text {b }}$ | 1,881 | 924 |
| 1998 | 1,053 | 297 | 947 | 209 | 393 | 51 | 648 | 277 | $62^{\text {a }}$ | $82^{\text {b }}$ | 1,858 | 901 |
| 1999 | 1,092 | 309 | 788 | 204 | 453 | 50 | 520 | 295 | $121^{\text {a }}$ | $77^{\text {b }}$ | 1,849 | 924 |
| 2000 | 797 | 325 | 817 | 204 | 520 | 54 | 668 | 298 | $187^{\text {a }}$ | $87^{\text {b }}$ | 1,823 | 924 |
| 2001 | 553 | 250 | 643 | 193 | 283 | 51 | 795 | 277 | $164{ }^{\text {a }}$ | $83^{\text {b }}$ | 1,566 | 834 |
| 2002 | 338 | 230 | 423 | 147 | 378 | 35 | 490 | 215 | 94 | 59 | 1,184 | 680 |
| 2003 | 508 | 254 | 557 | 181 | 438 | 52 | 609 | 222 | 137 | 76 | 1,424 | 761 |
| 2004 | 470 | 278 | 610 | 176 | 358 | 44 | 436 | 230 | 102 | 72 | 1,417 | 797 |
| 2005 | 668 | 288 | 617 | 183 | 372 | 57 | 672 | 236 | 89 | 71 | 1,450 | 828 |
| 2006 | 774 | 302 | 525 | 184 | 243 | 56 | 677 | 231 | 79 | 76 | 1,475 | 843 |
| 2007 | 716 | 289 | 497 | 189 | 436 | 50 | 670 | 234 | 109 | 75 | 1,469 | 834 |
| 2008 | 803 | 283 | 401 | 189 | 287 | 53 | 539 | 252 | 132 | 73 | 1,468 | 850 |
| 2009 | 668 | 275 | 565 | 194 | 286 | 54 | 483 | 253 | 125 | 70 | 1,442 | 843 |
| 2010 | 899 | 280 | 675 | 189 | 362 | 53 | 544 | 273 | 88 | 75 | 1,492 | 861 |
| 2011 | 923 | 270 | 713 | 194 | 398 | 53 | 441 | 287 | 137 | 82 | 1,525 | 878 |
| $2012^{\text {c }}$ | 802 | 279 | 570 | 191 | 354 | 53 | 535 | 260 | 118 | 75 | 1,455 | 853 |
| 1975-2012 Avg. | 819 | 277 | 585 | 191 | 337 | 53 | 508 | 265 | 120 | 75 | 1,476 | 857 |
| 1993-2012 Avg. | 777 | 293 | 723 | 197 | 424 | 54 | 561 | 265 | 123 | 83 | 1,618 | 869 |
| 2003-2012 Avg. | 723 | 280 | 573 | 187 | 353 | 52 | 561 | 248 | 112 | 75 | 1,462 | 835 |
| 1998-2012 Avg. | 738 | 281 | 623 | 188 | 371 | 51 | 582 | 256 | 116 | 76 | 1,526 | 841 |
| 2009-2012 Avg. | 875 | 276 | 653 | 191 | 371 | 53 | 507 | 273 | 114 | 77 | 1,491 | 864 |

${ }^{\text {a }}$ Drift effort before July 24 is as follows: 1996-37, 1997-40, 1998-33, 1999-44, 2002-80, 2003-118, and before July 21, 2000-40, 2001-81.
b Setnet effort before July 24 1996-79, 1997-83, 1998-76, 1999-68, 2002-59, 2003-72 and before July 21, 2000-66, 2001-73.
c Preliminary.

Table 2.-Bristol Bay interim-use and permanent entry permits and permits actually fished, 1980-2012.

| Year | Number of permits issued |  |  | Permits Fished |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Interim use | Permanent | Total | Number | Duals | Percent |
| Drift Gillnet |  |  |  |  |  |  |
| 1980 | 110 | 1,717 | 1,827 | 1,764 |  | 97 |
| 1981 | 107 | 1,720 | 1,827 | 1,785 |  | 98 |
| 1982 | 100 | 1,724 | 1,824 | 1,792 |  | 98 |
| 1983 | 94 | 1,727 | 1,821 | 1,797 |  | 99 |
| 1984 | 89 | 1,729 | 1,818 | 1,804 |  | 99 |
| 1985 | 96 | 1,738 | 1,834 | 1,815 |  | 99 |
| 1986 | 95 | 1,743 | 1,838 | 1,823 |  | 99 |
| 1987 | 91 | 1,746 | 1,837 | 1,824 |  | 99 |
| 1988 | 90 | 1,749 | 1,839 | 1,837 |  | 100 |
| 1989 | 91 | 1,776 | 1,867 | 1,855 |  | 99 |
| 1990 | 93 | 1,785 | 1,878 | 1,869 |  | 100 |
| 1991 | 88 | 1,793 | 1,881 | 1,873 |  | 100 |
| 1992 | 86 | 1,797 | 1,883 | 1,879 |  | 100 |
| 1993 | 81 | 1,805 | 1,886 | 1,875 |  | 99 |
| 1994 | 77 | 1,810 | 1,887 | 1,865 |  | 99 |
| 1995 | 75 | 1,813 | 1,888 | 1,882 |  | 100 |
| 1996 | 70 | 1,821 | 1,891 | 1,884 |  | 100 |
| 1997 | 67 | 1,832 | 1,899 | 1,875 |  | 99 |
| 1998 | 55 | 1,844 | 1,899 | 1,858 |  | 98 |
| 1999 | 52 | 1,846 | 1,898 | 1,847 |  | 97 |
| 2000 | 38 | 1,852 | 1,890 | 1,823 |  | 96 |
| 2001 | 24 | 1,859 | 1,883 | 1,566 |  | 83 |
| 2002 | 2 | 1,878 | 1,880 | 1,183 |  | 63 |
| 2003 | 7 | 1,860 | 1,867 | 1,415 |  | 76 |
| 2004 | 3 | 1,857 | 1,860 | 1,417 |  | 76 |
| 2005 | 3 | 1,859 | 1,862 | 1,450 |  | 78 |
| 2006 | 1 | 1,857 | 1,858 | 1,475 |  | 79 |
| 2007 | 1 | 1,862 | 1,863 | 1,469 |  | 79 |
| 2008 | 0 | 1,863 | 1,863 | 1,468 |  | 79 |
| 2009 | 0 | 1,861 | 1,863 | 1,442 |  | 77 |
| 2010 | 0 | 1,861 | 1,863 | 1,492 | 360 | 80 |
| 2011 | 0 | 1,845 | 1,862 | 1,525 | 224 | 82 |
| $2012{ }^{\text {a }}$ | 0 | 1,823 | 1,862 | 1,455 | 326 | 78 |
| Average | 60 | 1,806 | 1,864 | 1,696 |  | 92 |

Table 2.-Page 2 of 2.

| Year | Number of permits issued |  |  | Permits fished |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Interim Use | Permanent | Total | Number | Duals | Percent |
| Set Gillnet |  |  |  |  |  |  |
| 1980 | 34 | 913 | 947 | 807 |  | 85 |
| 1981 | 42 | 914 | 956 | 841 |  | 88 |
| 1982 | 41 | 916 | 957 | 859 |  | 90 |
| 1983 | 31 | 929 | 960 | 865 |  | 90 |
| 1984 | 31 | 931 | 962 | 869 |  | 90 |
| 1985 | 28 | 931 | 959 | 872 |  | 91 |
| 1986 | 22 | 940 | 962 | 869 |  | 90 |
| 1987 | 18 | 942 | 960 | 899 |  | 94 |
| 1988 | 17 | 941 | 958 | 922 |  | 96 |
| 1989 | 18 | 1,007 | 1025 | 971 |  | 95 |
| 1990 | 15 | 1,011 | 1026 | 971 |  | 95 |
| 1991 | 12 | 1,012 | 1024 | 950 |  | 93 |
| 1992 | 8 | 1,017 | 1025 | 968 |  | 94 |
| 1993 | 8 | 1,014 | 1022 | 965 |  | 94 |
| 1994 | 7 | 1,012 | 1019 | 939 |  | 92 |
| 1995 | 8 | 1,011 | 1019 | 967 |  | 95 |
| 1996 | 6 | 1,011 | 1017 | 941 |  | 93 |
| 1997 | 7 | 1,012 | 1019 | 921 |  | 90 |
| 1998 | 6 | 1,009 | 1015 | 901 |  | 89 |
| 1999 | 6 | 1,008 | 1014 | 925 |  | 91 |
| 2000 | 6 | 1,007 | 1013 | 921 |  | 91 |
| 2001 | 2 | 1,010 | 1012 | 834 |  | 82 |
| 2002 | 2 | 1,004 | 1006 | 680 |  | 68 |
| 2003 | 1 | 1,000 | 1001 | 756 |  | 76 |
| 2004 | 0 | 989 | 989 | 797 |  | 81 |
| 2005 | 0 | 988 | 988 | 828 |  | 84 |
| 2006 | 0 | 985 | 985 | 843 |  | 86 |
| 2007 | 0 | 983 | 983 | 834 |  | 85 |
| 2008 | 0 | 981 | 981 | 850 |  | 87 |
| 2009 | 0 | 980 | 982 | 843 |  | 86 |
| 2010 | 0 | 979 | 982 | 861 |  | 88 |
| 2011 | 0 | 959 | 981 | 878 |  | 90 |
| 2012 ${ }^{\text {a }}$ | 0 | 956 | 979 | 853 |  | 87 |
| Average | 13 | 979 | 992 | 880 |  | 89 |

Note: Use of dual setnet permits not tracked. "Permits actually fished" is defined as the number of permits that recorded a delivery.
a Preliminary data.

