**Regional Information Report No. 5J19-06**

# Reanalysis of Upper Cook Inlet Coho Salmon Harvest from 2013 to 2016 Using an Updated Genetic Baseline

**by**

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**and**

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**Alaska Department of Fish and Game** **Divisions of Commercial Fisheries**

## 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)**

| | |
|---|---|
| centimeter | cm |
| deciliter | dL |
| gram | g |
| hectare | ha |
| kilogram | kg |
| kilometer | km |
| liter | L |
| meter | m |
| milliliter | mL |
| millimeter | mm |

**Weights and measures (English)**

| | |
|---|---|
| cubic feet per second | $ft^3/s$ |
| foot | ft |
| gallon | gal |
| inch | in |
| mile | mi |
| nautical mile | nmi |
| ounce | oz |
| pound | lb |
| quart | qt |
| yard | yd |

**Time and temperature**

| | |
|---|---|
| day | d |
| degrees Celsius | °C |
| degrees Fahrenheit | °F |
| degrees kelvin | K |
| hour | h |
| minute | min |
| second | s |

**Physics and chemistry**

| | |
|---|---|
| all atomic symbols | |
| alternating current | AC |
| ampere | A |
| calorie | cal |
| direct current | DC |
| hertz | Hz |
| horsepower | hp |
| hydrogen ion activity (negative log of) | pH |
| parts per million | ppm |
| parts per thousand | ppt, ‰ |
| volts | V |
| watts | W |

**General**

| | |
|---|---|
| Alaska Administrative Code | AAC |
| all commonly accepted abbreviations | e.g., Mr., Mrs., AM, PM, etc. |
| all commonly accepted professional titles | e.g., Dr., Ph.D., R.N., etc. |
| at | @ |
| compass directions: | |
| east | E |
| north | N |
| south | S |
| west | W |
| copyright | © |
| corporate suffixes: | |
| Company | Co. |
| Corporation | Corp. |
| Incorporated | Inc. |
| Limited | Ltd. |
| District of Columbia | D.C. |
| et alii (and others) | et al. |
| et cetera (and so forth) | etc. |
| exempli gratia (for example) | e.g. |
| Federal Information Code | FIC |
| id est (that is) | i.e. |
| latitude or longitude | lat or long |
| monetary symbols (U.S.) | $, ¢ |
| months (tables and figures): first three letters | Jan,...,Dec |
| registered trademark | ® |
| trademark | ™ |
| United States (adjective) | U.S. |
| United States of America (noun) | USA |
| U.S.C. | United States Code |
| U.S. state | use two-letter abbreviations (e.g., AK, WA) |

**Mathematics, statistics**

| | |
|---|---|
| *all standard mathematical signs, symbols and abbreviations* | |
| alternate hypothesis | $H_A$ |
| base of natural logarithm | *e* |
| catch per unit effort | CPUE |
| coefficient of variation | CV |
| common test statistics | (F, t, $\chi^2$, etc.) |
| confidence interval | CI |
| correlation coefficient (multiple) | R |
| correlation coefficient (simple) | r |
| covariance | cov |
| degree (angular ) | ° |
| degrees of freedom | df |
| expected value | *E* |
| greater than | > |
| greater than or equal to | ≥ |
| harvest per unit effort | HPUE |
| less than | < |
| less than or equal to | ≤ |
| logarithm (natural) | ln |
| logarithm (base 10) | log |
| logarithm (specify base) | $\log_2$, etc. |
| minute (angular) | ' |
| not significant | NS |
| null hypothesis | $H_O$ |
| percent | % |
| probability | P |
| probability of a type I error (rejection of the null hypothesis when true) | α |
| probability of a type II error (acceptance of the null hypothesis when false) | β |
| second (angular) | " |
| standard deviation | SD |
| standard error | SE |
| variance | |
| population | Var |
| sample | var |

*REGIONAL INFORMATION REPORT 5J19-06*

# REANALYSIS OF UPPER COOK INLET COHO SALMON HARVEST FROM 2013 TO 2016 USING AN UPDATED GENETIC BASELINE

by

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# INTRODUCTION

This report is an update to the Cook Inlet coho salmon *Oncorhynchus kisutch* genetic baseline reported in Barclay and Habicht (2019) and mixed stock analysis (MSA) of Upper Cook Inlet (UCI) commercial harvest and offshore test fishery from 2013–2016 (Barclay et al. 2017, 2018). All background information for the genetic baseline and commercial harvest and offshore test fishery MSAs can be found in the previous reports: (1) baseline background information in Barclay and Habicht (2019) includes a summary of previous genetic diversity and baseline studies and the impetus for increasing baseline representation for Cook Inlet coho salmon; and (2) MSA background information in Barclay et al. (2017, 2018) includes summaries of previous MSA studies, UCI commercial fishery management strategy, and fishery highlights for the UCI commercial fishery in 2013–2016.

Updates to the genetic baseline since the last MSA, inclusive of this report, include additional baseline representation of Northern Cook Inlet coho salmon populations in the Yentna (11 populations), Susitna (4 populations), and Deshka (additional samples) rivers; in Jim Creek (2 populations), Knik Arm (2 populations), and Turnagain Arm (2 populations); and new baseline evaluation tests for the 11 mixed stock analysis reporting groups identified in Barclay and Habicht (2019):

(1) *Southwest CI* (West side populations south of Little Jack Creek)
(2) *Northwest CI* (West side populations from Little Jack Creek north to the Susitna River and Alexander Creek)
(3) *Susitna* (Susitna River mainstem tributary populations, excluding Deshka River)
(4) *Deshka* (Deshka River population)
(5) *Yentna* (Yentna River populations)
(6) *Knik* (Knik Arm, Little Susitna River, and Campbell Creek populations)
(7) *Jim* (Jim Creek populations)
(8) *Turnagain/Northeast CI* (Turnagain Arm and northeast Cook Inlet populations)
(9) *Kenai* (Kenai River populations)
(10) *Kasilof* (Kasilof River populations)
(11) *Southeast CI* (Kenai Peninsula populations south of the Kasilof River)

MSA updates in this report include new analysis methods and updated estimates for the 2013–2016 UCI commercial harvest and offshore test fishery using the 11 reporting groups above.

This report was produced to provide the most up-to-date baseline information and MSA estimates for Cook Inlet coho salmon. The results in this report should be considered the best information available and replacements for estimates in the Barclay et al. (2017, 2018) MSA reports. Because the baseline has been updated with additional populations since the previous MSA analyses (Barclay et al. 2017, 2018) and up-to-date harvest numbers were used in this MSA, estimates in this report may differ from what was previously reported for the same reporting groups. Additionally, estimates for groups that were combined into single reporting groups in the original MSAs (i.e., *Northwest CI* and *Yentna*, *Susitna* and *Deshka*, *Knik* and *Jim*, and *Kenai* and *Kasilof*) may not sum what was previously reported.

# METHODS

## BASELINE

Tissue sampling and laboratory methods follow those reported for the previous baseline (Barclay and Habicht 2019). Statistical analysis methods also follow those reported for the previous baseline except for methods used to evaluate the baseline for MSA reporting groups.

Baseline evaluation tests were performed to assess the identifiability of reporting groups in mixtures of fish. Test mixtures of 380 individuals were constructed by randomly sampling from the baseline without replacement predetermined mixture compositions. These mixtures were analyzed against the reduced baseline (full baseline minus the 380 individuals removed for the test mixture). To explore a range of stock compositions, up to 100 test mixtures were constructed for each reporting group with compositions varying from 1% to 100% (in 1% increments) of that group and the composition randomly split among the remaining groups. Because the removal of individuals from the baseline can reduce the accuracy of population allele frequency estimates and, consequently, the identifiability of reporting groups for MSA, test mixture compositions were limited to remove no more than half of the total number of fish in a reporting group. Therefore, the range of test mixture compositions was reduced for reporting groups represented by fewer than 760 fish. For example, if a reporting group was represented by 300 fish, the largest stock composition tested for that reporting group was 39% (150 fish of the 380 fish mixture).

The stock composition of the test mixtures was estimated using the *R* package *rubias* (Moran and Anderson 2019). The *rubias* package is a Bayesian approach to the conditional genetic stock identification model based upon computationally efficient C code implemented in *R*. It uses cross-validation and simulation to quantify and correct for biases in reporting group estimates. Each mixture was analyzed for 1 Markov Chain Monte Carlo chain with 25,000 iterations, and the first 5,000 iterations were discarded to remove the influence of starting values. The prior parameters for each reporting group were defined to be equal (i.e., a flat prior). Within each reporting group, the population prior parameters were divided equally among the populations within that reporting group. Stock proportion estimates and the 90% credibility intervals for each test mixture were calculated by taking the mean and 5% and 95% quantiles of the posterior distribution from the single chain output. After the Markov Chain Monte Carlo analysis, 100 parametric bootstrap simulations were performed to correct for biases in the stock proportion estimates.

The performance of each reporting group was assessed by calculating the proportion of tests with correct allocations within 10% of the true test mixture proportion and overall bias among tests. As a guideline, we considered a reporting group's performance to be adequate for MSA if at least 90% of tests were within 10% of the true test mixture proportion and overall bias did not exceed ±5%. However, deviations from this guideline are permitted if there is a willingness to accept higher levels of MSA uncertainty to include specific reporting groups to support improved information to meet a management need. These tests provided an indication of the power of the baseline for MSA under the assumption that all populations from a reporting group were represented in the baseline.

## MIXED STOCK ANALYSIS

Tissue sampling and laboratory methods follow those reported for the previous MSA analyses (Barclay et al. 2017, 2018). Statistical analysis methods for data retrieval, quality control, and

estimating total stock-specific harvest and index points of sampled strata follow those reported for the previous MSAs. Methods for producing stock composition estimates follow the *rubias* protocol described above for the baseline evaluation tests.

# RESULTS AND DISCUSSION

## BASELINE

A total of 7 new populations were added to the baseline since the Barclay and Habicht (2019) update: (1) Home Lake, (2) Kashwitna River, (3) Willow Creek, (4) Cache Creek, (5) Moose Creek (Yentna River drainage), (6) Eagle River, and (7) Twentymile River. Information on baseline collections and their reporting groups assignment can be found in Table 1 and Figure 1. A visualization of baseline population genetic structure can be found on Figure 2.

Baseline evaluation test mixtures were constructed with proportions ranged from 1% to 100% (in increments of 1%) for *Southwest CI*, *Northwest CI*, *Susitna*, *Yentna*, *Knik*, *Turnagain/Northeast CI*, and *Kenai* (100 mixtures each), from 1% to 69% for *Southeast CI* (69 mixtures), from 1% to 49% for *Deshka* and *Jim* (49 mixtures each), and from 1% to 39% for *Kasilof* (39 mixtures; Table 2; Figure 3).

In the baseline evaluation tests, all but one reporting group (*Northwest CI*) performed adequately for MSA (Table 2; Figure 3). Ninety percent of the test estimates were within 2.0% to 10.0% (mean: 5.4%) of the true value for all reporting groups except *Northwest CI*, where were 90% of the test estimates were within 13.7% of the true value. Overall bias for all reporting groups was adequate and ranged from -3.3% to 0.8% (mean: -0.4%).

We retained the *Northwest CI* reporting group despite missing the MSA guidelines for reporting group performance because 1) a management need required separation of Yentna River fish from northwest Cook Inlet fish and 2) reporting group performance for proportions observed in Cook Inlet fisheries was acceptable. One management need was to estimate the total run size for the Susitna River drainage (Yentna, Deshka, and Susitna rivers). This management need could only be accomplished by using reporting groups that accounted for all the fish within the Susitna River, but excluded all fish from outside this drainage. Using a better performing reporting group, by combining *Northwest CI* and *Yentna* reporting groups, would have likely yielded a reporting group that met our guidelines, but would not allow for the management need. Finally, in the analysis of the 2013–2016 commercial fishery and offshore test fish mixtures, the stock composition estimates for *Northwest CI* were always less than 50%. The baseline evaluation tests performed adequately for *Northwest CI* when it composed between 1% and 50% of the test mixtures (Figure 3).

## MIXED STOCK ANALYSIS

Collection information for offshore test and commercial fisheries can be found in Appendix A1–A4.

For offshore test fish information and results see the following:

- Mixture information (Table 3)
- Maps of offshore test fishery transects (Figures 4–6)
- CPUE by date and station (Appendix B1–B6)
- Spatial mixture stock composition and stock-specific index point estimates (Tables 4–9; Figures 7–10)

- Temporal mixture stock composition and stock-specific index point estimates (Tables 10–15; Figures 11–14)
- Overall annual stock-specific index point estimates (Tables 16–19; Figure 15)

For commercial fishery information and results see the following:

- Mixtures information (Tables 20 and 21)
- Maps of UCI commercial fishery statistical areas (Figures 16–19)
- Commercial harvest by date and statistical area (Appendix C1–C4)
- Central District drift gillnet temporal mixtures stock composition and stock-specific harvest estimates (Appendix D1–D6; Figure 20)
- Northern District set gillnet temporal mixtures stock composition estimates (Appendix E1; Figure 21)
- Northern District set gillnet spatial mixtures stock composition and stock-specific harvest estimates (Appendix F1–F3; Figure 22)
- Upper Subdistrict set gillnet mixtures stock composition and stock-specific harvest estimates (Appendix G1)
- Overall annual UCI commercial fishery stock composition and stock-specific harvest estimates (Table 22; Figure 23)
- Overall annual stock composition and stock-specific harvest estimates by fishery (Tables 23–26; Figures 24–31)

Stock-specific harvest estimates differed from previously reported estimates in Barclay et al. (2017, 2018) by small proportions and were concentrated in reporting groups proximate to where new populations were added to the baseline (Northern Cook Inlet). For example, combined annual stock-specific harvest estimates for *Susitna* and *Deshka* were generally lower than the previous estimates and differed by 10,069 (2013), 5,121 (2014), 11,349 (2015), and 11 (2016) fish (a change of 0.0–6.1%). In contrast, the combined annual stock-specific harvest estimates for *Northwest CI* and *Yentna* were generally higher than the previous estimates and differed by 1,595 (2013), 5,021 (2014), 6,688 (2015), and 2,568 (2016) fish (a change of 0.8–4.8%). Populations added to the baseline in the *Yentna* reporting group that have genetic affinity to the *Deshka* reporting group population might explain this pattern.

Changes between the original reports of stock-specific harvest estimates compared to the new estimates for all other reporting groups were below 3%. For example, annual UCI commercial stock-specific harvest estimates for *Turnagain/Northeast CI* were generally higher and differed by 5,254 (2013), 1,788 (2014), 3,260 (2015), and 2,080 (2016) fish (a change of 1.7–2.3%). The combined annual stock-specific harvest estimates for *Knik* and *Jim* were generally higher than previous estimates and differed by 6,007 (2013), 1,656 (2014), 1,811 (2015), and 956 (2016) fish (a change of 0.8–2.6%). The combined annual stock-specific harvest estimates for *Kenai* and *Kasilof* were generally lower and differed by 413 (2013), 333 (2014), 665 (2015), and 419 (2016) fish (a change of 0.2–0.4%). Finally, the annual stock-specific harvest estimates for *Southwest CI* and *Southeast CI* were generally higher and differed by up to 323 (2013), 189 (2014), 540 (2015), and 536 (2016) fish (a change of 0.0–0.4%).

This updated analysis represents the most accurate MSA analysis of coho salmon harvested in Upper commercial and offshore test fisheries to date. The updated baseline provides better representation of coho salmon populations, especially in Northern Cook Inlet, and the reporting

groups provide information useful for management needs—specifically for run reconstructions of the Susitna River.

# ACKNOWLEDGEMENTS

The Matanuska-Susitna Borough Fish and Wildlife Commission was instrumental in identifying and prioritizing the information gap that lead to this project. Updating the genetic baseline and producing the 4 years of MSA estimates in this report required the efforts of a large number of dedicated people. The authors acknowledge the work of the people in the ADF&G's Gene Conservation Laboratory for producing the genetic data used in the baseline and MSAs. The authors would like to thank the multiple agencies and organizations that contributed samples to genetic baseline. The authors would also like to thank the people with Soldotna commercial fishery sampling crews who collected the thousands of samples required for producing harvest-proportional samples of fish for the MSAs. Baseline field collections from 2016 to 2018 and laboratory and statistical analyses were funded by the State of Alaska and Matanuska-Susitna Borough.

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# TABLES AND FIGURES

Table 1.–Tissue collections of coho salmon throughout Upper Cook Inlet, including the years collected, number of samples collected ($N_c$), the number of individuals genotyped ($N_g$), and the number of individuals analyzed from each collection included in the baseline ($N_b$). Unique population numbers represent all the analyzed collections that contribute to a single population and correspond to population numbers on Figures 1 and 2. Baseline evaluation tests for MSA were performed on the 11 groups.

| Reporting group | Pop. No. | Location | Collection Year | $N_c$ | $N_g$ | $N_b$ |
|---|---|---|---|---|---|---|
| *Southwest CI* | 1 | Douglas River | 2013 | 106 | 95 | 92 |
| | 2 | Douglas Reef River | 2013 | 113 | 95 | 94 |
| | 3 | Kamishak River | 2013 | 110 | 95 | 92 |
| | 4 | Little Kamishak River | 2013 | 96 | 95 | 90 |
| | 5 | McNeil River | 2013 | 41 | 41 | 41 |
| | 5 | | 2014 | 12 | 12 | 12 |
| | 6 | Knoll's Head Creek | 2014 | 200 | 150 | 150 |
| | 7 | Silver Salmon Creek | 2013 | 160 | 95 | 93 |
| | 8 | Tuxedni River | 2012 | 86 | 81 | 81 |
| | 9 | Crescent Lake | 1998 | 99 | 95 | 93 |
| | 10 | Crescent River | 2013 | 227 | 95 | 91 |
| | 11 | Harriet Creek | 2012 | 1 | 1 | 1 |
| | 11 | | 2014 | 63 | 63 | 63 |
| *Northwest CI* | 12 | Little Jack Creek | 2013 | 104 | 95 | 95 |
| | 13 | Montana Bill Creek | 2012 | 101 | 95 | 95 |
| | 14 | Kustatan River | 2013 | 119 | 95 | 95 |
| | 15 | McArthur River (unnamed stream) | 2014 | 100 | 95 | 95 |
| | 16 | Farro Creek | 2013 | 17 | 17 | 17 |
| | 16 | | 2014 | 111 | 78 | 78 |
| | 17 | Chuitna River | 1992 | 54 | 54 | 53 |
| | 18 | Coal Creek | 2013 | 41 | 41 | 39 |
| | 18 | | 2014 | 46 | 46 | 46 |
| | 19 | Theodore River | 2012 | 19 | 19 | 17 |
| | 19 | | 2013 | 60 | 60 | 60 |
| | 20 | Lewis River | 2013 | 57 | 57 | 56 |
| | 21 | Alexander Creek[a] | 2014 | 101 | 95 | 92 |
| | 21 | | 2015 | 100 | 48 | 47 |
| *Susitna* | 22 | Portage Creek | 2014 | 63 | 61 | 59 |
| | 23 | Indian River | 2013 | 105 | 95 | 94 |
| | 24 | Whiskers Creek | 2013 | 79 | 79 | 79 |
| | 24 | | 2014 | 2 | 2 | 1 |
| | 25 | Spink Creek | 2008 | 38 | 33 | 32 |
| | 25 | | 2014 | 62 | 62 | 62 |
| | 26 | Byers Creek | 2014 | 57 | 56 | 55 |
| | 27 | Home Lake | 2018 | 105 | 105 | 97 |

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| Reporting group | Pop. No. | Location | Collection Year | $N_c$ | $N_g$ | $N_b$ |
|---|---|---|---|---|---|---|
| *Susitna (cont.)* | 28 | Bunco Creek | 2013 | 9 | 9 | 9 |
| | 28 | | 2014 | 56 | 56 | 55 |
| | 29 | Troublesome Creek | 2013 | 92 | 90 | 88 |
| | 30 | Prairie Creek | 2014 | 53 | 53 | 51 |
| | 31 | Sheep River | 2013 | 115 | 95 | 95 |
| | 32 | Larson Lake outlet | 2011 | 84 | 84 | 84 |
| | 32 | | 2014 | 48 | 48 | 48 |
| | 33 | Chunilna Creek | 2013 | 66 | 66 | 64 |
| | 33 | | 2014 | 70 | 30 | 30 |
| | 34 | Fish Creek (Chunilna Cr drainage) | 2014 | 65 | 65 | 65 |
| | 35 | Question Creek | 2013 | 77 | 77 | 76 |
| | 35 | | 2014 | 76 | 57 | 50 |
| | 36 | Montana Creek | 2013 | 200 | 87 | 87 |
| | 37 | Sheep Creek | 2014 | 47 | 47 | 47 |
| | 37 | | 2018 | 8 | 8 | 8 |
| | 38 | Kashwitna River | 2014 | 24 | 24 | 24 |
| | 38 | | 2018 | 91 | 91 | 91 |
| | 39 | Willow Creek | 2014 | 27 | 27 | 27 |
| | 39 | | 2018 | 75 | 75 | 75 |
| *Deshka* | 40 | Deshka River | 2015 | 300 | 190 | 190 |
| | 40 | | 2016 | 300 | 190 | 190 |
| *Yentna* | 41 | West Fork Yentna River - no name A | 2017 | 73 | 73 | 68 |
| | 41 | West Fork Yentna River - no name B | 2017 | 105 | 95 | 95 |
| | 42 | Clearwater Creek | 2017 | 81 | 81 | 80 |
| | 43 | Kichatna River | 2017 | 107 | 94 | 91 |
| | 44 | Nakochna River (upper) | 2017 | 36 | 33 | 33 |
| | 44 | Nakochna River (lower) | 2014 | 8 | 8 | 8 |
| | 44 | | 2015 | 3 | 3 | 3 |
| | 44 | | 2016 | 6 | 6 | 6 |
| | 44 | | 2017 | 11 | 11 | 11 |
| | 45 | Red Creek | 2014 | 26 | 26 | 26 |
| | 45 | | 2015 | 46 | 44 | 44 |
| | 45 | | 2017 | 62 | 30 | 29 |
| | 46 | Red Salmon Creek | 2017 | 89 | 88 | 79 |
| | 47 | Hayes River | 2014 | 87 | 84 | 84 |
| | 48 | Canyon Creek | 2013 | 55 | 55 | 55 |
| | 48 | | 2014 | 105 | 50 | 50 |

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Table 1.–Page 3 of 5.

| Reporting group | Pop. No. | Location | Collection Year | $N_c$ | $N_g$ | $N_b$ |
|---|---|---|---|---|---|---|
| *Yentna (cont.)* | 49 | Talachulitna River | 2013 | 74 | 73 | 72 |
| | 49 | | 2014 | 50 | 50 | 50 |
| | 50 | Sunflower Creek | 2014 | 8 | 8 | 8 |
| | 50 | | 2015 | 3 | 3 | 3 |
| | 50 | | 2016 | 9 | 9 | 9 |
| | 50 | | 2017 | 37 | 37 | 36 |
| | 50 | | 2018 | 46 | 46 | 42 |
| | 51 | Camp Creek | 2016 | 51 | 51 | 50 |
| | 51 | | 2017 | 53 | 50 | 47 |
| | 52 | Cache Creek | 2018 | 60 | 60 | 59 |
| | 53 | Martin Creek | 2013 | 36 | 35 | 35 |
| | 53 | | 2016 | 4 | 4 | 4 |
| | 53 | Peters Creek | 2017 | 108 | 95 | 93 |
| | 54 | Moose Creek | 2018 | 114 | 96 | 90 |
| *Jim* | 55 | Jim Creek (upper) | 2009 | 68 | 68 | 68 |
| | 55 | | 2014 | 140 | 50 | 49 |
| | 55 | | 2016 | 106 | 101 | 101 |
| | 56 | McRoberts Creek | 2016 | 71 | 71 | 69 |
| | 56 | | 2017 | 108 | 108 | 107 |
| *Knik* | 57 | Little Susitna River | 2013 | 97 | 95 | 94 |
| | 57 | | 2014 | 100 | 50 | 50 |
| | 58 | Fish Creek | 2009 | 203 | 95 | 93 |
| | 58 | | 2013 | 94 | 94 | 92 |
| | 59 | Cottonwood Creek | 2014 | 94 | 76 | 73 |
| | 60 | Wasilla Creek | 2013 | 9 | 9 | 9 |
| | 60 | | 2014 | 91 | 91 | 91 |
| | 61 | Rabbit Slough | 2011 | 95 | 95 | 95 |
| | 62 | Matanuska River | 2009 | 194 | 95 | 94 |
| | 63 | Eska Creek | 2013 | 61 | 61 | 59 |
| | 63 | | 2014 | 65 | 35 | 35 |
| | 64 | Hunter Creek | 2016 | 9 | 9 | 9 |
| | 64 | | 2017 | 96 | 96 | 92 |
| | 65 | Eagle River | 2014 | 24 | 24 | 24 |
| | 65 | | 2015 | 11 | 11 | 10 |
| | 65 | | 2018 | 23 | 23 | 22 |
| | 66 | Sixmile Creek | 2015 | 125 | 95 | 94 |
| | 67 | Ship Creek | 2012 | 400 | 95 | 93 |
| | 68 | Chester Creek | 2011 | 54 | 54 | 53 |
| | 68 | | 2013 | 2 | 2 | 2 |

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| Reporting group | Pop. No. | Location | Collection Year | $N_c$ | $N_g$ | $N_b$ |
|---|---|---|---|---|---|---|
| *Knik (cont.)* | 68 | | 2014 | 24 | 24 | 22 |
| | 69 | Campbell Creek[b] | 2009 | 125 | 95 | 94 |
| *Turnagain/Northeast* | 70 | Rabbit Creek | 2011 | 54 | 54 | 53 |
| | 70 | | 2013 | 2 | 2 | 2 |
| | 70 | | 2014 | 7 | 7 | 7 |
| | 71 | Twentymile River | 2018 | 123 | 100 | 95 |
| | 72 | Placer Creek | 2014 | 75 | 73 | 71 |
| | 73 | Williwaw Creek | 2013 | 22 | 22 | 22 |
| | 73 | | 2014 | 50 | 50 | 49 |
| | 73 | | 2017 | 35 | 33 | 30 |
| | 74 | Explorer Creek | 2013 | 95 | 95 | 91 |
| | 74 | | 2014 | 69 | 50 | 48 |
| | 75 | East Fork Sixmile Creek | 2018 | 66 | 66 | 65 |
| | 76 | Resurrection Creek | 2010 | 96 | 95 | 93 |
| | 77 | Chickaloon River | 2010 | 82 | 82 | 80 |
| | 77 | Mystery Creek | 2010 | 22 | 22 | 20 |
| | 78 | Sucker Creek | 1997 | 94 | 94 | 91 |
| | 79 | Gruska Creek | 2013 | 53 | 53 | 53 |
| | 79 | | 2014 | 55 | 50 | 50 |
| | 80 | Bishop Creek | 2014 | 62 | 62 | 57 |
| *Kenai* | 81 | Trail Creek | 2006 | 134 | 108 | 108 |
| | 82 | Grant Creek | 2013 | 100 | 95 | 95 |
| | 83 | South Fork Snow River | 1998 | 73 | 73 | 71 |
| | 83 | | 2002 | 50 | 24 | 24 |
| | 84 | Summit Creek | 2002 | 50 | 50 | 50 |
| | 85 | Tern Lake | 2002 | 96 | 95 | 95 |
| | 86 | Quartz Creek | 1998 | 75 | 74 | 73 |
| | 87 | Kenai Lake outlet | 2014 | 117 | 95 | 95 |
| | 88 | Russian River | 2013 | 101 | 95 | 93 |
| | 88 | | 2014 | 100 | 50 | 47 |
| | 89 | Skilak River | 2003 | 100 | 95 | 94 |
| | 90 | Skilak Lake outlet | 1999 | 80 | 80 | 78 |
| | 90 | | 2014 | 95 | 95 | 95 |
| | 91 | Killey River | 2000 | 68 | 70 | 67 |
| | 91 | | 2002 | 49 | 25 | 25 |
| | 92 | East Fork Moose River | 2002 | 100 | 94 | 93 |
| | 93 | Funny River | 2006 | 150 | 92 | 92 |
| | 94 | Slikok Creek | 2008 | 67 | 66 | 65 |

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Table 1.–Page 5 of 5.

| Reporting group | Pop. No. | Location | Collection Year | $N_c$ | $N_g$ | $N_b$ |
|---|---|---|---|---|---|---|
| *Kasilof* | 95 | Glacier Creek | 2009 | 68 | 65 | 65 |
| | 96 | Indian Creek | 2009 | 55 | 55 | 55 |
| | 97 | Nikolai Creek | 2009 | 92 | 92 | 88 |
| | 98 | Tustumena Lake outlet | 2009 | 100 | 95 | 90 |
| *Southeast CI* | 99 | Ninilchik River | 2013 | 108 | 95 | 94 |
| | 100 | Deep Creek | 2013 | 101 | 95 | 89 |
| | 101 | Stariski Creek | 2013 | 61 | 61 | 53 |
| | 101 | | 2014 | 100 | 34 | 34 |
| | 102 | Anchor River | 2006 | 164 | 55 | 55 |
| | 102 | | 2009 | 40 | 40 | 40 |
| | 103 | Fox River | 2013 | 117 | 117 | 109 |
| | 104 | Port Graham River | 2014 | 114 | 95 | 95 |
| Sample Total | | | | 12,567 | 10,275 | 10,069 |

[a] Alexander Creek is genetically more similar to Northwest CI Cook Inlet populations than Susitna River populations, so it was included in the Northwest CI reporting group.

[b] Campbell Creek is genetically similar to Ship Creek stock, so it was grouped with Knik Arm populations.

Table 2.–Baseline evaluation test correct allocation (%) summary results calculated using the R package *rubias* for 11 reporting groups: the number of test mixtures (*N*), range of compositions tested (Range), root mean square error (RMSE), the maximum percentage points from the true proportion where 90% of point estimates occurred (Within), mean bias (Bias), and the proportion of 90% credibility intervals containing the true proportion (PCI) for each reporting group.

| Reporting group | *N* | Range | RMSE | Within | Bias | PCI |
|---|---|---|---|---|---|---|
| *Southwest CI* | 100 | 1–100% | 2.3 | 3.4 | 0.2 | 91.0 |
| *Northwest CI* | 100 | 1–100% | 8.4 | 13.7 | –3.3 | 67.0 |
| *Susitna* | 100 | 1–100% | 5.4 | 9.0 | –0.9 | 83.0 |
| *Deshka* | 49 | 1–49% | 3.0 | 4.8 | –0.1 | 90.0 |
| *Yentna* | 100 | 1–100% | 6.3 | 10.0 | –0.4 | 77.0 |
| *Knik* | 100 | 1–100% | 4.7 | 7.6 | –1.3 | 81.0 |
| *Jim* | 49 | 1–49% | 1.6 | 2.6 | 0.0 | 98.0 |
| *Turnagain/Northeast CI* | 100 | 1–100% | 4.9 | 7.7 | 0.8 | 75.0 |
| *Kenai* | 100 | 1–100% | 1.1 | 2.0 | 0.0 | 100.0 |
| *Kasilof* | 39 | 1–39% | 1.6 | 2.9 | 0.0 | 100.0 |
| *Southeast CI* | 69 | 1–69% | 2.3 | 3.8 | 0.3 | 94.3 |

Table 3.–Offshore test fishery spatial and temporal mixtures for estimating stock compositions and stock-specific catch per unit effort for 2013–2016, including fishery, test fish stations represented, year and date sampled, and number of fish genotyped and used in the mix stock analysis.

| Fishery | Station | Year | Dates sampled | Number of fish | |
|---|---|---|---|---|---|
| | | | | Genotyped | Used |
| | | Spatial mixtures | | | |
| Northern offshore test | Stations 1–4 | 2013 | 7/3–7/30 | 197 | 196 |
| | Station 5 | 2013 | 7/5–7/30 | 160 | 153 |
| | Stations 6 & 7 | 2013 | 7/2–7/30 | 138 | 136 |
| | Stations 2–4 & 9–11 | 2014 | 7/6–7/30 | 212 | 205 |
| | Stations 5 & 8 | 2014 | 7/2–7/30 | 175 | 173 |
| Southern offshore test | Stations 4 & 5 | 2013 | 7/1–7/30 | 114 | 112 |
| | Station 6 | 2013 | 7/4–7/29 | 224 | 221 |
| | Station 6.5 | 2013 | 7/2–7/29 | 152 | 144 |
| | Stations 7 & 8 | 2013 | 7/2–7/28 | 260 | 249 |
| | Stations 4 & 5 | 2014 | 7/5–8/1 | 129 | 128 |
| | Station 6 | 2014 | 7/4–8/1 | 145 | 144 |
| | Station 6.5 | 2014 | 7/4–8/1 | 221 | 218 |
| | Station 7 & 8 | 2014 | 7/3–8/1 | 261 | 259 |
| | Stations 4–6.5 | 2015 | 7/1–7/30 | 233 | 232 |
| | Stations 7 & 8 | 2015 | 7/8–7/30 | 169 | 168 |
| | Stations 4–6 | 2016 | 7/1–7/29 | 180 | 174 |
| | Station 6.5 | 2016 | 7/3–7/29 | 157 | 156 |
| | Stations 7 & 8 | 2016 | 7/1–7/29 | 102 | 101 |
| | | Temporal mixtures | | | |
| Northern offshore test | All stations | 2013 | 7/2–7/14 | 132 | 132 |
| | | 2013 | 7/15–7/22 | 156 | 151 |
| | | 2013 | 7/23–7/30 | 207 | 202 |
| | | 2014 | 7/2–7/22 | 158 | 150 |
| | | 2014 | 7/23–7/30 | 230 | 228 |
| Southern offshore test | All stations | 2013 | 7/1–7/13 | 108 | 104 |
| | | 2013 | 7/15–7/22 | 268 | 262 |
| | | 2013 | 7/23–7/30 | 374 | 361 |
| | | 2014 | 7/3–7/22 | 284 | 279 |
| | | 2014 | 7/23–7/26 | 206 | 204 |
| | | 2014 | 7/27–8/1 | 266 | 266 |
| | | 2015 | 7/1–7/22 | 256 | 254 |
| | | 2015 | 7/23–7/30 | 146 | 145 |
| | | 2016 | 7/1–7/22 | 244 | 241 |
| | | 2016 | 7/23–7/29 | 195 | 190 |

*Note:* Temporal and spatial mixtures were formed from the same set of genotyped fish.

