



South Coast Creel Survey Bulletin #4 – August 2015

Overview:

This bulletin provides a monthly update on estimates of recreational fin fishing effort and catch in the marine waters of southern British Columbia, within Pacific Fishery Management Areas 11 through 29 and 121 to 127. These estimates are generated from data collected by the DFO's South Coast Creel Survey. A brief overview of the survey, the study area and methods used to collect data and generate these estimates is provided in the first bulletin of 2015, available on the DFO *ExtraNet*:

http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/salmon/sc_creelbulletins

*The estimates presented in this bulletin are based on **in-season data** and should be interpreted as **preliminary** and **subject to revision** as the data are finalized.*

Recreational Fishery Links:

It is the responsibility of all fishers to be familiar with the current regulations prior to fishing. The British Columbia Tidal Waters Sport Fishing Guide will provide you with information on many of regulations and management measures that are in place. A copy of this may be obtained from most licence vendors. It may also be viewed at the Fisheries and Oceans Canada Pacific Region Recreational Fishery webpage at:

<http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/index-eng.htm>

In season management measure are sometimes required that are not published in the guide. These decisions are implemented by the issuance of a fishery notice which can be viewed at:

<http://ops.info.pac.dfo.ca/fishman/fnotice/fnotice.htm>

Creel Survey Data:

A summary of survey statistics and preliminary recreation effort, measured in boat trips, by Pacific Fishery Management Area (PFMA) are presented in Table 1. Maps identifying the PFMA's are available in the British Columbia Tidal Waters Sport Fishing Guide, or follow the link provided above to the Fisheries and Oceans Canada Pacific Region Recreational Fishery webpage.

Recreational Catch Estimates:

A summary of preliminary kept and released catch estimates for key species by PFMA are presented in Tables 2 through 5. Table 6 presents kept Chinook catch estimates by Pacific Fishery Management Area, divided into Aggregate Abundance-based Management and Individual Stock-based Management groupings.



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Contacts:

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West Coast Vancouver Island Survey (PFMA's 20 – 26 & 121 – 126)
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Table 1 Creel survey statistics (number of interviews and flights) and preliminary effort estimates (number of boat trips) by Pacific Fishery Management Area, August 2015.

| Pacific Fishery Management Area (PFMA) | Number of Creel Interviews | Number of Effort Count Flights ¹ | Effort | | | |
|--|----------------------------|---|--------------|-------------------|---------------------------|---------------------------|
| | | | Estimate | % SE ² | Year to date ³ | Year to date 5-yr average |
| 11 | 47 | 6 | 358 | 18% | 1265 | 1564 |
| 12 | 553 | 8 | 6430 | 9% | 13007 | 13138 |
| 13 | 369 | 10 | 9635 | 6% | 25375 | 18926 |
| 14 | 84 | 10 | 7070 | 11% | 10617 | 9871 |
| 15 | No Survey this month | | | | | |
| 16 | No Survey this month | | | | | |
| 17 | No Survey this month | | | | | |
| 18 | No Survey this month | | | | | |
| 19 | 144 | 10 | 3061 | 9% | 7908 | 6372 |
| 20 | 821 | 15 | 12479 | 9% | 27902 | 25846 |
| 21 | 10 | 8 | 339 | 51% | 617 | 374 |
| 121 | 111 | 8 | 486 | 38% | 1569 | 1904 |
| 23 | 684 | 9 | 8191 | 12% | 23696 | 22272 |
| 123 | 604 | 8 | 1836 | 22% | 4017 | 5963 |
| 24 | 96 | 8 | 145 | 28% | 593 | 1204 |
| 124 | 200 | 8 | 780 | 28% | 2450 | 3328 |
| 25 | 736 | 9 | 5631 | 15% | 10570 | 10829 |
| 125 | 143 | 8 | 645 | 36% | 1332 | 2558 |
| 26 | Based on Logbooks | | 7 | 226 | 501 | 431 |
| 126 | Based on Logbooks | | 7 | 688 | 1741 | 1816 |
| 27 | 263 | 8 | 1036 | 14% | 2499 | 2890 |
| 127 | 114 | 8 | 1085 | 19% | 2370 | 2964 |
| 28 | 101 | 10 | 3568 | 11% | 3568 | 5183 |
| 29 | 67 | 10 | 3358 | 20% | 3358 | 6866 |
| Totals 4 | 5180 | | 67047 | | 144955 | 144299 |

¹ The number of flights where weather conditions allowed effort counts; not including on-water counts

² %SE is a measure of uncertainty; one Standard Error as a percentage of the estimate.