Table 3.-Bristol Bay sockeye salmon harvest in percent and numbers by gear type, 1965-2012.

| Year | Percentage of harvest by gear type |  | Harvest in numbers by gear type (1,000s) |  | Total Harvest |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift | Set | Drift | Set | (1,000s) |
| 1965 | 92 | 8 | 22,315 | 1,940 | 24,255 |
| 1966 | 89 | 11 | 8,289 | 1,025 | 9,314 |
| 1967 | 89 | 11 | 3,855 | 476 | 4,331 |
| 1968 | 90 | 10 | 2,514 | 279 | 2,793 |
| 1969 | 88 | 12 | 5,827 | 795 | 6,622 |
| 1970 | 93 | 7 | 19,271 | 1,450 | 20,721 |
| 1971 | 90 | 10 | 8,626 | 958 | 9,584 |
| 1972 | 93 | 7 | 2,247 | 169 | 2,416 |
| 1973 | 92 | 8 | 700 | 61 | 761 |
| 1974 | 79 | 21 | 1,076 | 286 | 1,362 |
| 1975 | 91 | 9 | 4,458 | 441 | 4,899 |
| 1976 | 90 | 10 | 5,057 | 562 | 5,619 |
| 1977 | 89 | 11 | 4,341 | 537 | 4,878 |
| 1978 | 88 | 12 | 8,737 | 1,191 | 9,928 |
| 1979 | 88 | 12 | 18,858 | 2,571 | 21,429 |
| 1980 | 86 | 14 | 20,435 | 3,327 | 23,762 |
| 1981 | 86 | 14 | 22,019 | 3,584 | 25,603 |
| 1982 | 87 | 13 | 13,318 | 1,942 | 15,260 |
| 1983 | 90 | 10 | 33,448 | 3,924 | 37,372 |
| 1984 | 90 | 10 | 22,219 | 2,486 | 24,705 |
| 1985 | 90 | 10 | 21,345 | 2,350 | 23,695 |
| 1986 | 85 | 15 | 13,356 | 2,420 | 15,776 |
| 1987 | 87 | 13 | 13,916 | 2,152 | 16,068 |
| 1988 | 86 | 14 | 12,038 | 1,952 | 13,990 |
| 1989 | 86 | 14 | 24,642 | 4,093 | 28,735 |
| $1990^{\text {a }}$ | 87 | 13 | 29,067 | 4,377 | 33,444 |
| $1991{ }^{\text {a }}$ | 86 | 14 | 22,241 | 3,580 | 25,821 |
| $1992{ }^{\text {a }}$ | 87 | 13 | 27,861 | 3,985 | 31,846 |
| $1993{ }^{\text {a }}$ | 87 | 13 | 35,303 | 5,156 | 40,459 |
| $1994{ }^{\text {a }}$ | 88 | 12 | 31,119 | 4,098 | 35,217 |
| $1995{ }^{\text {a }}$ | 87 | 13 | 38,514 | 5,649 | 44,163 |
| $1996{ }^{\text {a }}$ | 86 | 14 | 25,510 | 4,078 | 29,588 |
| $1997{ }^{\text {a }}$ | 82 | 18 | 9,944 | 2,127 | 12,071 |
| $1998{ }^{\text {a }}$ | 80 | 20 | 7,941 | 1,987 | 9,928 |
| $1999{ }^{\text {a }}$ | 81 | 19 | 20,859 | 4,738 | 25,597 |
| $2000^{\text {a }}$ | 81 | 19 | 16,458 | 3,894 | 20,352 |
| $2001{ }^{\text {a }}$ | 79 | 21 | 11,090 | 2,985 | 14,075 |
| $2002^{\text {a }}$ | 79 | 21 | 8,351 | 2,175 | 10,526 |
| $2003{ }^{\text {a }}$ | 79 | 21 | 11,498 | 3,132 | 14,630 |
| $2004{ }^{\text {a }}$ | 83 | 17 | 20,031 | 3,986 | 24,017 |
| $2005^{\text {a }}$ | 82 | 18 | 19,991 | 4,529 | 24,520 |
| $2006^{\text {a }}$ | 85 | 15 | 24,117 | 4,330 | 28,447 |
| $2007^{\text {a }}$ | 82 | 18 | 24,481 | 5,203 | 29,684 |
| $2008^{\text {a }}$ | 82 | 18 | 22,523 | 5,039 | 27,562 |
| $2009{ }^{\text {a }}$ | 81 | 19 | 25,069 | 5,799 | 30,868 |
| $2010^{\text {a }}$ | 81 | 19 | 23,441 | 5,558 | 28,999 |
| $2011{ }^{\text {a }}$ | 82 | 18 | 18,052 | 4,040 | 22,092 |
| $2012{ }^{\text {a,b }}$ | 82 | 18 | 16,996 | 3,778 | 20,774 |
| 1965-2012 Avg. | 86 | 14 | 16,737 | 2,817 | 19,553 |
| 20-yr. Avg. | 83 | 17 | 20,564 | 4,114 | 24,678 |
| 10-yr. Avg. | 82 | 18 | 20,620 | 4,539 | 25,159 |
| 1978-1997 Avg. | 87 | 13 | 22,195 | 3,252 | 25,447 |
| 1998-2012 Avg. | 81 | 19 | 18,060 | 4,078 | 22,138 |
| 20010-2012 Avg. | 82 | 18 | 19,496 | 4,459 | 23,955 |

[^0]Table 4.-Bristol Bay average harvest in numbers of sockeye salmon by gear type and year, 1965-2012.

| Year | $\begin{gathered} \text { Estimated } \\ \text { permits } \\ \text { actually fished } \end{gathered}$ |  | Average number of sockeye / permit Permit type |  | Drift gillnet \% of total harvest | Set gillnet <br> \% of total harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift | Set | Drift | Set |  |  |
| 1965 | 1,395 | 582 | 15,996 | 3,333 | 92 | 8 |
| 1966 | 1,715 | 549 | 4,833 | 1,867 | 89 | 11 |
| 1967 | 1,555 | 439 | 2,479 | 1,084 | 89 | 11 |
| 1968 | 1,237 | 493 | 2,032 | 566 | 90 | 10 |
| 1969 | 1,633 | 511 | 3,568 | 1,556 | 88 | 12 |
| 1970 | 1,674 | 623 | 11,512 | 2,327 | 93 | 7 |
| 1971 | 1,710 | 421 | 5,044 | 2,276 | 90 | 10 |
| 1972 | 1,467 | 490 | 1,532 | 345 | 93 | 7 |
| 1973 | 953 | 542 | 735 | 113 | 92 | 8 |
| 1974 | 659 | 214 | 1,633 | 1,336 | 79 | 21 |
| 1975 | 1,235 | 445 | 3,610 | 991 | 91 | 9 |
| 1976 | 1,353 | 501 | 3,738 | 1,122 | 90 | 10 |
| 1977 | 1,359 | 498 | 3,194 | 1,078 | 89 | 11 |
| 1978 | 1,575 | 656 | 5,547 | 1,816 | 88 | 12 |
| 1979 | 1,714 | 770 | 11,002 | 3,339 | 88 | 12 |
| 1980 | 1,764 | 807 | 11,584 | 4,123 | 86 | 14 |
| 1981 | 1,785 | 841 | 12,336 | 4,262 | 86 | 14 |
| 1982 | 1,792 | 859 | 7,432 | 2,261 | 87 | 13 |
| 1983 | 1,797 | 865 | 18,613 | 4,536 | 90 | 10 |
| 1984 | 1,804 | 869 | 12,317 | 2,861 | 90 | 10 |
| 1985 | 1,836 | 877 | 11,626 | 2,680 | 90 | 10 |
| 1986 | 1,836 | 901 | 7,275 | 2,685 | 85 | 15 |
| 1987 | 1,828 | 899 | 7,613 | 2,394 | 87 | 13 |
| 1988 | 1,849 | 922 | 6,510 | 2,117 | 86 | 14 |
| 1989 | 1,866 | 972 | 13,206 | 4,211 | 86 | 14 |
| 1990 | 1,878 | 975 | 15,478 | 4,489 | 87 | 13 |
| 1991 | 1,887 | 958 | 11,787 | 3,737 | 86 | 14 |
| 1992 | 1,889 | 969 | 14,749 | 4,112 | 87 | 13 |
| 1993 | 1,881 | 971 | 18,768 | 5,310 | 87 | 13 |
| 1994 | 1,882 | 946 | 16,535 | 4,332 | 88 | 12 |
| 1995 | 1,921 | 991 | 20,049 | 5,700 | 87 | 13 |
| 1996 | 1,890 | 942 | 13,498 | 4,329 | 86 | 14 |
| 1997 | 1,881 | 924 | 5,286 | 2,302 | 82 | 18 |
| 1998 | 1,859 | 901 | 4,272 | 2,205 | 80 | 20 |
| 1999 | 1,849 | 924 | 11,281 | 5,128 | 81 | 19 |
| 2000 | 1,819 | 919 | 8,847 | 4,062 | $81^{\text {a }}$ | $19^{\text {a }}$ |
| 2001 | 1,562 | 831 | 6,950 | 3,441 | $79^{\text {a }}$ | $21^{\text {a }}$ |
| 2002 | 1,174 | 678 | 7,022 | 3,126 | $80^{\text {a }}$ | $20^{\text {a }}$ |
| 2003 | 1,415 | 757 | 7,968 | 3,973 | $79^{\text {a }}$ | $21^{\text {a }}$ |
| 2004 | 1,411 | 794 | 13,978 | 4,822 | $84^{\text {a }}$ | $16^{\text {a }}$ |
| 2005 | 1,439 | 821 | 13,461 | 5,224 | $82^{\text {a }}$ | $18^{\text {a }}$ |
| 2006 | 1,466 | 837 | 14,714 | 4,492 | $85^{\text {a }}$ | $15^{\text {a }}$ |
| 2007 | 1,461 | 827 | 15,815 | 5,876 | $83^{\text {a }}$ | $17^{\text {a }}$ |
| 2008 | 1,455 | 842 | 15,021 | 5,717 | $82^{\text {a }}$ | $18^{\text {a }}$ |
| 2009 | 1,435 | 837 | 17,102 | 6,656 | $81^{\text {a }}$ | $19^{\text {a }}$ |
| 2010 | 1,482 | 851 | 14,711 | 6,110 | $81^{\text {a }}$ | $19^{\text {a }}$ |
| 2011 | 1,516 | 865 | 11,558 | 4,417 | $82^{\text {a }}$ | $18^{\text {a }}$ |
| $2012{ }^{\text {b }}$ | 1,460 | 839 | 11,503 | 4,431 | $82^{\text {a }}$ | $18^{\text {a }}$ |
| 1965-2012Avg. | 1,610 | 766 | 9,903 | 3,318 | 86 | 14 |
| 20 year Avg. | 1,613 | 865 | 12,417 | 4,583 | 83 | 17 |
| 10 year Avg. | 1,454 | 827 | 13,583 | 5,172 | 82 | 18 |
| 1978-1997 Avg. | 1,828 | 896 | 12,061 | 3,580 | 87 | 13 |
| 1998-2012 Avg. | 1,520 | 835 | 11,614 | 4,645 | $81^{\text {a }}$ | $19^{\text {a }}$ |
| 2009-2012 Avg. | 1,473 | 848 | 13,719 | 5,404 | $82^{\text {a }}$ | $18^{\text {a }}$ |