Table 4.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (*n*), and the percentage of the total index points for spatially grouped mixtures (Stations) of coho salmon captured in the northern offshore test fishery in 2013.

| | | | Stock composition | | | | | Stock-specific index points | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | | Within station | | | | Within year |
| | | | | | 90% CI | | | | | 90% CI | | |
| Station | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 1,2, 3, and 4 | 196 | *Southwest CI* | 0.1 | 0.6 | 0.0 | 1.1 | | 0 | 1 | 0 | 2 | 0.0 |
| | | *Northwest CI* | 33.6 | 8.0 | 20.7 | 46.9 | | 47 | 11 | 29 | 65 | 13.8 |
| | | *Susitna* | 19.5 | 8.4 | 5.9 | 33.1 | | 27 | 12 | 8 | 46 | 8.0 |
| | | *Deshka* | 5.3 | 4.6 | 0.9 | 13.6 | | 7 | 6 | 1 | 19 | 2.2 |
| | | *Yentna* | 24.8 | 9.5 | 10.5 | 41.1 | | 35 | 13 | 15 | 57 | 10.2 |
| | | *Knik* | 9.7 | 4.0 | 4.1 | 17.4 | | 13 | 6 | 6 | 24 | 4.0 |
| | | *Jim* | 2.7 | 2.9 | 0.0 | 8.1 | | 4 | 4 | 0 | 11 | 1.1 |
| | | *Turnagain/Northeast CI* | 3.6 | 4.0 | 0.0 | 11.2 | | 5 | 6 | 0 | 16 | 1.5 |
| | | *Kenai* | 0.0 | 0.7 | 0.0 | 1.3 | | 0 | 1 | 0 | 2 | 0.0 |
| | | *Kasilof* | 0.7 | 0.8 | 0.2 | 2.3 | | 1 | 1 | 0 | 3 | 0.3 |
| | | *Southeast CI* | 0.0 | 0.4 | 0.0 | 0.5 | | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 139 | | | | |
| 5 | 153 | *Southwest CI* | 0.7 | 1.0 | 0.3 | 3.0 | | 1 | 1 | 0 | 3 | 0.2 |
| | | *Northwest CI* | 1.4 | 4.3 | 0.0 | 10.6 | | 1 | 4 | 0 | 10 | 0.4 |
| | | *Susitna* | 21.4 | 7.4 | 10.1 | 34.7 | | 20 | 7 | 10 | 33 | 6.0 |
| | | *Deshka* | 0.0 | 0.4 | 0.0 | 0.0 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Yentna* | 62.9 | 8.4 | 48.8 | 76.6 | | 60 | 8 | 46 | 73 | 17.6 |
| | | *Knik* | 13.5 | 5.6 | 5.2 | 23.2 | | 13 | 5 | 5 | 22 | 3.8 |
| | | *Jim* | 0.0 | 1.3 | 0.0 | 2.0 | | 0 | 1 | 0 | 2 | 0.0 |
| | | *Turnagain/Northeast CI* | 0.0 | 1.1 | 0.0 | 2.2 | | 0 | 1 | 0 | 2 | 0.0 |
| | | *Kenai* | 0.0 | 0.3 | 0.0 | 0.5 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Kasilof* | 0.0 | 0.3 | 0.0 | 0.2 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.1 | 0.5 | 0.0 | 1.0 | | 0 | 0 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 95 | | | | |

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Table 4.–Page 2 of 2.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | Within station | | | | | Within year |
| | | | | | 90% CI | | | | 90% CI | | | |
| Station | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 6 and 7 | 136 | *Southwest CI* | 0.1 | 0.5 | 0.0 | 0.9 | | 0 | 0 | 0 | 1 | 0.0 |
| | | *Northwest CI* | 33.8 | 7.1 | 22.9 | 46.2 | | 35 | 8 | 24 | 49 | 10.5 |
| | | *Susitna* | 26.0 | 8.0 | 13.5 | 39.5 | | 27 | 8 | 14 | 42 | 8.1 |
| | | *Deshka* | 0.0 | 0.6 | 0.0 | 0.0 | | 0 | 1 | 0 | 0 | 0.0 |
| | | *Yentna* | 36.0 | 8.6 | 21.0 | 49.7 | | 38 | 9 | 22 | 52 | 11.2 |
| | | *Knik* | 2.2 | 2.7 | 0.1 | 7.7 | | 2 | 3 | 0 | 8 | 0.7 |
| | | *Jim* | 1.2 | 2.2 | 0.0 | 5.9 | | 1 | 2 | 0 | 6 | 0.4 |
| | | *Turnagain/Northeast CI* | 0.7 | 3.5 | 0.0 | 7.3 | | 1 | 4 | 0 | 8 | 0.2 |
| | | *Kenai* | 0.0 | 0.6 | 0.0 | 1.1 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.0 | 0.2 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.3 | 0.0 | 0.5 | | 0 | 0 | 0 | 0 | 0.0 |
| | | | | | | | Index points | 105 | | | | |
| | | | | | | | Total index points | 339 | | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding error.

Table 5.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (*n*), and the percentage of the total index points for spatially grouped mixtures (Stations) of coho salmon captured in the northern offshore test fishery in 2014.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | Within station | | | | | Within year |
| | | | | | 90% CI | | | | 90% CI | | | |
| Station | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 2, 3, 4, 9, 10 and 11 | 205 | *Southwest CI* | 0.0 | 0.2 | 0.0 | 0.3 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Northwest CI* | 7.1 | 3.8 | 1.6 | 14.2 | | 11 | 6 | 3 | 22 | 3.7 |
| | | *Susitna* | 38.7 | 6.9 | 27.8 | 50.3 | | 60 | 11 | 43 | 78 | 20.2 |
| | | *Deshka* | 7.9 | 4.0 | 0.0 | 14.5 | | 12 | 6 | 0 | 22 | 4.2 |
| | | *Yentna* | 12.0 | 5.1 | 4.2 | 20.9 | | 19 | 8 | 7 | 32 | 6.3 |
| | | *Knik* | 33.8 | 4.9 | 25.8 | 42.1 | | 52 | 8 | 40 | 65 | 17.7 |
| | | *Jim* | 0.0 | 1.4 | 0.0 | 3.0 | | 0 | 2 | 0 | 5 | 0.0 |
| | | *Turnagain/Northeast CI* | 0.0 | 1.8 | 0.0 | 3.8 | | 0 | 3 | 0 | 6 | 0.0 |
| | | *Kenai* | 0.5 | 0.5 | 0.0 | 1.5 | | 1 | 1 | 0 | 2 | 0.2 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.2 | 0.0 | 0.3 | | 0 | 0 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 155 | | | | |
| 5 and 8 | 173 | *Southwest CI* | 0.1 | 0.4 | 0.0 | 0.8 | | 0 | 1 | 0 | 1 | 0.1 |
| | | *Northwest CI* | 1.0 | 5.9 | 0.0 | 12.9 | | 1 | 8 | 0 | 18 | 0.5 |
| | | *Susitna* | 21.1 | 7.5 | 8.9 | 34.0 | | 30 | 11 | 13 | 48 | 10.1 |
| | | *Deshka* | 0.8 | 2.5 | 0.0 | 6.8 | | 1 | 4 | 0 | 10 | 0.4 |
| | | *Yentna* | 35.9 | 7.3 | 24.0 | 48.2 | | 51 | 10 | 34 | 68 | 17.1 |
| | | *Knik* | 26.9 | 7.1 | 14.9 | 38.6 | | 38 | 10 | 21 | 55 | 12.8 |
| | | *Jim* | 12.3 | 4.0 | 6.3 | 19.1 | | 17 | 6 | 9 | 27 | 5.9 |
| | | *Turnagain/Northeast CI* | 1.5 | 4.6 | 0.0 | 12.0 | | 2 | 6 | 0 | 17 | 0.7 |
| | | *Kenai* | 0.0 | 0.5 | 0.0 | 1.0 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.6 | 1.0 | 0.2 | 2.9 | | 1 | 1 | 0 | 4 | 0.3 |
| | | *Southeast CI* | 0.0 | 0.2 | 0.0 | 0.3 | | 0 | 0 | 0 | 0 | 0.0 |
| | | | | | | | Index points | 142 | | | | |
| | | | | | | | Total index points | 297 | | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding error.

Table 6.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (*n*), and the percentage of the total index points for spatially grouped mixtures (Stations) of coho salmon captured in the southern offshore test fishery in 2013.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | Within station | | | | | Within year |
| | | | | | 90% CI | | | | 90% CI | | | |
| Station | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 4 and 5 | 112 | *Southwest CI* | 2.9 | 2.1 | 0.1 | 6.6 | | 2 | 2 | 0 | 6 | 0.5 |
| | | *Northwest CI* | 5.7 | 6.3 | 0.0 | 16.6 | | 5 | 5 | 0 | 14 | 1.0 |
| | | *Susitna* | 36.9 | 8.9 | 22.3 | 51.6 | | 32 | 8 | 19 | 45 | 6.5 |
| | | *Deshka* | 0.0 | 0.8 | 0.0 | 0.0 | | 0 | 1 | 0 | 0 | 0.0 |
| | | *Yentna* | 35.6 | 9.1 | 20.5 | 50.6 | | 31 | 8 | 18 | 44 | 6.2 |
| | | *Knik* | 12.6 | 6.0 | 2.8 | 23.2 | | 11 | 5 | 2 | 20 | 2.2 |
| | | *Jim* | 1.9 | 3.0 | 0.0 | 7.9 | | 2 | 3 | 0 | 7 | 0.3 |
| | | *Turnagain/Northeast CI* | 0.0 | 3.5 | 0.0 | 8.1 | | 0 | 3 | 0 | 7 | 0.0 |
| | | *Kenai* | 2.5 | 1.7 | 0.4 | 5.6 | | 2 | 1 | 0 | 5 | 0.4 |
| | | *Kasilof* | 1.0 | 1.9 | 0.3 | 5.3 | | 1 | 2 | 0 | 5 | 0.2 |
| | | *Southeast CI* | 1.0 | 1.8 | 0.0 | 4.8 | | 1 | 2 | 0 | 4 | 0.2 |
| | | | | | | | Index points | 87 | | | | |
| 6 | 221 | *Southwest CI* | 1.0 | 0.9 | 0.3 | 2.9 | | 1 | 1 | 0 | 4 | 0.3 |
| | | *Northwest CI* | 13.1 | 5.6 | 2.8 | 21.9 | | 18 | 8 | 4 | 31 | 3.7 |
| | | *Susitna* | 16.9 | 7.4 | 4.9 | 28.9 | | 24 | 10 | 7 | 40 | 4.8 |
| | | *Deshka* | 7.8 | 4.8 | 1.9 | 15.3 | | 11 | 7 | 3 | 21 | 2.2 |
| | | *Yentna* | 47.8 | 6.5 | 37.4 | 58.3 | | 67 | 9 | 52 | 82 | 13.5 |
| | | *Knik* | 3.6 | 3.5 | 0.1 | 10.5 | | 5 | 5 | 0 | 15 | 1.0 |
| | | *Jim* | 5.6 | 3.0 | 0.7 | 10.8 | | 8 | 4 | 1 | 15 | 1.6 |
| | | *Turnagain/Northeast CI* | 2.9 | 3.8 | 0.0 | 10.3 | | 4 | 5 | 0 | 14 | 0.8 |
| | | *Kenai* | 0.6 | 1.0 | 0.0 | 2.8 | | 1 | 1 | 0 | 4 | 0.2 |
| | | *Kasilof* | 0.0 | 0.4 | 0.0 | 0.4 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Southeast CI* | 0.8 | 1.1 | 0.1 | 3.2 | | 1 | 2 | 0 | 4 | 0.2 |
| | | | | | | | Index points | 140 | | | | |

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Table 6.–Page 2 of 2.

| | | | Stock composition | | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | | Within station | | | | | Within year |
| | | | | | 90% CI | | | | | 90% CI | | | |
| Station | *n* | Reporting group | Estimate | SD | 0.1 | 1.0 | | | Estimate | SD | 5% | 95% | Percentage |
| 6.5 | 144 | *Southwest CI* | 1.4 | 1.1 | 0.1 | 3.5 | | | 1 | 1 | 0 | 3 | 0.3 |
| | | *Northwest CI* | 8.9 | 6.3 | 1.4 | 20.0 | | | 8 | 6 | 1 | 18 | 1.6 |
| | | *Susitna* | 43.0 | 9.1 | 27.6 | 57.6 | | | 39 | 8 | 25 | 52 | 7.9 |
| | | *Deshka* | 0.0 | 1.1 | 0.0 | 0.5 | | | 0 | 1 | 0 | 0 | 0.0 |
| | | *Yentna* | 35.1 | 9.4 | 20.5 | 51.1 | | | 32 | 9 | 19 | 46 | 6.4 |
| | | *Knik* | 10.9 | 6.3 | 1.7 | 22.2 | | | 10 | 6 | 2 | 20 | 2.0 |
| | | *Jim* | 0.4 | 2.3 | 0.0 | 5.4 | | | 0 | 2 | 0 | 5 | 0.1 |
| | | *Turnagain/Northeast CI* | 0.0 | 1.2 | 0.0 | 2.0 | | | 0 | 1 | 0 | 2 | 0.0 |
| | | *Kenai* | 0.4 | 0.8 | 0.0 | 1.9 | | | 0 | 1 | 0 | 2 | 0.1 |
| | | *Kasilof* | 0.0 | 0.2 | 0.0 | 0.1 | | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.7 | 0.0 | 1.3 | | | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | | Index points | 91 | | | | |
| 7 and 8 | 249 | *Southwest CI* | 0.7 | 0.6 | 0.2 | 1.9 | | | 1 | 1 | 0 | 3 | 0.3 |
| | | *Northwest CI* | 16.0 | 5.8 | 6.7 | 26.0 | | | 28 | 10 | 12 | 46 | 5.7 |
| | | *Susitna* | 8.4 | 6.3 | 0.0 | 19.3 | | | 15 | 11 | 0 | 34 | 3.0 |
| | | *Deshka* | 7.5 | 4.1 | 2.1 | 14.2 | | | 13 | 7 | 4 | 25 | 2.7 |
| | | *Yentna* | 51.4 | 7.6 | 38.9 | 63.9 | | | 91 | 14 | 69 | 114 | 18.5 |
| | | *Knik* | 9.9 | 3.2 | 4.9 | 15.4 | | | 18 | 6 | 9 | 27 | 3.5 |
| | | *Jim* | 6.1 | 2.8 | 1.7 | 10.7 | | | 11 | 5 | 3 | 19 | 2.2 |
| | | *Turnagain/Northeast CI* | 0.0 | 1.0 | 0.0 | 2.2 | | | 0 | 2 | 0 | 4 | 0.0 |
| | | *Kenai* | 0.0 | 0.5 | 0.0 | 1.0 | | | 0 | 1 | 0 | 2 | 0.0 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.2 | | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.2 | 0.0 | 0.2 | | | 0 | 0 | 0 | 0 | 0.0 |
| | | | | | | | | Index points | 178 | | | | |
| | | | | | | | | Total index points | 495 | | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding error.

Table 7.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (*n*), and the percentage of the total index points for spatially grouped mixtures (Stations) of coho salmon captured in the southern offshore test fishery in 2014.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | Within station | | | | | Within year |
| | | | | | 90% CI | | | | 90% CI | | | |
| Station | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 4 and 5 | 128 | *Southwest CI* | 0.0 | 0.5 | 0.0 | 0.8 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Northwest CI* | 9.8 | 5.5 | 1.3 | 19.5 | | 10 | 6 | 1 | 20 | 1.6 |
| | | *Susitna* | 5.2 | 7.9 | 0.0 | 19.7 | | 5 | 8 | 0 | 21 | 0.8 |
| | | *Deshka* | 0.2 | 1.8 | 0.0 | 4.2 | | 0 | 2 | 0 | 4 | 0.0 |
| | | *Yentna* | 46.8 | 8.2 | 33.2 | 60.3 | | 49 | 9 | 35 | 63 | 7.4 |
| | | *Knik* | 36.6 | 6.0 | 27.3 | 46.8 | | 38 | 6 | 28 | 49 | 5.8 |
| | | *Jim* | 0.6 | 1.2 | 0.1 | 3.2 | | 1 | 1 | 0 | 3 | 0.1 |
| | | *Turnagain/Northeast CI* | 0.3 | 3.3 | 0.0 | 7.9 | | 0 | 3 | 0 | 8 | 0.1 |
| | | *Kenai* | 0.4 | 0.9 | 0.0 | 2.1 | | 0 | 1 | 0 | 2 | 0.1 |
| | | *Kasilof* | 0.0 | 0.2 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.6 | 0.0 | 0.7 | | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 104 | | | | |
| 6 | 144 | *Southwest CI* | 2.9 | 1.4 | 0.9 | 5.7 | | 3 | 2 | 1 | 7 | 0.5 |
| | | *Northwest CI* | 6.9 | 7.0 | 0.7 | 20.6 | | 8 | 8 | 1 | 24 | 1.2 |
| | | *Susitna* | 35.5 | 7.9 | 22.1 | 48.2 | | 42 | 9 | 26 | 57 | 6.4 |
| | | *Deshka* | 5.0 | 5.1 | 1.8 | 16.1 | | 6 | 6 | 2 | 19 | 0.9 |
| | | *Yentna* | 12.3 | 6.2 | 1.8 | 23.0 | | 14 | 7 | 2 | 27 | 2.2 |
| | | *Knik* | 22.8 | 5.2 | 15.0 | 31.3 | | 27 | 6 | 18 | 37 | 4.1 |
| | | *Jim* | 0.6 | 1.0 | 0.2 | 3.0 | | 1 | 1 | 0 | 3 | 0.1 |
| | | *Turnagain/Northeast CI* | 13.9 | 5.6 | 3.3 | 23.1 | | 16 | 7 | 4 | 27 | 2.5 |
| | | *Kenai* | 0.0 | 0.4 | 0.0 | 0.7 | | 0 | 0 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.0 | 0.4 | 0.0 | 0.5 | | 0 | 0 | 0 | 1 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.7 | 0.0 | 1.2 | | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 117 | | | | |

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Table 7.–Page 2 of 2.

| | | | Stock composition | | | | | Stock-specific index points | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | | Within station | | | | Within year |
| | | | | | 90% CI | | | | | 90% CI | | |
| Station | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 6.5 | 218 | *Southwest CI* | 2.2 | 1.1 | 0.8 | 4.3 | | 4 | 2 | 1 | 8 | 0.6 |
| | | *Northwest CI* | 12.0 | 4.5 | 5.1 | 20.4 | | 22 | 8 | 9 | 37 | 3.3 |
| | | *Susitna* | 40.8 | 7.0 | 29.8 | 52.7 | | 75 | 13 | 55 | 96 | 11.4 |
| | | *Deshka* | 5.3 | 3.6 | 1.9 | 11.7 | | 10 | 7 | 3 | 21 | 1.5 |
| | | *Yentna* | 10.9 | 5.4 | 2.6 | 19.9 | | 20 | 10 | 5 | 36 | 3.0 |
| | | *Knik* | 25.5 | 4.5 | 18.2 | 33.1 | | 47 | 8 | 33 | 61 | 7.1 |
| | | *Jim* | 0.0 | 0.7 | 0.0 | 0.4 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Turnagain/Northeast CI* | 2.8 | 3.9 | 0.0 | 10.1 | | 5 | 7 | 0 | 18 | 0.8 |
| | | *Kenai* | 0.4 | 0.6 | 0.0 | 1.6 | | 1 | 1 | 0 | 3 | 0.1 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.4 | 0.0 | 0.7 | | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 183 | | | | |
| 7 and 8 | 259 | *Southwest CI* | 1.9 | 1.0 | 0.7 | 3.8 | | 5 | 2 | 2 | 9 | 0.7 |
| | | *Northwest CI* | 16.7 | 5.1 | 9.5 | 26.0 | | 42 | 13 | 24 | 65 | 6.4 |
| | | *Susitna* | 35.6 | 5.7 | 26.5 | 45.2 | | 89 | 14 | 66 | 113 | 13.6 |
| | | *Deshka* | 10.7 | 3.8 | 4.7 | 17.1 | | 27 | 10 | 12 | 43 | 4.1 |
| | | *Yentna* | 12.0 | 5.8 | 3.3 | 22.6 | | 30 | 15 | 8 | 57 | 4.6 |
| | | *Knik* | 16.0 | 3.6 | 10.4 | 22.3 | | 40 | 9 | 26 | 56 | 6.1 |
| | | *Jim* | 0.1 | 0.8 | 0.0 | 1.8 | | 0 | 2 | 0 | 4 | 0.0 |
| | | *Turnagain/Northeast CI* | 6.1 | 3.0 | 1.7 | 11.7 | | 15 | 7 | 4 | 29 | 2.3 |
| | | *Kenai* | 0.9 | 0.7 | 0.0 | 2.3 | | 2 | 2 | 0 | 6 | 0.3 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.3 | 0.0 | 0.4 | | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 251 | | | | |
| | | | | | | | Total index points | 655 | | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding error.

Table 8.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (*n*), and the percentage of the total index points for spatially grouped mixtures (Stations) of coho salmon captured in the southern offshore test fishery in 2015.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | Within station | | | | | Within year |
| | | | | | 90% CI | | | | 90% CI | | | |
| Station | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 4, 5, 6, and 6.5 | 232 | *Southwest CI* | 3.1 | 1.3 | 1.2 | 5.6 | | 5 | 2 | 2 | 8 | 1.6 |
| | | *Northwest CI* | 23.3 | 5.2 | 14.4 | 31.7 | | 34 | 8 | 21 | 47 | 12.4 |
| | | *Susitna* | 17.5 | 6.4 | 7.4 | 28.2 | | 26 | 9 | 11 | 42 | 9.3 |
| | | *Deshka* | 9.3 | 4.0 | 2.6 | 15.9 | | 14 | 6 | 4 | 23 | 5.0 |
| | | *Yentna* | 20.4 | 5.6 | 11.6 | 30.2 | | 30 | 8 | 17 | 45 | 10.9 |
| | | *Knik* | 24.8 | 4.2 | 17.9 | 32.1 | | 37 | 6 | 26 | 47 | 13.2 |
| | | *Jim* | 0.7 | 1.6 | 0.0 | 4.4 | | 1 | 2 | 0 | 6 | 0.4 |
| | | *Turnagain/Northeast CI* | 0.0 | 2.5 | 0.0 | 5.7 | | 0 | 4 | 0 | 8 | 0.0 |
| | | *Kenai* | 0.0 | 0.2 | 0.0 | 0.4 | | 0 | 0 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.9 | 1.0 | 0.0 | 3.1 | | 1 | 1 | 0 | 5 | 0.5 |
| | | | | | | | Index points | 148 | | | | |
| 7 and 8 | 168 | *Southwest CI* | 4.0 | 1.7 | 1.7 | 7.2 | | 5 | 2 | 2 | 9 | 1.9 |
| | | *Northwest CI* | 9.8 | 6.3 | 0.6 | 21.9 | | 13 | 8 | 1 | 28 | 4.6 |
| | | *Susitna* | 34.3 | 7.5 | 21.9 | 46.6 | | 44 | 10 | 28 | 60 | 16.0 |
| | | *Deshka* | 1.7 | 3.2 | 0.4 | 9.6 | | 2 | 4 | 1 | 12 | 0.8 |
| | | *Yentna* | 27.6 | 6.7 | 16.7 | 38.7 | | 36 | 9 | 22 | 50 | 12.9 |
| | | *Knik* | 21.3 | 4.9 | 13.7 | 29.8 | | 28 | 6 | 18 | 39 | 10.0 |
| | | *Jim* | 0.0 | 0.9 | 0.0 | 1.1 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Turnagain/Northeast CI* | 1.2 | 3.9 | 0.0 | 9.5 | | 2 | 5 | 0 | 12 | 0.6 |
| | | *Kenai* | 0.0 | 0.3 | 0.0 | 0.5 | | 0 | 0 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.0 | 0.2 | 0.0 | 0.2 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.1 | 0.8 | 0.0 | 1.7 | | 0 | 1 | 0 | 2 | 0.0 |
| | | | | | | | Index points | 130 | | | | |
| | | | | | | | Total index points | 277 | | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding error.

Table 9.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (*n*), and the percentage of the total index points for spatially grouped mixtures (Stations) of coho salmon captured in the southern offshore test fishery in 2016.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | Within station | | | | | Within year |
| | | | | | 90% CI | | | | 90% CI | | | |
| Station | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 4, 5, and 6 | 174 | *Southwest CI* | 1.7 | 1.0 | 0.5 | 3.7 | | 2 | 1 | 1 | 5 | 0.7 |
| | | *Northwest CI* | 17.2 | 6.3 | 5.8 | 27.3 | | 23 | 8 | 8 | 37 | 7.0 |
| | | *Susitna* | 27.8 | 7.3 | 15.8 | 40.5 | | 37 | 10 | 21 | 55 | 11.3 |
| | | *Deshka* | 1.3 | 2.4 | 0.4 | 7.2 | | 2 | 3 | 1 | 10 | 0.5 |
| | | *Yentna* | 22.9 | 6.9 | 12.5 | 34.9 | | 31 | 9 | 17 | 47 | 9.3 |
| | | *Knik* | 14.1 | 5.1 | 6.6 | 23.1 | | 19 | 7 | 9 | 31 | 5.7 |
| | | *Jim* | 6.9 | 4.4 | 1.0 | 14.5 | | 9 | 6 | 1 | 20 | 2.8 |
| | | *Turnagain/Northeast CI* | 5.6 | 4.6 | 0.1 | 13.6 | | 8 | 6 | 0 | 18 | 2.3 |
| | | *Kenai* | 1.3 | 1.1 | 0.0 | 3.5 | | 2 | 2 | 0 | 5 | 0.5 |
| | | *Kasilof* | 1.0 | 1.1 | 0.2 | 3.3 | | 1 | 2 | 0 | 4 | 0.4 |
| | | *Southeast CI* | 0.1 | 0.7 | 0.0 | 1.6 | | 0 | 1 | 0 | 2 | 0.1 |
| | | | | | | | Index points | 135 | | | | |
| 6.5 | 156 | *Southwest CI* | 0.8 | 1.0 | 0.0 | 2.8 | | 1 | 1 | 0 | 3 | 0.3 |
| | | *Northwest CI* | 12.9 | 7.0 | 2.1 | 25.2 | | 15 | 8 | 2 | 29 | 4.6 |
| | | *Susitna* | 27.3 | 8.5 | 13.3 | 41.6 | | 32 | 10 | 16 | 49 | 9.7 |
| | | *Deshka* | 0.3 | 1.2 | 0.0 | 0.6 | | 0 | 1 | 0 | 1 | 0.1 |
| | | *Yentna* | 22.7 | 8.8 | 8.1 | 37.5 | | 27 | 10 | 9 | 44 | 8.0 |
| | | *Knik* | 22.0 | 6.1 | 13.0 | 32.5 | | 26 | 7 | 15 | 38 | 7.8 |
| | | *Jim* | 9.8 | 3.8 | 4.2 | 16.5 | | 12 | 4 | 5 | 19 | 3.5 |
| | | *Turnagain/Northeast CI* | 0.0 | 3.0 | 0.0 | 6.4 | | 0 | 3 | 0 | 7 | 0.0 |
| | | *Kenai* | 1.0 | 1.0 | 0.1 | 3.0 | | 1 | 1 | 0 | 3 | 0.3 |
| | | *Kasilof* | 1.6 | 1.8 | 0.4 | 5.3 | | 2 | 2 | 0 | 6 | 0.6 |
| | | *Southeast CI* | 1.6 | 1.8 | 0.3 | 5.3 | | 2 | 2 | 0 | 6 | 0.6 |
| | | | | | | | Index points | 117 | | | | |

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Table 9.–Page 2 of 2.

| | | | Stock composition | | | | Stock-specific index points | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within station | | | | Within station | | | | Within year |
| | | | | | 90% CI | | | | 90% CI | | |
| Station | *n* | Reporting group | Estimate | SD | 5% | 95% | Estimate | SD | 5% | 95% | Percentage |
| 7 and 8 | 101 | *Southwest CI* | 3.1 | 2.0 | 0.3 | 6.8 | 2 | 2 | 0 | 5 | 0.7 |
| | | *Northwest CI* | 24.5 | 10.1 | 8.8 | 42.1 | 19 | 8 | 7 | 33 | 5.8 |
| | | *Susitna* | 5.1 | 9.8 | 0.0 | 22.4 | 4 | 8 | 0 | 18 | 1.2 |
| | | *Deshka* | 0.1 | 1.5 | 0.0 | 2.2 | 0 | 1 | 0 | 2 | 0.0 |
| | | *Yentna* | 43.0 | 9.3 | 27.5 | 58.4 | 34 | 7 | 22 | 46 | 10.3 |
| | | *Knik* | 10.7 | 6.8 | 0.4 | 22.5 | 8 | 5 | 0 | 18 | 2.5 |
| | | *Jim* | 0.0 | 1.1 | 0.0 | 1.8 | 0 | 1 | 0 | 1 | 0.0 |
| | | *Turnagain/Northeast CI* | 12.7 | 9.1 | 2.2 | 29.7 | 10 | 7 | 2 | 23 | 3.0 |
| | | *Kenai* | 0.0 | 0.5 | 0.0 | 0.9 | 0 | 0 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.2 | 0.6 | 0.0 | 1.4 | 0 | 0 | 0 | 1 | 0.0 |
| | | *Southeast CI* | 0.6 | 1.1 | 0.0 | 2.8 | 0 | 1 | 0 | 2 | 0.1 |
| | | | | | | | Index points | 79 | | | |
| | | | | | | | Total index points | 331 | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding error.

Table 10.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (*n*), and the percentage of the total index points for temporally grouped mixtures (date ranges) of coho salmon captured in the northern offshore test fishery in 2013.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within date range | | | | Within date range | | | | | Within year |
| Date | | | | | 90% CI | | | | 90% CI | | | |
| range | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 7/2–14 | 132 | *Southwest CI* | 1.8 | 1.9 | 0.6 | 5.9 | | 2 | 2 | 0 | 5 | 0.5 |
| | | *Northwest CI* | 12.1 | 6.6 | 0.0 | 23.0 | | 10 | 6 | 0 | 19 | 3.0 |
| | | *Susitna* | 29.7 | 8.5 | 15.7 | 43.6 | | 25 | 7 | 13 | 37 | 7.4 |
| | | *Deshka* | 1.7 | 2.8 | 0.6 | 8.9 | | 1 | 2 | 1 | 7 | 0.4 |
| | | *Yentna* | 32.8 | 9.3 | 19.3 | 49.8 | | 28 | 8 | 16 | 42 | 8.2 |
| | | *Knik* | 18.4 | 7.1 | 8.5 | 31.3 | | 16 | 6 | 7 | 26 | 4.6 |
| | | *Jim* | 3.1 | 4.2 | 0.0 | 11.5 | | 3 | 4 | 0 | 10 | 0.8 |
| | | *Turnagain/Northeast CI* | 0.3 | 2.8 | 0.0 | 6.5 | | 0 | 2 | 0 | 5 | 0.1 |
| | | *Kenai* | 0.0 | 0.3 | 0.0 | 0.5 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Kasilof* | 0.0 | 0.2 | 0.0 | 0.2 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.6 | 0.0 | 0.8 | | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 84 | | | | |
| 7/15–22 | 151 | *Southwest CI* | 0.1 | 0.6 | 0.0 | 1.0 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Northwest CI* | 9.4 | 6.6 | 0.5 | 21.9 | | 9 | 6 | 0 | 21 | 2.7 |
| | | *Susitna* | 27.3 | 8.4 | 13.4 | 41.0 | | 27 | 8 | 13 | 40 | 7.8 |
| | | *Deshka* | 0.3 | 1.9 | 0.0 | 4.7 | | 0 | 2 | 0 | 5 | 0.1 |
| | | *Yentna* | 49.5 | 10.3 | 32.4 | 66.4 | | 48 | 10 | 32 | 65 | 14.2 |
| | | *Knik* | 8.2 | 3.4 | 3.4 | 13.8 | | 8 | 3 | 3 | 13 | 2.4 |
| | | *Jim* | 3.0 | 3.4 | 0.5 | 9.8 | | 3 | 3 | 1 | 10 | 0.9 |
| | | *Turnagain/Northeast CI* | 0.0 | 1.1 | 0.0 | 2.5 | | 0 | 1 | 0 | 2 | 0.0 |
| | | *Kenai* | 0.0 | 0.7 | 0.0 | 1.5 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Kasilof* | 2.1 | 1.8 | 0.4 | 5.7 | | 2 | 2 | 0 | 6 | 0.6 |
| | | *Southeast CI* | 0.0 | 0.3 | 0.0 | 0.4 | | 0 | 0 | 0 | 0 | 0.0 |
| | | | | | | | Index points | 97 | | | | |

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Table 10.–Page 2 of 2.

| Date range | *n* | Reporting group | Stock composition: Within date range: Estimate | SD | 90% CI: 5% | 95% | Stock-specific index points: Within date range: Estimate | SD | 90% CI: 5% | 95% | Within year: Percentage |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/23–30 | 202 | *Southwest CI* | 0.2 | 0.4 | 0.0 | 1.1 | 0 | 1 | 0 | 2 | 0.1 |
| | | *Northwest CI* | 12.6 | 6.0 | 1.8 | 23.2 | 20 | 9 | 3 | 37 | 5.9 |
| | | *Susitna* | 12.4 | 6.5 | 1.0 | 23.2 | 19 | 10 | 2 | 36 | 5.7 |
| | | *Deshka* | 0.0 | 0.3 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0.0 |
| | | *Yentna* | 49.0 | 6.7 | 37.6 | 60.1 | 77 | 11 | 59 | 94 | 22.7 |
| | | *Knik* | 22.2 | 5.1 | 13.9 | 30.5 | 35 | 8 | 22 | 48 | 10.3 |
| | | *Jim* | 0.0 | 1.1 | 0.0 | 2.7 | 0 | 2 | 0 | 4 | 0.0 |
| | | *Turnagain/Northeast CI* | 3.5 | 3.8 | 0.0 | 10.0 | 6 | 6 | 0 | 16 | 1.6 |
| | | *Kenai* | 0.0 | 0.4 | 0.0 | 0.7 | 0 | 1 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.4 | 0.0 | 0.7 | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 157 | | | |
| | | | | | | | Total index points | 339 | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding error.

Table 11.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (*n*), and the percentage of the total index points for temporally grouped mixtures (date ranges) of coho salmon captured in the northern offshore test fishery in 2014.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within date range | | | | Within date range | | | | | Within year |
| Date | | | | | 90% CI | | | | 90% CI | | | |
| range | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 7/2–22 | 150 | *Southwest CI* | 0.2 | 0.7 | 0.0 | 1.5 | | 0 | 1 | 0 | 2 | 0.1 |
| | | *Northwest CI* | 15.3 | 8.3 | 1.5 | 28.4 | | 17 | 9 | 2 | 31 | 5.6 |
| | | *Susitna* | 21.6 | 8.4 | 7.7 | 36.4 | | 24 | 9 | 8 | 40 | 8.0 |
| | | *Deshka* | 3.5 | 5.6 | 0.0 | 15.1 | | 4 | 6 | 0 | 17 | 1.3 |
| | | *Yentna* | 24.1 | 8.7 | 9.7 | 38.3 | | 26 | 10 | 11 | 42 | 8.9 |
| | | *Knik* | 32.8 | 7.3 | 21.1 | 45.2 | | 36 | 8 | 23 | 49 | 12.1 |
| | | *Jim* | 2.4 | 3.9 | 0.0 | 10.8 | | 3 | 4 | 0 | 12 | 0.9 |
| | | *Turnagain/Northeast CI* | 0.0 | 1.5 | 0.0 | 2.8 | | 0 | 2 | 0 | 3 | 0.0 |
| | | *Kenai* | 0.0 | 0.2 | 0.0 | 0.4 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Kasilof* | 0.0 | 0.3 | 0.0 | 0.2 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.2 | 0.0 | 0.3 | | 0 | 0 | 0 | 0 | 0.0 |
| | | | | | | | Index points | 110 | | | | |
| 7/23–30 | 228 | *Southwest CI* | 0.0 | 0.2 | 0.0 | 0.3 | | 0 | 0 | 0 | 1 | 0.0 |
| | | *Northwest CI* | 11.5 | 6.0 | 1.9 | 22.3 | | 22 | 11 | 3 | 42 | 7.3 |
| | | *Susitna* | 40.9 | 7.0 | 29.0 | 52.2 | | 77 | 13 | 54 | 98 | 25.8 |
| | | *Deshka* | 1.7 | 2.7 | 0.3 | 7.9 | | 3 | 5 | 1 | 15 | 1.1 |
| | | *Yentna* | 16.9 | 5.4 | 9.1 | 26.7 | | 32 | 10 | 17 | 50 | 10.7 |
| | | *Knik* | 17.3 | 4.8 | 10.0 | 25.9 | | 32 | 9 | 19 | 49 | 10.9 |
| | | *Jim* | 8.4 | 3.4 | 2.6 | 13.9 | | 16 | 6 | 5 | 26 | 5.3 |
| | | *Turnagain/Northeast CI* | 2.4 | 4.2 | 0.0 | 11.0 | | 5 | 8 | 0 | 21 | 1.5 |
| | | *Kenai* | 0.8 | 0.7 | 0.0 | 2.1 | | 1 | 1 | 0 | 4 | 0.5 |
| | | *Kasilof* | 0.0 | 0.2 | 0.0 | 0.2 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.3 | 0.0 | 0.3 | | 0 | 0 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 187 | | | | |
| | | | | | | | Total index points | 297 | | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding error.