³ Cumulative effort (from June 2015) to date summed across periods where surveys are active

- note that WCVI 5 year averages including September are unavailable (N/A)

⁴ Individual flights cover multiple PFMA's, so an additive total is not appropriate



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Table 2 Preliminary recreational kept catch estimates (number of fish) for key salmon species by Pacific Fishery Management Area (PFMA), August 2015. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

| Pacific Fishery Management Area (PFMA) | Chinook | | | | Coho | | | | Sockeye | | | |
|--|----------------------|-----|---------------------------|---|----------|-----|---------------------------|---|----------|-----|---------------------------|---|
| | Estimate | %SE | Year to date ¹ | Year to date 5-yr. average ¹ | Estimate | %SE | Year to date ¹ | Year to date 5-yr. average ¹ | Estimate | %SE | Year to date ¹ | Year to date 5-yr. average ¹ |
| 11 | 315 | 29% | 2104 | 3175 | 237 | 36% | 769 | 1738 | 0 | | 0 | 0 |
| 12 | 4603 | 12% | 10023 | 6270 | 4193 | 15% | 7830 | 4523 | 14 | 60% | 14 | 3767 |
| 13 | 13712 | 10% | 28420 | 12489 | 552 | 23% | 1081 | 4224 | 24 | 71% | 24 | 17332 |
| 14 | 995 | 23% | 1949 | 4123 | 213 | 52% | 399 | 1935 | 0 | | 0 | 0 |
| 15 | No survey this month | | | | | | | | | | | |
| 16 | No survey this month | | | | | | | | | | | |
| 17 | No survey this month | | | | | | | | | | | |
| 18 | No survey this month | | | | | | | | | | | |
| 19 | 1357 | 19% | 2576 | 1290 | 42 | 62% | 68 | 98 | 0 | | 9 | 81 |
| 20 | 16498 | 8% | 27414 | 16157 | 2585 | 13% | 4744 | 6786 | 148 | 48% | 217 | 5664 |
| 21 | 777 | 50% | 1390 | 174 | 0 | | 29 | 271 | 0 | | 7 | 0 |
| 121 | 2146 | 21% | 8065 | 8192 | 404 | 38% | 1457 | 3822 | 0 | | 5 | 59 |
| 23 | 6295 | 12% | 12038 | 16948 | 3750 | 12% | 5196 | 7393 | 8125 | 23% | 94344 | 38520 |
| 123 | 7797 | 21% | 14886 | 18719 | 1985 | 40% | 3435 | 7284 | 13 | 64% | 52 | 144 |
| 24 | 81 | 64% | 567 | 1394 | 122 | 25% | 312 | 2672 | 0 | | 0 | 0 |
| 124 | 2658 | 19% | 7084 | 10115 | 324 | 27% | 700 | 2965 | 0 | | 7 | 70 |
| 25 | 10414 | 14% | 18716 | 14698 | 2136 | 17% | 5264 | 5760 | 0 | | 0 | 0 |
| 125 | 1027 | 38% | 2514 | 4298 | 120 | 33% | 316 | 1730 | 0 | | 0 | 0 |
| 26 | 86 | | 518 | 758 | 747 | | 895 | 421 | 0 | | 0 | 0 |
| 126 | 2254 | | 5375 | 5530 | 468 | | 641 | 1846 | 0 | | 0 | 0 |
| 27 | 513 | 18% | 2123 | 2645 | 2656 | 14% | 5228 | 5610 | 0 | | 0 | 0 |
| 127 | 1856 | 21% | 3344 | 5677 | 533 | 29% | 1168 | 2392 | 0 | | 0 | 0 |
| 28 | 1728 | 25% | 1728 | 207 | 62 | 57% | 62 | 1216 | 0 | | 0 | 0 |
| 29 | 2805 | 32% | 2805 | 754 | 145 | 56% | 145 | 153 | 0 | | 0 | 0 |
| Kept Total ² | 77917 | | 153639 | 133613 | 21274 | | 39739 | 62839 | 8324 | | 94679 | 65637 |

¹ Cumulative kept catch (from June 2015) to date summed across periods where surveys are active