a Preliminary data.
b June 1 to July 17.

Table 5.-Average harvest in numbers of sockeye salmon by gear type and district, 1984-2012.

| Average harvest in numbers of sockeye salmon (per permit) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Naknek | vichak | Egegik |  | Ugashik |  | Nushagak |  | Togiak |  |
|  | Drift | Set | Drift | Set | Drift | Set | Drift | Set | Drift | Set |
| 1984 | 12,009 | 4,272 | 8,293 | 2,417 | 7,847 | 3,811 | 2,887 | 1,277 | 1,107 | 1,159 |
| 1985 | 6,042 | 1,786 | 7,538 | 3,017 | 8,205 | 3,862 | 2,057 | 1,804 | 459 | 509 |
| 1986 | 2,759 | 2,907 | 5,174 | 2,345 | 5,748 | 2,767 | 2,713 | 2,445 | 1,438 | 980 |
| 1987 | 4,034 | 2,231 | 5,242 | 2,429 | 3,193 | 1,676 | 4,368 | 2,493 | 1,579 | 540 |
| 1988 | 2,969 | 1,320 | 5,847 | 2,007 | 2,393 | 1,972 | 2,488 | 1,415 | 1,658 | 1,389 |
| 1989 | 10,062 | 4,245 | 8,081 | 4,344 | 4,995 | 6,062 | 3,877 | 4,094 | 355 | 417 |
| 1990 | 10,951 | 4,723 | 9,750 | 4,140 | 4,595 | 2,953 | 5,321 | 3,360 | 1,787 | 922 |
| 1991 | 8,560 | 3,214 | 9,241 | 3,000 | 6,291 | 5,290 | 8,171 | 3,968 | 1,556 | 2,142 |
| 1992 | 8,552 | 2,951 | 15,057 | 6,778 | 5,956 | 4,955 | 3,808 | 3,255 | 1,619 | 2,379 |
| 1993 | 8,945 | 4,319 | 16,850 | 6,885 | 6,189 | 5,914 | 7,663 | 5,007 | 1,883 | 2,336 |
| 1994 | 12,755 | 5,518 | 9,123 | 3,640 | 8,484 | 4,522 | 5,312 | 3,305 | 1,222 | 1,661 |
| 1995 | 15,120 | 6,626 | 13,744 | 6,744 | 5,725 | 3,313 | 7,555 | 4,606 | 1,801 | 2,618 |
| 1996 | 8,941 | 4,055 | 10,420 | 5,355 | 6,695 | 4,151 | 8,046 | 3,971 | $1,750^{\text {b }}$ | 2,309 ${ }^{\text {b }}$ |
| 1997 | 764 | 522 | 6,836 | 3,984 | 2,594 | 2,862 | 3,033 | 2,630 | $1,250^{\text {b }}$ | $1,024^{\text {b }}$ |
| $1998{ }^{\text {a }}$ | 2,053 | 1,165 | 3,140 | 2,287 | 1,373 | 1,696 | 3,322 | 2,931 | $13,290^{\text {b }}$ | $1,317^{\text {b }}$ |
| $1999{ }^{\text {a }}$ | 7,310 | 4,313 | 7,765 | 5,490 | 3,669 | 4,063 | 8,674 | 5,314 | 1,344 ${ }^{\text {b }}$ | 2,364 ${ }^{\text {b }}$ |
| $2000^{\text {a }}$ | 4,978 | 2,579 | 7,216 | 5,387 | 2,572 | 3,519 | 7,514 | 4,658 | 2, $449^{\text {b }}$ | 3,874 ${ }^{\text {b }}$ |
| $2001{ }^{\text {a }}$ | 7,384 | 4,750 | 3,736 | 2,188 | 1,286 | 1,978 | 4,696 | 3,545 | 3,154 ${ }^{\text {b }}$ | 3,337 ${ }^{\text {b }}$ |
| $2002^{\text {a }}$ | 2,686 | 2,149 | 9,019 | 4,781 | 3,601 | 5,314 | 4,320 | 3,228 | 1,511 ${ }^{\text {b }}$ | $1,559{ }^{\text {b }}$ |
| $2003^{\text {a }}$ | 4,561 | 4,525 | 3,178 | 2,542 | 3,444 | 3,942 | 9,177 | 4,734 | $3,182^{\text {b }}$ | 3,553 ${ }^{\text {b }}$ |
| $2004{ }^{\text {a, c }}$ | 8,186 | 3,188 | 13,727 | 8,369 | 7,480 | 8,045 | 11,698 | 4,319 | 2,373 ${ }^{\text {b }}$ | 2,708 ${ }^{\text {b }}$ |
| $2005^{\text {a }}$ | 7,678 | 5,053 | 10,534 | 7,916 | 4,767 | 4,544 | 8,967 | 4,376 | 2,921 ${ }^{\text {b }}$ | 2,859 ${ }^{\text {b }}$ |
| $2006{ }^{\text {a }}$ | 7,596 | 3,403 | 11,099 | 5,945 | 7,166 | 3,661 | 13,834 | 5,693 | 4,165 ${ }^{\text {b }}$ | 3,908 ${ }^{\text {b }}$ |
| $2007^{\text {a }}$ | 11,157 | 5,825 | 11,006 | 5,229 | 10,114 | 7,080 | 9,940 | 7,159 | 4,532 ${ }^{\text {b }}$ | 4,307 ${ }^{\text {b }}$ |
| $2008^{\text {a }}$ | 11,438 | 6,805 | 15,727 | 5,931 | 7,144 | 3,412 | 10,182 | 5,759 | 2,939 ${ }^{\text {b }}$ | 3,616 ${ }^{\text {b }}$ |
| $2009{ }^{\text {a }}$ | 11,523 | 6,204 | 17,346 | 8,528 | 7,710 | 6,037 | 12,164 | 7,099 | 2,696 ${ }^{\text {b }}$ | $3,171^{\text {b }}$ |
| $2010^{\text {a }}$ | 9,585 | 7,347 | 5,979 | 4,227 | 9,896 | 6,981 | 12,191 | 6,981 | 4,557 ${ }^{\text {b }}$ | $3,547^{\text {b }}$ |
| $2011{ }^{\text {a }}$ | 8,492 | 5,549 | 5,559 | 3,979 | 5,721 | 5,808 | 8,465 | 3,888 | 3,270 ${ }^{\text {b }}$ | 3,610 ${ }^{\text {b }}$ |
| 2012 ${ }^{\text {a, } \text { c }}$ | 11,719 | 5,301 | 7,228 | 4,293 | 6,374 | 4,730 | 3,211 | 3,845 | $3,562^{\text {b }}$ | 2,733 ${ }^{\text {b }}$ |
| 1984-1997 Avg. | 8,033 | 3,478 | 9,371 | 4,078 | 5,636 | 3,865 | 4,807 | 3,116 | 1,390 | 1,456 |
| 1998-2012 Avg. | 7,756 | 4,544 | 8,817 | 5,140 | 5,488 | 4,721 | 8,557 | 4,902 | 3,730 | 3,098 |
| 2003-2012 Avg. | 9,193 | 5,320 | 10,138 | 5,696 | 6,982 | 5,424 | 9,983 | 5,385 | 3,467 ${ }^{\text {d }}$ | 2,929 ${ }^{\text {d }}$ |
| 2009-2012 Avg. | 10,329 | 6,100 | 9,028 | 5,257 | 7,425 | 5,889 | 9,008 | 5,453 | 3,521 | 3,265 |

Note: Averages prior to 1998 are computed using the total effort listed in Table 1.
a Data from 1998 to 2003, for Naknek-Kvichak, Egegik, Ugashik, and Nushagak districts, are for the allocation periods only.
b Averages for the superexclusive periods only: 1996-1999 from June 1 through July 24; 2000-2001 from June 1 through July 20; 2002-2009 from June 1 through July 23; and from 2010 to 2012 from June 1 to July 27.
c Preliminary data.
d 1996 to 2012 average.