Table 12.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (n), and the percentage of the total index points for temporally grouped mixtures (date ranges) of coho salmon captured in the southern offshore test fishery in 2013.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within date range | | | | Within date range | | | | | Within year |
| Date | | | | | 90% CI | | | | 90% CI | | | |
| range | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 7/1–13 | 104 | *Southwest CI* | 0.5 | 1.2 | 0.0 | 2.8 | | 0 | 1 | 0 | 2 | 0.1 |
| | | *Northwest CI* | 0.0 | 2.9 | 0.0 | 5.8 | | 0 | 2 | 0 | 4 | 0.0 |
| | | *Susitna* | 28.6 | 10.5 | 12.7 | 47.3 | | 21 | 8 | 9 | 35 | 4.3 |
| | | *Deshka* | 4.4 | 6.0 | 0.5 | 17.3 | | 3 | 4 | 0 | 13 | 0.7 |
| | | *Yentna* | 45.6 | 10.2 | 28.3 | 61.6 | | 34 | 8 | 21 | 46 | 6.8 |
| | | *Knik* | 15.0 | 6.1 | 4.7 | 26.0 | | 11 | 4 | 3 | 19 | 2.2 |
| | | *Jim* | 4.2 | 2.4 | 0.7 | 8.6 | | 3 | 2 | 0 | 6 | 0.6 |
| | | *Turnagain/Northeast CI* | 0.0 | 1.4 | 0.0 | 2.6 | | 0 | 1 | 0 | 2 | 0.0 |
| | | *Kenai* | 0.0 | 0.4 | 0.0 | 0.7 | | 0 | 0 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.0 | 0.4 | 0.0 | 0.2 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 1.8 | 1.8 | 0.0 | 5.3 | | 1 | 1 | 0 | 4 | 0.3 |
| | | | | | | | Index points | 74 | | | | |
| 7/15–22 | 262 | *Southwest CI* | 3.2 | 1.3 | 1.4 | 5.8 | | 6 | 2 | 3 | 10 | 1.2 |
| | | *Northwest CI* | 4.6 | 4.2 | 0.7 | 12.6 | | 8 | 7 | 1 | 22 | 1.7 |
| | | *Susitna* | 25.2 | 6.6 | 14.3 | 36.0 | | 45 | 12 | 25 | 64 | 9.0 |
| | | *Deshka* | 0.0 | 0.3 | 0.0 | 0.0 | | 0 | 1 | 0 | 0 | 0.0 |
| | | *Yentna* | 47.9 | 6.5 | 37.7 | 59.1 | | 85 | 11 | 67 | 105 | 17.1 |
| | | *Knik* | 5.6 | 3.4 | 1.0 | 11.9 | | 10 | 6 | 2 | 21 | 2.0 |
| | | *Jim* | 4.4 | 2.3 | 1.2 | 8.5 | | 8 | 4 | 2 | 15 | 1.6 |
| | | *Turnagain/Northeast CI* | 7.3 | 4.5 | 1.1 | 15.2 | | 13 | 8 | 2 | 27 | 2.6 |
| | | *Kenai* | 1.1 | 1.3 | 0.0 | 3.5 | | 2 | 2 | 0 | 6 | 0.4 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.7 | 1.1 | 0.0 | 3.1 | | 1 | 2 | 0 | 5 | 0.2 |
| | | | | | | | Index points | 177 | | | | |

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Table 12.–Page 2 of 2.

| | | | Stock composition | | | | Stock-specific index points | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within date range | | | | Within date range | | | | Within year |
| | | | | | 90% CI | | | | 90% CI | | |
| Date range | *n* | Reporting group | Estimate | SD | 5% | 95% | Estimate | SD | 5% | 95% | Percentage |
| 7/23–30 | 361 | *Southwest CI* | 0.1 | 0.3 | 0.0 | 0.7 | 0 | 1 | 0 | 2 | 0.1 |
| | | *Northwest CI* | 14.8 | 5.2 | 6.7 | 23.7 | 36 | 13 | 16 | 58 | 7.3 |
| | | *Susitna* | 28.1 | 6.1 | 17.9 | 37.9 | 69 | 15 | 44 | 93 | 13.8 |
| | | *Deshka* | 8.9 | 3.2 | 3.7 | 14.1 | 22 | 8 | 9 | 34 | 4.4 |
| | | *Yentna* | 32.6 | 6.5 | 22.6 | 44.0 | 80 | 16 | 55 | 107 | 16.1 |
| | | *Knik* | 12.0 | 3.4 | 6.7 | 17.8 | 29 | 8 | 16 | 43 | 5.9 |
| | | *Jim* | 0.9 | 1.8 | 0.0 | 4.8 | 2 | 4 | 0 | 12 | 0.4 |
| | | *Turnagain/Northeast CI* | 0.0 | 1.2 | 0.0 | 2.6 | 0 | 3 | 0 | 6 | 0.0 |
| | | *Kenai* | 1.3 | 0.7 | 0.4 | 2.6 | 3 | 2 | 1 | 6 | 0.6 |
| | | *Kasilof* | 0.5 | 0.7 | 0.2 | 2.4 | 1 | 2 | 0 | 6 | 0.2 |
| | | *Southeast CI* | 0.7 | 0.6 | 0.1 | 1.8 | 2 | 1 | 0 | 4 | 0.3 |
| | | | | | | | Index points | 244 | | | |
| | | | | | | | Total index points | 495 | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding.

Table 13.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (n), and the percentage of the total index points for temporally grouped mixtures (date ranges) of coho salmon captured in the southern offshore test fishery in 2014.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within date range | | | | Within date range | | | | | Within year |
| Date | | | | | 90% CI | | | | 90% CI | | | |
| range | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 7/3–22 | 279 | *Southwest CI* | 2.5 | 1.1 | 1.0 | 4.5 | | 6 | 3 | 3 | 11 | 0.9 |
| | | *Northwest CI* | 15.1 | 4.8 | 7.7 | 23.5 | | 37 | 12 | 19 | 57 | 5.6 |
| | | *Susitna* | 23.9 | 6.7 | 13.5 | 35.1 | | 58 | 16 | 33 | 85 | 8.8 |
| | | *Deshka* | 6.7 | 3.8 | 0.0 | 12.9 | | 16 | 9 | 0 | 31 | 2.5 |
| | | *Yentna* | 25.1 | 6.1 | 15.2 | 35.4 | | 61 | 15 | 37 | 86 | 9.3 |
| | | *Knik* | 23.2 | 4.1 | 16.9 | 30.3 | | 56 | 10 | 41 | 73 | 8.6 |
| | | *Jim* | 0.4 | 0.9 | 0.0 | 2.4 | | 1 | 2 | 0 | 6 | 0.1 |
| | | *Turnagain/Northeast CI* | 3.2 | 2.4 | 0.0 | 7.4 | | 8 | 6 | 0 | 18 | 1.2 |
| | | *Kenai* | 0.0 | 0.2 | 0.0 | 0.2 | | 0 | 0 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.3 | 0.0 | 0.7 | | 0 | 1 | 0 | 2 | 0.0 |
| | | | | | | | Index points | 242 | | | | |
| 7/23–26 | 204 | *Southwest CI* | 1.9 | 1.1 | 0.5 | 4.0 | | 4 | 2 | 1 | 8 | 0.6 |
| | | *Northwest CI* | 16.4 | 6.1 | 7.5 | 27.4 | | 32 | 12 | 15 | 54 | 4.9 |
| | | *Susitna* | 38.9 | 7.4 | 26.9 | 51.1 | | 76 | 15 | 53 | 100 | 11.6 |
| | | *Deshka* | 10.0 | 4.7 | 2.1 | 17.7 | | 20 | 9 | 4 | 35 | 3.0 |
| | | *Yentna* | 10.2 | 5.7 | 2.0 | 20.7 | | 20 | 11 | 4 | 40 | 3.0 |
| | | *Knik* | 19.5 | 4.3 | 12.8 | 26.9 | | 38 | 8 | 25 | 52 | 5.8 |
| | | *Jim* | 0.0 | 1.0 | 0.0 | 2.2 | | 0 | 2 | 0 | 4 | 0.0 |
| | | *Turnagain/Northeast CI* | 2.4 | 3.4 | 0.0 | 9.1 | | 5 | 7 | 0 | 18 | 0.7 |
| | | *Kenai* | 0.7 | 0.8 | 0.0 | 2.2 | | 1 | 1 | 0 | 4 | 0.2 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.0 | 0.3 | 0.0 | 0.3 | | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 195 | | | | |

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Table 13.–Page 2 of 2.

| Date range | *n* | Reporting group | Stock composition: Within date range: Estimate | SD | 90% CI: 5% | 95% | Stock-specific index points: Within date range: Estimate | SD | 90% CI: 5% | 95% | Within year: Percentage |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/27–8/1 | 266 | *Southwest CI* | 1.0 | 0.8 | 0.2 | 2.6 | 2 | 2 | 0 | 6 | 0.3 |
| | | *Northwest CI* | 10.8 | 4.7 | 4.4 | 19.5 | 24 | 10 | 10 | 42 | 3.6 |
| | | *Susitna* | 28.9 | 5.8 | 19.3 | 38.4 | 63 | 13 | 42 | 84 | 9.6 |
| | | *Deshka* | 5.1 | 3.2 | 1.4 | 10.9 | 11 | 7 | 3 | 24 | 1.7 |
| | | *Yentna* | 16.2 | 5.1 | 8.5 | 24.8 | 35 | 11 | 18 | 54 | 5.4 |
| | | *Knik* | 19.3 | 3.6 | 13.6 | 25.5 | 42 | 8 | 30 | 55 | 6.4 |
| | | *Jim* | 0.0 | 0.3 | 0.0 | 0.1 | 0 | 1 | 0 | 0 | 0.0 |
| | | *Turnagain/Northeast CI* | 16.7 | 4.2 | 10.3 | 23.7 | 36 | 9 | 22 | 52 | 5.5 |
| | | *Kenai* | 1.2 | 0.7 | 0.3 | 2.6 | 3 | 2 | 1 | 6 | 0.4 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.7 | 1.1 | 0.1 | 3.0 | 2 | 2 | 0 | 7 | 0.2 |
| | | | | | | | Index points | 218 | | | |
| | | | | | | | Total index points | 655 | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding.

Table 14.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (n), and the percentage of the total index points for temporally grouped mixtures (date ranges) of coho salmon captured in the southern offshore test fishery in 2015.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within date range | | | | Within date range | | | | | Within year |
| Date | | | | | 90% CI | | | | 90% CI | | | |
| range | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 7/1–22 | 254 | *Southwest CI* | 1.8 | 1.3 | 0.5 | 4.4 | | 3 | 2 | 1 | 8 | 1.1 |
| | | *Northwest CI* | 16.4 | 5.2 | 7.4 | 24.7 | | 28 | 9 | 13 | 42 | 10.2 |
| | | *Susitna* | 28.5 | 5.3 | 20.1 | 37.3 | | 49 | 9 | 35 | 64 | 17.7 |
| | | *Deshka* | 9.2 | 3.8 | 3.4 | 15.8 | | 16 | 6 | 6 | 27 | 5.7 |
| | | *Yentna* | 20.3 | 5.0 | 12.9 | 29.0 | | 35 | 9 | 22 | 50 | 12.6 |
| | | *Knik* | 22.0 | 3.9 | 16.0 | 28.8 | | 38 | 7 | 27 | 50 | 13.7 |
| | | *Jim* | 0.0 | 0.6 | 0.0 | 0.5 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Turnagain/Northeast CI* | 1.2 | 3.4 | 0.0 | 8.0 | | 2 | 6 | 0 | 14 | 0.7 |
| | | *Kenai* | 0.0 | 0.2 | 0.0 | 0.3 | | 0 | 0 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.0 | 0.1 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 0.6 | 1.0 | 0.0 | 2.8 | | 1 | 2 | 0 | 5 | 0.4 |
| | | | | | | | Index points | 172 | | | | |
| 7/23–30 | 145 | *Southwest CI* | 5.2 | 1.9 | 2.5 | 8.6 | | 5 | 2 | 3 | 9 | 2.0 |
| | | *Northwest CI* | 10.9 | 6.1 | 1.8 | 21.9 | | 11 | 6 | 2 | 23 | 4.1 |
| | | *Susitna* | 40.9 | 8.6 | 27.1 | 55.3 | | 43 | 9 | 28 | 58 | 15.5 |
| | | *Deshka* | 0.0 | 1.1 | 0.0 | 0.0 | | 0 | 1 | 0 | 0 | 0.0 |
| | | *Yentna* | 19.5 | 7.2 | 8.2 | 31.3 | | 21 | 8 | 9 | 33 | 7.4 |
| | | *Knik* | 21.9 | 5.6 | 12.7 | 31.5 | | 23 | 6 | 13 | 33 | 8.3 |
| | | *Jim* | 0.0 | 0.9 | 0.0 | 0.5 | | 0 | 1 | 0 | 0 | 0.0 |
| | | *Turnagain/Northeast CI* | 0.0 | 4.7 | 0.0 | 9.8 | | 0 | 5 | 0 | 10 | 0.0 |
| | | *Kenai* | 0.1 | 0.5 | 0.0 | 1.1 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.0 | 0.2 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Southeast CI* | 1.6 | 1.4 | 0.2 | 4.4 | | 2 | 1 | 0 | 5 | 0.6 |
| | | | | | | | Index points | 105 | | | | |
| | | | | | | | Total index points | 277 | | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding.

Table 15.–Stock composition (%) and stock-specific index point estimates, including mean, standard deviations (SD), 90% credibility intervals (CI), sample size (n) , and the percentage of the total index points for temporally grouped mixtures (date ranges) of coho salmon captured in the southern offshore test fishery in 2016.

| | | | Stock composition | | | | Stock-specific index points | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Within date range | | | | Within date range | | | | | Within year |
| Date | | | | | 90% CI | | | | 90% CI | | | |
| range | *n* | Reporting group | Estimate | SD | 5% | 95% | | Estimate | SD | 5% | 95% | Percentage |
| 7/1–22 | 241 | *Southwest CI* | 3.1 | 1.3 | 1.1 | 5.4 | | 6 | 2 | 2 | 10 | 1.7 |
| | | *Northwest CI* | 26.7 | 5.1 | 18.6 | 35.6 | | 49 | 9 | 34 | 65 | 14.8 |
| | | *Susitna* | 24.0 | 6.4 | 13.7 | 34.8 | | 44 | 12 | 25 | 64 | 13.2 |
| | | *Deshka* | 3.1 | 3.6 | 0.7 | 10.4 | | 6 | 7 | 1 | 19 | 1.7 |
| | | *Yentna* | 26.1 | 7.4 | 14.2 | 38.2 | | 48 | 13 | 26 | 70 | 14.4 |
| | | *Knik* | 15.7 | 3.4 | 10.5 | 21.8 | | 29 | 6 | 19 | 40 | 8.7 |
| | | *Jim* | 0.0 | 0.2 | 0.0 | 0.1 | | 0 | 0 | 0 | 0 | 0.0 |
| | | *Turnagain/Northeast CI* | 0.0 | 1.6 | 0.0 | 3.7 | | 0 | 3 | 0 | 7 | 0.0 |
| | | *Kenai* | 0.0 | 0.3 | 0.0 | 0.5 | | 0 | 1 | 0 | 1 | 0.0 |
| | | *Kasilof* | 0.4 | 0.7 | 0.0 | 1.8 | | 1 | 1 | 0 | 3 | 0.2 |
| | | *Southeast CI* | 0.9 | 1.0 | 0.1 | 3.0 | | 2 | 2 | 0 | 6 | 0.5 |
| | | | | | | | Index points | 183 | | | | |
| 7/23–29 | 190 | *Southwest CI* | 0.3 | 0.5 | 0.0 | 1.3 | | 0 | 1 | 0 | 2 | 0.1 |
| | | *Northwest CI* | 16.6 | 6.3 | 7.0 | 27.6 | | 25 | 9 | 10 | 41 | 7.4 |
| | | *Susitna* | 11.4 | 7.5 | 0.0 | 23.5 | | 17 | 11 | 0 | 35 | 5.1 |
| | | *Deshka* | 0.2 | 0.9 | 0.0 | 1.3 | | 0 | 1 | 0 | 2 | 0.1 |
| | | *Yentna* | 22.7 | 6.2 | 13.1 | 33.3 | | 34 | 9 | 19 | 49 | 10.2 |
| | | *Knik* | 10.5 | 4.8 | 4.0 | 20.0 | | 16 | 7 | 6 | 30 | 4.7 |
| | | *Jim* | 16.3 | 3.8 | 10.2 | 22.7 | | 24 | 6 | 15 | 34 | 7.3 |
| | | *Turnagain/Northeast CI* | 18.4 | 4.9 | 10.8 | 26.7 | | 27 | 7 | 16 | 40 | 8.2 |
| | | *Kenai* | 1.8 | 1.3 | 0.3 | 4.4 | | 3 | 2 | 1 | 7 | 0.8 |
| | | *Kasilof* | 1.8 | 1.7 | 0.6 | 5.4 | | 3 | 3 | 1 | 8 | 0.8 |
| | | *Southeast CI* | 0.0 | 0.4 | 0.0 | 0.5 | | 0 | 1 | 0 | 1 | 0.0 |
| | | | | | | | Index points | 148 | | | | |
| | | | | | | | Total index points | 331 | | | | |

*Note*: *n* is the final number of samples used in genetic analyses. Proportions for a given mixture may not sum to 1 due to rounding.

Table 16.–Stock-specific index points, standard deviation (SD), and 90% credibility intervals calculated using a stratified estimator (see text) for combined temporal strata in the northern (3 strata) and southern (3 strata) offshore test fisheries and based on genetic analysis of mixtures of coho salmon harvested in the Upper Cook Inlet in 2013.

| | | | 90% CI | | |
|---|---|---|---|---|---|
| Area strata | Reporting group | Index points | 5% | 95% | SD |
| North offshore test fishery | | | | | |
| | *Southwest CI* | 1 | 0 | 3 | 1 |
| | *Northwest CI* | 88 | 67 | 112 | 14 |
| | *Susitna* | 77 | 52 | 105 | 16 |
| | *Deshka* | 6 | 0 | 17 | 6 |
| | *Yentna* | 127 | 97 | 156 | 18 |
| | *Knik* | 23 | 11 | 38 | 8 |
| | *Jim* | 9 | 3 | 16 | 4 |
| | *Turnagain/Northeast CI* | 6 | 0 | 20 | 7 |
| | *Kenai* | 0 | 0 | 2 | 1 |
| | *Kasilof* | 1 | 0 | 4 | 1 |
| | *Southeast CI* | 0 | 0 | 2 | 1 |
| | Total index points | 339 | | | |
| South offshore test fishery | | | | | |
| | *Southwest CI* | 6 | 2 | 11 | 3 |
| | *Northwest CI* | 55 | 28 | 85 | 17 |
| | *Susitna* | 106 | 79 | 134 | 17 |
| | *Deshka* | 25 | 12 | 40 | 9 |
| | *Yentna* | 226 | 193 | 260 | 20 |
| | *Knik* | 57 | 39 | 77 | 11 |
| | *Jim* | 10 | 3 | 17 | 4 |
| | *Turnagain/Northeast CI* | 3 | 0 | 16 | 6 |
| | *Kenai* | 3 | 0 | 7 | 2 |
| | *Kasilof* | 2 | 0 | 7 | 2 |
| | *Southeast CI* | 3 | 0 | 7 | 2 |
| | Total index points | 495 | | | |

*Note*: Stock-specific index point numbers may not sum to the total harvest due to rounding error.

Table 17.–Stock-specific index points, standard deviation (SD), and 90% credibility intervals calculated using a stratified estimator (see text) for combined temporal strata in the northern (2 strata) and southern (3 strata) offshore test fisheries and based on genetic analysis of mixtures of coho salmon harvested in the Upper Cook Inlet in 2014.

| | | | 90% CI | | |
|---|---|---|---|---|---|
| Area strata | Reporting group | Index points | 5% | 95% | SD |
| North offshore test fishery | | | | | |
| | *Southwest CI* | 0 | 0 | 1 | 1 |
| | *Northwest CI* | 10 | 0 | 29 | 10 |
| | *Susitna* | 88 | 63 | 113 | 15 |
| | *Deshka* | 17 | 4 | 31 | 8 |
| | *Yentna* | 72 | 52 | 94 | 13 |
| | *Knik* | 104 | 82 | 126 | 13 |
| | *Jim* | 1 | 0 | 6 | 3 |
| | *Turnagain/Northeast CI* | 2 | 0 | 21 | 8 |
| | *Kenai* | 1 | 0 | 2 | 1 |
| | *Kasilof* | 2 | 0 | 6 | 2 |
| | *Southeast CI* | 0 | 0 | 1 | 1 |
| | Total index points | 297 | | | |
| South offshore test fishery | | | | | |
| | *Southwest CI* | 13 | 7 | 20 | 4 |
| | *Northwest CI* | 83 | 54 | 116 | 19 |
| | *Susitna* | 206 | 169 | 247 | 24 |
| | *Deshka* | 50 | 29 | 73 | 13 |
| | *Yentna* | 113 | 78 | 149 | 21 |
| | *Knik* | 143 | 119 | 168 | 15 |
| | *Jim* | 5 | 1 | 11 | 3 |
| | *Turnagain/Northeast CI* | 38 | 19 | 60 | 12 |
| | *Kenai* | 4 | 1 | 8 | 2 |
| | *Kasilof* | 0 | 0 | 2 | 1 |
| | *Southeast CI* | 0 | 0 | 4 | 2 |
| | Total index points | 655 | | | |

*Note*: Stock-specific index point numbers may not sum to the total harvest due to rounding error.

Table 18.–Stock-specific index points, standard deviation (SD), and 90% credibility intervals calculated using a stratified estimator (see text) for combined temporal strata in the southern offshore test fishery (2 strata) and based on genetic analysis of mixtures of coho salmon harvested in the Upper Cook Inlet in 2015.

| | | 90% CI | | |
|---|---|---|---|---|
| Reporting group | Index points | 5% | 95% | SD |
| *Southwest CI* | 10 | 6 | 15 | 3 |
| *Northwest CI* | 47 | 30 | 66 | 11 |
| *Susitna* | 72 | 48 | 94 | 14 |
| *Deshka* | 18 | 5 | 34 | 9 |
| *Yentna* | 64 | 44 | 84 | 13 |
| *Knik* | 54 | 40 | 69 | 9 |
| *Jim* | 9 | 2 | 16 | 4 |
| *Turnagain/Northeast CI* | 1 | 0 | 13 | 6 |
| *Kenai* | 0 | 0 | 1 | 0 |
| *Kasilof* | 0 | 0 | 1 | 0 |
| *Southeast CI* | 2 | 0 | 6 | 2 |
| Total index points | 277 | | | |

*Note*: Stock-specific index point numbers may not sum to the total harvest due to rounding error.

Table 19.–Stock-specific index points, standard deviation (SD), and 90% credibility intervals calculated using a stratified estimator (see text) for combined temporal strata in the southern offshore test fishery (2 strata) and based on genetic analysis of mixtures of coho salmon harvested in the Upper Cook Inlet in 2016.

| | | 90% CI | | |
|---|---|---|---|---|
| Reporting group | Index points | 5% | 95% | SD |
| *Southwest CI* | 5 | 2 | 9 | 2 |
| *Northwest CI* | 55 | 32 | 78 | 14 |
| *Susitna* | 75 | 50 | 103 | 16 |
| *Deshka* | 7 | 0 | 20 | 7 |
| *Yentna* | 84 | 59 | 112 | 16 |
| *Knik* | 71 | 52 | 91 | 12 |
| *Jim* | 3 | 0 | 8 | 3 |
| *Turnagain/Northeast CI* | 21 | 4 | 39 | 10 |
| *Kenai* | 3 | 0 | 6 | 2 |
| *Kasilof* | 4 | 1 | 10 | 3 |
| *Southeast CI* | 3 | 0 | 8 | 3 |
| Total index points | 331 | | | |

*Note*: Stock-specific index point numbers may not sum to the total harvest due to rounding error.

Table 20.–Commercial fishery strata (mixtures) for estimating stock compositions and stock-specific harvests for 2013–2016, including fishery, fishing area represented, sampling dates, mixture dates, and number of fish genotyped, selected for analysis, and used in the mixed stock analysis.

| | | | | | Number of fish | | |
|---|---|---|---|---|---|---|---|
| Year | Fishery | Area | Dates sampled | Mixture dates | Genotyped | Selected | Used |
| 2013 | Central District drift | Districtwide | 7/4–7/15 | 6/27–7/15 | 400 | 400 | 400 |
| | | | 7/18, 7/22 | 7/17–7/23 | 400 | 400 | 400 |
| | | | 7/25, 7/29 | 7/24–7/30 | 400 | 400 | 392 |
| | | | 8/1, 8/5 | 8/1–8/5 | 400 | 400 | 399 |
| | | | 8/8–8/22 | 8/8–8/26 | 400 | 400 | 400 |
| | Northern District set | Eastern Subdistrict | 7/4–8/26 | 6/27–9/2 | 505[a] | 380 | 374 |
| | | General Subdistrict (north) | 7/15–8/19 | 7/8–8/26 | 429[a] | 375 | 369 |
| | | General Subdistrict (south) | 7/8–8/29 | 7/1–8/29 | 666[a] | 400 | 393 |
| 2014 | Central District drift | Districtwide | 7/3–7/14 | 6/26–7/15 | 400 | 400 | 398 |
| | | | 7/17, 7/21 | 7/17–7/23 | 400 | 400 | 396 |
| | | | 7/24, 7/28 | 7/24–7/28 | 400 | 400 | 392 |
| | | | 7/31–8/7 | 7/31–8/7 | 400 | 400 | 391 |
| | | | 8/11–8/18 | 8/11–8/25 | 375 | 375 | 368 |
| | Northern District set | Eastern Subdistrict | 7/14–8/21 | 7/7–8/28 | 434[a] | 400 | 392 |
| | | General Subdistrict (north) | 7/14–8/18 | 7/7–8/25 | 558[a] | 400 | 393 |
| | | General Subdistrict (south) | 7/7–8/25 | 6/30–9/1 | 545[a] | 400 | 390 |
| 2015 | Central District drift | Districtwide | 7/6–7/13 | 6/29–7/13 | 500 | 500 | 494 |
| | | | 7/20, 7/27 | 7/20–8/1 | 500 | 500 | 488 |
| | | | 8/3–8/20 | 8/3–8/24 | 547 | 547 | 536 |
| | Central District drift | Expanded Corridor | 7/16–7/30 | 7/11–8/5 | 668 | 668 | 646 |
| | Northern District set | Eastern Subdistrict | 7/13–8/24 | 7/6–8/27 | 564[a] | 400 | 392 |
| | | General Subdistrict (north) | 7/9–8/17 | 7/6–8/24 | 446[a] | 350 | 339 |
| | | General Subdistrict (south) | 7/6–8/20 | 7/2–8/27 | 841[a] | 400 | 393 |
| | Central District set | Upper Subdistrict | 7/20–8/10 | 7/14–8/12 | 400 | 400 | 391 |
| 2016 | Central District drift | Districtwide | 7/7–7/18 | 6/30–7/18 | 380 | 380 | 373 |
| | | | 7/25–8/18 | 7/25–8/25 | 380 | 380 | 377 |
| | Central District drift | Expanded Corridor & Anchor Point Section | 7/9–7/28 | 7/9–8/3 | 500 | 500 | 489 |
| | Northern District set | Eastern Subdistrict | 7/18–8/29 | 7/11–9/5 | 428[a] | 380 | 371 |
| | | General Subdistrict (north) | 7/11–8/15 | 7/4–8/15 | 381[a] | 379 | 373 |
| | | General Subdistrict (south) | 7/11–8/25 | 7/4–8/25 | 550[a] | 380 | 372 |
| | Central District set | Upper Subdistrict | 7/21–8/9 | 7/14–8/9 | 305 | 305 | 296 |

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Table 20.–Page 2 of 2.

| Year | Fishery | Area | Dates sampled | Mixture dates | Number of fish | | |
|---|---|---|---|---|---|---|---|
| | | | | | Genotyped | Selected | Used |
| 2015 | Central District drift | Districtwide | 7/6–7/13 | 6/29–7/13 | 500 | 500 | 494 |
| | | | 7/20, 7/27 | 7/20–8/1 | 500 | 500 | 488 |
| | | | 8/3–8/20 | 8/3–8/24 | 547 | 547 | 536 |
| | Central District drift | Expanded Corridor | 7/16–7/30 | 7/11–8/5 | 668 | 668 | 646 |
| | Northern District set | Eastern Subdistrict | 7/13–8/24 | 7/6–8/27 | 564[a] | 400 | 392 |
| | | General Subdistrict (north) | 7/9–8/17 | 7/6–8/24 | 446[a] | 350 | 339 |
| | | General Subdistrict (south) | 7/6–8/20 | 7/2–8/27 | 841[a] | 400 | 393 |
| | Central District set | Upper Subdistrict | 7/20–8/10 | 7/14–8/12 | 400 | 400 | 391 |
| 2016 | Central District drift | District-wide | 7/7–7/18 | 6/30–7/18 | 380 | 380 | 373 |
| | | | 7/25–8/18 | 7/25–8/25 | 380 | 380 | 377 |
| | Central District drift | Expanded Corridor & Anchor Point Section | 7/9–7/28 | 7/9–8/3 | 500 | 500 | 489 |
| | Northern District set | Eastern Subdistrict | 7/18–8/29 | 7/11–9/5 | 428[a] | 380 | 371 |
| | | General Subdistrict (north) | 7/11–8/15 | 7/4–8/15 | 381[a] | 379 | 373 |
| | | General Subdistrict (south) | 7/11–8/25 | 7/4–8/25 | 550[a] | 380 | 372 |
| | Central District set | Upper Subdistrict | 7/21–8/9 | 7/14–8/9 | 305 | 305 | 296 |

[a] Includes fish genotyped for Northern District temporal mixtures (Table 21).

Table 21.–Northern District Set gillnet temporal mixtures for 2013–2016 for estimating stock compositions, including mixture dates, and number of fish selected and used in the analysis.

| | | Number of fish | |
|---|---|---|---|
| Year | Mixture dates | Selected | Used |
| 2013 | 7/15–7/22 | 399 | 398 |
| | 7/25–8/1 | 401 | 395 |
| | 8/5–8/12 | 400 | 385 |
| | 8/15–8/26 | 376 | 373 |
| 2014 | 7/14–7/21 | 340 | 337 |
| | 7/24–7/31 | 400 | 394 |
| | 8/4–8/11 | 399 | 384 |
| | 8/14–8/25 | 341 | 337 |
| 2015 | 7/9–7/20 | 350 | 341 |
| | 7/23–7/30 | 401 | 393 |
| | 8/3–8/10 | 500 | 491 |
| | 8/13–8/20 | 501 | 484 |
| 2016 | 7/11–7/25 | 380 | 376 |
| | 7/28–8/4 | 380 | 365 |
| | 8/8–8/22 | 379 | 371 |

Table 22.–Stock-specific harvest, standard deviation (SD), coefficient of variation (CV), and 90% credibility intervals calculated using a stratified estimator for combined temporal strata in all fishing area strata and based on genetic analysis of mixtures of coho salmon harvested in the Upper Cook Inlet, 2013–2016.

| | | | 90% CI | | | |
|---|---|---|---|---|---|---|
| Year | Reporting group | Harvest | 5% | 95% | SD | CV |
| 2013 | *Southwest CI* | 1,651 | 1,089 | 2,349 | 393 | 24% |
| | *Northwest CI* | 42,764 | 36,614 | 49,336 | 3,879 | 9% |
| | *Susitna* | 42,919 | 35,940 | 49,962 | 4,237 | 10% |
| | *Deshka* | 11,543 | 8,001 | 15,632 | 2,352 | 20% |
| | *Yentna* | 65,607 | 57,889 | 73,603 | 4,842 | 7% |
| | *Knik* | 39,366 | 33,776 | 45,264 | 3,456 | 9% |
| | *Jim* | 2,919 | 1,555 | 4,475 | 902 | 31% |
| | *Turnagain/Northeast CI* | 14,172 | 9,808 | 18,917 | 2,725 | 19% |
| | *Kenai* | 2,103 | 1,275 | 3,068 | 551 | 26% |
| | *Kasilof* | 237 | 0 | 725 | 257 | 108% |
| | *Southeast CI* | 782 | 134 | 1,612 | 453 | 58% |
| | Harvest represented | 224,064 | | | | |
| | Harvest unrepresented | 36,879 | | | | |
| | Total harvest | 260,943 | | | | |
| 2014 | *Southwest CI* | 334 | 136 | 600 | 144 | 43% |
| | *Northwest CI* | 17,812 | 15,452 | 20,400 | 1,525 | 9% |
| | *Susitna* | 21,440 | 17,784 | 25,283 | 2,299 | 11% |
| | *Deshka* | 3,163 | 1,373 | 4,947 | 1,108 | 35% |
| | *Yentna* | 19,629 | 16,240 | 22,897 | 2,025 | 10% |
| | *Knik* | 23,654 | 21,224 | 26,184 | 1,500 | 6% |
| | *Jim* | 1,219 | 523 | 1,999 | 437 | 36% |
| | *Turnagain/Northeast CI* | 16,106 | 13,508 | 18,863 | 1,681 | 10% |
| | *Kenai* | 1,778 | 1,228 | 2,410 | 359 | 20% |
| | *Kasilof* | 6 | 0 | 142 | 73 | 1259% |
| | *Southeast CI* | 49 | 0 | 241 | 94 | 191% |
| | Harvest represented | 105,191 | | | | |
| | Harvest unrepresented | 32,153 | | | | |
| | Total harvest | 137,344 | | | | |

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Table 22.–Page 2 of 2.

| Year | Reporting group | Harvest | 90% CI 5% | 90% CI 95% | SD | CV |
|---|---|---|---|---|---|---|
| 2015 | *Southwest CI* | 683 | 163 | 1,445 | 396 | 58% |
| | *Northwest CI* | 40,964 | 36,526 | 45,622 | 2,792 | 7% |
| | *Susitna* | 26,210 | 20,644 | 31,649 | 3,332 | 13% |
| | *Deshka* | 4,049 | 1,742 | 6,490 | 1,435 | 35% |
| | *Yentna* | 38,224 | 33,074 | 43,544 | 3,167 | 8% |
| | *Knik* | 42,292 | 38,458 | 46,109 | 2,328 | 6% |
| | *Jim* | 3,318 | 2,379 | 4,369 | 605 | 18% |
| | *Turnagain/Northeast CI* | 19,929 | 16,818 | 23,118 | 1,908 | 10% |
| | *Kenai* | 7,782 | 6,611 | 9,004 | 725 | 9% |
| | *Kasilof* | 595 | 204 | 1,124 | 281 | 47% |
| | *Southeast CI* | 584 | 24 | 1,272 | 383 | 66% |
| | Harvest represented | 184,631 | | | | |
| | Harvest unrepresented | 31,288 | | | | |
| | Total harvest | 215,919 | | | | |
| 2016 | *Southwest CI* | 1,488 | 875 | 2,261 | 432 | 29% |
| | *Northwest CI* | 21,246 | 16,632 | 26,134 | 2,951 | 14% |
| | *Susitna* | 22,156 | 17,353 | 27,070 | 2,959 | 13% |
| | *Deshka* | 7,205 | 5,004 | 9,559 | 1,364 | 19% |
| | *Yentna* | 22,022 | 18,151 | 26,024 | 2,420 | 11% |
| | *Knik* | 19,023 | 15,571 | 22,990 | 2,317 | 12% |
| | *Jim* | 1,446 | 709 | 2,348 | 502 | 35% |
| | *Turnagain/Northeast CI* | 19,727 | 16,175 | 23,507 | 2,255 | 11% |
| | *Kenai* | 7,947 | 6,934 | 9,059 | 640 | 8% |
| | *Kasilof* | 592 | 69 | 1,519 | 478 | 81% |
| | *Southeast CI* | 1,278 | 541 | 2,362 | 565 | 44% |
| | Harvest represented | 124,131 | | | | |
| | Harvest unrepresented | 23,337 | | | | |
| | Total harvest | 147,468 | | | | |

*Note*: Stock-specific harvest numbers may not sum to the total harvest represented due to rounding error.