² Including only those areas with in-season estimates this month



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Table 3 Preliminary recreational released catch estimates (number of fish) for key salmon species by Pacific Fishery Management Area (PFMA), August 2015. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

| Pacific Fishery Management Area (PFMA) | Chinook | | | | Coho | | | | Sockeye | | | |
|--|----------------------|------|---------------------------|---|----------|------|---------------------------|---|----------|------|---------------------------|---|
| | Estimate | %SE | Year to date ¹ | Year to date 5-yr. average ¹ | Estimate | %SE | Year to date ¹ | Year to date 5-yr. average ¹ | Estimate | %SE | Year to date ¹ | Year to date 5-yr. average ¹ |
| 11 | 75 | 45% | 689 | 1024 | 61 | 68% | 149 | 1053 | 0 | | 0 | 0 |
| 12 | 3349 | 14% | 8449 | 6127 | 2196 | 21% | 4684 | 6338 | 87 | 83% | 100 | 606 |
| 13 | 9619 | 13% | 15053 | 11927 | 10370 | 14% | 15155 | 14649 | 1080 | 44% | 2455 | 1553 |
| 14 | 3208 | 29% | 6486 | 8208 | 3998 | 50% | 4135 | 5704 | 2 | 106% | 2 | 187 |
| 15 | No survey this month | | | | | | | | | | | |
| 16 | No survey this month | | | | | | | | | | | |
| 17 | No survey this month | | | | | | | | | | | |
| 18 | No survey this month | | | | | | | | | | | |
| 19 | 1304 | 32% | 2362 | 527 | 156 | 53% | 306 | 216 | 0 | | 0 | 0 |
| 20 | 7449 | 12% | 15856 | 8931 | 6274 | 12% | 12070 | 18001 | 896 | 56% | 1753 | 1207 |
| 21 | 45 | 147% | 425 | 38 | 23 | 147% | 341 | 86 | 0 | | 0 | 0 |
| 121 | 710 | 37% | 4973 | 4689 | 953 | 39% | 3856 | 6211 | 4 | 111% | 9 | 0 |
| 23 | 3451 | 16% | 6842 | 9239 | 564 | 29% | 1241 | 4724 | 182 | 44% | 635 | 2919 |
| 123 | 3784 | 27% | 7861 | 18384 | 5091 | 40% | 8561 | 18390 | 20 | 77% | 47 | 37 |
| 24 | 97 | 55% | 377 | 688 | 27 | 30% | 201 | 1528 | 0 | | 0 | 0 |
| 124 | 1694 | 25% | 3879 | 7526 | 690 | 28% | 1238 | 7595 | 0 | | 7 | 140 |
| 25 | 5002 | 13% | 9549 | 10596 | 882 | 43% | 2948 | 5125 | 0 | | 12 | 27 |
| 125 | 207 | 49% | 570 | 2583 | 172 | 48% | 602 | 5641 | 0 | | 0 | 0 |
| 26 | 443 | | 1121 | 586 | 112 | | 152 | 277 | 0 | | 0 | 0 |
| 126 | 1469 | | 5297 | 6412 | 587 | | 1138 | 4824 | 0 | | 0 | 0 |
| 27 | 202 | 22% | 746 | 1658 | 1114 | 16% | 2494 | 2530 | 0 | | 0 | 0 |
| 127 | 954 | 32% | 1699 | 2199 | 1011 | 23% | 2306 | 2832 | 0 | | 0 | 0 |
| 28 | 1138 | 39% | 1138 | 461 | 357 | 79% | 357 | 528 | 101 | 65% | 101 | 105 |
| 29 | 1070 | 35% | 1070 | 1428 | 156 | 58% | 156 | 110 | 191 | 60% | 191 | 843 |
| Released Total ² | 45270 | | 94442 | 103231 | 34794 | | 62090 | 106362 | 2563 | | 5312 | 7624 |

¹ Cumulative kept catch (from June 2015) to date summed across periods where surveys are active

² Including only those areas with in-season estimates this month



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Table 4 Preliminary recreational kept catch estimates (number of fish) for key groundfish species by Pacific Fishery Management Area (PFMA), August 2015. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