Table 6.-Naknek-Kvichak District sockeye salmon harvest in percent and numbers by gear type, 1965-2012.

| Year | Percentage of harvest by gear type |  | Harvest in numbers by gear type (1,000s) |  | Season total harvest |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift | Set | Drift | Set | (1,000s) |
| 1965 | 95 | 5 | 18,206 | 964 | 19,170 |
| 1966 | 93 | 7 | 5,040 | 358 | 5,398 |
| 1967 | 90 | 10 | 2,115 | 223 | 2,338 |
| 1968 | 89 | 11 | 1,085 | 132 | 1,217 |
| 1969 | 91 | 9 | 4,250 | 405 | 4,655 |
| 1970 | 96 | 4 | 16,757 | 724 | 17,481 |
| 1971 | 93 | 7 | 5,426 | 431 | 5,857 |
| 1972 | 96 | 4 | 1,062 | 40 | 1,102 |
| 1973 | 88 | 12 | 149 | 20 | 169 |
| 1974 | 82 | 18 | 439 | 99 | 538 |
| 1975 | 94 | 6 | 2,888 | 198 | 3,086 |
| 1976 | 93 | 7 | 2,363 | 184 | 2,547 |
| 1977 | 90 | 10 | 1,956 | 211 | 2,167 |
| 1978 | 91 | 9 | 4,651 | 473 | 5,124 |
| 1979 | 90 | 10 | 13,548 | 1,443 | 14,991 |
| 1980 | 88 | 12 | 12,330 | 1,666 | 13,996 |
| 1981 | 89 | 11 | 9,732 | 1,261 | 10,993 |
| 1982 | 87 | 13 | 4,509 | 659 | 5,168 |
| 1983 | 92 | 8 | 19,774 | 1,785 | 21,559 |
| 1984 | 90 | 10 | 13,102 | 1,444 | 14,546 |
| 1985 | 87 | 13 | 7,154 | 1,025 | 8,179 |
| 1986 | 70 | 30 | 2,014 | 878 | 2,892 |
| 1987 | 86 | 14 | 4,272 | 714 | 4,986 |
| 1988 | 86 | 14 | 3,011 | 470 | 3,481 |
| 1989 | 89 | 11 | 12,265 | 1,545 | 13,810 |
| 1990 | 88 | 12 | 15,189 | 2,083 | 17,272 |
| 1991 | 89 | 11 | 9,322 | 1,154 | 10,476 |
| 1992 | 89 | 11 | 8,347 | 1,030 | 9,377 |
| 1993 | 84 | 16 | 7,460 | 1,447 | 8,907 |
| 1994 | 89 | 11 | 14,582 | 1,799 | 16,381 |
| 1995 | 89 | 11 | 17,948 | 2,306 | 20,254 |
| 1996 | 83 | 17 | 6,804 | 1,411 | 8,215 |
| 1997 | 73 | 27 | 420 | 157 | 577 |
| $1998{ }^{\text {a }}$ | 85 | 15 | 1,936 ${ }^{\text {a }}$ | $339{ }^{\text {a }}$ | 2,275 |
| $1999{ }^{\text {a }}$ | 85 | 15 | 7,251 ${ }^{\text {a }}$ | 1,324 ${ }^{\text {a }}$ | 8,575 |
| $2000{ }^{\text {a,b }}$ | 82 | 18 | 3,763 ${ }^{\text {a }}$ | $833^{\text {a }}$ | 4,596 |
| $2001{ }^{\text {a,b }}$ | 77 | 23 | 4,054 ${ }^{\text {a }}$ | 1,178 ${ }^{\text {a }}$ | 5,232 |
| $2002{ }^{\text {a,b }}$ | 65 | 35 | $889{ }^{\text {a }}$ | $489{ }^{\text {a }}$ | 1,378 |
| $2003{ }^{\text {a,b }}$ | 66 | 34 | 2,139 ${ }^{\text {a }}$ | 1,104 ${ }^{\text {a }}$ | 3,243 |
| $2004{ }^{\text {a }}$ | 80 | 20 | 3,561 ${ }^{\text {a }}$ | $883^{\text {a }}$ | 4,444 |
| $2005^{\text {a }}$ | 78 | 22 | 4,937 ${ }^{\text {a }}$ | 1,430 ${ }^{\text {a }}$ | 6,367 |
| $2006{ }^{\text {a }}$ | 83 | 17 | 5,021 ${ }^{\text {a }}$ | 1,014 ${ }^{\text {a }}$ | 6,035 |
| $2007^{\text {a }}$ | 81 | 19 | 6,884 ${ }^{\text {a }}$ | 1,666 ${ }^{\text {a }}$ | 8,550 |
| $2008^{\text {a }}$ | 81 | 19 | 8,121 ${ }^{\text {a }}$ | 1,919 ${ }^{\text {a }}$ | 10,040 |
| $2009{ }^{\text {a }}$ | 80 | 20 | 6,637 ${ }^{\text {a }}$ | 1,675 ${ }^{\text {a }}$ | 8,312 |
| $2010^{\text {a }}$ | 80 | 20 | 8,166 ${ }^{\text {a }}$ | 2,035 ${ }^{\text {a }}$ | 10,201 |
| $2011{ }^{\text {a }}$ | 83 | 17 | 7,337 ${ }^{\text {a }}$ | 1,465 ${ }^{\text {a }}$ | 8,802 |
| $2012{ }^{\text {a, c }}$ | 85 | 15 | 8,482 | 1,462 | 9,944 |
| 1965-2012 Avg. | 86 | 14 | 6,820 | 991 | 7,810 |
| 20-yr. Avg. | 80 | 20 | 6,320 | 1,297 | 7,616 |
| 10-yr. Avg. | 80 | 20 | 6,129 | 1,465 | 7,594 |
| 1978-1997 Avg. | 86 | 14 | 9,322 | 1,238 | 10,559 |
| 1998-2012 Avg. | 79 | 21 | 5,279 | 1,254 | 6,533 |
| 2009-2012 Avg. | 82 | 18 | 7,656 | 1,659 | 9,315 |
| Allocation | 84 | 16 |  |  |  |

[^1]Table 7.-Egegik District sockeye salmon harvest in percent and numbers by gear type, 1965-2012.

| Year | Percentage of harvest by gear type |  | Harvest in numbers by gear type ( 1,000 's) |  | Seasontotal harvest$(1,000$ 's $)$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift | Set | Drift | Set |  |
| 1965 | 83 | 17 | 2,655 | 525 | 3,180 |
| 1966 | 88 | 12 | 1,849 | 252 | 2,101 |
| 1967 | 90 | 10 | 959 | 112 | 1,071 |
| 1968 | 93 | 7 | 627 | 44 | 671 |
| 1969 | 80 | 20 | 713 | 176 | 889 |
| 1970 | 85 | 15 | 1,196 | 208 | 1,404 |
| 1971 | 87 | 13 | 1,137 | 170 | 1,307 |
| 1972 | 91 | 9 | 761 | 79 | 840 |
| 1973 | 90 | 10 | 199 | 22 | 221 |
| 1974 | 78 | 22 | 134 | 38 | 172 |
| 1975 | 90 | 10 | 867 | 97 | 964 |
| 1976 | 91 | 9 | 1,204 | 126 | 1,330 |
| 1977 | 88 | 12 | 1,564 | 217 | 1,781 |
| 1978 | 84 | 16 | 1,009 | 199 | 1,208 |
| 1979 | 78 | 22 | 1,756 | 501 | 2,257 |
| 1980 | 71 | 29 | 1,875 | 748 | 2,623 |
| 1981 | 77 | 23 | 3,349 | 1,012 | 4,361 |
| 1982 | 83 | 17 | 2,023 | 425 | 2,448 |
| 1983 | 86 | 14 | 5,805 | 953 | 6,758 |
| 1984 | 92 | 8 | 4,752 | 435 | 5,187 |
| 1985 | 93 | 7 | 6,995 | 543 | 7,538 |
| 1986 | 89 | 11 | 4,336 | 516 | 4,852 |
| 1987 | 91 | 9 | 4,859 | 497 | 5,356 |
| 1988 | 90 | 10 | 5,841 | 616 | 6,457 |
| 1989 | 90 | 10 | 7,968 | 934 | 8,902 |
| 1990 | 92 | 8 | 9,448 | 856 | 10,304 |
| 1991 | 91 | 9 | 6,164 | 633 | 6,797 |
| 1992 | 91 | 9 | 14,259 | 1,376 | 15,635 |
| 1993 | 93 | 7 | 20,035 | 1,564 | 21,599 |
| 1994 | 92 | 8 | 9,917 | 830 | 10,747 |
| 1995 | 90 | 10 | 12,988 | 1,396 | 14,384 |
| 1996 | 90 | 10 | 9,722 | 1,087 | 10,809 |
| 1997 | 87 | 13 | 6,494 | 968 | 7,462 |
| 1998 | 86 | 14 | 2,901 ${ }^{\text {a }}$ | $462{ }^{\text {a }}$ | 3,363 |
| 1999 | 85 | 15 | 6,088 ${ }^{\text {a }}$ | 1,109 ${ }^{\text {a }}$ | 7,197 |
| 2000 | 84 | 16 | 5,845 ${ }^{\text {a }}$ | $1,099^{\text {a }}$ | 6,944 |
| 2001 | 85 | 15 | 2,395 ${ }^{\text {a }}$ | $419{ }^{\text {a }}$ | 2,814 |
| 2002 | 85 | 15 | 3,814 ${ }^{\text {a }}$ | $698{ }^{\text {a }}$ | 4,512 |
| 2003 | 80 | 20 | $1,767^{\text {a }}$ | $450{ }^{\text {a }}$ | 2,217 |
| 2004 | 85 | 15 | 8,360 ${ }^{\text {a }}$ | $1,473^{\text {a }}$ | 9,833 |
| 2005 | 82 | 18 | 6,489 ${ }^{\text {a }}$ | $1,417^{\text {a }}$ | 7,906 |
| 2006 | 84 | 16 | 5,605 ${ }^{\text {a }}$ | $1,076^{\text {a }}$ | 6,681 |
| 2007 | 84 | 16 | 5,228 ${ }^{\text {a }}$ | $983{ }^{\text {a }}$ | 6,211 |
| 2008 | 85 | 15 | 6,165 ${ }^{\text {a }}$ | 1,121 ${ }^{\text {a }}$ | 7,286 |
| 2009 | 85 | 15 | 9,679 ${ }^{\text {a }}$ | $1,646^{\text {a }}$ | 11,325 |
| 2010 | 84 | 16 | 3,970 ${ }^{\text {a }}$ | $782^{\text {a }}$ | 4,752 |
| 2011 | 84 | 16 | 3,947 ${ }^{\text {a }}$ | $768{ }^{\text {a }}$ | 4,715 |
| $2012{ }^{\text {b }}$ | 83 | 17 | $4,046^{\text {a }}$ | $814^{\text {a }}$ | 4,860 |
| 1965-2012 Avg. | 86 | 14 | 4,787 | 677 | 5,463 |
| 20-yr. Avg. | 86 | 14 | 6,773 | 1,008 | 7,781 |
| 10-yr. Avg. | 84 | 16 | 5,526 | 1,053 | 6,579 |
| 1978-1997 Avg. | 87 | 13 | 6,980 | 804 | 7,784 |
| 1998-2012 Avg. | 84 | 16 | 5,087 | 954 | 6,041 |
| 2009-2012 Avg. | 84 | 16 | 5,411 | 1,003 | 6,413 |
| Allocation | 86 | 14 |  |  |  |