Table 23.–Stock-specific harvest, standard deviation (SD), and 90% credibility intervals calculated using a stratified estimator for combined strata in the Central District drift gillnet (5 temporal strata) and Northern District set gillnet (3 spatial strata) fisheries and based on genetic analysis of mixtures of coho salmon harvested in the Upper Cook Inlet in 2013.

| | | | 90% CI | | |
|---|---|---|---|---|---|
| Area strata | Reporting group | Harvest | 5% | 95% | SD |
| Central District drift gillnet | | | | | |
| | *Southwest CI* | 1,621 | 1,066 | 2,295 | 389 |
| | *Northwest CI* | 35,981 | 29,874 | 42,448 | 3,731 |
| | *Susitna* | 37,207 | 30,437 | 44,197 | 4,108 |
| | *Deshka* | 10,094 | 6,640 | 14,125 | 2,267 |
| | *Yentna* | 53,940 | 46,388 | 61,868 | 4,745 |
| | *Knik* | 31,681 | 26,175 | 37,435 | 3,380 |
| | *Jim* | 2,444 | 1,142 | 3,985 | 876 |
| | *Turnagain/Northeast CI* | 6,240 | 2,045 | 10,771 | 2,619 |
| | *Kenai* | 1,590 | 823 | 2,472 | 513 |
| | *Kasilof* | 237 | 0 | 723 | 255 |
| | *Southeast CI* | 782 | 144 | 1,607 | 453 |
| | Harvest represented | 181,818 | | | |
| | Harvest unrepresented | 2,953 | | | |
| | Total harvest | 184,771 | | | |
| Northern District, Eastern and General subdistricts set gillnet | | | | | |
| | *Southwest CI* | 30 | 0 | 152 | 59 |
| | *Northwest CI* | 6,783 | 5,042 | 8,694 | 1,100 |
| | *Susitna* | 5,712 | 3,875 | 7,634 | 1,141 |
| | *Deshka* | 1,449 | 471 | 2,539 | 626 |
| | *Yentna* | 11,667 | 9,791 | 13,658 | 1,149 |
| | *Knik* | 7,685 | 6,527 | 8,934 | 726 |
| | *Jim* | 475 | 175 | 855 | 207 |
| | *Turnagain/Northeast CI* | 7,932 | 6,670 | 9,225 | 777 |
| | *Kenai* | 513 | 224 | 829 | 187 |
| | *Kasilof* | 0 | 0 | 64 | 34 |
| | *Southeast CI* | 0 | 0 | 77 | 39 |
| | Harvest represented | 42,246 | | | |
| | Harvest unrepresented | 147 | | | |
| | Total harvest | 42,393 | | | |

*Note*: Stock-specific harvest numbers may not sum to the total harvest represented due to rounding error.

Table 24.–Stock-specific harvest, standard deviation (SD), and 90% credibility intervals calculated using a stratified estimator for combined strata in the Central District drift gillnet (5 temporal strata) and Northern District set gillnet (3 spatial strata) fisheries and based on genetic analysis of mixtures of coho salmon harvested in the Upper Cook Inlet in 2014.

| | | | 90% CI | | |
|---|---|---|---|---|---|
| Area strata | Reporting group | Harvest | 5% | 95% | SD |
| Central District drift gillnet | | | | | |
| | *Southwest CI* | 334 | 144 | 601 | 141 |
| | *Northwest CI* | 11,717 | 9,742 | 14,022 | 1,316 |
| | *Susitna* | 16,593 | 13,201 | 20,262 | 2,168 |
| | *Deshka* | 3,163 | 1,467 | 4,920 | 1,053 |
| | *Yentna* | 14,752 | 11,651 | 17,781 | 1,884 |
| | *Knik* | 14,654 | 12,425 | 17,061 | 1,397 |
| | *Jim* | 696 | 54 | 1,387 | 400 |
| | *Turnagain/Northeast CI* | 7,937 | 5,544 | 10,596 | 1,541 |
| | *Kenai* | 1,589 | 1,078 | 2,178 | 335 |
| | *Kasilof* | 3 | 0 | 118 | 63 |
| | *Southeast CI* | 3 | 0 | 141 | 67 |
| | Harvest represented | 71,441 | | | |
| | Harvest unrepresented | 5,491 | | | |
| | Total harvest | 76,932 | | | |
| Northern District, Eastern and General subdistricts set gillnet | | | | | |
| | *Southwest CI* | 0 | 0 | 60 | 28 |
| | *Northwest CI* | 6,095 | 4,799 | 7,456 | 820 |
| | *Susitna* | 4,847 | 3,462 | 6,290 | 863 |
| | *Deshka* | 0 | 0 | 807 | 386 |
| | *Yentna* | 4,877 | 3,687 | 6,085 | 747 |
| | *Knik* | 9,000 | 7,980 | 10,041 | 629 |
| | *Jim* | 523 | 262 | 827 | 175 |
| | *Turnagain/Northeast CI* | 8,169 | 7,135 | 9,380 | 704 |
| | *Kenai* | 189 | 36 | 393 | 115 |
| | *Kasilof* | 3 | 0 | 78 | 36 |
| | *Southeast CI* | 46 | 1 | 191 | 66 |
| | Harvest represented | 33,750 | | | |
| | Harvest unrepresented | 1,375 | | | |
| | Total harvest | 35,125 | | | |

*Note*: Stock-specific harvest numbers may not sum to the total harvest represented due to rounding error.

Table 25.–Stock-specific harvest, standard deviation (SD), and 90% credibility intervals calculated using a stratified estimator for combined strata in the Central District drift gillnet excluding corridor-only periods (5 temporal strata), drift gillnet corridor-only periods (1 temporal stratum) and Upper Subdistrict set gillnet (1 temporal stratum) and Northern District set gillnet (3 spatial strata) fisheries and based on genetic analysis of mixtures of coho salmon harvested in the Upper Cook Inlet in 2015.

| | | | 90% CI | | |
|---|---|---|---|---|---|
| Area strata | Reporting group | Harvest | 5% | 95% | SD |
| Central District drift gillnet (excluding corridor-only periods) | | | | | |
| | *Southwest CI* | 649 | 151 | 1,414 | 386 |
| | *Northwest CI* | 26,843 | 23,316 | 30,473 | 2,210 |
| | *Susitna* | 16,044 | 11,650 | 20,426 | 2,676 |
| | *Deshka* | 2,448 | 886 | 4,153 | 1,005 |
| | *Yentna* | 20,478 | 16,481 | 24,625 | 2,498 |
| | *Knik* | 18,522 | 15,768 | 21,311 | 1,701 |
| | *Jim* | 1,844 | 1,110 | 2,709 | 485 |
| | *Turnagain/Northeast CI* | 6,675 | 4,217 | 9,231 | 1,531 |
| | *Kenai* | 2,590 | 1,760 | 3,496 | 525 |
| | *Kasilof* | 28 | 0 | 345 | 147 |
| | *Southeast CI* | 572 | 52 | 1,188 | 366 |
| | Harvest represented | 96,694 | | | |
| | Harvest unrepresented | 6,007 | | | |
| | Total harvest | 102,701 | | | |
| Central District drift gillnet (corridor-only periods) | | | | | |
| | *Southwest CI* | 0 | 0 | 74 | 50 |
| | *Northwest CI* | 4,498 | 2,864 | 6,338 | 1,062 |
| | *Susitna* | 3,972 | 2,013 | 6,154 | 1,255 |
| | *Deshka* | 507 | 0 | 1,660 | 696 |
| | *Yentna* | 7,545 | 5,279 | 9,808 | 1,365 |
| | *Knik* | 7,334 | 5,762 | 9,106 | 1,022 |
| | *Jim* | 706 | 303 | 1,235 | 284 |
| | *Turnagain/Northeast CI* | 2,531 | 1,358 | 3,967 | 797 |
| | *Kenai* | 313 | 0 | 754 | 245 |
| | *Kasilof* | 0 | 0 | 69 | 45 |
| | *Southeast CI* | 0 | 0 | 58 | 35 |
| | Harvest represented | 27,405 | | | |
| | Harvest unrepresented | 614 | | | |
| | Total harvest | 28,019 | | | |

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Table 25.–Page 2 of 2.

| Area strata | Reporting group | Harvest | 90% CI 5% | 90% CI 95% | SD |
|---|---|---|---|---|---|
| Central District, Upper Subdistrict set gillnet | | | | | |
| | *Southwest CI* | 29 | 0 | 201 | 76 |
| | *Northwest CI* | 2,233 | 1,167 | 3,337 | 649 |
| | *Susitna* | 1,923 | 576 | 3,267 | 808 |
| | *Deshka* | 20 | 0 | 495 | 206 |
| | *Yentna* | 1,659 | 577 | 2,859 | 690 |
| | *Knik* | 3,998 | 2,879 | 5,246 | 728 |
| | *Jim* | 395 | 167 | 671 | 156 |
| | *Turnagain/Northeast CI* | 2,205 | 1,449 | 3,007 | 480 |
| | *Kenai* | 4,576 | 3,833 | 5,331 | 450 |
| | *Kasilof* | 467 | 161 | 843 | 209 |
| | *Southeast CI* | 12 | 0 | 212 | 91 |
| | Harvest represented | 17,517 | | | |
| | Harvest unrepresented | 431 | | | |
| | Total harvest | 17,948 | | | |
| Northern District, Eastern and General subdistricts set gillnet | | | | | |
| | *Southwest CI* | 6 | 0 | 74 | 40 |
| | *Northwest CI* | 7,390 | 5,434 | 9,456 | 1,201 |
| | *Susitna* | 4,271 | 2,492 | 6,163 | 1,123 |
| | *Deshka* | 1,074 | 0 | 2,230 | 687 |
| | *Yentna* | 8,542 | 6,875 | 10,234 | 1,021 |
| | *Knik* | 12,438 | 10,712 | 14,215 | 1,081 |
| | *Jim* | 372 | 117 | 705 | 182 |
| | *Turnagain/Northeast CI* | 8,519 | 7,371 | 9,873 | 768 |
| | *Kenai* | 303 | 120 | 550 | 132 |
| | *Kasilof* | 100 | 0 | 288 | 99 |
| | *Southeast CI* | 0 | 0 | 131 | 68 |
| | Harvest represented | 43,015 | | | |
| | Harvest unrepresented | 3,488 | | | |
| | Total harvest | 46,503 | | | |

*Note*: Stock-specific harvest numbers may not sum to the total harvest represented due to rounding error.

Table 26.–Stock-specific harvest, standard deviation (SD), and 90% credibility intervals calculated using a stratified estimator (see text) for combined strata in the Central District drift gillnet excluding corridor-only periods (2 temporal strata), drift gillnet corridor-only periods (1 temporal stratum) and Upper Subdistrict set gillnet (1 temporal stratum) and Northern District set gillnet (3 spatial strata) fisheries and based on genetic analysis of mixtures of coho salmon harvested in the Upper Cook Inlet in 2016.

| | | | 90% CI | | |
|---|---|---|---|---|---|
| Area strata | Reporting group | Harvest | 5% | 95% | SD |
| Central District drift gillnet (excluding corridor-only periods) | | | | | |
| | *Southwest CI* | 667 | 194 | 1,346 | 367 |
| | *Northwest CI* | 17,072 | 12,729 | 21,569 | 2,701 |
| | *Susitna* | 14,762 | 10,739 | 19,072 | 2,545 |
| | *Deshka* | 4,291 | 2,385 | 6,294 | 1,191 |
| | *Yentna* | 11,136 | 7,803 | 14,669 | 2,081 |
| | *Knik* | 8,101 | 4,888 | 11,883 | 2,185 |
| | *Jim* | 1,230 | 531 | 2,050 | 471 |
| | *Turnagain/Northeast CI* | 6,053 | 2,742 | 9,471 | 2,036 |
| | *Kenai* | 1,721 | 1,016 | 2,578 | 466 |
| | *Kasilof* | 549 | 82 | 1,470 | 473 |
| | *Southeast CI* | 501 | 52 | 1,508 | 480 |
| | Harvest represented | 66,083 | | | |
| | Harvest unrepresented | 5,984 | | | |
| | Total harvest | 72,067 | | | |
| Central District drift gillnet (corridor-only periods) | | | | | |
| | *Southwest CI* | 696 | 393 | 1,041 | 199 |
| | *Northwest CI* | 0 | 0 | 337 | 159 |
| | *Susitna* | 2,503 | 1,408 | 3,601 | 670 |
| | *Deshka* | 1,196 | 567 | 1,864 | 387 |
| | *Yentna* | 5,101 | 4,051 | 6,185 | 637 |
| | *Knik* | 4,918 | 3,903 | 5,991 | 634 |
| | *Jim* | 28 | 0 | 285 | 117 |
| | *Turnagain/Northeast CI* | 1,757 | 852 | 2,747 | 578 |
| | *Kenai* | 533 | 299 | 837 | 166 |
| | *Kasilof* | 0 | 0 | 80 | 42 |
| | *Southeast CI* | 418 | 95 | 824 | 223 |
| | Harvest represented | 17,151 | | | |
| | Harvest unrepresented | 1,024 | | | |
| | Total harvest | 18,175 | | | |

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Table 26.–Page 2 of 2.

| Area strata | Reporting group | Harvest | 90% CI 5% | 90% CI 95% | SD |
|---|---|---|---|---|---|
| Central District, Upper Subdistrict set gillnet | | | | | |
| | *Southwest CI* | 120 | 29 | 314 | 101 |
| | *Northwest CI* | 0 | 0 | 350 | 157 |
| | *Susitna* | 553 | 0 | 1,230 | 413 |
| | *Deshka* | 140 | 0 | 602 | 230 |
| | *Yentna* | 771 | 100 | 1,444 | 395 |
| | *Knik* | 417 | 0 | 942 | 308 |
| | *Jim* | 0 | 0 | 34 | 22 |
| | *Turnagain/Northeast CI* | 3,469 | 2,542 | 4,467 | 583 |
| | *Kenai* | 5,395 | 4,746 | 6,039 | 393 |
| | *Kasilof* | 21 | 0 | 143 | 57 |
| | *Southeast CI* | 343 | 74 | 654 | 174 |
| | Harvest represented | 11,228 | | | |
| | Harvest unrepresented | 378 | | | |
| | Total harvest | 11,606 | | | |
| Northern District, Eastern and General subdistricts set gillnet | | | | | |
| | *Southwest CI* | 4 | 0 | 82 | 39 |
| | *Northwest CI* | 4,175 | 2,985 | 5,622 | 784 |
| | *Susitna* | 4,338 | 2,755 | 5,801 | 932 |
| | *Deshka* | 1,578 | 859 | 2,361 | 452 |
| | *Yentna* | 5,014 | 3,701 | 6,281 | 785 |
| | *Knik* | 5,587 | 4,816 | 6,405 | 497 |
| | *Jim* | 188 | 58 | 367 | 100 |
| | *Turnagain/Northeast CI* | 8,448 | 7,619 | 9,280 | 511 |
| | *Kenai* | 298 | 140 | 507 | 112 |
| | *Kasilof* | 22 | 0 | 111 | 41 |
| | *Southeast CI* | 17 | 0 | 159 | 71 |
| | Harvest represented | 29,669 | | | |
| | Harvest unrepresented | 780 | | | |
| | Total harvest | 30,449 | | | |

*Note*: Stock-specific harvest numbers may not sum to the total harvest represented due to rounding error.

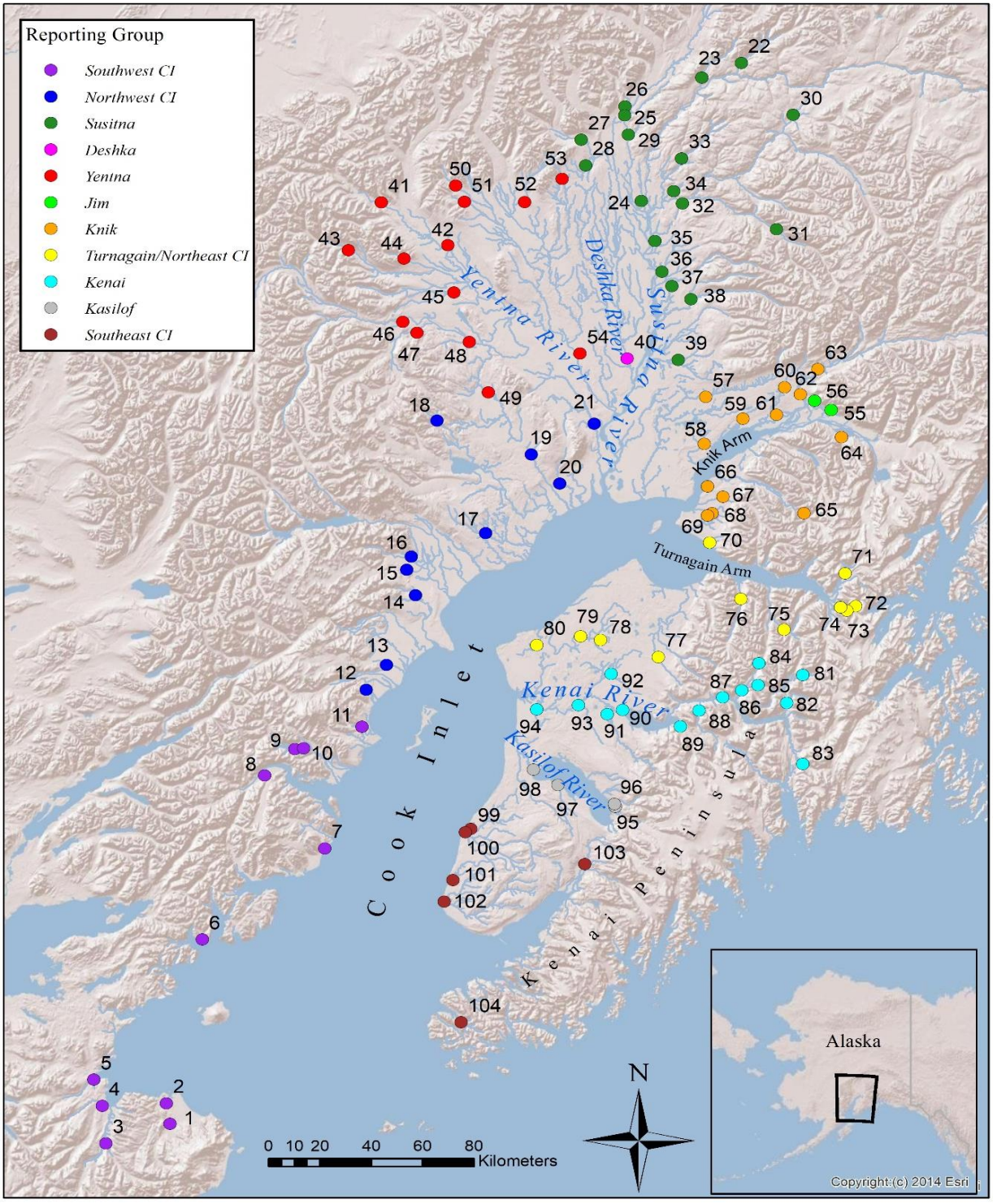


Figure 1.–Map of Cook Inlet showing locations of baseline populations and reporting assignment for genetic mixed stock analysis of coho salmon harvest samples.

*Note*: Colors denote reporting groups as in Figures 2, 3, 7–15, and 20–31. Unique population numbers correspond to population numbers on Table 1.

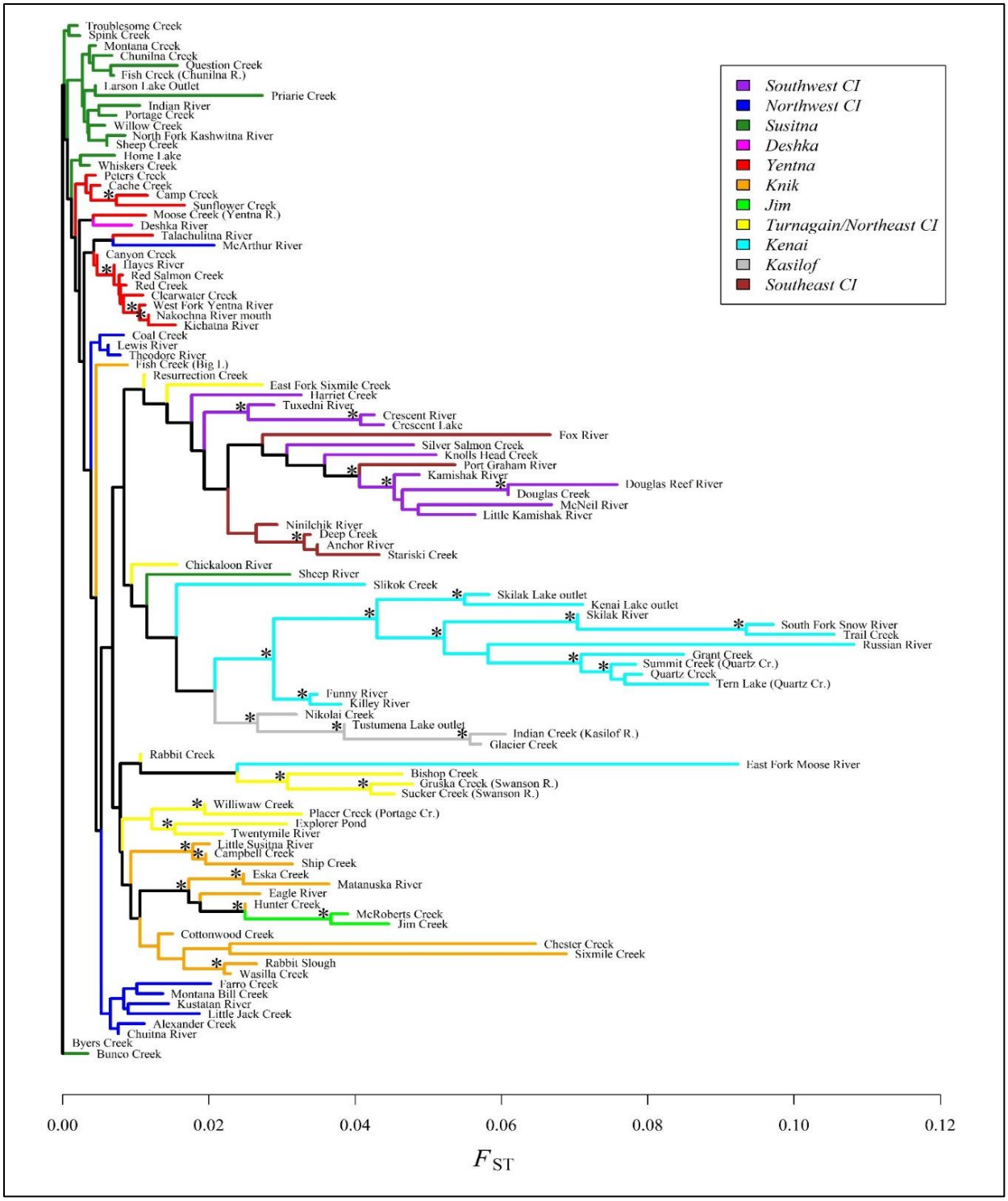


Figure 2.–Consensus neighbor-joining (NJ) tree based on pairwise $F_{ST}$ between coho salmon populations sampled from spawning areas in drainages of Cook Inlet, Alaska (see Table 1 for collection details).

*Note*: Colors denote reporting groups as in Figures 1, 3, 7-15, 20-31. Bootstrap consensus nodes occurring in >50% of trees are marked with an asterisk.

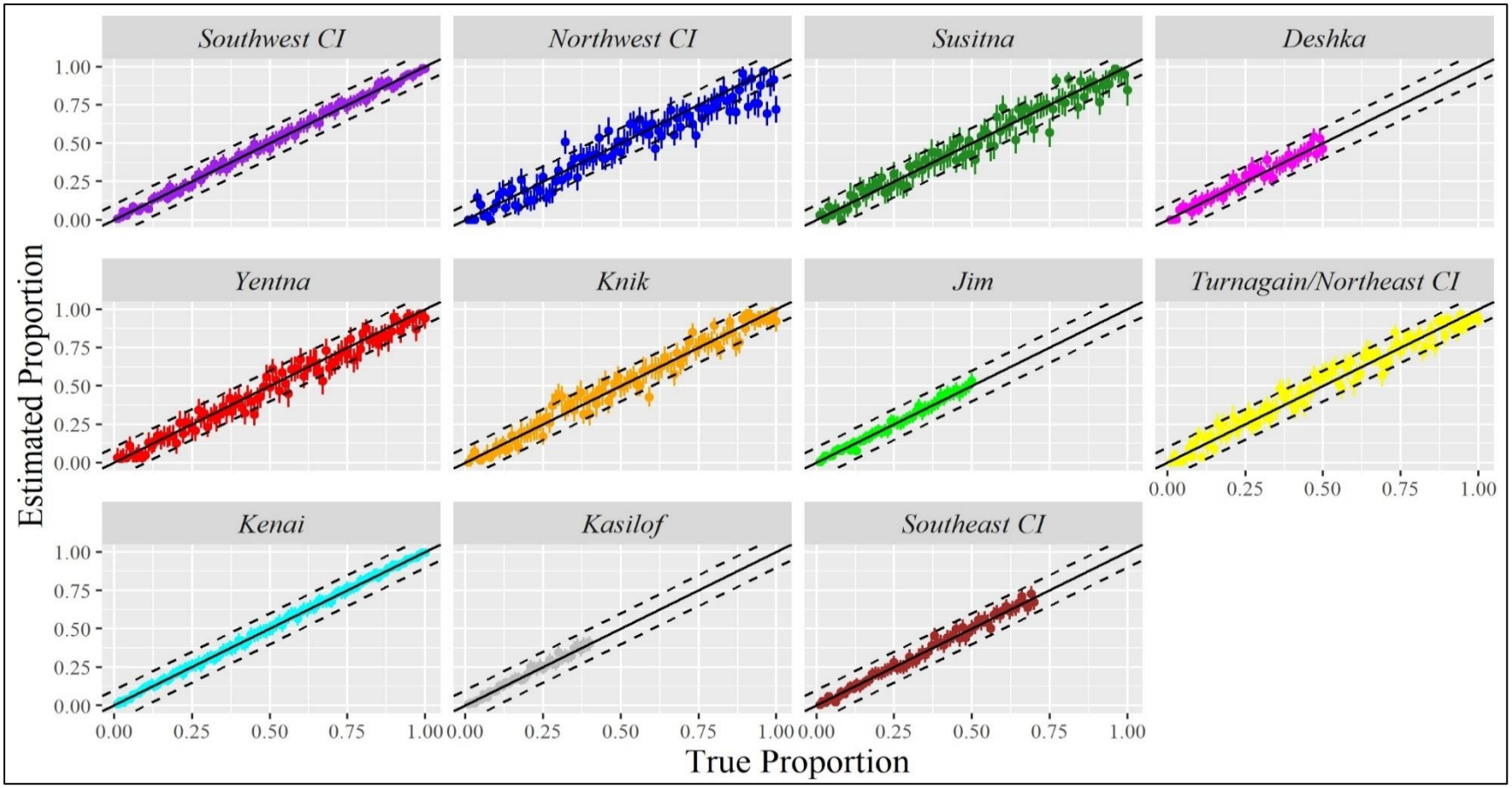


Figure 3.–Results of baseline evaluation test mixtures for 11 reporting groups.

*Note*: Baseline evaluation tests were conducted using the R package *rubias* Moran and Anderson 2019. Each test mixture contained 380 fish with true proportions ranging from 1% to 100% for the 11 reporting groups (Table 1). The points represent the mean correct allocation (y-axis) for each scenario (x-axis) with 90% credibility intervals for each point. The solid diagonal line indicates where the estimated proportion equals the true proportion. A reporting group is considered sufficiently identifiable for mixed stock analysis if 90% of point estimates are within +/- 0.10 of the true proportion (dotted lines). See Table 2 for proof test summary statistics. Proof tests were not performed for scenarios where Deshka and Jim comprised over 49%, Kasilof comprised over 39%, and Southeast CI comprised over 69% of the mixture sample to avoid removing more than 50% of baseline samples from those groups (see proof test methods in text).

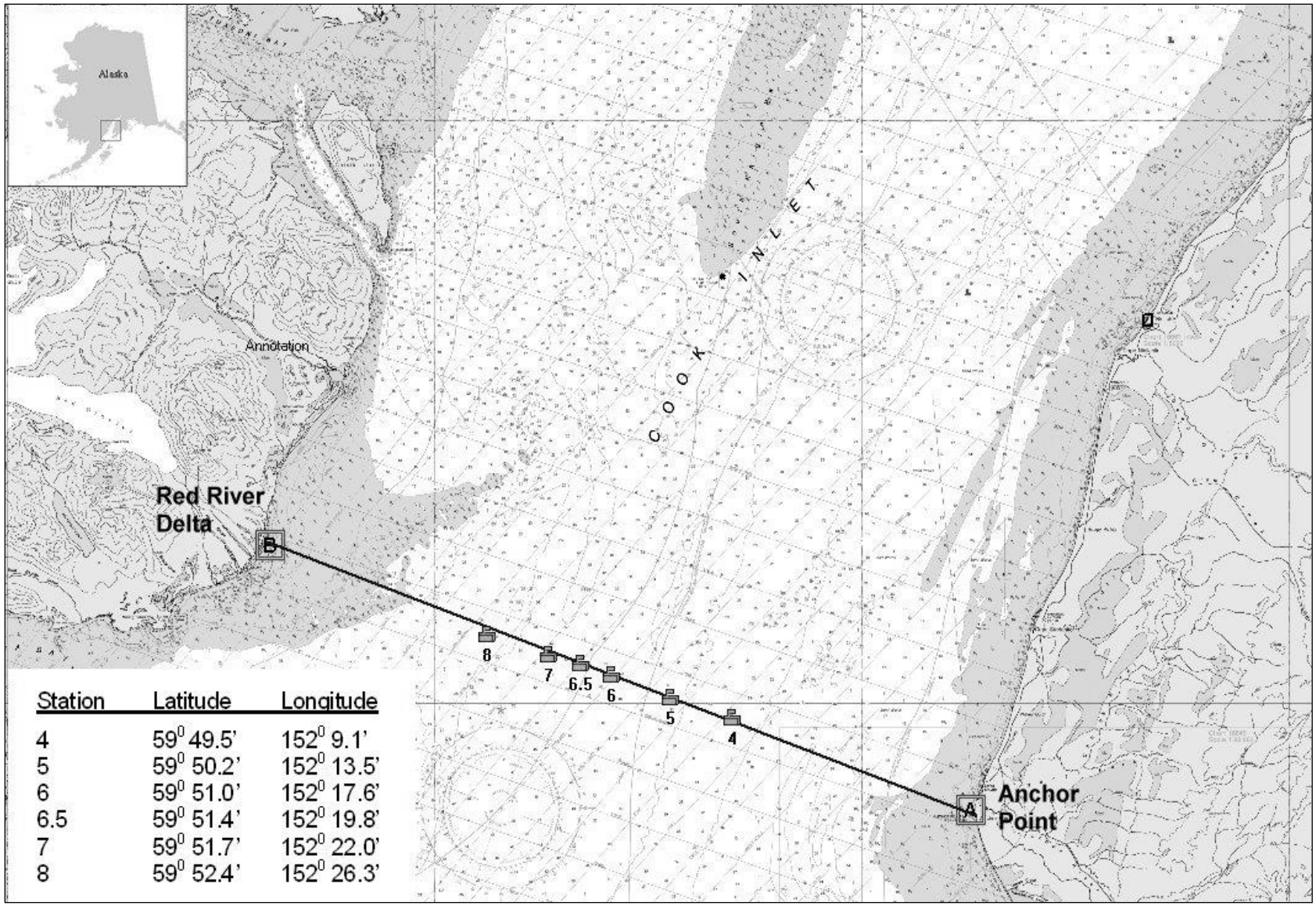


Figure 4.–Map of the southern offshore test fishery transect and fishing stations in Cook Inlet, Alaska, 2013–2016.

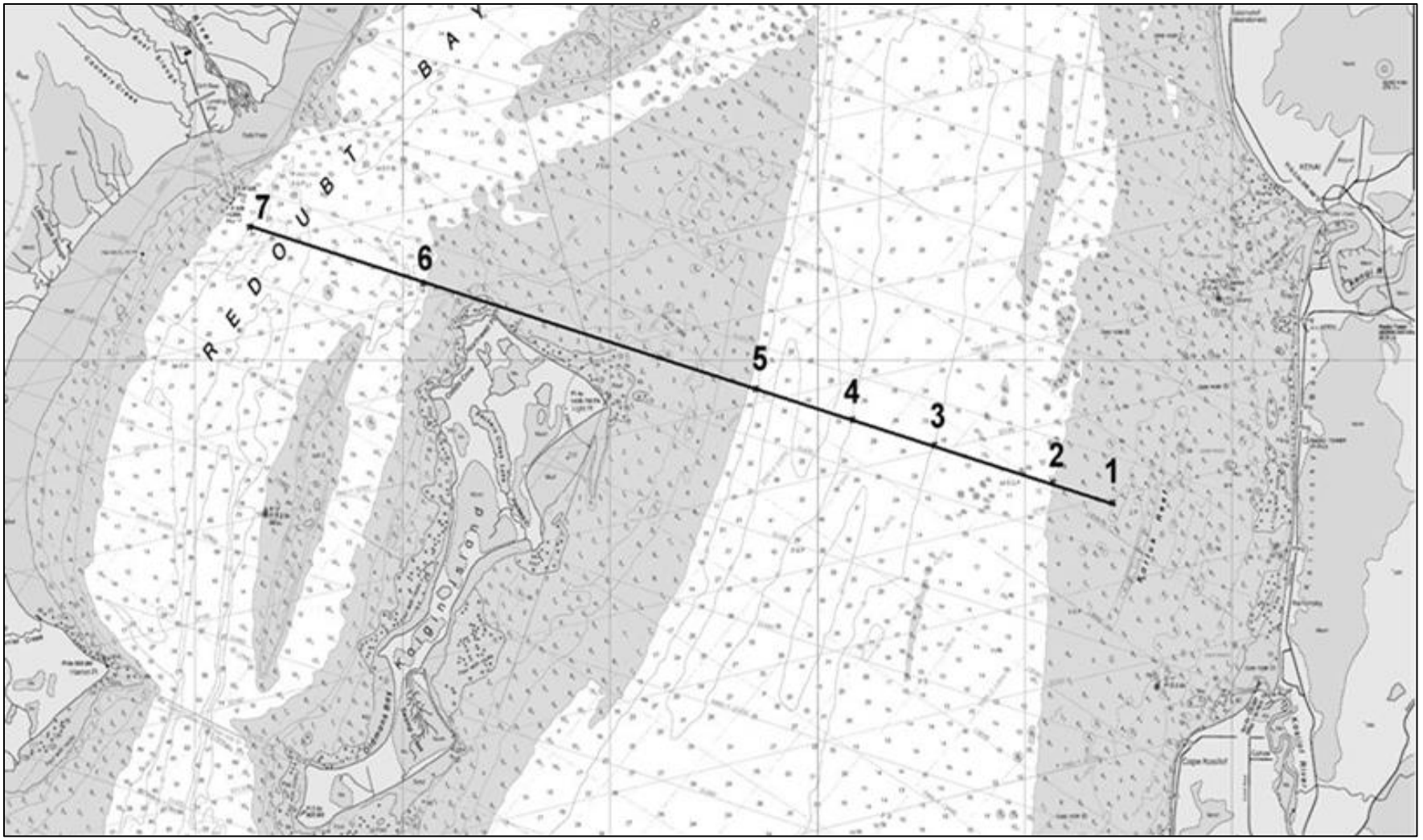


Figure 5.–Map of the northern offshore test fishery transect and fishing stations in Upper Cook Inlet, Alaska, 2013.