| Pacific Fishery Management Area (PFMA) | Halibut | | | | Lingcod | | | | Rockfishes ¹ | | | |
|--|----------------------|------|---------------------------|---|-------------|-----|---------------------------|---|-------------------------|-----|---------------------------|---|
| | Estimate | %SE | Year to date ² | Year to date 5-yr. average ² | Estimate | %SE | Year to date ² | Year to date 5-yr. average ² | Estimate | %SE | Year to date ² | Year to date 5-yr. average ² |
| 11 | 152 | 28% | 956 | 1527 | 161 | 44% | 914 | 847 | 603 | 23% | 2498 | 2138 |
| 12 | 1675 | 20% | 3861 | 3078 | 538 | 34% | 1232 | 722 | 1904 | 17% | 3655 | 2110 |
| 13 | 0 | | 66 | 146 | 1444 | 20% | 4709 | 1101 | 653 | 49% | 2031 | 907 |
| 14 | 0 | | 1 | 16 | 103 | 33% | 382 | 552 | 162 | 45% | 397 | 501 |
| 15 | No survey this month | | | | | | | | | | | |
| 16 | No survey this month | | | | | | | | | | | |
| 17 | No survey this month | | | | | | | | | | | |
| 18 | No survey this month | | | | | | | | | | | |
| 19 | 241 | 39% | 620 | 1349 | 44 | 83% | 106 | 193 | 284 | 42% | 1342 | 905 |
| 20 | 67 | 55% | 335 | 704 | 233 | 30% | 526 | 554 | 1160 | 20% | 3356 | 3169 |
| 21 | 24 | 142% | 150 | 177 | 183 | 85% | 186 | 28 | 125 | 75% | 130 | 98 |
| 121 | 706 | 37% | 3149 | 4377 | 92 | 51% | 165 | 277 | 266 | 28% | 603 | 709 |
| 23 | 7 | 104% | 209 | 418 | 157 | 46% | 856 | 932 | 800 | 38% | 4839 | 2647 |
| 123 | 1046 | 31% | 3385 | 6662 | 259 | 28% | 832 | 1141 | 429 | 24% | 1553 | 3013 |
| 24 | 30 | 68% | 96 | 182 | 29 | 44% | 96 | 254 | 114 | 24% | 299 | 967 |
| 124 | 422 | 25% | 1714 | 3321 | 207 | 32% | 615 | 556 | 242 | 36% | 1431 | 1757 |
| 25 | 12 | 66% | 177 | 438 | 288 | 31% | 706 | 625 | 684 | 25% | 1980 | 1861 |
| 125 | 407 | 48% | 916 | 1905 | 963 | 36% | 1742 | 2745 | 1104 | 24% | 2217 | 3038 |
| 26 | 37 | | 131 | 227 | 141 | | 352 | 429 | 112 | | 344 | 535 |
| 126 | 846 | | 2284 | 2777 | 1975 | | 4235 | 4536 | 1181 | | 2487 | 2343 |
| 27 | 306 | 21% | 990 | 565 | 384 | 21% | 1290 | 754 | 803 | 12% | 1971 | 1622 |
| 127 | 1246 | 23% | 2591 | 3087 | 1761 | 28% | 3001 | 5023 | 1920 | 20% | 3553 | 5090 |
| 28 | 0 | | 0 | 0 | 0 | | 0 | 0 | 82 | 55% | 82 | 228 |
| 29 | 0 | | 0 | 0 | 0 | | 0 | 0 | 32 | 82% | 32 | 345 |
| Kept Total³ | 7224 | | 21631 | 30956 | 8962 | | 21945 | 21269 | 12660 | | 34800 | 33983 |

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2015) to date summed across periods where surveys are active

³ Including only those areas with in-season estimates this month



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Table 5 Preliminary recreational released catch estimates (number of fish) for key groundfish species by Pacific Fishery Management Area (PFMA), August 2015. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