a Allocation accounting period: June 1 to July 17; test fishery and personal use fish are excluded.
b Preliminary data.

Table 8.-Ugashik District sockeye salmon harvest in percent and numbers by gear type, 1965-2012.

| Year | Percentage of harvest by gear type |  | Harvest in numbers by gear type ( 1,000 's) |  | Season total harvest |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift | Set | Drift | Set | (1,000's) |
| 1965 | 82 | 18 | 760 | 166 | 926 |
| 1966 | 83 | 17 | 370 | 75 | 445 |
| 1967 | 81 | 19 | 133 | 31 | 164 |
| 1968 | 80 | 20 | 66 | 16 | 82 |
| 1969 | 84 | 16 | 142 | 28 | 170 |
| 1970 | 77 | 23 | 132 | 40 | 172 |
| 1971 | 89 | 11 | 848 | 106 | 954 |
| 1972 | 28 | 72 | 5 | 13 | 18 |
| 1973 | 75 | 25 | 3 | 1 | 4 |
| 1974 | 50 | 50 | 1 | 1 | 2 |
| 1975 | 80 | 20 | 12 | 3 | 15 |
| 1976 | 90 | 10 | 158 | 17 | 175 |
| 1977 | 90 | 10 | 84 | 9 | 93 |
| 1978 | 87 | 13 | 7 | 1 | 8 |
| 1979 | 84 | 16 | 328 | 62 | 390 |
| 1980 | 88 | 12 | 778 | 108 | 886 |
| 1981 | 89 | 11 | 1,884 | 232 | 2,116 |
| 1982 | 87 | 13 | 988 | 151 | 1,139 |
| 1983 | 93 | 7 | 3,116 | 233 | 3,349 |
| 1984 | 92 | 8 | 2,456 | 202 | 2,658 |
| 1985 | 96 | 4 | 6,211 | 251 | 6,462 |
| 1986 | 95 | 5 | 4,765 | 238 | 5,003 |
| 1987 | 94 | 6 | 2,005 | 124 | 2,129 |
| 1988 | 91 | 9 | 1,383 | 140 | 1,523 |
| 1989 | 87 | 13 | 2,752 | 394 | 3,146 |
| 1990 | 91 | 9 | 1,930 | 189 | 2,119 |
| 1991 | 89 | 11 | 2,617 | 328 | 2,945 |
| 1992 | 90 | 10 | 2,984 | 332 | 3,316 |
| 1993 | 90 | 10 | 3,763 | 414 | 4,177 |
| 1994 | 93 | 7 | 4,047 | 303 | 4,350 |
| 1995 | 95 | 5 | 4,254 | 222 | 4,476 |
| 1996 | 95 | 5 | 4,191 | 220 | 4,411 |
| 1997 | 88 | 12 | 1,227 | 166 | 1,393 |
| 1998 | 85 | 15 | $442^{\text {a }}$ | $78^{\text {a }}$ | 520 |
| 1999 | 89 | 11 | 1,596 ${ }^{\text {a }}$ | $195{ }^{\text {a }}$ | 1,791 |
| 2000 | 87 | 13 | 1,322 ${ }^{\text {a }}$ | $190^{\text {a }}$ | 1,512 |
| 2001 | 80 | 20 | $364{ }^{\text {a }}$ | $91^{\text {a }}$ | 455 |
| 2002 | 88 | 12 | 1,361 ${ }^{\text {a }}$ | $186^{\text {a }}$ | 1,547 |
| 2003 | 88 | 12 | 1,505 ${ }^{\text {a }}$ | $205^{\text {a }}$ | 1,710 |
| 2004 | 91 | 9 | 2,573 ${ }^{\text {a }}$ | $254{ }^{\text {a }}$ | 2,827 |
| 2005 | 87 | 13 | $1,740^{\text {a }}$ | $259{ }^{\text {a }}$ | 1,999 |
| 2006 | 88 | 12 | 1,469 ${ }^{\text {a }}$ | $205^{\text {a }}$ | 1,674 |
| 2007 | 92 | 8 | 4,167 ${ }^{\text {a }}$ | $354{ }^{\text {a }}$ | 4,521 |
| 2008 | 92 | 8 | 2,036 ${ }^{\text {a }}$ | $174^{\text {a }}$ | 2,210 |
| 2009 | 87 | 13 | 2,128 ${ }^{\text {a }}$ | $326^{\text {a }}$ | 2,454 |
| 2010 | 90 | 10 | 3,147 ${ }^{\text {a }}$ | $363^{\text {a }}$ | 3,510 |
| 2011 | 88 | 12 | 2,237 ${ }^{\text {a }}$ | $302^{\text {a }}$ | 2,539 |
| $2012{ }^{\text {b }}$ | 90 | 10 | 2,153 ${ }^{\text {a }}$ | $245^{\text {a }}$ | 2,398 |
| 1965-2012 Avg. | 86 | 14 | 1,722 | 172 | 1,893 |
| 20-yr. Avg. | 89 | 11 | 2,286 | 238 | 2,524 |
| 10-yr. Avg. | 89 | 11 | 2,316 | 269 | 2,584 |
| 1978-1997 Avg. | 91 | 9 | 2,584 | 216 | 2,800 |
| 1998-2012 Avg. | 88 | 12 | 1,883 | 228 | 2,111 |
| 2009-2012 Avg. | 89 | 11 | 2,416 | 309 | 2,725 |
| Allocation | 90 | 10 |  |  |  |

[^2]Table 9.-Nushagak District sockeye salmon harvest in percent and numbers by gear type, 1965-2012.

| Year | Percentage of harvest by gear type |  | Harvest in numbers by gear type ( 1,000 's) |  | $\begin{gathered} \text { Season } \\ \text { total harvest } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift | Set | Drift | Set | (1,000's) |
| 1965 | 72 | 28 | 693 | 263 | 956 |
| 1966 | 72 | 28 | 840 | 331 | 1,171 |
| 1967 | 86 | 14 | 569 | 89 | 658 |
| 1968 | 90 | 10 | 674 | 75 | 749 |
| 1969 | 81 | 19 | 607 | 142 | 749 |
| 1970 | 67 | 33 | 791 | 397 | 1,188 |
| 1971 | 77 | 23 | 969 | 288 | 1,257 |
| 1972 | 92 | 8 | 352 | 30 | 382 |
| 1973 | 93 | 7 | 252 | 20 | 272 |
| 1974 | 73 | 27 | 371 | 139 | 510 |
| 1975 | 80 | 20 | 518 | 128 | 646 |
| 1976 | 85 | 15 | 1,071 | 195 | 1,266 |
| 1977 | 86 | 15 | 529 | 90 | 619 |
| 1978 | 85 | 15 | 2,666 | 471 | 3,137 |
| 1979 | 82 | 18 | 2,713 | 614 | 3,327 |
| 1980 | 85 | 15 | 3,802 | 696 | 4,498 |
| 1981 | 81 | 19 | 6,100 | 1,393 | 7,493 |
| 1982 | 90 | 10 | 5,299 | 611 | 5,910 |
| 1983 | 84 | 16 | 4,287 | 833 | 5,120 |
| 1984 | 83 | 17 | 1,660 | 332 | 1,992 |
| 1985 | 63 | 37 | 829 | 478 | 1,307 |
| 1986 | 75 | 25 | 2,032 | 687 | 2,719 |
| 1987 | 78 | 22 | 2,551 | 703 | 3,254 |
| 1988 | 75 | 25 | 1,274 | 433 | 1,707 |
| 1989 | 58 | 42 | 1,609 | 1,179 | 2,788 |
| 1990 | 67 | 33 | 2,373 | 1,149 | 3,522 |
| 1991 | 76 | 24 | 3,816 | 1,238 | 5,054 |
| 1992 | 65 | 35 | 1,820 | 970 | 2,790 |
| 1993 | 72 | 28 | 3,755 | 1,482 | 5,237 |
| 1994 | 71 | 29 | 2,418 | 975 | 3,393 |
| 1995 | 68 | 32 | 3,007 | 1,437 | 4,444 |
| 1996 | 81 | 19 | 4,586 | 1,104 | 5,690 |
| 1997 | 70 | 30 | 1,750 | 747 | 2,497 |
| 1998 | 72 | 28 | 2,122 ${ }^{\text {b }}$ | $809{ }^{\text {b }}$ | 2,931 |
| 1999 | 73 | 27 | 4,285 ${ }^{\text {b }}$ | 1,557 ${ }^{\text {b }}$ | 5,842 |
| 2000 | 78 | 22 | 4,944 ${ }^{\text {b }}$ | 1,374 ${ }^{\text {b }}$ | 6,318 |
| 2001 | 79 | 21 | $3,710^{\text {b }}$ | $982^{\text {b }}$ | 4,692 |
| 2002 | 75 | 25 | 2,117 ${ }^{\text {b }}$ | $694{ }^{\text {b }}$ | 2,811 |
| 2003 | 84 | 16 | 5,589 ${ }^{\text {b }}$ | 1,051 ${ }^{\text {b }}$ | 6,640 |
| 2004 | 84 | 16 | 5,077 ${ }^{\text {b }}$ | $989{ }^{\text {b }}$ | 6,066 |
| 2005 | 85 | 15 | 6,008 ${ }^{\text {b }}$ | 1,024 ${ }^{\text {b }}$ | 7,032 |
| 2006 | 88 | 12 | 9,324 ${ }^{\text {b }}$ | 1,298 ${ }^{\text {b }}$ | 10,622 |
| 2007 | 80 | 20 | 6,620 ${ }^{\text {b }}$ | 1,668 ${ }^{\text {b }}$ | 8,288 |
| 2008 | 79 | 21 | 5,366 ${ }^{\text {b }}$ | 1,434 ${ }^{\text {b }}$ | 6,800 |
| 2009 | 77 | 23 | 5,875 ${ }^{\text {b }}$ | 1,796 ${ }^{\text {b }}$ | 7,671 |
| 2010 | 77 | 23 | 6,327 ${ }^{\text {b }}$ | 1,885 ${ }^{\text {b }}$ | 8,212 |
| 2011 | 77 | 23 | 3,733 ${ }^{\text {b }}$ | $1,108{ }^{\text {b }}$ | 4,841 |
| $2012^{\text {a }}$ | 63 | 37 | 1,693 ${ }^{\text {a,b }}$ | $992^{\text {a,b }}$ | 2,685 |
| 1965-2012 Avg. | 78 | 22 | 2,904 | 800 | 3,703 |
| 20-yr. Avg. | 77 | 23 | 4,415 | 1,220 | 5,636 |
| 10-yr. Avg. | 79 | 21 | 5,561 | 1,325 | 6,886 |
| 1978-1997 Avg. | 75 | 25 | 2,917 | 877 | 3,794 |
| 1998-2012 Avg. | 78 | 22 | 4,853 | 1244 | 6097 |
| 2009-2012 Avg. | 73 | 27 | 4,407 | 1,445 | 5,852 |
| Allocation | 74 | 26 |  |  |  |