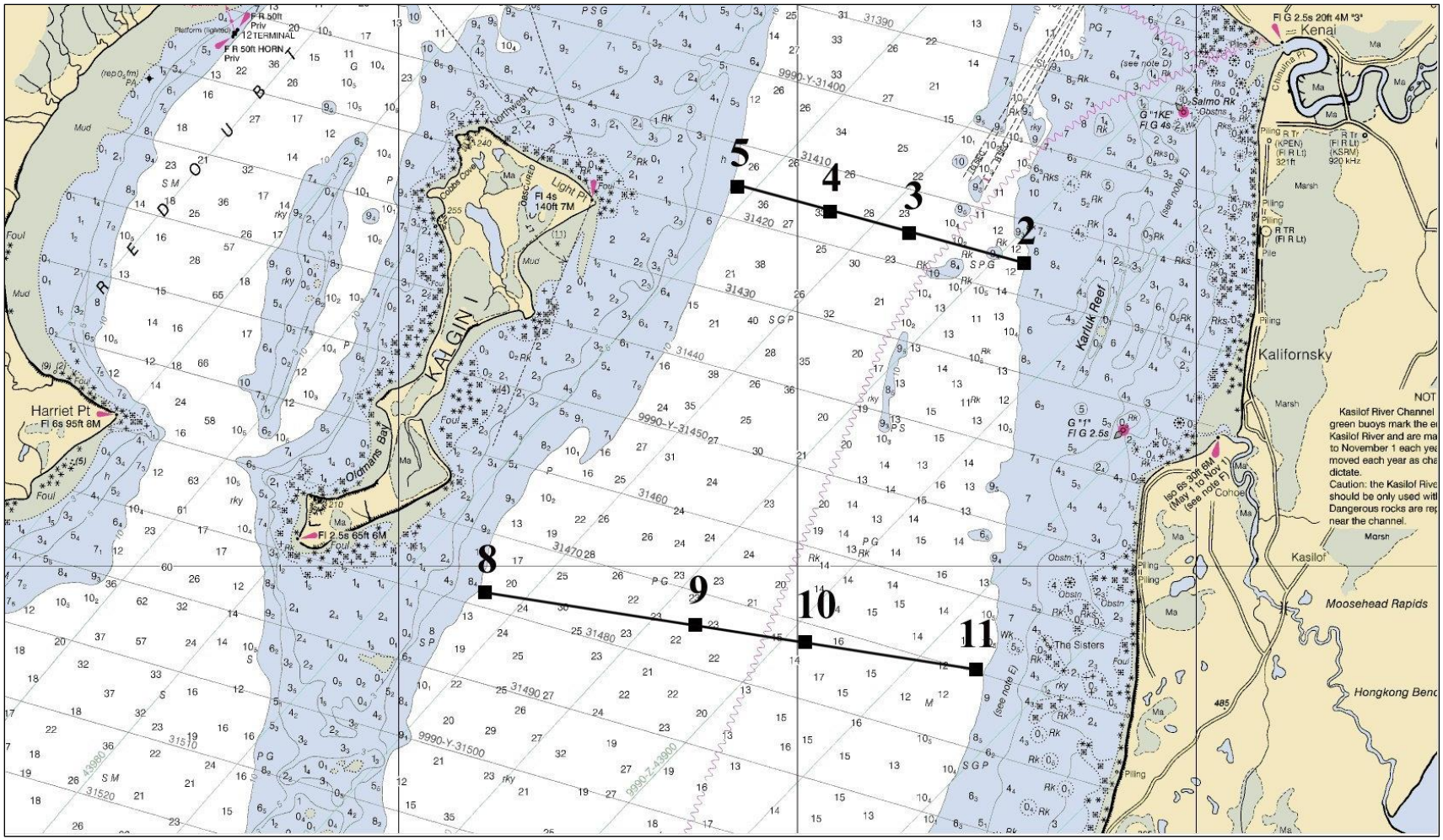


Figure 6.–Map of the northern offshore test fish transects and fishing stations in Upper Cook Inlet, Alaska, 2014.

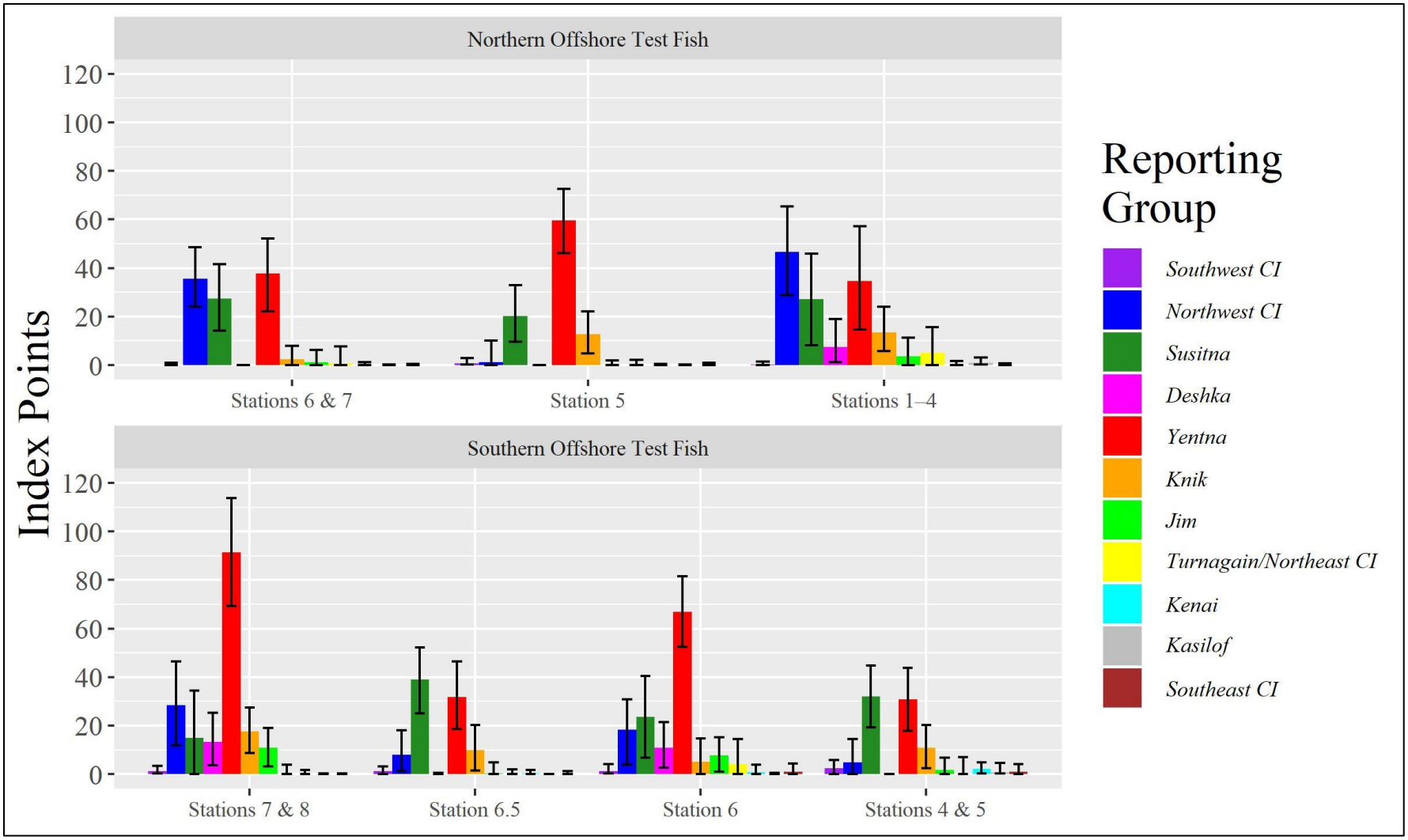


Figure 7.–Offshore test fishery by test fish station in 2013, index point estimates for coho salmon by stock and 90% credibility intervals. Estimates are ordered from west (left) to east (right) Cook Inlet.

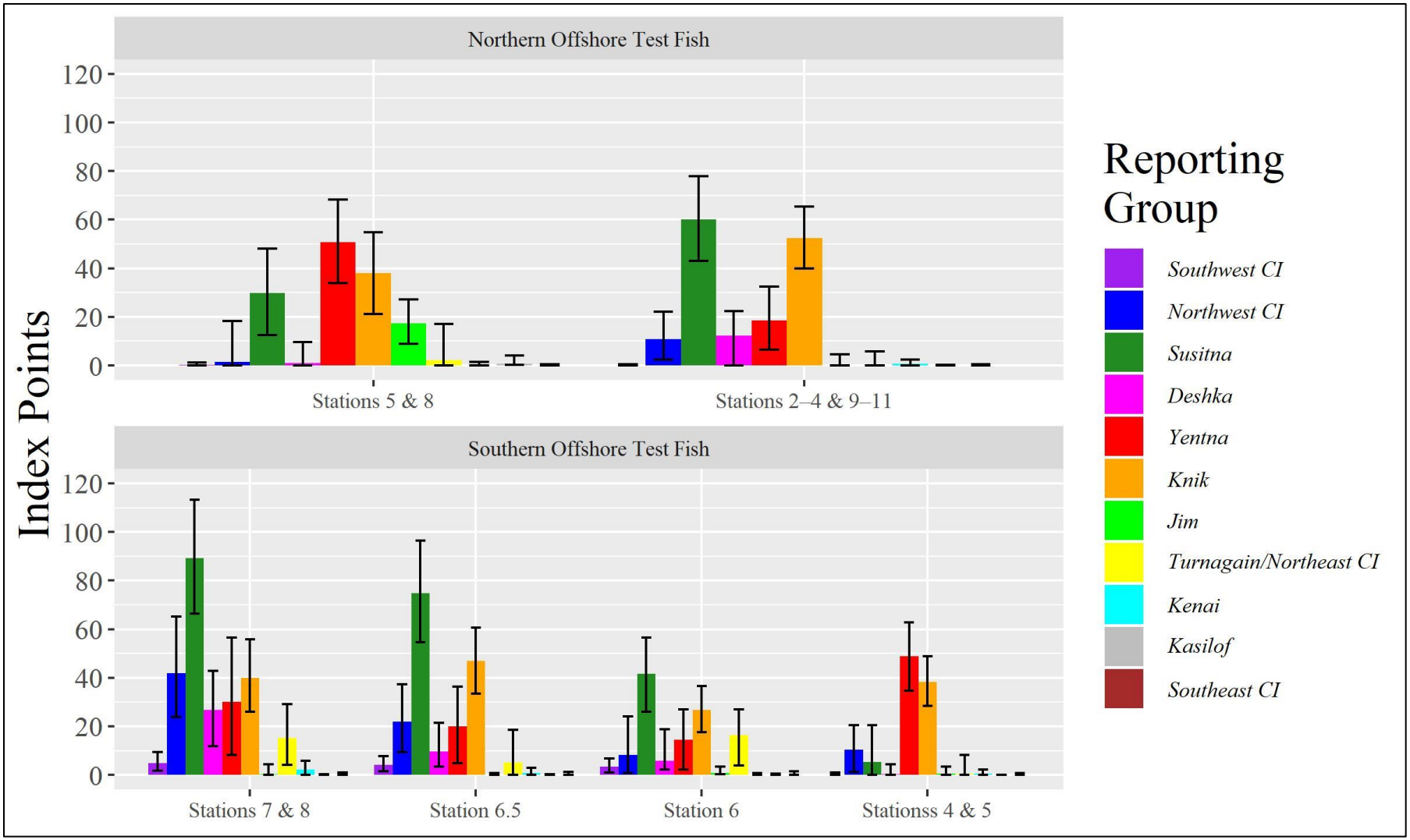


Figure 8.–Offshore test fishery by test fish station in 2014, index point estimates for coho salmon by stock and 90% credibility intervals. Estimates are ordered from west (left) to east (right) Cook Inlet.

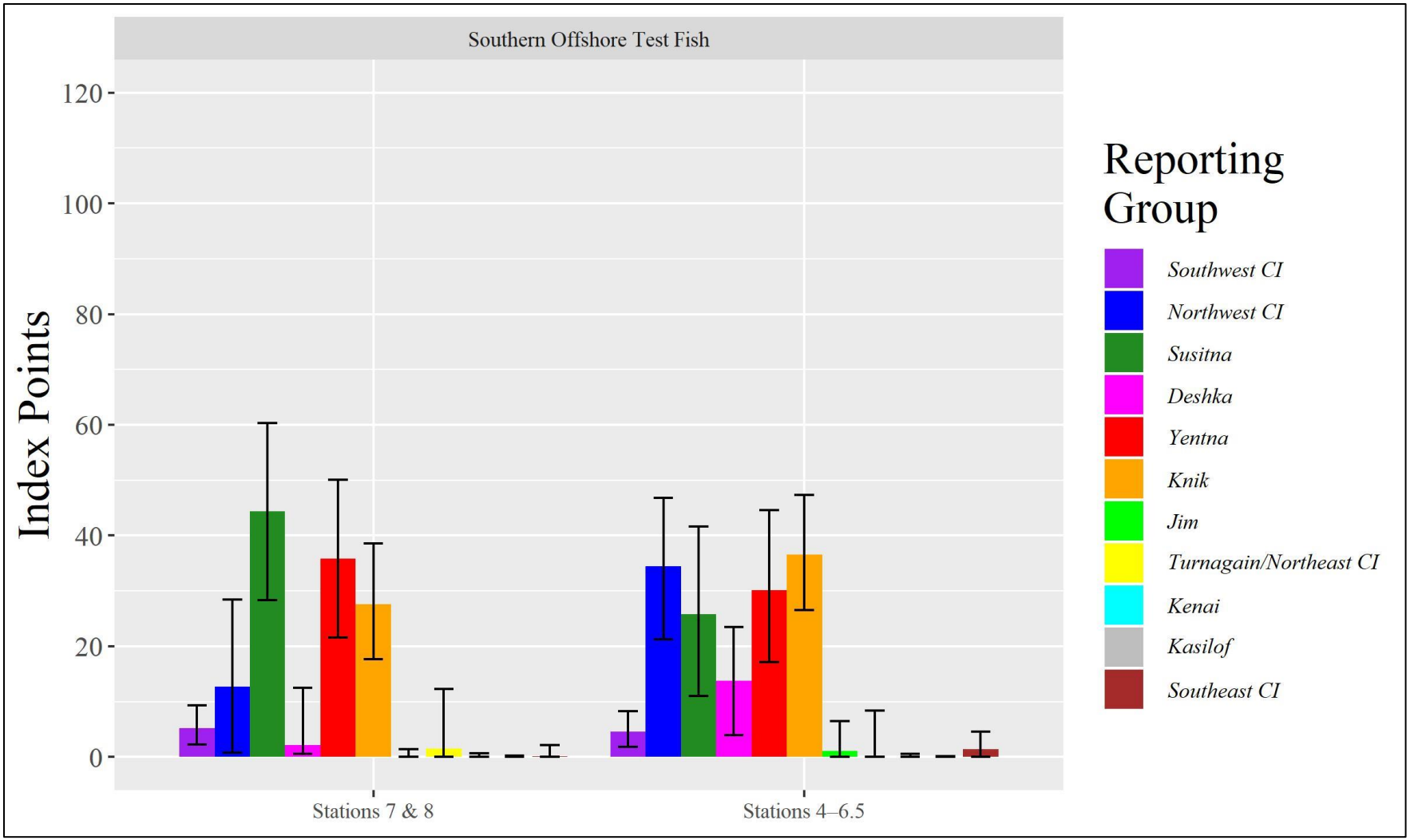


Figure 9.–Offshore test fishery by test fish station in 2015, index point estimates for coho salmon by stock and 90% credibility intervals. Estimates are ordered from west (left) to east (right) Cook Inlet.

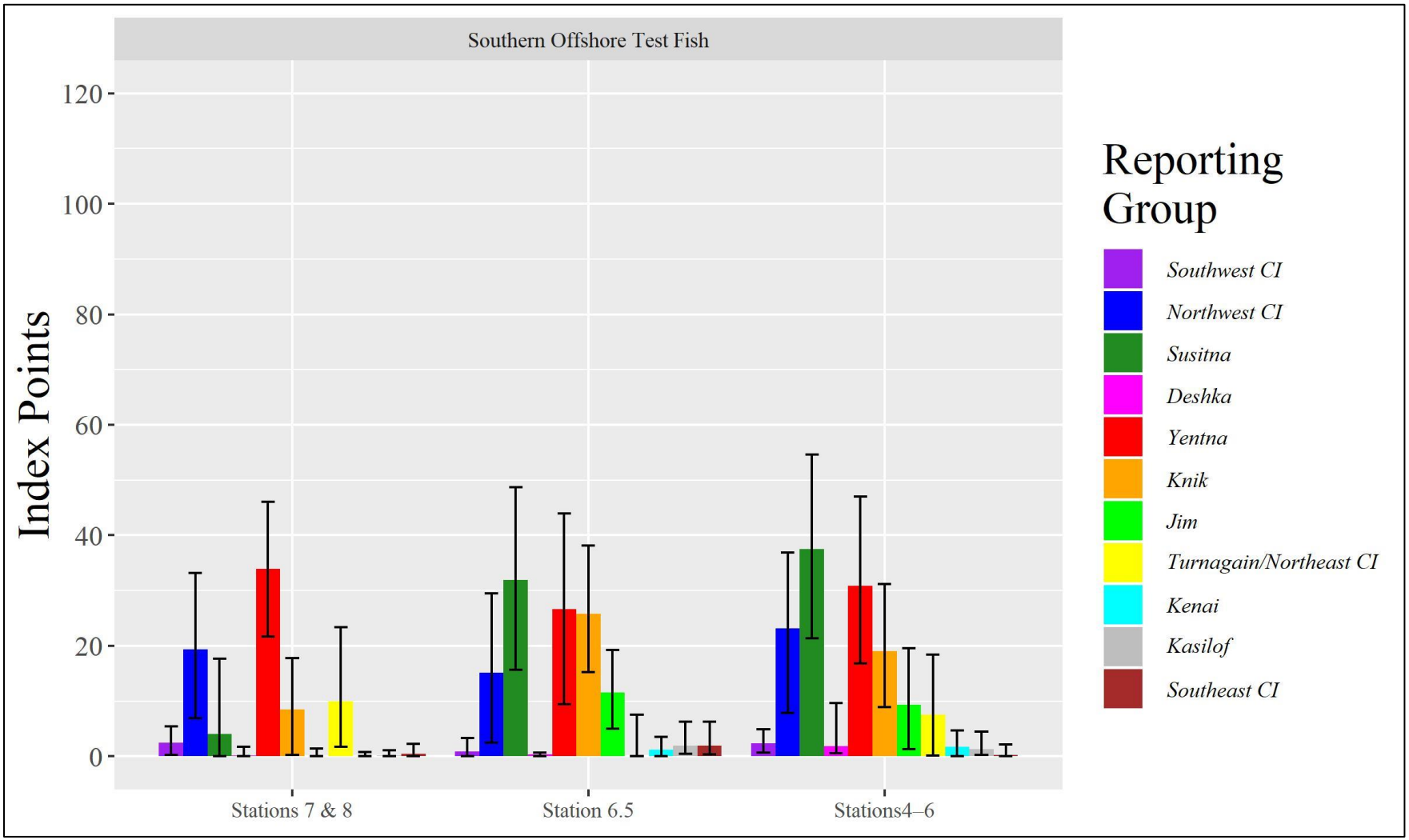


Figure 10.–Offshore test fishery by test fish station in 2016, index point estimates for coho salmon by stock and 90% credibility intervals. Estimates are ordered from west (left) to east (right) Cook Inlet.

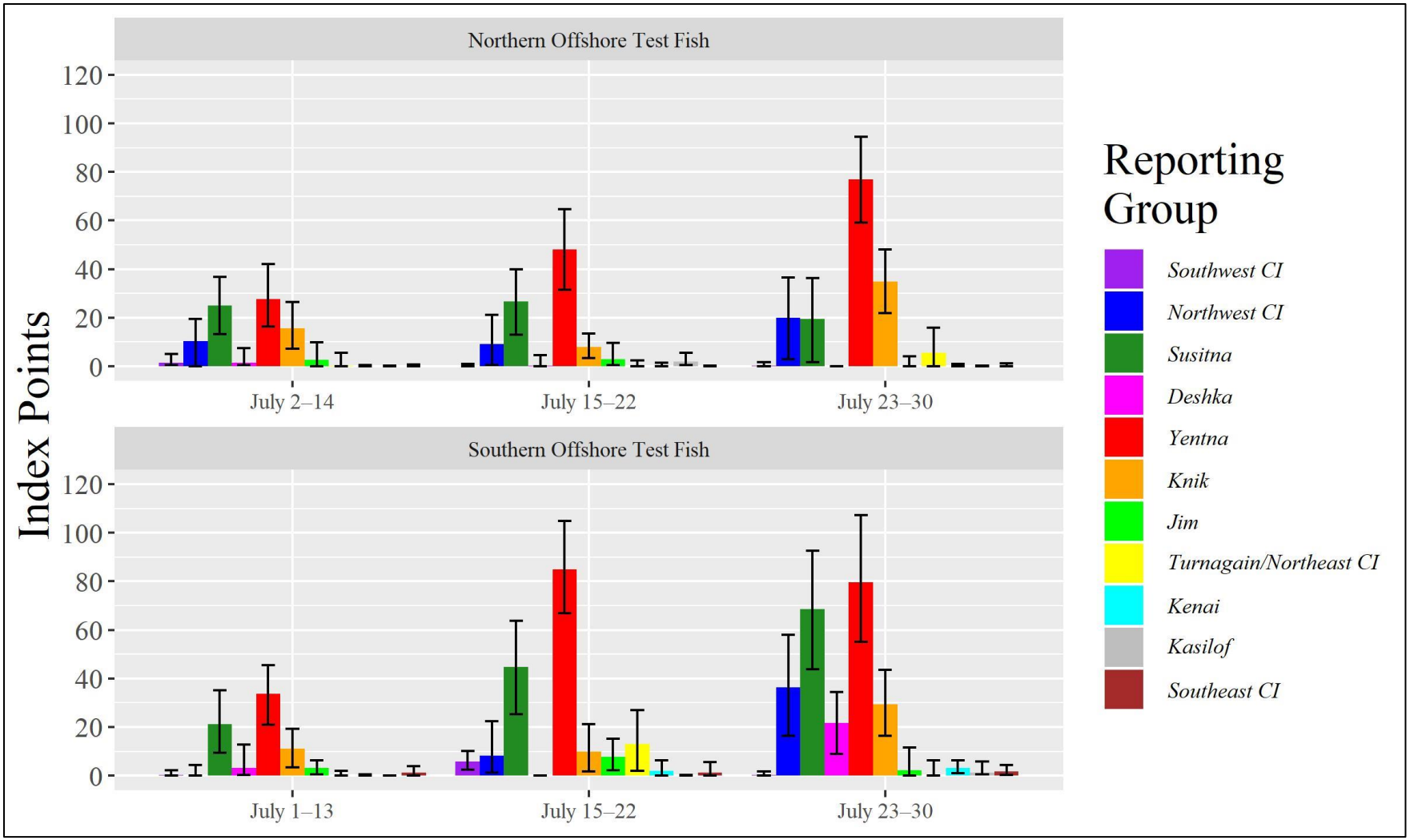


Figure 11.–Offshore test fishery by date in 2013; index point estimates for coho salmon by stock and 90% credibility intervals.

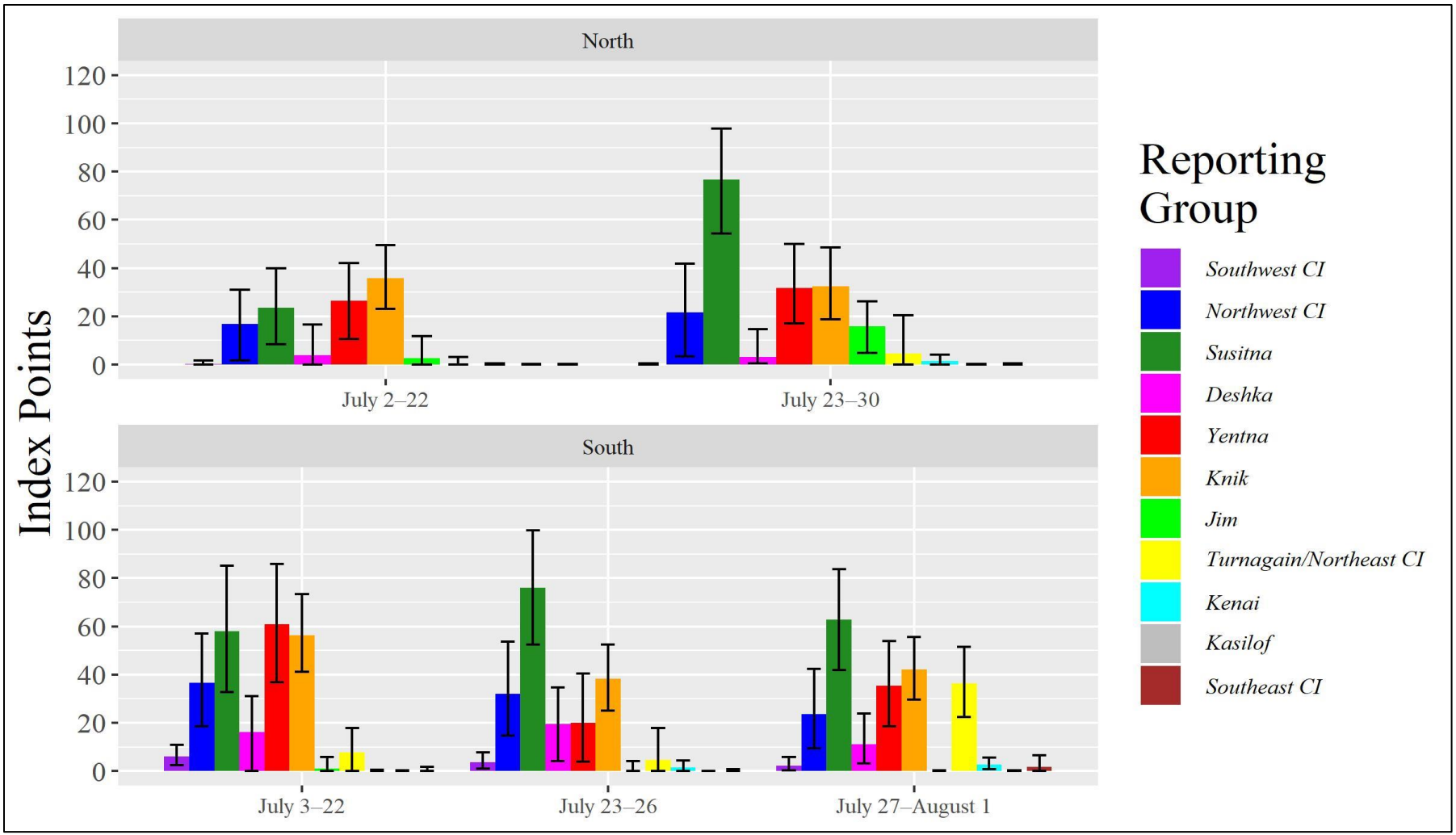


Figure 12.–Offshore test fishery by date in 2014; index point estimates for coho salmon by stock and 90% credibility intervals.

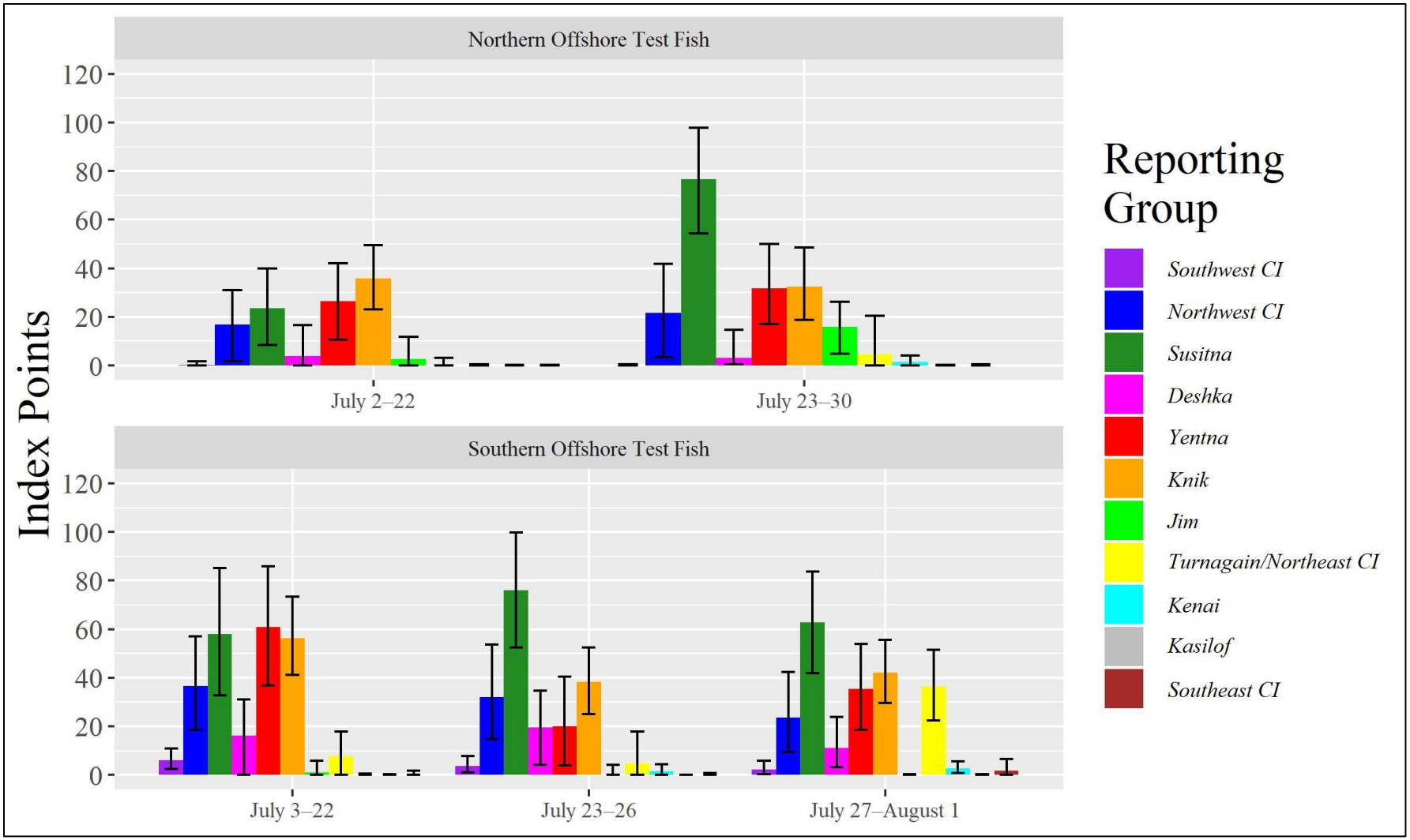


Figure 13.–Offshore test fishery by date in 2015; index point estimates for coho salmon by stock and 90% credibility intervals.

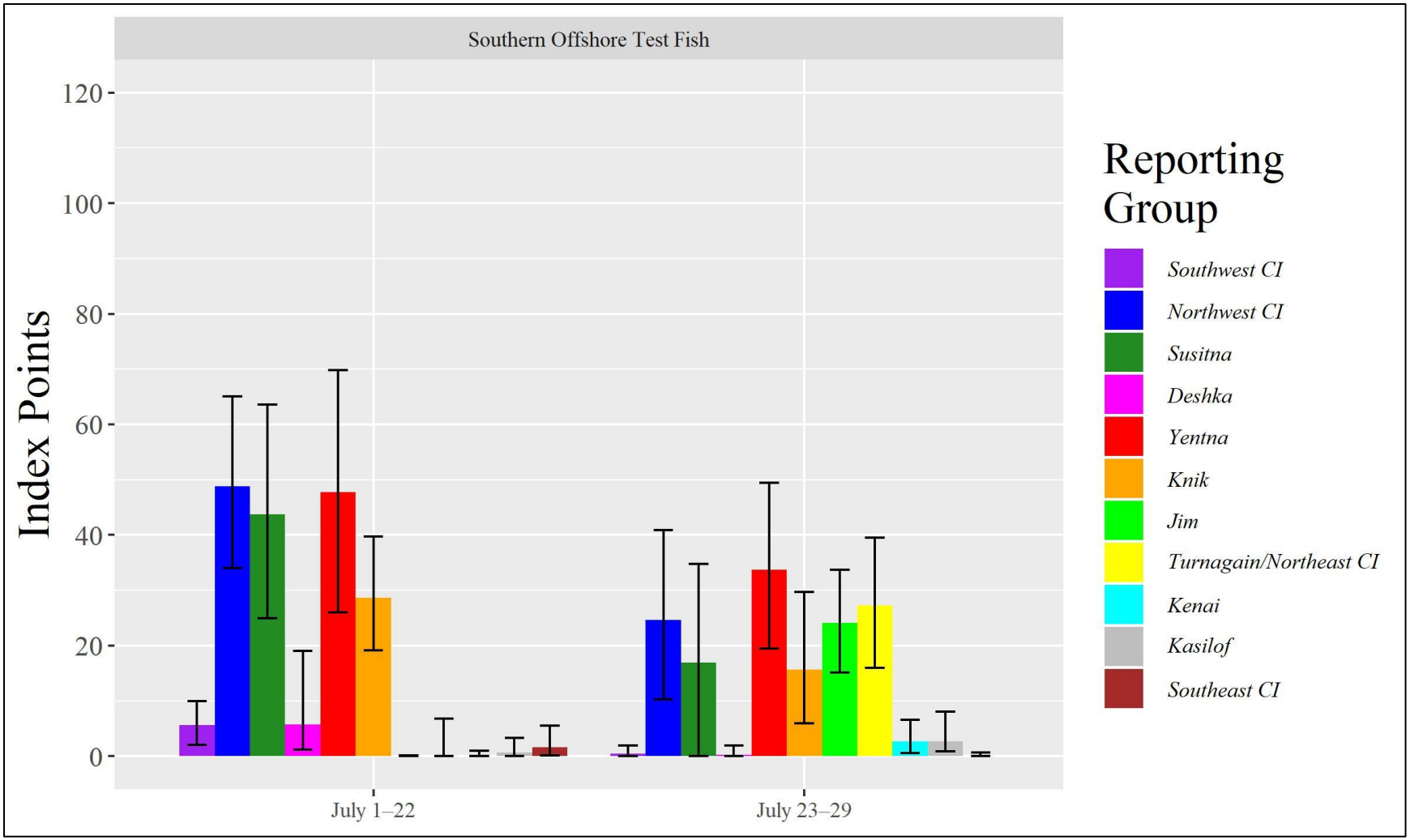


Figure 14.–Offshore test fishery by date in 2016; index point estimates for coho salmon by stock and 90% credibility intervals.