| Pacific Fishery Management Area (PFMA) | Halibut | | | | Lingcod | | | | Rockfishes ¹ | | | |
|--|----------------------|------|---------------------------|---|----------|-----|---------------------------|---|-------------------------|------|---------------------------|---|
| | Estimate | %SE | Year to date ² | Year to date 5-yr. average ² | Estimate | %SE | Year to date ² | Year to date 5-yr. average ² | Estimate | %SE | Year to date ² | Year to date 5-yr. average ² |
| 11 | 37 | 57% | 149 | 404 | 70 | 58% | 401 | 715 | 281 | 54% | 1941 | 1016 |
| 12 | 273 | 44% | 752 | 677 | 300 | 61% | 698 | 1247 | 1762 | 15% | 3959 | 4992 |
| 13 | 0 | | 118 | 76 | 4157 | 32% | 17745 | 3611 | 2270 | 36% | 5604 | 2171 |
| 14 | 0 | | 0 | 0 | 2919 | 32% | 3694 | 2016 | 12746 | 40% | 13690 | 803 |
| 15 | No survey this month | | | | | | | | | | | |
| 16 | No survey this month | | | | | | | | | | | |
| 17 | No survey this month | | | | | | | | | | | |
| 18 | No survey this month | | | | | | | | | | | |
| 19 | 42 | 71% | 53 | 164 | 406 | 32% | 1713 | 2222 | 374 | 43% | 1684 | 1621 |
| 20 | 23 | 89% | 36 | 201 | 684 | 25% | 1904 | 4617 | 1687 | 19% | 4178 | 4992 |
| 21 | 0 | | 116 | 39 | 209 | 90% | 297 | 9 | 136 | 104% | 156 | 49 |
| 121 | 36 | 63% | 498 | 741 | 56 | 70% | 118 | 41 | 128 | 46% | 230 | 238 |
| 23 | 28 | 73% | 86 | 59 | 324 | 40% | 2075 | 1009 | 687 | 51% | 2334 | 2277 |
| 123 | 155 | 36% | 526 | 847 | 112 | 31% | 682 | 682 | 124 | 30% | 243 | 462 |
| 24 | 2 | 149% | 4 | 18 | 20 | 42% | 116 | 185 | 122 | 51% | 662 | 168 |
| 124 | 32 | 46% | 309 | 576 | 126 | 79% | 264 | 683 | 185 | 61% | 857 | 767 |
| 25 | 18 | 85% | 18 | 178 | 199 | 37% | 503 | 785 | 852 | 22% | 1675 | 1657 |
| 125 | 37 | 77% | 131 | 207 | 155 | 55% | 295 | 1228 | 888 | 35% | 1121 | 1252 |
| 26 | 49 | | 96 | 73 | 46 | | 180 | 129 | 63 | | 478 | 395 |
| 126 | 491 | | 1513 | 1796 | 236 | | 862 | 1244 | 701 | | 1485 | 609 |
| 27 | 78 | 25% | 147 | 141 | 107 | 22% | 222 | 390 | 124 | 23% | 479 | 656 |
| 127 | 223 | 35% | 623 | 993 | 168 | 31% | 354 | 1045 | 365 | 31% | 650 | 804 |
| 28 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 29 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Released Total ³ | 1524 | | 5175 | 7190 | 10294 | | 32123 | 21858 | 23495 | | 41426 | 24929 |

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2015) to date summed across periods where surveys are active

³ Including only those areas with in-season estimates this month



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Table 6 Preliminary recreational kept Chinook catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), August 2015, divided into Aggregate Abundance-based Management (AABM) and Individual Stock-based Management (ISBM) groupings.

| Area | Region | AABM | | | ISBM | | |
|--------------|--------------------------------------|--------------|---------------------------|--|--------------|---------------------------|--|
| | | Estimate | Year to Date ¹ | Year to Date 5-yr average ² | Estimate | Year to Date ¹ | Year to Date 5-yr average ² |
| 21 | Nitinat | 0 | 613 | 100 | 777 | 777 | 100 |
| 121 | Swiftsure Bank | 2146 | 8065 | 8200 | 0 | 0 | 0 |
| 23 -1,2 | Alberni Inlet | 0 | 0 | 50 | 2014 | 2014 | 5900 |
| 23 - 3 to 11 | Barkley Sound | 0 | 5743 | 6600 | 4281 | 4281 | 5600 |
| 123 | Offshore Barkely | 7797 | 14886 | 18700 | 0 | 0 | 0 |
| 24 | Clayquot Sound | 0 | 486 | 1300 | 81 | 81 | 100 |
| 124 | Offshore Clayquot | 2658 | 7084 | 10100 | 0 | 0 | 0 |
| 25 | Nootka Snd. / Esperanza Inlet | 0 | 0 | 200 | 10414 | 18716 | 14650 |
| 125 | Offshore Nootka | 1027 | 2514 | 4300 | 0 | 0 | 0 |
| 26 | Kyuquot Sound | 0 | 146 | 150 | 86 | 372 | 650 |
| 126 | Offshore Kyuquot | 2254 | 5375 | 5550 | 0 | 0 | 0 |
| 27 | Quatsino Sound | 0 | 227 | 400 | 513 | 1896 | 2250 |
| 127 | Offshore Quatsino | 1856 | 3344 | 5700 | 0 | 0 | 0 |
| Total | | 17738 | 48483 | 61350 | 18166 | 28137 | 29250 |

¹ Cumulative kept (from June 2015) to date summed across periods where surveys are active.

² Cumulative kept to date 5 year averages have been rounded to the nearest 50 fish.