[^3]Table 10.-Togiak District sockeye salmon harvest in percent and numbers by gear type, 1965-2012.

| Year | Percentage of harvest by gear type |  | Harvest in numbers by gear type (1,000s) |  | Season total harvest |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift | Set | Drift | Set | (1,000s) |
| 1965 | 100 | 0 | 261 | 0 | 261 |
| 1966 | 98 | 3 | 195 | 5 | 200 |
| 1967 | 95 | 5 | 95 | 5 | 100 |
| 1968 | 99 | 1 | 72 | 1 | 73 |
| 1969 | 99 | 1 | 133 | 2 | 135 |
| 1970 | 99 | 1 | 153 | 1 | 154 |
| 1971 | 100 | 0 | 208 | 1 | 209 |
| 1972 | 100 | 0 | 75 | 0 | 75 |
| 1973 | 99 | 1 | 95 | 1 | 96 |
| 1974 | 91 | 9 | 127 | 12 | 139 |
| 1975 | 92 | 8 | 174 | 15 | 189 |
| 1976 | 92 | 8 | 277 | 25 | 302 |
| 1977 | 89 | 11 | 196 | 23 | 219 |
| 1978 | 84 | 16 | 378 | 74 | 452 |
| 1979 | 82 | 18 | 376 | 85 | 461 |
| 1980 | 83 | 17 | 528 | 107 | 635 |
| 1981 | 79 | 21 | 503 | 136 | 639 |
| 1982 | 84 | 16 | 500 | 96 | 596 |
| 1983 | 80 | 20 | 468 | 120 | 588 |
| 1984 | 77 | 23 | 249 | 73 | 322 |
| 1985 | 74 | 26 | 157 | 54 | 211 |
| 1986 | 68 | 32 | 210 | 99 | 309 |
| 1987 | 67 | 33 | 229 | 114 | 343 |
| 1988 | 64 | 36 | 529 | 293 | 822 |
| 1989 | 55 | 45 | 49 | 40 | 89 |
| 1990 | 64 | 36 | 126 | 71 | 197 |
| 1991 | 59 | 41 | 322 | 227 | 549 |
| 1992 | 62 | 38 | 450 | 276 | 726 |
| 1993 | 54 | 46 | 290 | 250 | 540 |
| 1994 | 52 | 48 | 209 | 191 | 400 |
| 1995 | 52 | 48 | 317 | 288 | 605 |
| 1996 | 45 | 55 | 207 | 255 | 462 |
| 1997 | 37 | 63 | 53 | 90 | 143 |
| 1998 | 43 | 57 | 82 | 108 | 190 |
| 1999 | 53 | 47 | 203 | 182 | 385 |
| 2000 | 58 | 42 | 458 | 337 | 795 |
| 2001 | 66 | 34 | 533 | 277 | 810 |
| 2002 | 61 | 39 | 142 | 92 | 234 |
| 2003 | 62 | 38 | 436 | 270 | 706 |
| 2004 | 55 | 45 | 241 | 195 | 436 |
| 2005 | 62 | 38 | 260 | 159 | 419 |
| 2006 | 53 | 47 | 329 | 297 | 626 |
| 2007 | 60 | 40 | 494 | 323 | 817 |
| 2008 | 59 | 41 | 388 | 264 | 652 |
| 2009 | 60 | 40 | 337 | 222 | 560 |
| 2010 | 60 | 40 | 401 | 266 | 668 |
| 2011 | 60 | 40 | 448 | 296 | 744 |
| $2012^{\text {a }}$ | 67 | 33 | 421 | 205 | 626 |
| 1965-2012 Avg. | 72 | 28 | 279 | 136 | 415 |
| 20-yr. Avg. | 56 | 44 | 312 | 228 | 541 |
| 10-yr. Avg. | 60 | 40 | 376 | 250 | 625 |

a Preliminary data.

Table 11.-Nushagak District sockeye salmon harvest by gear type, in numbers of fish and percent of total catch, 1978-2012.