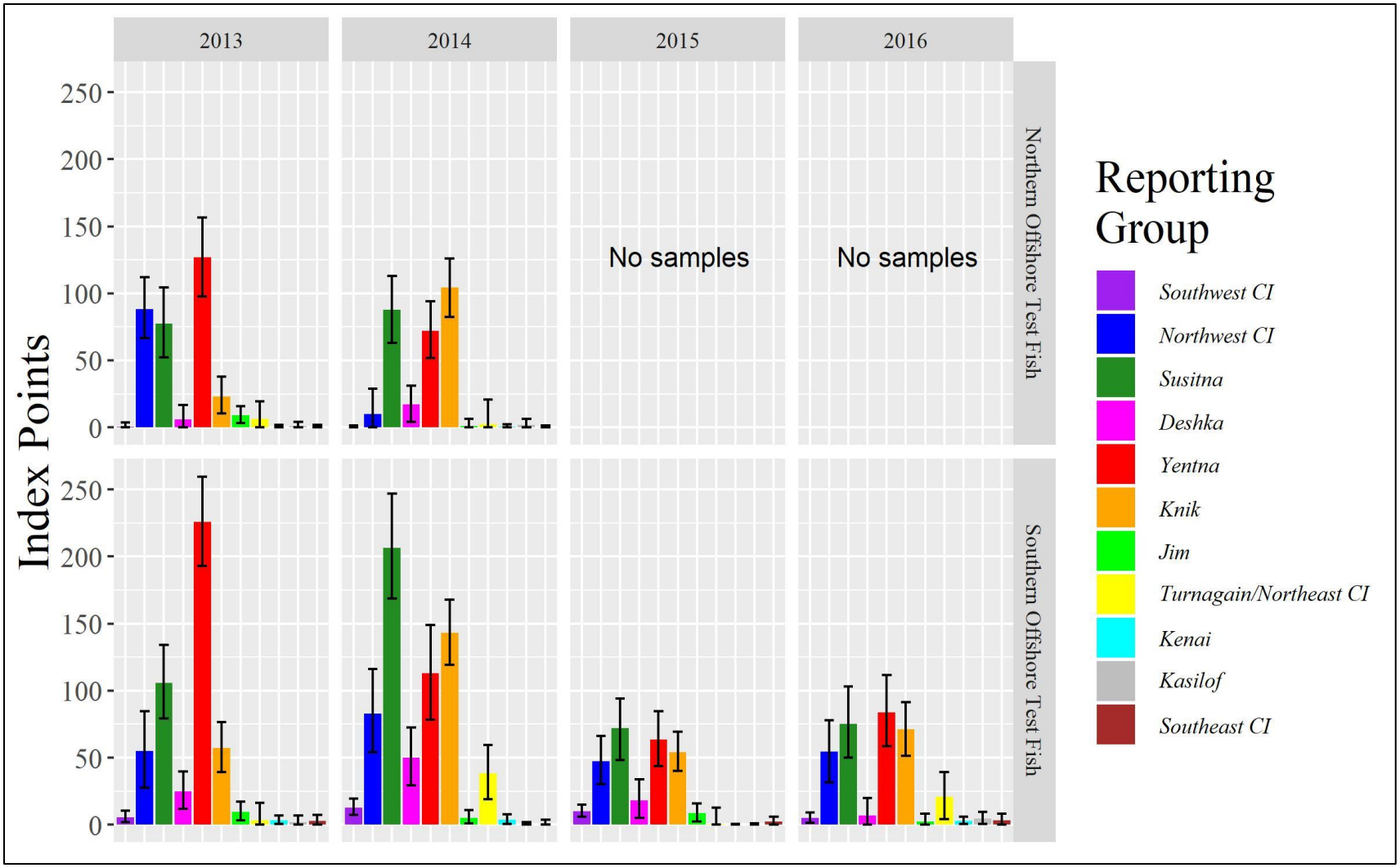


Figure 15.–Northern and Southern offshore test fishery stratified index point estimates 2013–2016; harvest estimates and 90% credibility intervals for coho salmon by stock.

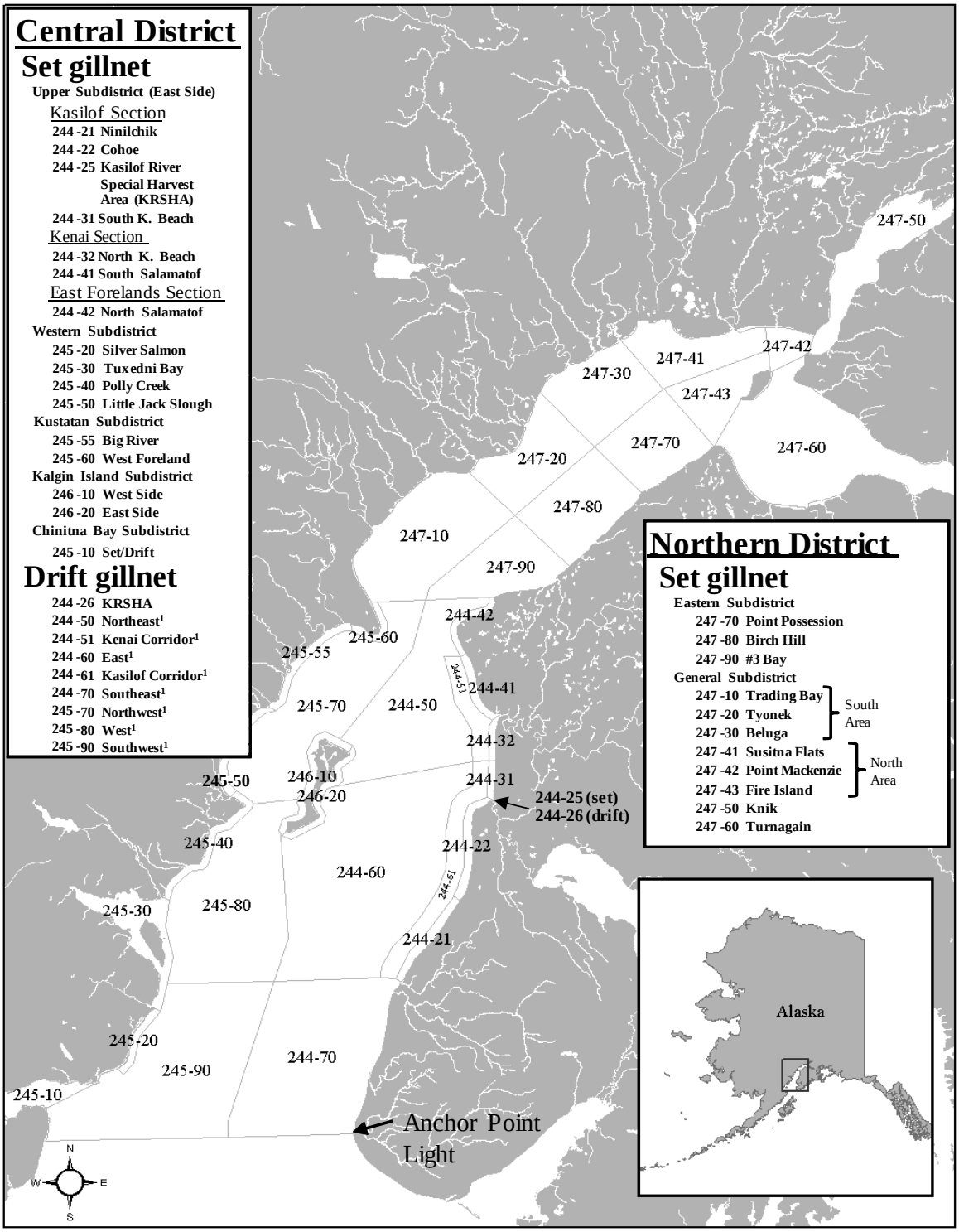


Figure 16.–Map of Upper Cook Inlet showing commercial fishing boundaries (statistical areas) for subdistricts and selected sections within the Northern and Central districts for both set and drift gillnet fisheries.

*Note*: Districts, subdistricts, and sections are defined in Alaska Administrative Code (5 AAC 21.200).

[1] These stat areas are grouped into one stat area (244-60) in Figure 19 and Appendices A3 and C1–C4 to represent all Central District drift gillnet areas excluding Chinitna Bay.

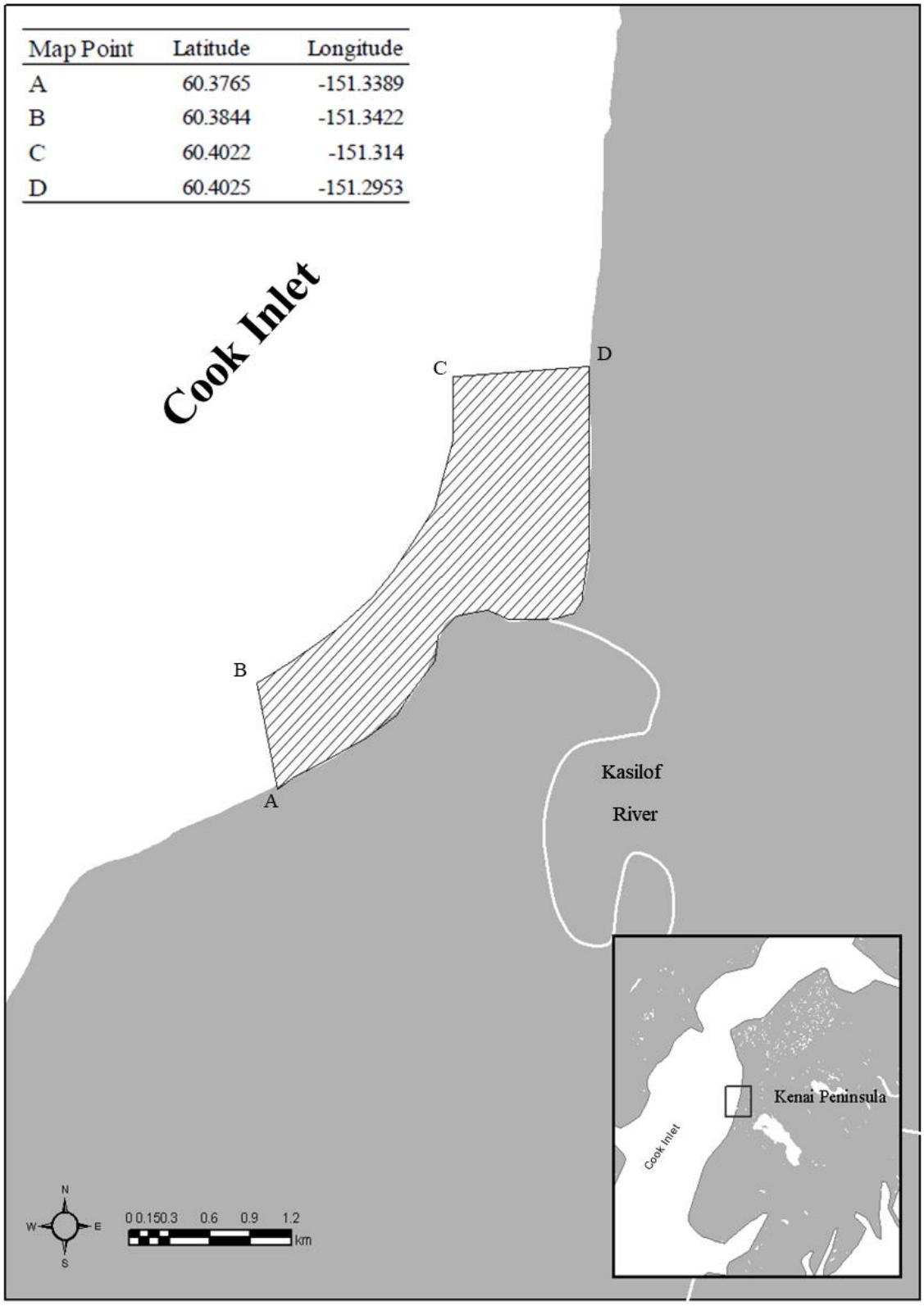


Figure 17.–Map of the mouth of the Kasilof River showing management fishing boundaries for the Kasilof River Special Harvest Area (Central District, Upper Subdistrict).

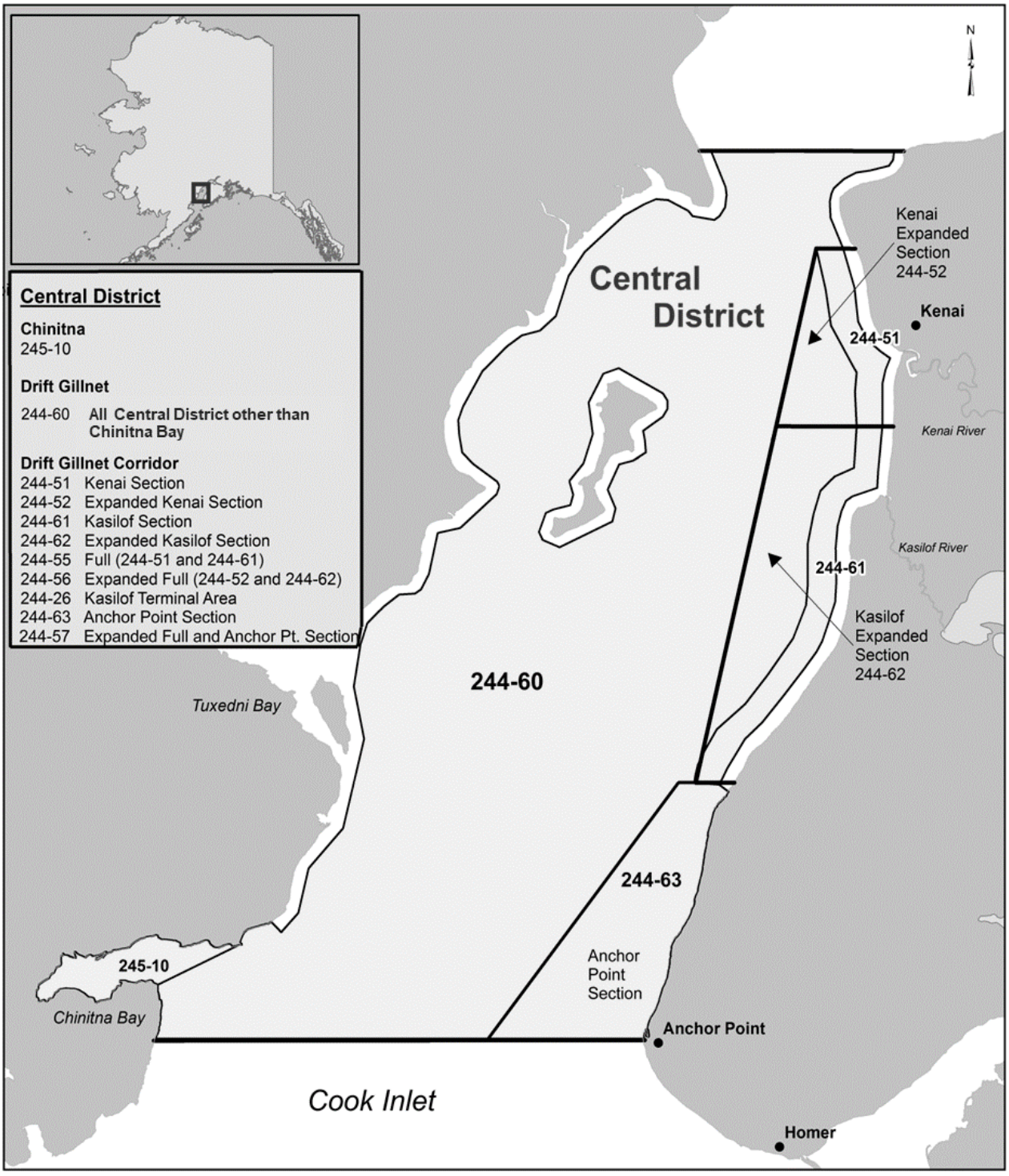


Figure 18.–Map of Upper Cook Inlet showing commercial fishing boundaries (statistical areas) within the Central district drift gillnet fishery, including the Kenai and Kasilof sections and expanded sections (see text).

*Note*: Districts, subdistricts, and sections are defined in Alaska Administrative Code (5 AAC 21.200).

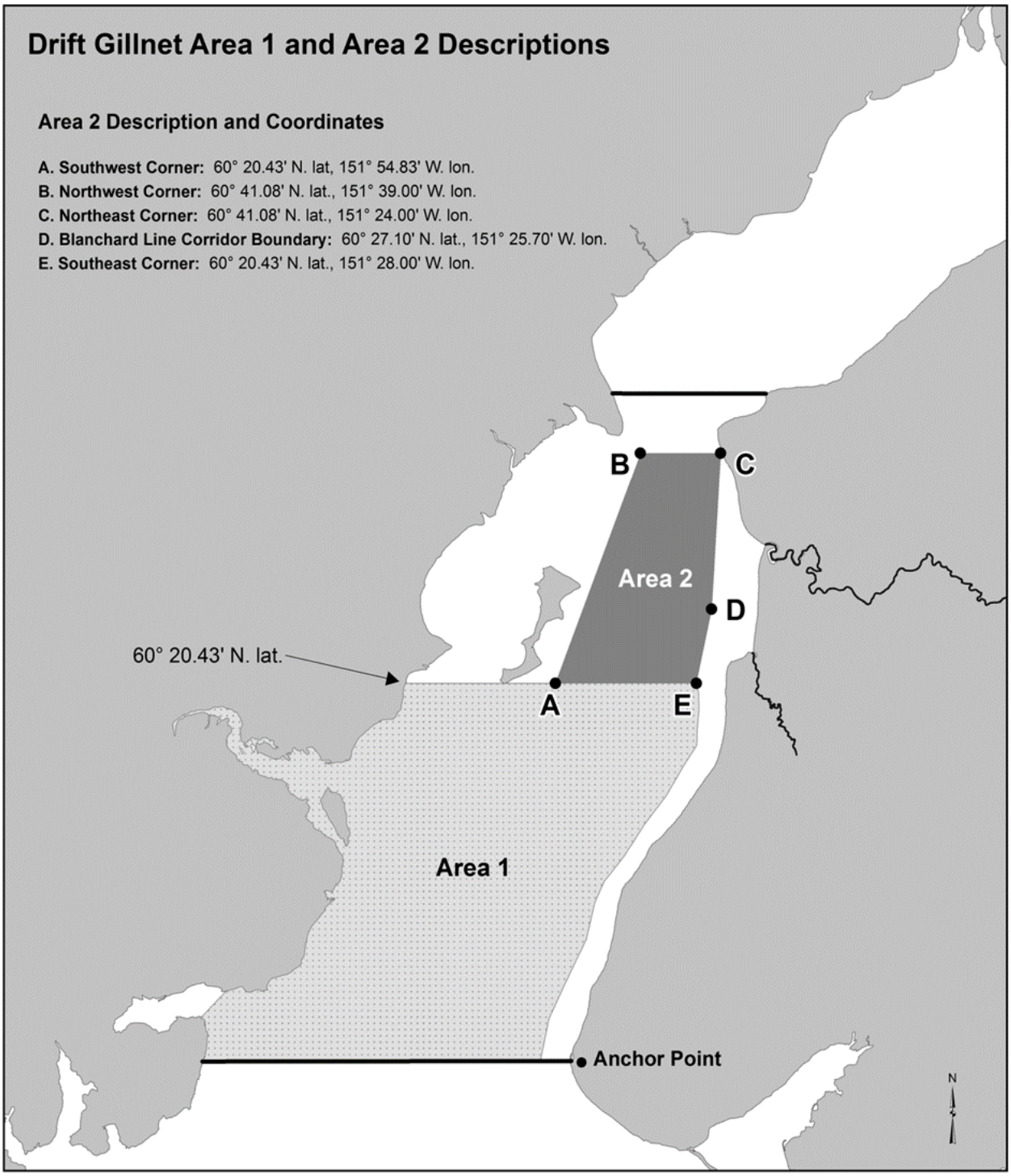


Figure 19.–Map of Upper Cook Inlet showing commercial fishing boundaries (statistical areas) within the Central district drift gillnet fishery, including the areas 1 and 2 (see text).

*Note*: Districts, subdistricts, and sections are defined in Alaska Administrative Code (5 AAC 21.200).

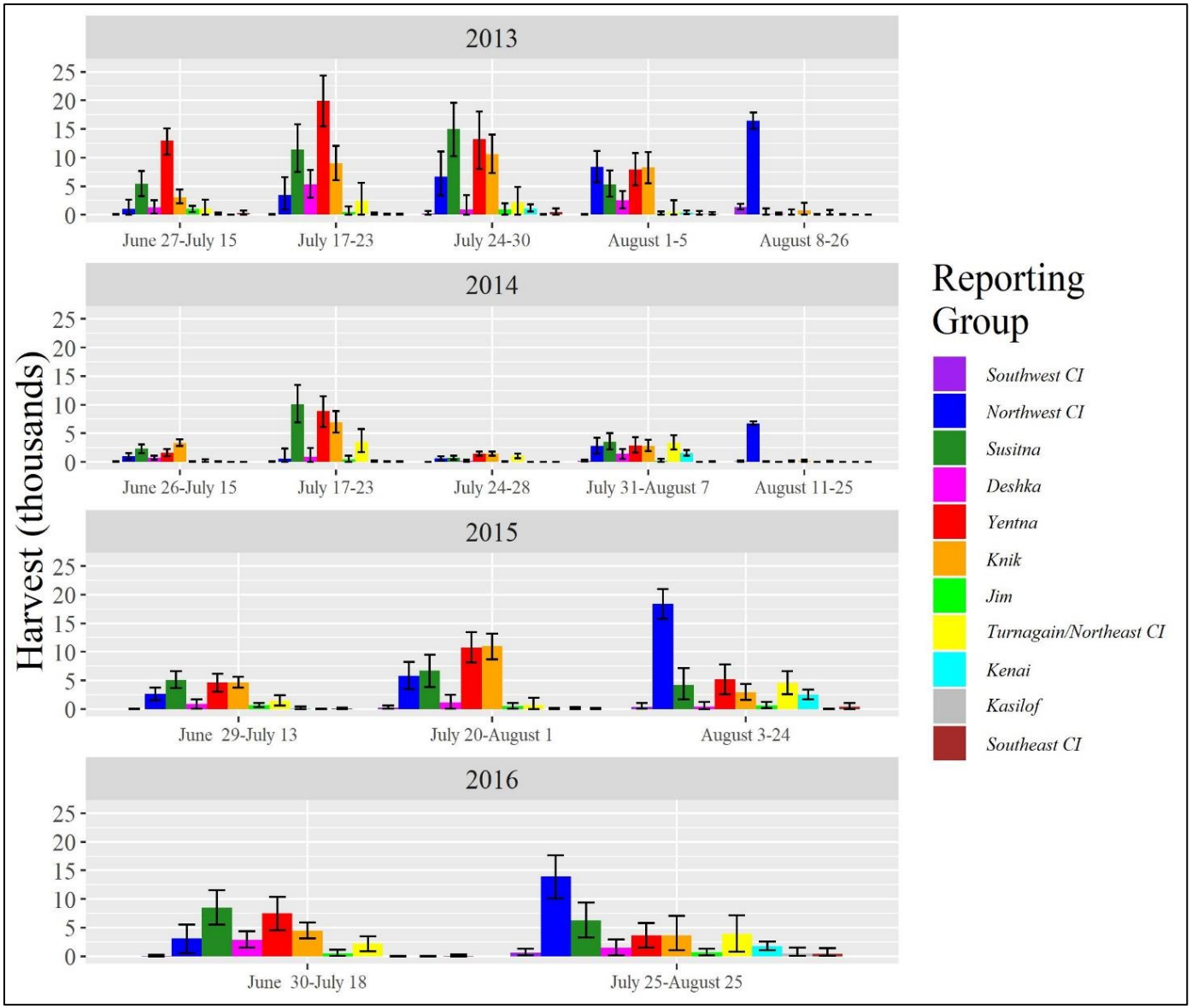


Figure 20.–Central District drift gillnet fishery by date 2013–2016; harvest estimates and 90% credibility intervals for coho salmon by stock.

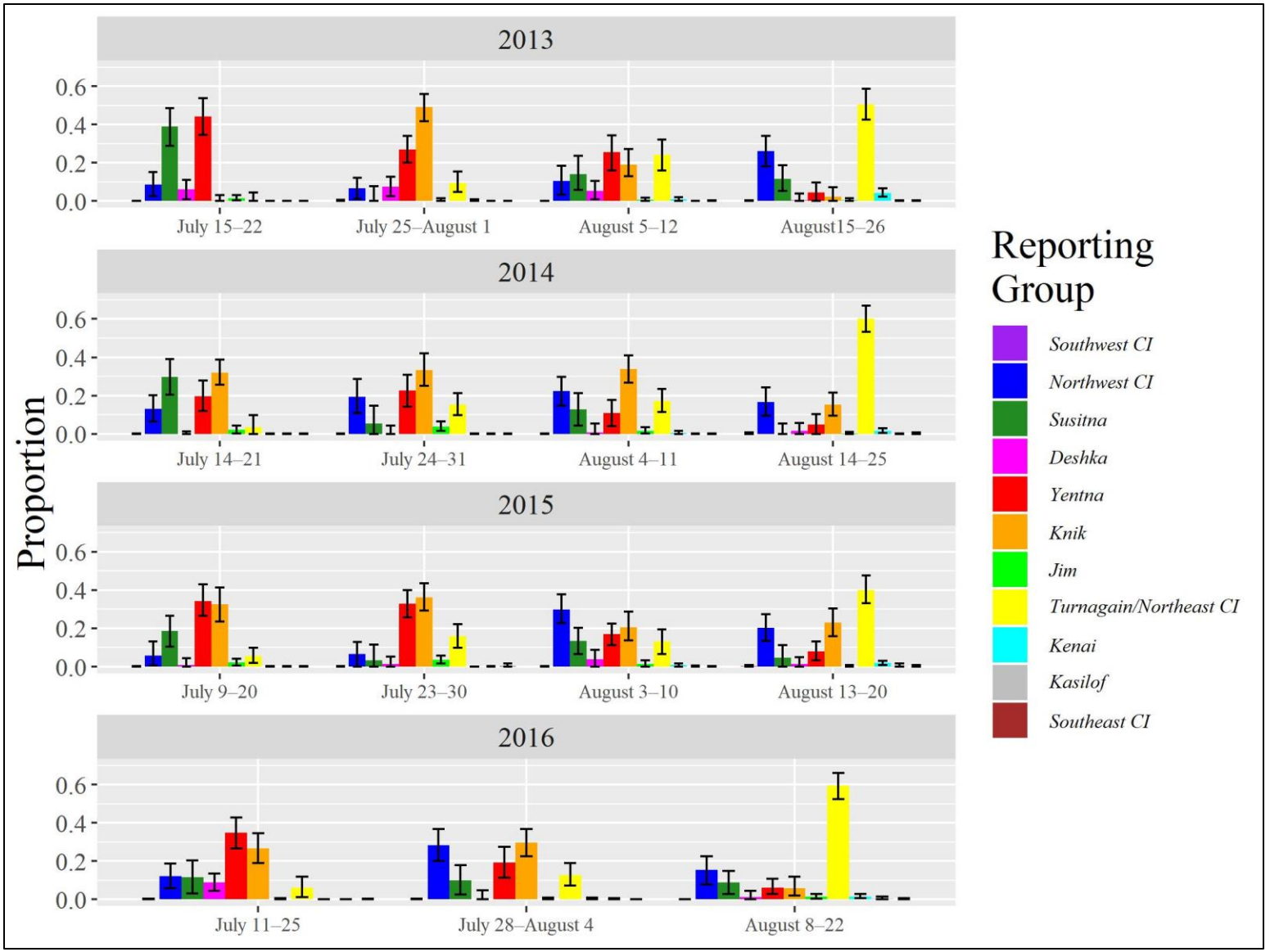


Figure 21.–Northern District set gillnet fishery by date 2013–2016; stock composition estimates and 90% credibility intervals for coho salmon by stock.

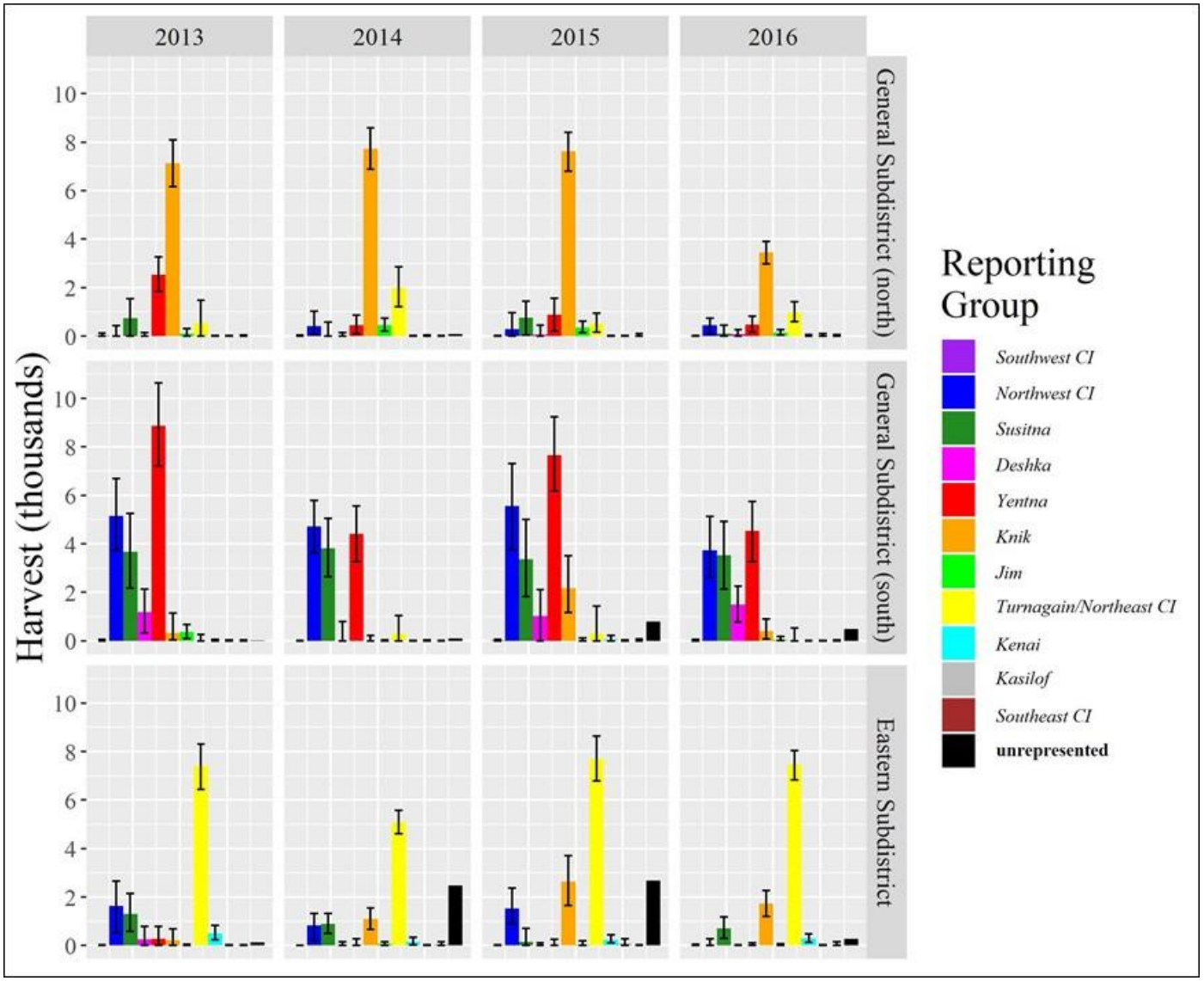


Figure 22.–Northern District set gillnet fishery by area, 2013–2016; harvest estimates and 90% credibility intervals for coho salmon by stock.

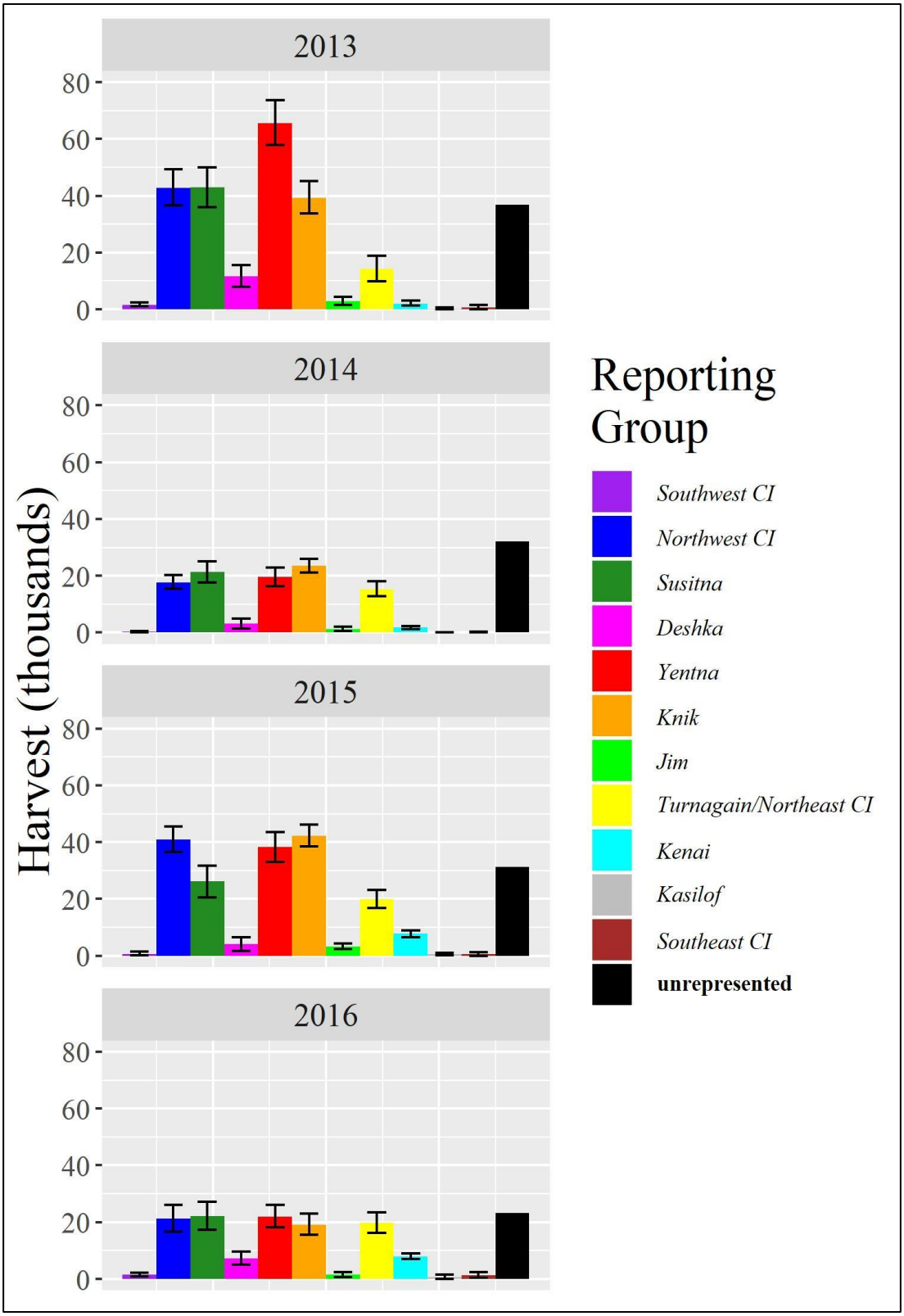


Figure 23.–Overall Cook Inlet commercial fishery stratified harvest estimates for coho salmon by stock for 2013–2016.