| Year | Setnet |  |  |  |  |  | Drift Net |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Igushik Section |  | Nushagak Section |  | Combined | Sections |  |  |  |
| 1978 | 83,414 | 3\% | 387,730 | 12\% | 471,144 | 15\% | 2,666,022 | 85\% | 3,137,166 |
| 1979 | 106,010 | 3\% | 508,219 | 15\% | 614,229 | 18\% | 2,712,883 | 82\% | 3,327,112 |
| 1980 | 113,149 | 3\% | 582,873 | 13\% | 696,022 | 15\% | 3,801,765 | 85\% | 4,497,787 |
| 1981 | 236,129 | 3\% | 1,157,209 | 15\% | 1,393,338 | 19\% | 6,099,755 | 81\% | 7,493,093 |
| 1982 | 131,468 | 2\% | 479,496 | 8\% | 610,964 | 10\% | 5,298,763 | 90\% | 5,909,727 |
| 1983 | 145,225 | 3\% | 687,885 | 13\% | 833,110 | 16\% | 4,286,634 | 84\% | 5,119,744 |
| 1984 | 46,485 | 2\% | 285,712 | 14\% | 332,197 | 17\% | 1,660,484 | 83\% | 1,992,681 |
| 1985 | 101,435 | 8\% | 377,485 | 29\% | 478,920 | 37\% | 828,341 | 63\% | 1,307,261 |
| 1986 | 154,013 | 6\% | 533,479 | 20\% | 687,492 | 25\% | 2,031,821 | 75\% | 2,719,313 |
| 1987 | 138,889 | 4\% | 564,517 | 17\% | 703,406 | 22\% | 2,551,314 | 78\% | 3,254,720 |
| 1988 | 56,557 | 3\% | 376,479 | 22\% | 433,036 | 25\% | 1,273,680 | 75\% | 1,706,716 |
| 1989 | 238,887 | 9\% | 940,396 | 34\% | 1,179,283 | 42\% | 1,608,911 | 58\% | 2,788,194 |
| 1990 | 327,564 | 9\% | 820,982 | 23\% | 1,148,546 | 33\% | 2,373,108 | 67\% | 3,521,654 |
| 1991 | 401,066 | 8\% | 836,669 | 17\% | 1,237,735 | 24\% | 3,816,110 | 76\% | 5,053,845 |
| 1992 | 130,827 | 5\% | 839,067 | 30\% | 969,894 | 35\% | 1,819,601 | 65\% | 2,789,495 |
| 1993 | 308,812 | 6\% | 1,173,445 | 22\% | 1,482,257 | 28\% | 3,754,665 | 72\% | 5,236,922 |
| 1994 | 242,273 | 7\% | 732,939 | 22\% | 975,212 | 29\% | 2,417,451 | 71\% | 3,392,663 |
| 1995 | 492,937 | 11\% | 944,230 | 21\% | 1,437,167 | 32\% | 3,007,308 | 68\% | 4,444,475 |
| 1996 | 258,903 | 5\% | 845,498 | 15\% | 1,104,401 ${ }^{\text {a }}$ | 19\% | 4,585,957 | 81\% | 5,690,358 |
| 1997 | 28,887 | 1\% | 718,098 | 29\% | 746,985 ${ }^{\text {a }}$ | 30\% | 1,750,466 | 70\% | 2,497,451 |
| 1998 | 116,398 | 4\% | 714,055 | 24\% | 830,453 ${ }^{\text {a }}$ | 28\% | 2,148,148 | 72\% | 2,978,601 |
| 1999 | 247,496 | 4\% | 1,454,335 | 24\% | 1,701,831 ${ }^{\text {a }}$ | 28\% | 4,464,182 | 72\% | 6,166,013 |
| 2000 | 247,744 | 4\% | 1,147,339 | 18\% | 1,395,083 ${ }^{\text {a }}$ | 22\% | 4,960,106 | 78\% | 6,355,189 |
| 2001 | 198,699 | 4\% | 794,860 | 17\% | 993,559 | 21\% | 3,717,640 | 79\% | 4,711,199 |
| 2002 | 22,786 | 1\% | 671,531 | 24\% | 694,317 ${ }^{\text {a }}$ | 25\% | 2,119,065 | 75\% | 2,813,382 |
| 2003 | 132,053 | 2\% | 926,975 | 14\% | 1,059,028 | 16\% | 5,589,371 | 84\% | 6,648,399 |
| 2004 | 74,080 | 1\% | 934,420 | 15\% | 1,008,500 | 17\% | 5,082,559 | 83\% | 6,091,059 |
| 2005 | 130,972 | 2\% | 929,188 | 13\% | 1,060,160 | 15\% | 6,035,871 | 85\% | 7,096,031 |
| 2006 | 178,262 | 2\% | 1,210,390 | 11\% | 1,388,652 | 13\% | 9,477,766 | 87\% | 10,866,418 |
| 2007 | 241,913 | 3\% | 1,472,768 | 18\% | 1,714,681 | 20\% | 6,684,751 | 80\% | 8,399,432 |
| 2008 | 335,249 | 5\% | 1,154,107 | 17\% | 1,489,356 | 22\% | 5,390,882 | 78\% | 6,880,238 |
| 2009 | 314,479 | 3\% | 1,506,380 | 16\% | 1,820,859 | 24\% | 5,894,923 | 76\% | 7,715,782 |
| 2010 | 399,750 | 4\% | 1,576,420 | 13\% | 1,976,170 | 20\% | 6,439,343 | 77\% | 8,415,513 |
| 2011 | 365,596 | 8\% | 776,628 | 17\% | 1,142,224 ${ }^{\text {a }}$ | 25\% | 3,743,066 | 75\% | 4,885,290 |
| $2012{ }^{\text {b }}$ | 162,110 | 6\% | 729,494 | 27\% | 891,604 ${ }^{\text {a }}$ | 33\% | 1,810,226 | 67\% | 2,701,830 |
| 1978-1997 Avg. | 187,147 | 5\% | 689,620 | 20\% | 876,767 | 25\% | 2,917,252 | 75\% | 3,794,019 |
| 20-yr. Avg. | 224,970 | 4\% | 1,020,655 | 19\% | 1,245,625 | 23\% | 4,453,687 | 77\% | 5,699,312 |
| 10-yr. Avg. | 233,446 | 4\% | 1,121,677 | 16\% | 1,355,123 | 20\% | 5,614,876 | 79\% | 6,969,999 |
| 1998-2012 Avg. | 211,172 | 3\% | 1,066,593 | 18\% | 1,277,765 | 22\% | 4,903,860 | 78\% | 6,181,625 |
| 2009-2012 Avg. | 310,484 | 5\% | 1,147,231 | 18\% | 1,457,714 | 25\% | 4,471,890 | 74\% | 5,929,604 |

[^4]Table 12.-Nushagak District sockeye salmon harvest by gear type, in numbers of fish and percent of the total harvest through the allocation period, 1998-2012.

| Year | Drift Nushagak District |  | Setnet |  |  |  |  |  | Wood River Special Harvest |  |  |  | Nushagak District Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Nushagak Section |  | Igushik Section |  | Combined Section |  | Drift Net |  | Setnet |  |  |
| $1998{ }^{\text {a }}$ | 2,007,865 | 72\% | 676,264 | 24\% | 116,398 | 4\% | 792,662 | 28\% | 140,283 | 79\% | 37,791 | 21\% | 2,978,601 |
| $1999{ }^{\text {a }}$ | 2,929,091 | 69\% | 1,053,905 | 25\% | 247,496 | 6\% | 1,301,401 | 31\% | 1,535,091 | 79\% | 400,430 | 21\% | 6,166,013 |
| $2000^{\text {b }}$ | 4,083,873 | 80\% | 752,121 | 15\% | 245,583 | 5\% | 997,704 | 20\% | 859,825 | 70\% | 376,417 | 30\% | 6,317,819 |
| $2001{ }^{\text {b }}$ | 3,710,188 | 79\% | 783,242 | 17\% | 198,699 | 4\% | 981,941 | 21\% |  |  |  |  | 4,692,129 |
| $2002{ }^{\text {b }}$ | 1,749,286 | 78\% | 483,566 | 21\% | 22,786 | 1\% | 506,352 | 22\% | 368,212 | 66\% | 187,161 | 34\% | 2,811,011 |
| $2003{ }^{\text {b }}$ | 5,588,718 | 84\% | 919,595 | 14\% | 130,977 | 2\% | 1,050,572 | 16\% |  |  |  |  | 6,639,290 |
| $2004{ }^{\text {b }}$ | 5,076,849 | 84\% | 914,710 | 15\% | 74,080 | 1\% | 988,790 | 16\% |  |  |  |  | 6,065,639 |
| $2005^{\text {b }}$ | 6,007,737 | 85\% | 893,364 | 13\% | 130,972 | 2\% | 1,024,336 | 15\% |  |  |  |  | 7,032,073 |
| $2006{ }^{\text {b }}$ | 9,323,622 | 88\% | 1,121,198 | 11\% | 177,110 | 2\% | 1,298,308 | 12\% |  |  |  |  | 10,621,930 |
| $2007{ }^{\text {b }}$ | 6,619,684 | 80\% | 1,432,765 | 17\% | 235,271 | 3\% | 1,668,036 | 20\% |  |  |  |  | 8,287,720 |
| $2008{ }^{\text {b }}$ | 5,366,333 | 79\% | 1,115,275 | 16\% | 319,114 | 5\% | 1,434,389 | 21\% |  |  |  |  | 6,800,722 |
| $2009{ }^{\text {b }}$ | 5,875,016 | 77\% | 1,483,308 | 19\% | 312,952 | 4\% | 1,796,260 | 23\% |  |  |  |  | 7,671,276 |
| $2010^{\text {b }}$ | 5,644,975 | 77\% | 1,239,745 | 17\% | 399,750 | 5\% | 1,639,495 | 23\% | 794,368 | 70\% | 336,693 | 30\% | 8,415,531 |
| $2011{ }^{\text {b }}$ | 3,731,405 | 77\% | 758,198 | 16\% | 352,039 | 7\% | 1,110,237 | 23\% |  |  |  |  | 4,841,642 |
| 2012 ${ }^{\text {b, c }}$ | 1,511,369 | 64\% | 684,853 | 29\% | 170,837 | 7\% | 855,690 | 36\% | 181,806 | 57\% | 134,818 | 43\% | 2,683,683 |
| 2009-2012 Avg. | 4,190,691 | 74\% | 1,041,526 | 20\% | 308,895 | 6\% | 1,350,421 | 26\% | 725,853 | 64\% | 250,450 | 36\% | 5,903,033 |
| Allocation |  | 74\% |  | 20\% |  | 6\% |  | 26\% |  | 74\% |  | 26\% |  |

[^5]${ }^{\text {a }}$ Allocation period: June 1 to September 30.
b Allocation period: June 1 to July 17.
c Preliminary data.

Table 13.-Naknek-Kvichak District sockeye salmon harvest by gear type, in numbers of fish and percent of total catch, 1985-2012.

| Year | Setnet |  |  |  |  |  | Drift Net |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Naknek Section |  | Kvichak Section |  | Combined Sections |  |  |  |  |
| 1985 | 556,969 | 7\% | 84,078 | 1\% | 641,047 | 8\% | 7,144,809 | 92\% | 7,785,856 |
| 1986 | 557,705 | 36\% | 19,992 | 1\% | 577,697 | 37\% | 971,066 | 63\% | 1,548,763 |
| 1987 | 312,400 | 6\% | 296,197 | 6\% | 608,597 | 12\% | 4,272,334 | 88\% | 4,880,931 |
| 1988 | 214,059 | 6\% | 255,936 | 7\% | 469,995 | 14\% | 3,010,841 | 86\% | 3,480,836 |
| 1989 | 663,558 | 5\% | 881,849 | 6\% | 1,545,407 | 11\% | 12,264,549 | 89\% | 13,809,956 |
| 1990 | 1,045,752 | 6\% | 1,034,462 | 6\% | 2,080,214 | 12\% | 15,189,248 | 88\% | 17,269,462 |
| 1991 | 655,722 | 6\% | 496,732 | 5\% | 1,152,454 | 11\% | 9,321,417 | 89\% | 10,473,871 |
| 1992 | 779,371 | 8\% | 262,147 | 3\% | 1,041,518 | 11\% | 8,441,331 | 89\% | 9,482,849 |
| 1993 | 825,331 | 9\% | 569,432 | 6\% | 1,394,763 | 16\% | 7,513,113 | 84\% | 8,907,876 |
| 1994 | 556,696 | 3\% | 1,261,049 | 8\% | 1,817,745 | 11\% | 14,529,192 | 89\% | 16,346,937 |
| 1995 | 992,429 | 5\% | 1,313,263 | 6\% | 2,305,692 | 11\% | 17,973,847 | 89\% | 20,279,539 |
| 1996 | 824,221 | 10\% | 249,069 | 3\% | 1,073,290 | 14\% | 6,800,835 | 86\% | 7,874,125 |
| 1997 | 127,203 | 22\% | 29,752 | 5\% | 156,955 | 27\% | 432,356 | 73\% | 589,311 |
| 1998 | 210,998 | 8\% | 219,055 | 9\% | 430,053 | 17\% | 2,109,144 | 83\% | 2,539,197 |
| 1999 | 782,727 | 8\% | 625,526 | 7\% | 1,408,253 | 15\% | 7,972,244 | 85\% | 9,380,497 |
| 2000 | 447,011 | 10\% | 204,730 | 4\% | 854,855 ${ }^{\text {a }}$ | 18\% | 3,833,644 | 82\% | 4,688,499 |
| 2001 | 368,665 | 7\% | 50,428 | 1\% | 1,189,144 ${ }^{\text {a }}$ | 23\% | 4,056,909 | 77\% | 5,246,053 |
| 2002 | 491,302 | 36\% | 0 | 0\% | 491,302 ${ }^{\text {a }}$ | 36\% | 892,578 | 64\% | 1,383,880 |
| 2003 | 1,119,840 | 26\% | 0 | 0\% | 2,170,692 ${ }^{\text {a }}$ | 50\% | 2,170,692 | 50\% | 4,341,384 |
| 2004 | 539,043 | 12\% | 369,410 | 8\% | 908,453 ${ }^{\text {a }}$ | 20\% | 3,620,332 | 80\% | 4,528,785 |
| 2005 | 1,144,301 | 17\% | 336,300 | 5\% | $1,480,601^{\text {a,b }}$ | 22\% | 5,245,664 | 78\% | 6,726,265 |
| 2006 | 902,848 | 13\% | 244,573 | 3\% | 1,147,421 ${ }^{\text {a,b }}$ | 16\% | 5,989,891 | 84\% | 7,137,312 |
| 2007 | 1,415,937 | 16\% | 342,617 | 4\% | $1,758,554^{\text {a,b }}$ | 20\% | 7,239,794 | 80\% | 8,998,348 |
| 2008 | 1,240,840 | 12\% | 717,623 | 7\% | 1,958,463 | 19\% | 8,372,454 | 81\% | 10,330,917 |
| $2009{ }^{\text {c }}$ | 1,041,430 | 12\% | 694,287 | 8\% | 1,735,717 | 20\% | 6,942,869 | 80\% | 8,678,586 |
| 1985-1997 Avg. | 623,955 | 10\% | 519,535 | 5\% | 1,143,490 | 15\% | 8,297,303 | 85\% | 9,440,793 |
| 1998-2009 Avg. | 808,745 | 15\% | 317,046 | 5\% | 1,294,459 | 23\% | 4,870,518 | 77\% | 6,164,977 |
| 2007-2009 Avg. | 1,232,736 | 13\% | 584,842 | 6\% | 1,817,578 | 20\% | 7,518,372 | 80\% | 9,335,950 |
| Allocation |  | 8\% |  | 8\% |  | 16\% |  | 84\% |  |

${ }^{\text {a }}$ Includes Naknek inriver harvest.
b Includes Alagnak inriver harvest.
c Preliminary data.

Table 14.-Naknek/Kvichak District sockeye salmon harvest by gear type, in numbers of fish and percent of total harvest through the allocation period, 1998-2009.

| Year | Drift |  | Setnet |  |  |  |  |  | Naknek River Special Harvest |  |  |  | District <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Naknek/Kvichak District ${ }^{\text {a }}$ |  | Naknek Section |  | Kvichak Section |  | Combined Section ${ }^{\text {b }}$ |  | Drift Net |  | Setnet |  |  |
| $1998{ }^{\text {c }}$ | 1,936,407 | 85\% | 163,577 | 7\% | 175,764 | 8\% | 339,341 | 15\% |  |  |  |  | 2,275,748 |
| $1999{ }^{\text {c }}$ | 7,082,144 | 83\% | 732,219 | 9\% | 592,222 | 7\% | 1,324,441 | 16\% | 132,864 | 2\% |  |  | 8,539,449 |
| $2000^{\text {c }}$ | 3,002,804 | 65\% | 443,043 | 10\% | 192,483 | 4\% | 635,526 | 14\% | 760,630 | 17\% | 197,717 | 4\% | 4,596,677 |
| $2001{ }^{\text {c }}$ | 1,906,298 | 36\% | 363,200 | 7\% | 50,428 | 1\% | 413,628 | 8\% | 2,147,633 | 41\% | 764,312 | 15\% | 5,231,871 |
| $2002{ }^{\text {c,d }}$ |  |  |  |  |  |  |  |  | 888,978 | 64\% | 489,701 | 36\% | 1,378,679 |
| $2003{ }^{\text {c }}$ | 185,558 | 6\% | 21,273 | 1\% | 0 |  | 21,273 | 1\% | 1,953,645 | 60\% | 1,083,201 | 33\% | 3,243,677 |
| $2004{ }^{\text {c }}$ | 2,673,778 | 60\% | 393,118 | 9\% | 369,410 | 8\% | 762,528 | 17\% | 887,347 | 20\% | 120,351 | 3\% | 4,444,004 |
| $2005^{\text {c }}$ | 1,714,765 | 25\% | 197,075 | 3\% | 336,300 | 5\% | 533,375 | 8\% | 3,530,899 | 52\% | 947,226 | 14\% | 6,726,265 |
| $2006{ }^{\text {c }}$ | 3,167,233 | 52\% | 301,596 | 5\% | 222,269 | 4\% | 523,865 | 9\% | 1,853,663 | 31\% | 490,091 | 8\% | 6,034,852 |
| $2007^{\text {c }}$ | 3,761,208 | 44\% | 542,422 | 6\% | 296,543 | 3\% | 838,965 | 10\% | 3,122,366 | 37\% | 826,592 | 10\% | 8,549,131 |
| $2008^{\text {c }}$ | 8,121,362 | 81\% | 1,218,335 | 12\% | 700,185 | 7\% | 1,918,520 | 19\% |  |  |  |  | 10,039,882 |
| $2009{ }^{\text {c }}$ | 6,636,945 | 80\% | 943,552 | 11\% | 731,291 | 9\% | 1,674,843 | 20\% |  |  |  |  | 8,311,788 |
| $2010^{\text {c }}$ | 8,166,262 | 80\% | 1,064,066 | 10\% | 970,457 | 10\% | 2,034,523 | 20\% |  |  |  |  | 10,200,785 |
| $2011{ }^{\text {c }}$ | 7,334,242 | 83\% | 839,734 | 10\% | 627,899 | 7\% | 1,467,633 | 17\% |  |  |  |  | 8,801,875 |
| $2012{ }^{\text {c,e }}$ | 8,493,257 |  | 799,365 |  | 699,445 |  | 1,498,810 |  |  |  |  |  | 9,992,067 |
| 1998-2012 Avg. | 4,584,447 | 60\% | 573,041 | 8\% | 426,050 | 6\% | 999,091 | 13\% | 1,697,558 | 36\% | 614,899 | 15\% | 6,557,783 |
| 2010-2012 Avg. | 7,997,920 | 82\% | 901,055 | 10\% | 765,934 | 8\% | 1,666,989 | 18\% |  |  |  |  | 9,664,909 |
| Allocation |  | 84\% |  | 8\% |  | 8\% |  | 16\% |  |  |  |  |  |

Note Blank cells indicate no fishing occurred in the NRSHA.
a Includes all drift harvest, district and inriver.
b Includes all setnet harvest, district and inriver.
c Allocation period: June 1 to July 17.
d Entire season was fished in the NRSHA.
e Preliminary data.

Table 15.-Alagnak River and General District harvest numbers by gear type, 2004-2012.

| Year | Percentage of Harvest by Gear Type |  | Harvest in Numbers by Gear Type |  | Number of Permits | Season <br> Total Harvest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drift (D) | Set (S) | Drift | Set |  |  |
| Alagnak River |  |  |  |  |  |  |
| 2005 | - | 100 | - | 255,926 | 85(S) | 255,926 |
| 2006 | 22 | 78 | 10,139 | 35,836 | 8 (D) 46(S) | 45,975 |
| 2007 | 27 | 73 | 2,830 | 7,589 | 2 (D) 13(S) | 10,419 |
| 2008 | no harvest |  |  |  |  |  |
| 2009 | no harvest |  |  |  |  |  |
| 2010 | no harvest |  |  |  |  |  |
| 2011 | no harvest |  |  |  |  |  |
| 2012 | no harvest |  |  |  |  |  |
| General District |  |  |  |  |  |  |
| 2004 | 100 | - | 1,656,994 | - | 897 (D) | 1,656,994 |

Note: $(\mathrm{S})=$ set gillnet, $(\mathrm{D})=$ drift gillnet.


Figure 1.-Bristol Bay area commercial salmon fishery management districts.


[^0]:    ${ }^{\text {a }}$ Catch numbers exclude personal use and test fishery harvests.
    b Preliminary data.

[^1]:    ${ }^{\text {a }}$ Allocation accounting period: June 1 to July 17; test fishery and personal use fish are excluded.
    b When the Naknek River Special Harvest Area (NRSHA) is in effect, fishing periods were alternated between gear groups.
    c Harvest is preliminary.

[^2]:    allocation accounting period: 1998 - June 1 to July 26; 1999 - June 1 to July 19; 2000 - June 1 to July 31; 2001 to 2012 - June 1 to July 17; test fishery and personal use fish are excluded.
    ${ }^{\mathrm{b}}$ Preliminary data.

[^3]:    a Preliminary data.
    b Allocation accounting period: 1998 - June 1-Sept. 30; 1999-June 1-Sept. 30; 2000-2012- June 1-July 17; test fishery and personal use fish are excluded. Total contains WRSHA harvest.

[^4]:    ${ }^{\text {a }}$ Combined sections catches include Wood River Special Harvest Area catches.
    b Preliminary data.

[^5]:    Note: Blank cells indicate no fishing occurred in the WRSHA.