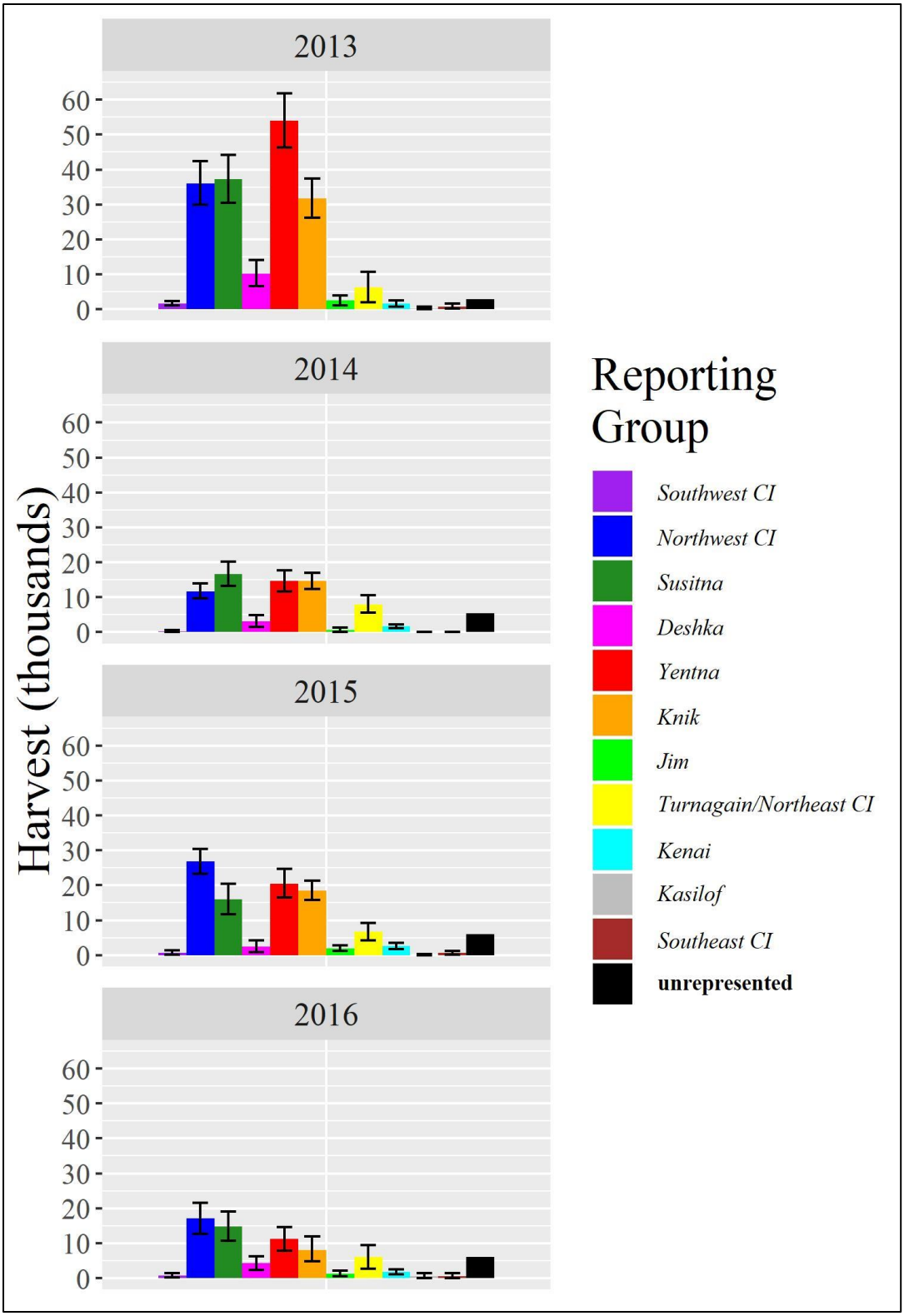


Figure 24.–Central District drift gillnet fishery (excluding corridor-only periods); stratified harvest estimates and credibility intervals for coho salmon by stock 2013–2016.

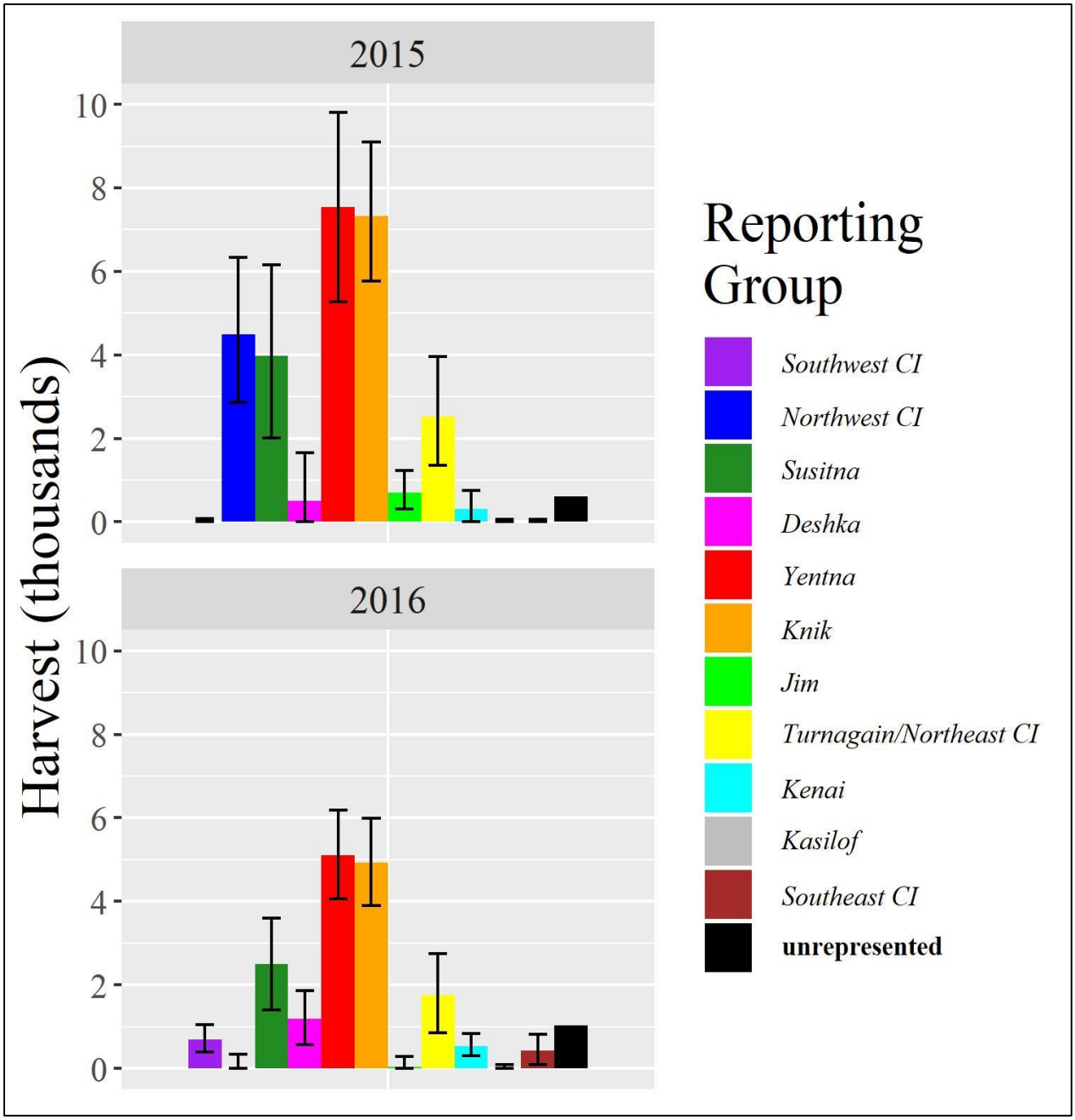


Figure 25.–Central District drift gillnet fishery (corridor-only periods); stratified harvest estimates and credibility intervals for coho salmon by stock 2015–2016.

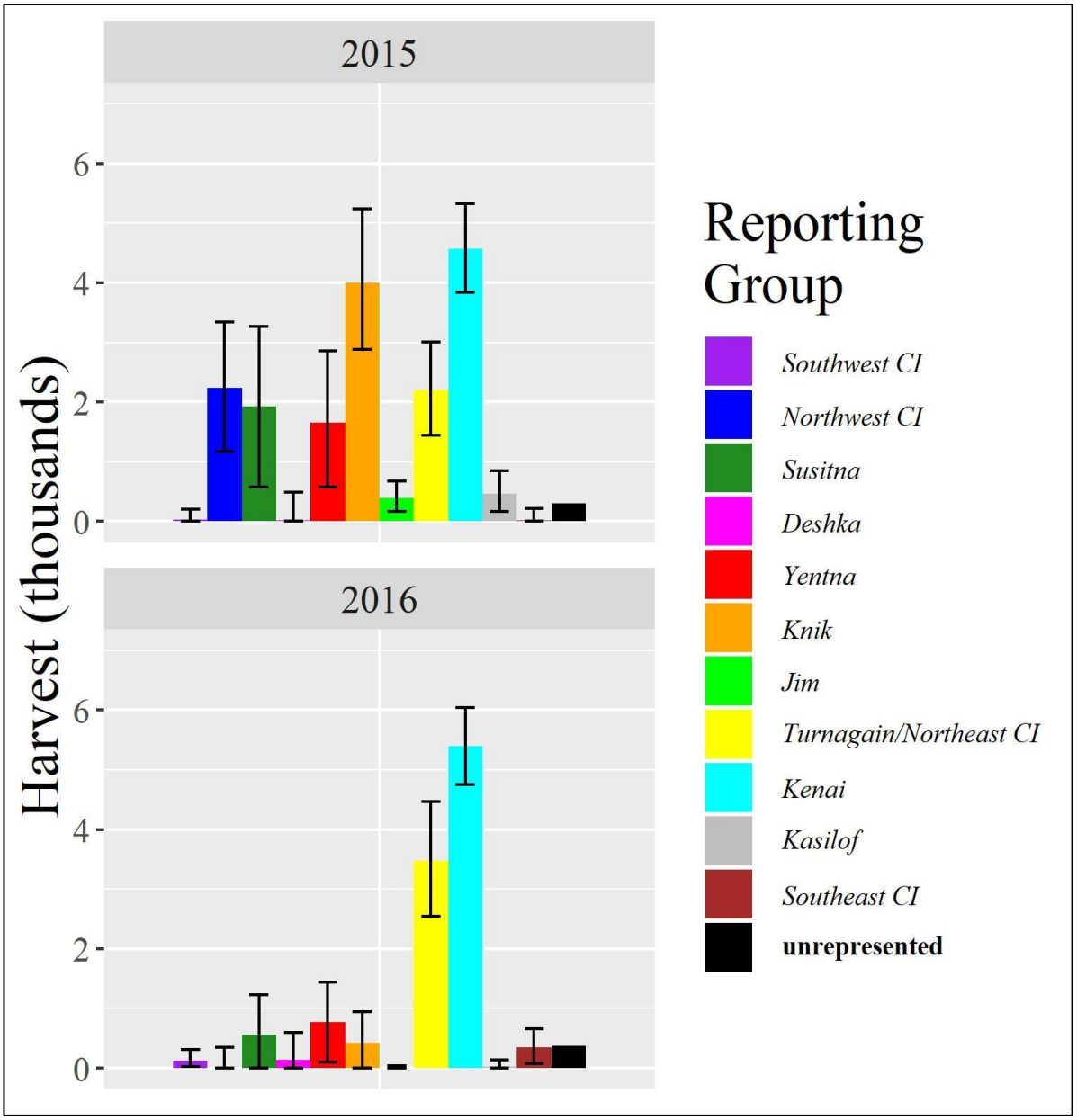


Figure 26.–Upper Subdistrict (Central District) set gillnet fishery 2015–2016; harvest estimates and 90% credibility intervals for coho salmon by stock.

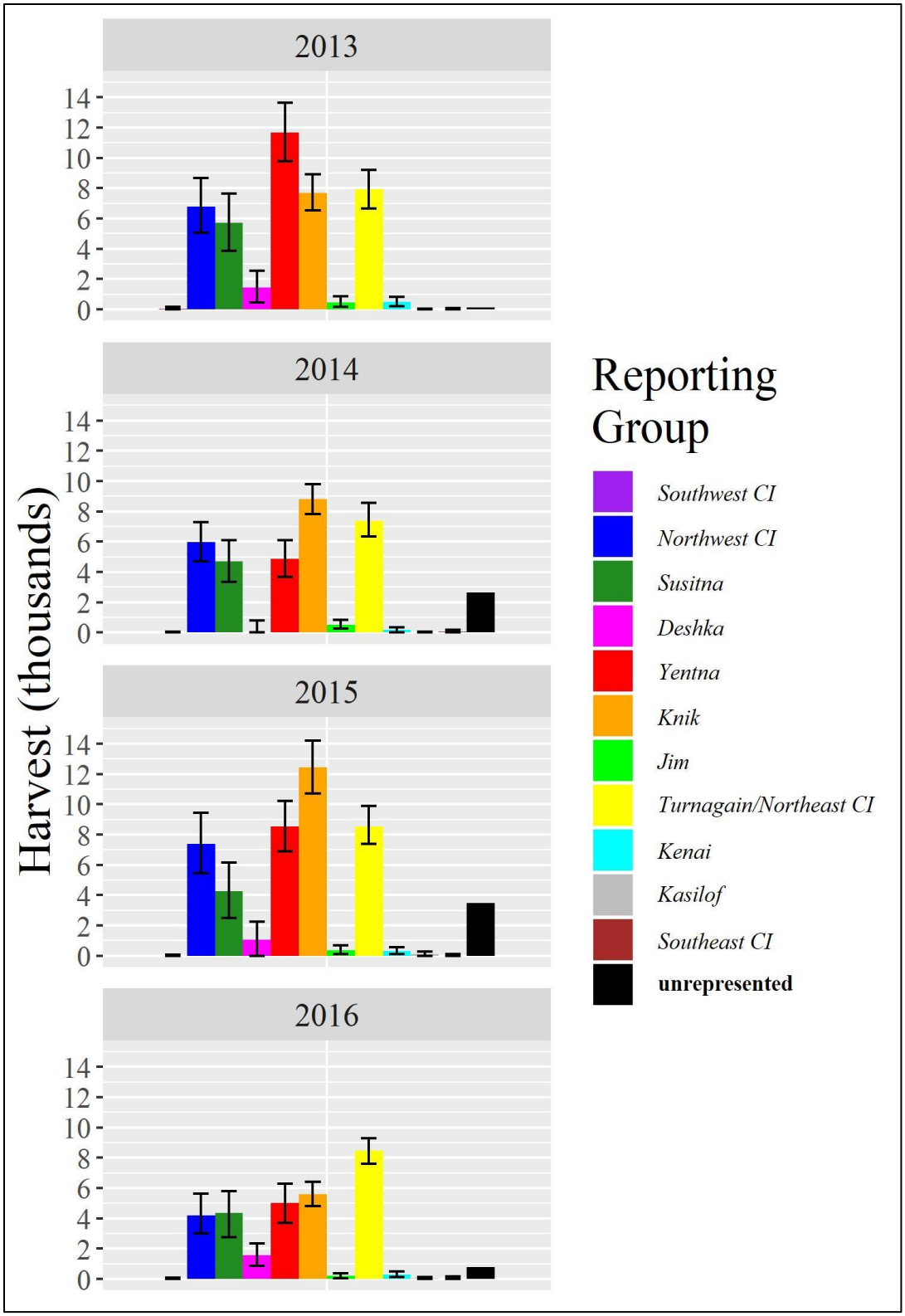


Figure 27.–Northern District set gillnet fishery by area, 2013–2016; harvest estimates and 90% credibility intervals for coho salmon by stock.

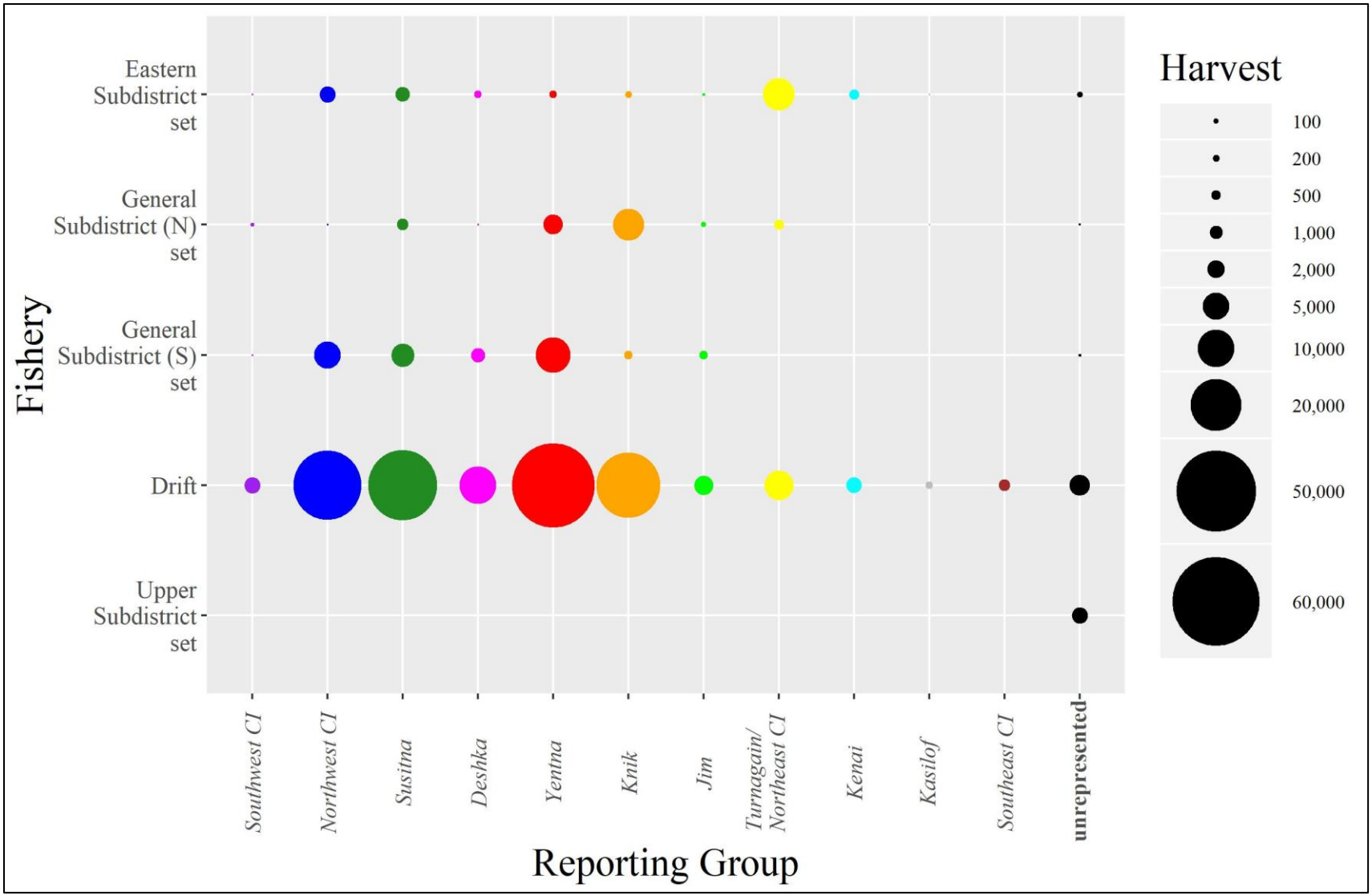


Figure 28.–Coho salmon harvest estimates and harvest not included in the analysis (unrepresented) by stock (reporting group) in the Upper Cook Inlet commercial fishery in 2013. Gray circles indicate the portion of the total harvest from each fishery not included in the analysis (unrepresented).

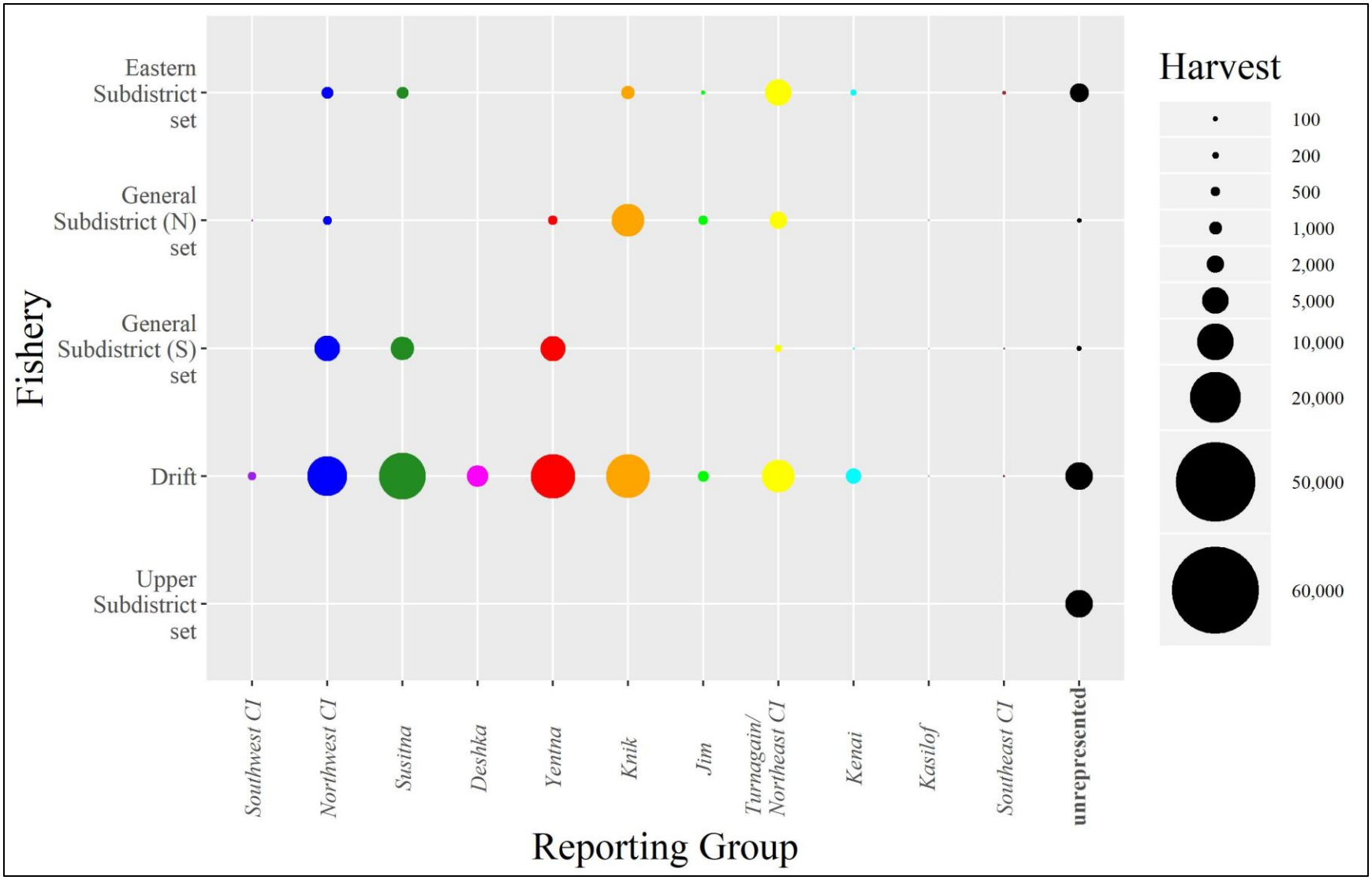


Figure 29.–Coho salmon harvest estimates and harvest not included in the analysis (unrepresented) by stock (reporting group) in the Upper Cook Inlet commercial fishery in 2014. Gray circles indicate the portion of the total harvest from each fishery not included in the analysis (unrepresented).

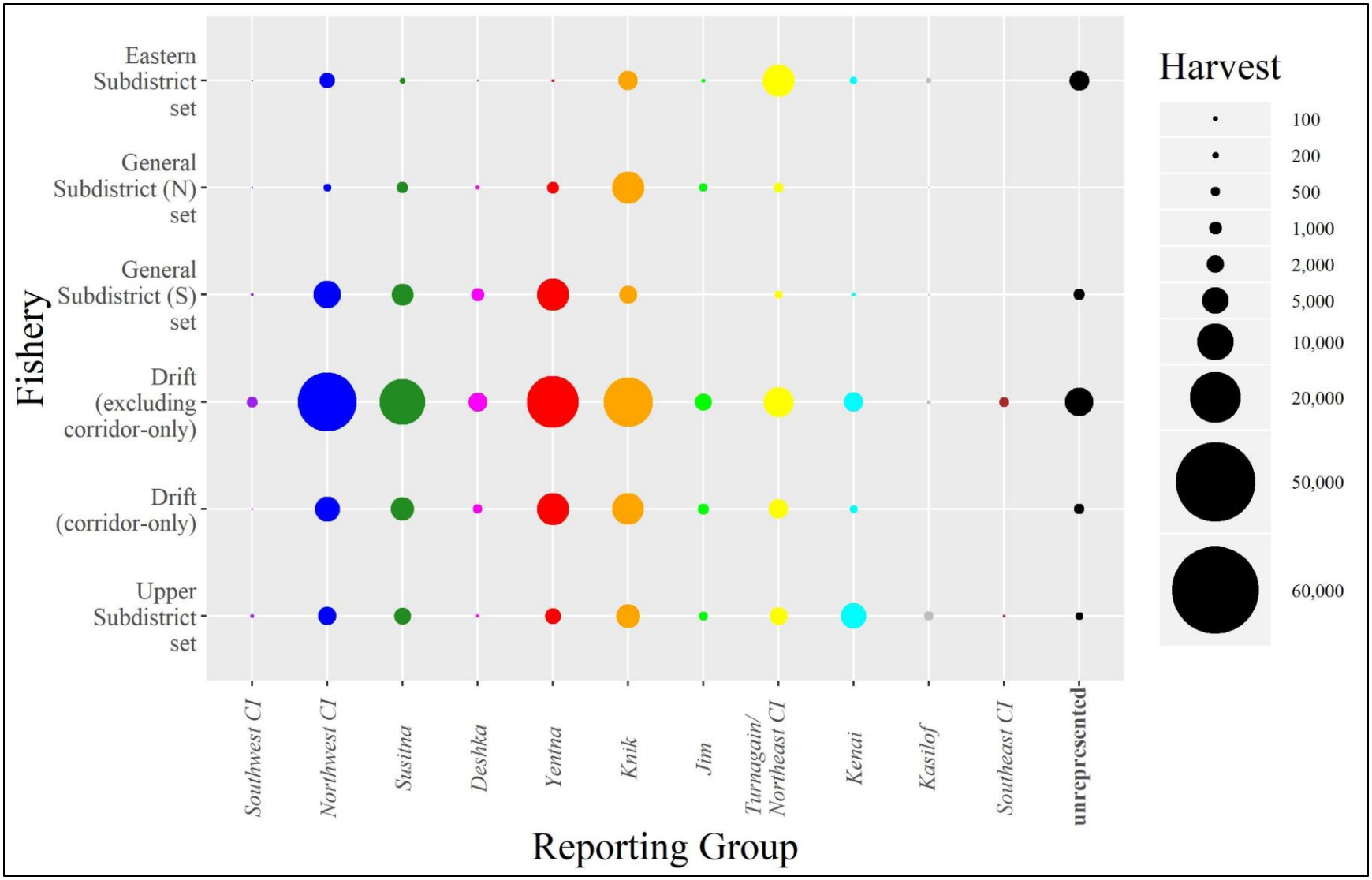


Figure 30.–Coho salmon harvest estimates and harvest not included in the analysis (unrepresented) by stock (reporting group) in the Upper Cook Inlet commercial fishery in 2015. Gray circles indicate the portion of the total harvest from each fishery not included in the analysis (unrepresented).

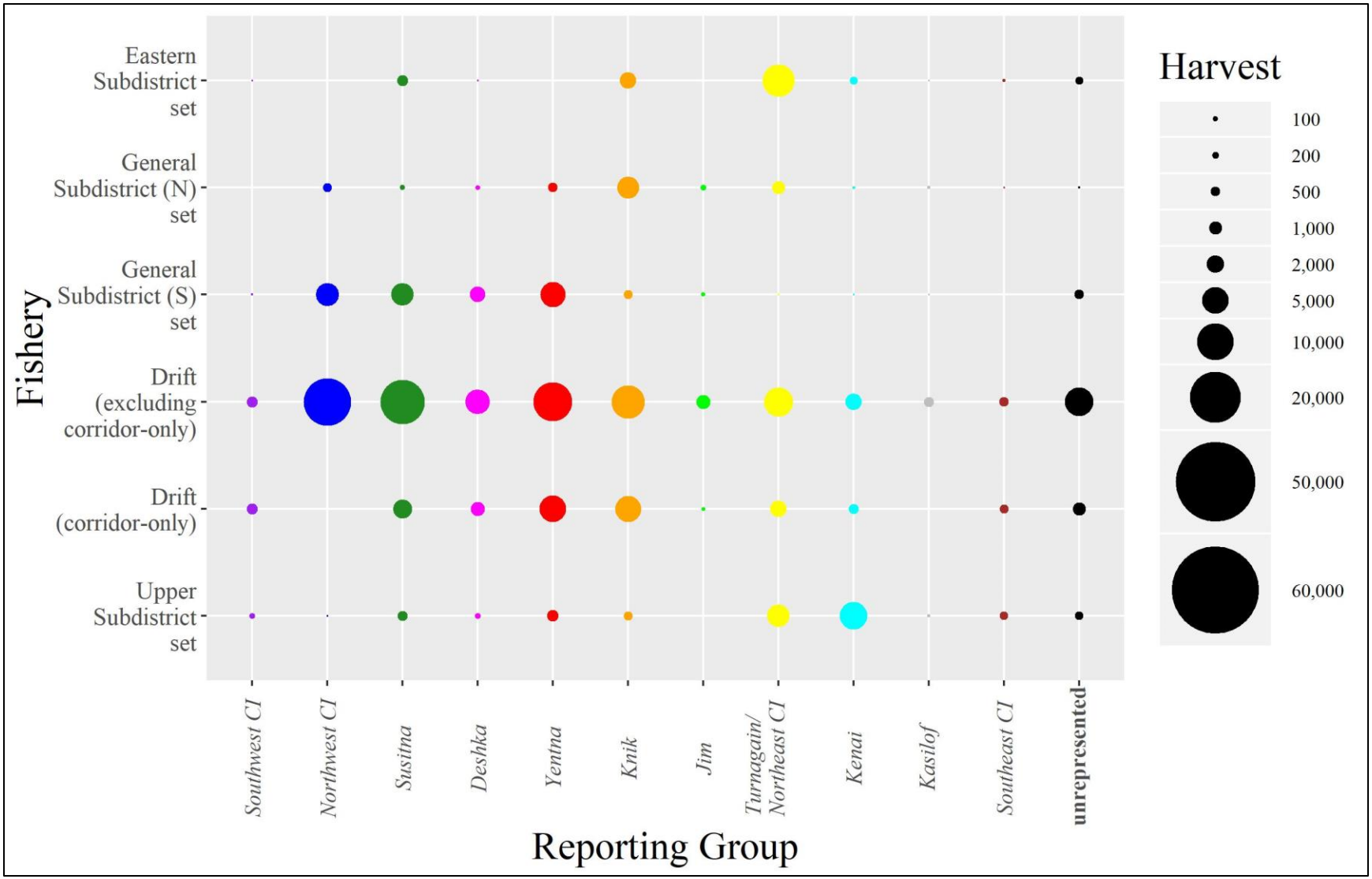


Figure 31.–Coho salmon harvest estimates and harvest not included in the analysis (unrepresented) by stock (reporting group) in the Upper Cook Inlet commercial fishery in 2016. Gray circles indicate the portion of the total harvest from each fishery not included in the analysis (unrepresented).

# APPENDIX A: SAMPLE COLLECTION INFORMATION 2013–2016

Appendix A1.–Number of samples collected and genotyped by date and station for Cook Inlet southern offshore test fishery, 2013–2016.

| | | Station number | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Year | Sample date | 4 | 5 | 6 | 6.5 | 7 | 8 | Total |
| 2013 | 7/1 | 2 | | | | | | 2 |
| | 7/2 | | 1 | | 4 | 1 | | 6 |
| | 7/3 | | | | 3 | 6 | | 9 |
| | 7/4 | | 2 | 1 | 6 | | | 9 |
| | 7/5 | | 2 | 1 | | 1 | | 4 |
| | 7/6 | | | 5 | | | | 5 |
| | 7/7 | | | | 9 | 2 | | 11 |
| | 7/8 | | | | 4 | 1 | | 5 |
| | 7/9 | | 9 | | 3 | | | 12 |
| | 7/10 | | 19 | | | | | 19 |
| | 7/11 | 2 | 3 | 8 | 5 | | | 18 |
| | 7/12 | | | | | | 1 | 1 |
| | 7/13 | | 3 | 4 | | | | 7 |
| | 7/15 | 1 | 1 | | 5 | 1 | 1 | 9 |
| | 7/16 | | 14 | 22 | 10 | 23 | 7 | 76 |
| | 7/20 | 5 | 13 | 22 | | | | 40 |
| | 7/21 | 2 | | 14 | | 5 | | 21 |
| | 7/22 | | 1 | 56 | 21 | 44 | | 122 |
| | 7/23 | | 2 | 3 | 1 | | 2 | 8 |
| | 7/24 | | 22 | 50 | 1 | | | 73 |
| | 7/25 | | 6 | 13 | 49 | 150 | | 218 |
| | 7/26 | 1 | | 1 | 1 | 8 | 1 | 12 |
| | 7/27 | | | 3 | 1 | 1 | 2 | 7 |
| | 7/28 | | | 5 | 1 | 1 | 2 | 9 |
| | 7/29 | | | 16 | 28 | | | 44 |
| | 7/30 | 2 | 1 | | | | | 3 |
| | Total | 15 | 99 | 224 | 152 | 244 | 16 | 750 |

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Appendix A1.–Page 2 of 4.

| Year | Sample date | Station number | | | | | | Total |
|---|---|---|---|---|---|---|---|---|
| | | 4 | 5 | 6 | 6.5 | 7 | 8 | |
| 2014 | 7/3 | | | | | 1 | | 1 |
| | 7/4 | | | 1 | 4 | 1 | | 6 |
| | 7/5 | 1 | | 4 | 7 | | 1 | 13 |
| | 7/6 | 1 | 2 | | 2 | 2 | 1 | 8 |
| | 7/7 | | 2 | 1 | 1 | | | 4 |
| | 7/8 | | | | 1 | 1 | | 2 |
| | 7/9 | | 3 | | 1 | 1 | | 5 |
| | 7/10 | | 1 | 1 | | | | 2 |
| | 7/11 | | | 1 | | | | 1 |
| | 7/12 | 2 | | | | | 1 | 3 |
| | 7/13 | | 7 | | 1 | | | 8 |
| | 7/15 | | | 8 | 1 | | 1 | 10 |
| | 7/16 | | 1 | 6 | 16 | 22 | 2 | 47 |
| | 7/17 | 2 | 15 | 7 | 1 | 1 | 3 | 29 |
| | 7/18 | | 8 | 8 | 13 | 4 | 4 | 37 |
| | 7/19 | | 2 | 11 | 2 | 2 | | 17 |
| | 7/20 | 1 | 14 | 4 | | 12 | 1 | 32 |
| | 7/21 | | 5 | | 1 | 24 | 1 | 31 |
| | 7/22 | | | 1 | 4 | 21 | 2 | 28 |
| | 7/23 | | 1 | 10 | 26 | 72 | | 109 |
| | 7/24 | | 4 | 13 | 25 | | 12 | 54 |
| | 7/25 | 3 | 1 | 1 | 22 | 2 | 1 | 30 |
| | 7/26 | | | | 1 | 7 | 5 | 13 |
| | 7/27 | | | 10 | 23 | 4 | | 37 |
| | 7/28 | | 38 | | | | | 38 |
| | 7/29 | | 1 | | 10 | 3 | 18 | 32 |
| | 7/30 | | | 41 | 33 | 18 | 7 | 99 |
| | 7/31 | | 3 | 12 | 4 | | | 19 |
| | 8/1 | | 11 | 5 | 22 | 2 | 1 | 41 |
| | Total | 10 | 119 | 145 | 221 | 200 | 61 | 756 |

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Appendix A1.–Page 3 of 4.

| Year | Sample date | Station number | | | | | | Total |
|---|---|---|---|---|---|---|---|---|
| | | 4 | 5 | 6 | 6.5 | 7 | 8 | |
| 2015 | 7/1 | 1 | | | | | | 1 |
| | 7/3 | | | | 1 | | | 1 |
| | 7/4 | | | 3 | 1 | | | 4 |
| | 7/5 | | 1 | 1 | 1 | | | 3 |
| | 7/6 | | | 6 | | | | 6 |
| | 7/7 | | 1 | | 1 | | | 2 |
| | 7/8 | | | 1 | | | 1 | 2 |
| | 7/9 | | 1 | | 1 | | | 2 |
| | 7/10 | | 1 | 17 | 4 | 3 | | 25 |
| | 7/11 | | | | 6 | 4 | | 10 |
| | 7/12 | | 2 | 9 | 1 | 13 | 5 | 30 |
| | 7/13 | | 2 | 2 | | 2 | 1 | 7 |
| | 7/14 | | 4 | | 12 | 3 | 2 | 21 |
| | 7/15 | | | 2 | 2 | 3 | | 7 |
| | 7/19 | | 2 | 2 | 2 | 6 | 1 | 13 |
| | 7/20 | | 3 | 1 | 10 | 6 | 3 | 23 |
| | 7/21 | | | 4 | 1 | | | 5 |
| | 7/22 | | 5 | 24 | 28 | 34 | 3 | 94 |
| | 7/23 | 1 | 2 | 3 | 6 | 2 | | 14 |
| | 7/24 | | | | 1 | 5 | 1 | 7 |
| | 7/25 | 1 | 1 | 1 | 2 | 10 | 22 | 37 |
| | 7/26 | 1 | 2 | 3 | 7 | 5 | 6 | 24 |
| | 7/27 | | | | 1 | 2 | 7 | 10 |
| | 7/28 | | | | | 1 | | 1 |
| | 7/29 | 1 | 6 | 6 | 2 | 9 | 8 | 32 |
| | 7/30 | | 5 | 12 | 3 | | 1 | 21 |
| | Total | 5 | 38 | 97 | 93 | 108 | 61 | 402 |

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Appendix A1.–Page 4 of 4.

| Year | Sample date | Station number | | | | | | Total |
|---|---|---|---|---|---|---|---|---|
| | | 4 | 5 | 6 | 6.5 | 7 | 8 | |
| 2016 | 7/1 | | 1 | 1 | | 1 | | 3 |
| | 7/3 | 1 | | 1 | 5 | 1 | | 8 |
| | 7/5 | | | 2 | | | | 2 |
| | 7/6 | | 2 | 1 | | | | 3 |
| | 7/7 | | | 2 | 2 | | 1 | 5 |
| | 7/8 | | 1 | | | | 1 | 2 |
| | 7/9 | | 1 | 4 | | 1 | | 6 |
| | 7/10 | | | 2 | 3 | 2 | | 7 |
| | 7/12 | | | 2 | 3 | | | 5 |
| | 7/13 | 1 | | 1 | 2 | 5 | | 9 |
| | 7/14 | | 3 | 2 | 6 | | | 11 |
| | 7/15 | 2 | 2 | 6 | 3 | 2 | 2 | 17 |
| | 7/16 | | | 9 | | | | 9 |
| | 7/17 | 1 | 5 | 2 | 14 | | | 22 |
| | 7/18 | | 1 | 14 | 9 | | | 24 |
| | 7/20 | | 2 | 12 | 29 | 21 | 1 | 65 |
| | 7/21 | | | 1 | | 4 | | 5 |
| | 7/22 | 1 | 7 | 12 | 7 | 7 | 7 | 41 |
| | 7/23 | | | 45 | 6 | 14 | 3 | 68 |
| | 7/24 | | | 13 | 17 | 5 | | 35 |
| | 7/25 | 2 | | | 4 | | | 6 |
| | 7/26 | | 2 | 1 | 23 | | 6 | 32 |
| | 7/28 | | | 1 | 6 | 12 | | 19 |
| | 7/29 | | | 11 | 18 | 6 | | 35 |
| | Total | 8 | 27 | 145 | 157 | 81 | 21 | 439 |

Appendix A2.–Number of samples collected and genotyped by date and station for Cook Inlet northern offshore test fishery in 2013 and 2014.

| | | Station number | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | Sample date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total |
| 2013 | 7/2 | | | | | | 2 | | 2 |
| | 7/3 | 1 | | | | | | | 1 |
| | 7/5 | | | | | 1 | | | 1 |
| | 7/8 | 1 | | 3 | 4 | 2 | 1 | | 11 |
| | 7/9 | | 1 | 1 | | 2 | | 2 | 6 |
| | 7/11 | | | | 3 | 1 | | | 4 |
| | 7/12 | | 1 | | | | | | 1 |
| | 7/13 | | | 2 | 31 | 38 | | 2 | 73 |
| | 7/14 | 1 | 1 | 1 | 7 | 16 | 5 | 2 | 33 |
| | 7/15 | 1 | | 12 | 13 | 55 | 1 | 2 | 84 |
| | 7/16 | | | 4 | 3 | | 1 | 3 | 11 |
| | 7/17 | | | 2 | 1 | 1 | | | 4 |
| | 7/18 | | | 5 | 10 | 4 | 1 | 3 | 23 |
| | 7/19 | | 1 | 2 | | | 2 | 3 | 8 |
| | 7/20 | 1 | | 5 | 5 | 1 | 4 | 1 | 17 |
| | 7/21 | | | 1 | | | 1 | 1 | 3 |
| | 7/22 | | | 5 | | | 1 | | 6 |
| | 7/23 | 3 | 1 | | 3 | 1 | 1 | | 9 |
| | 7/24 | | | 1 | 5 | 1 | 1 | 3 | 11 |
| | 7/25 | 1 | 2 | 1 | 19 | 2 | 1 | 1 | 27 |
| | 7/26 | | 1 | 4 | 4 | 13 | 16 | 54 | 92 |
| | 7/27 | | 4 | 4 | 6 | 3 | 3 | 5 | 25 |
| | 7/28 | | | 1 | 1 | 3 | 1 | 3 | 9 |
| | 7/29 | | 1 | | | 12 | 1 | 1 | 15 |
| | 7/30 | | | | 6 | 4 | | 9 | 19 |
| | Total | 9 | 13 | 54 | 121 | 160 | 43 | 95 | 495 |

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Appendix A2.–Page 2 of 2.

| Year | Sample date | Station number | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 | 3 | 4 | 5 | 8 | 9 | 10 | 11 | |
| 2014 | 7/2 | | | | 1 | | | | | 1 |
| | 7/5 | | 1 | | | | | | | 1 |
| | 7/6 | | 1 | | | | | | 1 | 2 |
| | 7/9 | | | | | | 2 | | | 2 |
| | 7/11 | | | 2 | | | | 1 | | 3 |
| | 7/14 | | | | | 1 | | | | 1 |
| | 7/16 | 3 | | 2 | 1 | | 1 | 1 | 1 | 9 |
| | 7/17 | | 3 | | 1 | | | 1 | | 5 |
| | 7/18 | | 2 | 1 | 26 | | 3 | | | 32 |
| | 7/20 | | 2 | 15 | 2 | 9 | 2 | 1 | | 31 |
| | 7/21 | | 3 | 16 | 16 | 1 | 17 | 3 | 2 | 58 |
| | 7/22 | | 4 | 3 | 6 | | | | | 13 |
| | 7/23 | | 7 | 11 | 9 | 14 | 6 | | | 47 |
| | 7/24 | | 4 | 8 | 30 | 21 | 5 | | | 68 |
| | 7/25 | | 3 | | 7 | 3 | | 2 | | 15 |
| | 7/26 | | 2 | 3 | 2 | 3 | | | 1 | 11 |
| | 7/27 | | | 1 | 2 | 1 | 1 | | | 5 |
| | 7/28 | 2 | 3 | 6 | 2 | 11 | | | | 24 |
| | 7/29 | | 1 | | 2 | | 4 | 1 | | 8 |
| | 7/30 | 5 | 1 | 37 | | 4 | 5 | | | 52 |
| | Total | 10 | 37 | 105 | 107 | 68 | 46 | 10 | 5 | 388 |

Appendix A3.–Harvest location, sampling dates, numbers of samples collected, and number of samples genotyped for mixtures of coho salmon harvested in the Upper Cook Inlet commercial fishery, 2013–2016.

| | Harvest location | | | Sample | Number of fish | | |
|---|---|---|---|---|---|---|---|
| Year | District | Subdistrict/Fishery | Statistical area(s) | date | Sampled | Genotyped | Mixture |
| 2013 | Central | Drift | 244-60 | 7/4/2013 | 54 | 54 | 6/27–7/15 |
| | Central | Drift | 244-60 | 7/8/2013 | 199 | 117 | 6/27–7/15 |
| | Central | Drift | 244-56 | 7/11/2013 | 44 | 38 | 6/27–7/15 |
| | Central | Drift | 244-60 | 7/15/2013 | 192 | 191 | 6/27–7/15 |
| | Central | Drift | 244-60 | 7/18/2013 | 240 | 160 | 7/17–7/23 |
| | Central | Drift | 244-60 | 7/22/2013 | 240 | 240 | 7/17–7/23 |
| | Central | Drift | 244-60 | 7/25/2013 | 336 | 295 | 7/24–7/30 |
| | Central | Drift | 244-60 | 7/29/2013 | 283 | 105 | 7/24–7/30 |
| | Central | Drift | 244-60 | 8/1/2013 | 519 | 325 | 8/1–8/5 |
| | Central | Drift | 244-60 | 8/5/2013 | 528 | 75 | 8/1–8/5 |
| | Central | Drift | 244-60 | 8/8/2013 | 408 | 137 | 8/8–8/26 |
| | Central | Drift | 244-60 | 8/12/2013 | 240 | 179 | 8/8–8/26 |
| | Central | Drift | 244-60 | 8/15/2013 | 48 | 48 | 8/8–8/26 |
| | Central | Drift | 244-60 | 8/22/2013 | 48 | 36 | 8/8–8/26 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/4/2013 | 42 | 3 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/8/2013 | 21 | 3 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/15/2013 | 48 | 8 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/18/2013 | 48 | 12 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/22/2013 | 48 | 7 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/25/2013 | 48 | 5 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/29/2013 | 96 | 22 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/1/2013 | 91 | 28 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/5/2013 | 139 | 42 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/8/2013 | 139 | 18 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/12/2013 | 144 | 53 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/15/2013 | 144 | 66 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/19/2013 | 96 | 54 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/22/2013 | 48 | 36 | 6/27–9/2 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/26/2013 | 89 | 22 | 6/27–9/2 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/15/2013 | 92 | 32 | 7/8–8/26 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/18/2013 | 139 | 16 | 7/8–8/26 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/22/2013 | 288 | 16 | 7/8–8/26 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/25/2013 | 144 | 18 | 7/8–8/26 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/29/2013 | 177 | 66 | 7/8–8/26 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/1/2013 | 288 | 78 | 7/8–8/26 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/5/2013 | 129 | 27 | 7/8–8/26 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/8/2013 | 260 | 44 | 7/8–8/26 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/12/2013 | 192 | 48 | 7/8–8/26 |

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| Year | Harvest location | | | Sample date | Number of fish | | Mixture |
|---|---|---|---|---|---|---|---|
| | District | Subdistrict/Fishery | Statistical area(s) | | Sampled | Genotyped | |
| 2013 | Northern | General Subdistrict | 247-41, 42, & 43 | 8/15/2013 | 144 | 29 | 7/8–8/26 |
| (cont.) | Northern | General Subdistrict | 247-42 & 43 | 8/19/2013 | 19 | 1 | 7/8–8/26 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/8/2013 | 28 | 11 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/15/2013 | 61 | 59 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-20 & 30 | 7/18/2013 | 137 | 26 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/22/2013 | 155 | 56 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/25/2013 | 264 | 24 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/29/2013 | 240 | 43 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/1/2013 | 217 | 62 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/5/2013 | 336 | 61 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/8/2013 | 130 | 16 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/12/2013 | 262 | 27 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/15/2013 | 126 | 12 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-20 | 8/19/2013 | 78 | 2 | 7/1–8/29 |
| | Southern | General Subdistrict | 247-20 | 8/29/2013 | 87 | 2 | 7/1–8/29 |
| 2014 | Central | Drift | 244-60 | 7/3/2014 | 93 | 62 | 6/26–7/15 |
| | Central | Drift | 244-60 | 7/7/2014 | 60 | 60 | 6/26–7/15 |
| | Central | Drift | 244-60 | 7/10/2014 | 38 | 38 | 6/26–7/15 |
| | Central | Drift | 244-60 | 7/14/2014 | 240 | 240 | 6/26–7/15 |
| | Central | Drift | 244-60 | 7/17/2014 | 234 | 193 | 7/17–7/23 |
| | Central | Drift | 244-60 | 7/21/2014 | 288 | 207 | 7/17–7/23 |
| | Central | Drift | 244-57 | 7/24/2014 | 197 | 197 | 7/24–7/28 |
| | Central | Drift | 244-57 | 7/28/2014 | 365 | 203 | 7/24–7/28 |
| | Central | Drift | 244-57 | 7/31/2014 | 309 | 86 | 7/31–8/7 |
| | Central | Drift | 244-60 | 8/4/2014 | 192 | 192 | 7/31–8/7 |
| | Central | Drift | 244-60 | 8/7/2014 | 169 | 122 | 7/31–8/7 |
| | Central | Drift | 244-60 | 8/11/2014 | 192 | 180 | 8/11–8/25 |
| | Central | Drift | 244-60 | 8/14/2014 | 117 | 117 | 8/11–8/25 |
| | Central | Drift | 244-60 | 8/18/2014 | 78 | 78 | 8/11–8/25 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/14/2014 | 28 | 3 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/17/2014 | 27 | 5 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/21/2014 | 48 | 17 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/24/2014 | 29 | 29 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/28/2014 | 96 | 22 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/31/2014 | 96 | 31 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/4/2014 | 96 | 42 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/7/2014 | 96 | 57 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/11/2014 | 96 | 28 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/18/2014 | 96 | 90 | 7/7–8/28 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/21/2014 | 96 | 76 | 7/7–8/28 |

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| Year | Harvest location | | | Sample date | Number of fish | | Mixture |
|---|---|---|---|---|---|---|---|
| | District | Subdistrict/Fishery | Statistical area(s) | | Sampled | Genotyped | |
| 2014 | Northern | General Subdistrict | 247-41, 42, & 43 | 7/14/2014 | 44 | 6 | 7/7–8/25 |
| (cont.) | Northern | General Subdistrict | 247-41, 42, & 43 | 7/17/2014 | 38 | 15 | 7/7–8/25 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/21/2014 | 48 | 48 | 7/7–8/25 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/24/2014 | 48 | 29 | 7/7–8/25 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/28/2014 | 96 | 35 | 7/7–8/25 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/31/2014 | 96 | 90 | 7/7–8/25 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/4/2014 | 48 | 48 | 7/7–8/25 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/7/2014 | 96 | 74 | 7/7–8/25 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/11/2014 | 93 | 24 | 7/7–8/25 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/14/2014 | 37 | 15 | 7/7–8/25 |
| | Northern | General Subdistrict | 247-42 & 43 | 8/18/2014 | 47 | 16 | 7/7–8/25 |
| | Southern | General Subdistrict | 247-20 & 30 | 7/7/2014 | 71 | 7 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/10/2014 | 48 | 6 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/14/2014 | 16 | 10 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/17/2014 | 55 | 39 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/21/2014 | 192 | 62 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/28/2014 | 118 | 31 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/31/2014 | 144 | 101 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/4/2014 | 96 | 36 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/7/2014 | 96 | 36 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/11/2014 | 96 | 18 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/18/2014 | 144 | 14 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/21/2014 | 96 | 36 | 6/30–9/1 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/25/2014 | 96 | 4 | 6/30–9/1 |
| 2015 | Central | Drift | 244-60 | 7/6/2015 | 76 | 69 | 6/29–7/13 |
| | Central | Drift | 244-60 | 7/9/2015 | 192 | 191 | 6/29–7/13 |
| | Central | Drift | 244-60 | 7/13/2015 | 240 | 240 | 6/29–7/13 |
| | Central | Drift | 244-60 | 7/20/2015 | 288 | 212 | 7/20–8/1 |
| | Central | Drift | 244-60 | 7/27/2015 | 288 | 288 | 7/20–8/1 |
| | Central | Drift | 244-60 | 8/3/2015 | 192 | 192 | 8/3–8/24 |
| | Central | Drift | 244-60 | 8/6/2015 | 192 | 108 | 8/3–8/24 |
| | Central | Drift | 244-60 | 8/10/2015 | 288 | 111 | 8/3–8/24 |
| | Central | Drift | 244-60 | 8/13/2015 | 144 | 44 | 8/3–8/24 |
| | Central | Drift | 244-60 | 8/17/2015 | 144 | 38 | 8/3–8/24 |
| | Central | Drift | 244-60 | 8/20/2015 | 96 | 54 | 8/3–8/24 |
| | Central | Drift | 244-57 | 7/16/2015 | 240 | 142 | 7/11–8/5 |
| | Central | Drift | 244-57 | 7/23/2015 | 288 | 288 | 7/11–8/5 |
| | Central | Drift | 244-57 | 7/30/2015 | 240 | 238 | 7/11–8/5 |
| | Central | Upper Subdistrict | 244-21 & 22 | 7/20/2015 | 11 | 11 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-21 & 22 | 7/23/2015 | 20 | 20 | 7/14–8/12 |

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| Year | Harvest location | | | Sample date | Number of fish | | Mixture |
|---|---|---|---|---|---|---|---|
| | District | Subdistrict/Fishery | Statistical area(s) | | Sampled | Genotyped | |
| 2015 | Central | Upper Subdistrict | 244-21 & 22 | 7/27/2015 | 24 | 24 | 7/14–8/12 |
| (cont.) | Central | Upper Subdistrict | 244-21 & 22 | 7/30/2015 | 6 | 6 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-21 & 22 | 8/3/2015 | 19 | 19 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-21 & 22 | 8/6/2015 | 20 | 20 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-21 & 22 | 8/10/2015 | 24 | 24 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-31 | 7/20/2015 | 1 | 1 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-31 | 7/23/2015 | 1 | 1 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-31 | 7/27/2015 | 2 | 2 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-31 | 8/3/2015 | 11 | 11 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-31 | 8/6/2015 | 2 | 2 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-31 | 8/10/2015 | 11 | 6 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-32 | 7/20/2015 | 4 | 4 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-32 | 7/27/2015 | 2 | 2 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-32 | 7/30/2015 | 2 | 2 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-32 | 8/3/2015 | 8 | 8 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-32 | 8/6/2015 | 10 | 10 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-32 | 8/10/2015 | 10 | 10 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-41 & 42 | 7/20/2015 | 20 | 20 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-41 & 42 | 7/23/2015 | 20 | 20 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-41 & 42 | 7/27/2015 | 20 | 20 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-41 & 42 | 7/30/2015 | 20 | 20 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-41 & 42 | 8/3/2015 | 141 | 50 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-41 & 42 | 8/6/2015 | 144 | 52 | 7/14–8/12 |
| | Central | Upper Subdistrict | 244-41 & 42 | 8/10/2015 | 144 | 35 | 7/14–8/12 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/13/2015 | 48 | 13 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/16/2015 | 32 | 6 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/20/2015 | 48 | 30 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/23/2015 | 96 | 38 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/27/2015 | 96 | 32 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/30/2015 | 96 | 15 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/3/2015 | 96 | 10 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/6/2015 | 96 | 19 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/10/2015 | 96 | 31 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/13/2015 | 96 | 31 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/17/2015 | 96 | 31 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/20/2015 | 96 | 82 | 7/6–8/27 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/24/2015 | 96 | 62 | 7/6–8/27 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/9/2015 | 96 | 14 | 7/6–8/24 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/16/2015 | 48 | 11 | 7/6–8/24 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/20/2015 | 48 | 48 | 7/6–8/24 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/23/2015 | 48 | 37 | 7/6–8/24 |

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| Year | Harvest location | | | Sample date | Number of fish | | Mixture |
|---|---|---|---|---|---|---|---|
| | District | Subdistrict/Fishery | Statistical area(s) | | Sampled | Genotyped | |
| 2015 | Northern | General Subdistrict | 247-41, 42, & 43 | 7/27/2015 | 96 | 96 | 7/6–8/24 |
| (cont.) | Northern | General Subdistrict | 247-41, 42, & 43 | 8/3/2015 | 96 | 31 | 7/6–8/24 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/6/2015 | 96 | 35 | 7/6–8/24 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/10/2015 | 96 | 33 | 7/6–8/24 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/13/2015 | 48 | 36 | 7/6–8/24 |
| | Northern | General Subdistrict | 247-42 & 43 | 8/17/2015 | 48 | 9 | 7/6–8/24 |
| | Southern | General Subdistrict | 247-10 & 20 | 7/6/2015 | 8 | 1 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/9/2015 | 48 | 22 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/13/2015 | 96 | 25 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/16/2015 | 96 | 9 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/20/2015 | 96 | 29 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/23/2015 | 50 | 50 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/27/2015 | 223 | 60 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/3/2015 | 144 | 63 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/6/2015 | 58 | 52 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/10/2015 | 192 | 31 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/13/2015 | 96 | 15 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/17/2015 | 96 | 17 | 7/2–8/27 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/20/2015 | 96 | 26 | 7/2–8/27 |
| 2016 | Central | Drift | 244-60 | 7/7/2016 | 96 | 35 | 6/30–7/18 |
| | Central | Drift | 244-60 | 7/11/2016 | 144 | 65 | 6/30–7/18 |
| | Central | Drift | 244-60 | 7/14/2016 | 240 | 137 | 6/30–7/18 |
| | Central | Drift | 244-60 | 7/18/2016 | 240 | 143 | 6/30–7/18 |
| | Central | Drift | 244-60 | 7/25/2016 | 288 | 140 | 7/25–8/25 |
| | Central | Drift | 244-60 | 8/1/2016 | 327 | 56 | 7/25–8/25 |
| | Central | Drift | 244-60 | 8/4/2016 | 249 | 55 | 7/25–8/25 |
| | Central | Drift | 244-60 | 8/8/2016 | 240 | 83 | 7/25–8/25 |
| | Central | Drift | 244-60 | 8/11/2016 | 30 | 18 | 7/25–8/25 |
| | Central | Drift | 244-60 | 8/15/2016 | 219 | 18 | 7/25–8/25 |
| | Central | Drift | 244-60 | 8/18/2016 | 96 | 10 | 7/25–8/25 |
| | Central | Drift | 244-52 & 62 | 7/9/2016 | 48 | 27 | 7/9–8/3 |
| | Central | Drift | 244-52 & 62 | 7/13/2016 | 96 | 96 | 7/9–8/3 |
| | Central | Drift | 244-52, 62, & 63 | 7/21/2016 | 288 | 213 | 7/9–8/3 |
| | Central | Drift | 244-52, 62, & 63 | 7/28/2016 | 192 | 164 | 7/9–8/3 |
| | Central | Upper Subdistrict | 244-21 & 22 | 7/21/2016 | 24 | 23 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-21 & 22 | 7/28/2016 | 26 | 26 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-21 & 22 | 8/1/2016 | 20 | 20 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-21 & 22 | 8/5/2016 | 48 | 48 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-31 | 7/21/2016 | 11 | 11 | 7/14–8/9 |

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| Year | Harvest location | | | Sample date | Number of fish | | Mixture |
|---|---|---|---|---|---|---|---|
| | District | Subdistrict/Fishery | Statistical area(s) | | Sampled | Genotyped | |
| 2016 (cont.) | Central | Upper Subdistrict | 244-31 | 7/28/2016 | 1 | 1 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-31 | 8/1/2016 | 3 | 3 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-31 | 8/5/2016 | 8 | 8 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-31 | 8/9/2016 | 41 | 41 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-32 | 7/21/2016 | 10 | 10 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-32 | 7/25/2016 | 2 | 2 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-32 | 7/28/2016 | 3 | 3 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-32 | 8/1/2016 | 7 | 7 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-32 | 8/5/2016 | 18 | 18 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-32 | 8/9/2016 | 24 | 24 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-41 & 42 | 7/21/2016 | 10 | 10 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-41 & 42 | 7/28/2016 | 20 | 20 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-41 & 42 | 8/1/2016 | 10 | 10 | 7/14–8/9 |
| | Central | Upper Subdistrict | 244-41 & 42 | 8/9/2016 | 20 | 20 | 7/14–8/9 |
| | Northern | Eastern Subdistrict | 247-70 & 80 | 7/18/2016 | 41 | 17 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/25/2016 | 96 | 18 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 7/28/2016 | 96 | 11 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/1/2016 | 96 | 44 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/4/2016 | 192 | 30 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/8/2016 | 96 | 32 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/11/2016 | 96 | 57 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/15/2016 | 96 | 43 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/18/2016 | 96 | 54 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/22/2016 | 96 | 54 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/25/2016 | 48 | 32 | 7/11–9/5 |
| | Northern | Eastern Subdistrict | 247-70, 80, & 90 | 8/29/2016 | 48 | 36 | 7/11–9/5 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/11/2016 | 19 | 10 | 7/4–8/15 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/14/2016 | 26 | 26 | 7/4–8/15 |
| | Northern | General Subdistrict | 247-41 & 42 | 7/21/2016 | 10 | 10 | 7/4–8/15 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/25/2016 | 39 | 38 | 7/4–8/15 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 7/28/2016 | 48 | 48 | 7/4–8/15 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/1/2016 | 120 | 120 | 7/4–8/15 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/4/2016 | 96 | 43 | 7/4–8/15 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/11/2016 | 96 | 59 | 7/4–8/15 |
| | Northern | General Subdistrict | 247-41, 42, & 43 | 8/15/2016 | 48 | 27 | 7/4–8/15 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/11/2016 | 29 | 29 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/14/2016 | 26 | 26 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/18/2016 | 43 | 43 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/21/2016 | 28 | 28 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 7/25/2016 | 211 | 137 | 7/4–8/25 |

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| Year | Harvest location | | | Sample date | Number of fish | | Mixture |
|---|---|---|---|---|---|---|---|
| | District | Subdistrict/Fishery | Statistical area(s) | | Sampled | Genotyped | |
| 2016 (cont.) | Southern | General Subdistrict | 247-10, 20, & 30 | 7/28/2016 | 311 | 89 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/1/2016 | 96 | 61 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/4/2016 | 96 | 60 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/8/2016 | 48 | 25 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/11/2016 | 48 | 28 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/15/2016 | 48 | 5 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10 & 20 | 8/18/2016 | 48 | 19 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/22/2016 | 48 | 0 | 7/4–8/25 |
| | Southern | General Subdistrict | 247-10, 20, & 30 | 8/25/2016 | 24 | 0 | 7/4–8/25 |

Appendix A4.–Date when samples were collected, numbers of samples collected, number of samples genotyped for temporal mixtures of coho salmon harvested in the Northern District (Statistical areas include 247-10, 20, 30, 41, 42, 43, 70, 80, and 90) of Upper Cook Inlet, 2013–2016.

| | | Number of fish | | |
|---|---|---|---|---|
| Year | Sample date | Sampled | Genotyped | Mixture |
| 2013 | 7/15/2013 | 201 | 116 | 7/15–7/22 |
| | 7/18/2013 | 323 | 142 | 7/15–7/22 |
| | 7/22/2013 | 491 | 141 | 7/15–7/22 |
| | 7/25/2013 | 455 | 56 | 7/25–8/1 |
| | 7/29/2013 | 513 | 150 | 7/25–8/1 |
| | 8/1/2013 | 596 | 195 | 7/25–8/1 |
| | 8/5/2013 | 602 | 165 | 8/5–8/12 |
| | 8/8/2013 | 529 | 89 | 8/5–8/12 |
| | 8/12/2013 | 591 | 146 | 8/5–8/12 |
| | 8/15/2013 | 407 | 201 | 8/15–8/26 |
| | 8/19/2013 | 192 | 110 | 8/15–8/26 |
| | 8/22/2013 | 48 | 48 | 8/15–8/26 |
| | 8/26/2013 | 88 | 17 | 8/15–8/26 |
| 2014 | 7/14/2014 | 88 | 61 | 7/14–7/21 |
| | 7/17/2014 | 120 | 100 | 7/14–7/21 |
| | 7/21/2014 | 288 | 179 | 7/14–7/21 |
| | 7/24/2014 | 77 | 57 | 7/24–7/31 |
| | 7/28/2014 | 310 | 131 | 7/24–7/31 |
| | 7/31/2014 | 336 | 212 | 7/24–7/31 |
| | 8/4/2014 | 240 | 126 | 8/4–8/11 |
| | 8/7/2014 | 288 | 184 | 8/4–8/11 |
| | 8/11/2014 | 285 | 89 | 8/4–8/11 |
| | 8/14/2014 | 37 | 30 | 8/14–8/25 |
| | 8/18/2014 | 287 | 162 | 8/14–8/25 |
| | 8/21/2014 | 192 | 143 | 8/14–8/25 |
| | 8/25/2014 | 96 | 6 | 8/14–8/25 |
| 2015 | 7/9/2015 | 144 | 46 | 7/9–7/20 |
| | 7/13/2015 | 144 | 85 | 7/9–7/20 |
| | 7/16/2015 | 192 | 48 | 7/9–7/20 |
| | 7/20/2015 | 192 | 171 | 7/9–7/20 |
| | 7/23/2015 | 240 | 119 | 7/23–7/30 |
| | 7/27/2015 | 432 | 270 | 7/23–7/30 |
| | 7/30/2015 | 96 | 12 | 7/23–7/30 |
| | 8/3/2015 | 336 | 181 | 8/3–8/10 |
| | 8/6/2015 | 288 | 127 | 8/3–8/10 |
| | 8/10/2015 | 384 | 192 | 8/3–8/10 |
| | 8/13/2015 | 240 | 155 | 8/13–8/20 |
| | 8/17/2015 | 240 | 179 | 8/13–8/20 |
| | 8/20/2015 | 192 | 167 | 8/13–8/20 |

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| Year | Sample date | Number of fish | | Mixture |
|---|---|---|---|---|
| | | Sampled | Genotyped | |
| 2016 | 7/11/2016 | 48 | 38 | 7/11–7/25 |
| | 7/14/2016 | 52 | 52 | 7/11–7/25 |
| | 7/18/2016 | 84 | 60 | 7/11–7/25 |
| | 7/21/2016 | 38 | 38 | 7/11–7/25 |
| | 7/25/2016 | 346 | 192 | 7/11–7/25 |
| | 7/28/2016 | 455 | 126 | 7/28–8/4 |
| | 8/1/2016 | 312 | 147 | 7/28–8/4 |
| | 8/4/2016 | 384 | 107 | 7/28–8/4 |
| | 8/8/2016 | 144 | 57 | 8/8–8/22 |
| | 8/11/2016 | 240 | 133 | 8/8–8/22 |
| | 8/15/2016 | 192 | 62 | 8/8–8/22 |
| | 8/18/2016 | 144 | 73 | 8/8–8/22 |
| | 8/22/2016 | 144 | 54 | 8/8–8/22 |
| | 8/25/2016 | 72 | 0 | -- |
| | 8/29/2016 | 48 | 0 | -- |

# APPENDIX B: COOK INLET OFFSHORE TEST FISHERY CATCH PER UNIT EFFORT BY STATION AND DATE, 2013–2016

Appendix B1.–Estimated coho salmon catch per unit effort (CPUE) by date and station for Cook Inlet northern offshore test fishery in 2013.

| | Station number | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total |
| 1 July | 0.0 | 0.0 | 0.0 | – | – | – | – | 0.0 |
| 2 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 1.6 |
| 3 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.8 |
| 6 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8 July | 0.8 | 0.0 | 2.1 | 3.2 | 1.6 | 0.8 | 0.0 | 8.5 |
| 9 July | 0.0 | 0.8 | 0.7 | 0.0 | 1.6 | 0.0 | 1.6 | 4.7 |
| 10 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 July | 0.0 | 0.0 | 0.0 | 1.8 | 0.9 | 0.0 | 0.0 | 2.7 |
| 12 July | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 13 July | 0.0 | 0.0 | 1.6 | 16.6 | 22.8 | 0.0 | 1.6 | 42.6 |
| 14 July | 0.7 | 0.6 | 1.2 | 4.9 | 9.6 | 4.0 | 1.8 | 22.8 |
| 15 July | 1.3 | 0.0 | 8.4 | 9.1 | 27.5 | 0.8 | 1.6 | 48.7 |
| 16 July | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 0.8 | 2.4 | 7.4 |
| 17 July | 0.0 | 0.0 | 1.4 | 0.8 | 0.8 | 0.0 | 0.0 | 3.0 |
| 18 July | 0.0 | 0.0 | 4.0 | 6.0 | 0.0 | 0.8 | 2.4 | 13.2 |
| 19 July | 0.0 | 0.7 | 1.4 | 0.0 | 0.0 | 1.6 | 2.4 | 6.1 |
| 20 July | 0.8 | 0.0 | 3.0 | 4.0 | 0.8 | 3.2 | 0.0 | 11.8 |
| 21 July | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.8 | 0.8 | 2.4 |
| 22 July | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.8 | 0.0 | 4.8 |
| 23 July | 2.7 | 0.8 | 0.0 | 2.4 | 0.8 | 0.8 | 0.0 | 7.5 |
| 24 July | 0.0 | 0.0 | 0.8 | 4.0 | 0.9 | 0.9 | 2.4 | 9.0 |
| 25 July | 0.8 | 1.6 | 0.8 | 13.3 | 1.6 | 0.8 | 0.8 | 19.7 |
| 26 July | 0.0 | 0.8 | 3.2 | 3.2 | 10.4 | 12.8 | 37.8 | 68.2 |
| 27 July | 0.0 | 3.2 | 3.6 | 4.8 | 2.4 | 2.7 | 4.0 | 20.7 |
| 28 July | 0.0 | 0.0 | 0.9 | 0.9 | 2.7 | 0.8 | 2.7 | 8.0 |
| 29 July | 0.0 | 0.9 | 0.0 | 0.0 | 6.4 | 0.8 | 0.8 | 8.9 |
| 30 July | 0.0 | 0.0 | 0.0 | 4.8 | 3.2 | 0.0 | 7.2 | 15.2 |
| Total | 7.1 | 10.2 | 40.0 | 81.9 | 94.8 | 34.8 | 70.3 | 339.1 |
| Percent | 2.1% | 3.0% | 11.8% | 24.2% | 28.0% | 10.3% | 20.7% | 100.0% |

*Source*: CPUE numbers are from Dupuis et al. (2015).

*Note*: CPUE is defined as the number of fish captured at each station on each day and standardized to the number of fish caught in 100 fathoms of gear in one hour of fishing time.

*Note*: Dashes indicate days/stations that were not fished.

Appendix B2.–Estimated coho salmon catch per unit effort (CPUE) by date and station for Cook Inlet northern offshore test fishery in 2014.

| | Station number | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | 2 | 3 | 4 | 5 | 8 | 9 | 10 | 11 | Total |
| 1 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 July | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 4 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 July | – | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 6 July | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.5 |
| 7 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9 July | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 1.7 |
| 10 July | – | – | – | – | – | – | – | – | 0.0 |
| 11 July | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 2.5 |
| 12 July | 0.0 | – | – | – | – | – | – | – | 0.0 |
| 13 July | – | – | – | – | – | – | – | 0.0 | 0.0 |
| 14 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | – | – | 0.8 |
| 15 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 July | 2.5 | 0.0 | 1.7 | 0.9 | 0.0 | 0.9 | 0.9 | 0.8 | 7.7 |
| 17 July | 0.0 | 2.3 | 0.0 | 0.8 | 0.0 | 0.0 | 0.8 | 0.0 | 3.9 |
| 18 July | 0.0 | 1.4 | 0.8 | 18.8 | – | 2.3 | 1.4 | 0.0 | 24.7 |
| 19 July | – | – | – | – | – | – | – | – | 0.0 |
| 20 July | 0.0 | 1.5 | 8.9 | 0.0 | 6.4 | 1.6 | 0.7 | 0.0 | 19.1 |
| 21 July | 0.0 | 2.2 | 8.4 | 10.3 | 0.8 | 11.9 | 2.3 | 1.5 | 37.4 |
| 22 July | 0.0 | 2.4 | 2.3 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 |
| 23 July | – | 6.6 | 8.2 | 7.1 | 11.2 | 4.5 | 0.0 | 0.0 | 37.6 |
| 24 July | – | 4.0 | 5.7 | 32.0 | 13.8 | 4.6 | 0.0 | 0.0 | 60.1 |
| 25 July | 0.0 | 2.4 | 0.0 | 5.1 | 2.4 | 0.0 | 1.6 | 0.0 | 11.5 |
| 26 July | 7.9 | 1.4 | 2.3 | 1.5 | 2.1 | 0.0 | 0.0 | 0.0 | 15.2 |
| 27 July | 0.6 | 0.0 | 0.7 | 1.6 | 0.8 | 0.8 | 0.0 | 0.0 | 4.5 |
| 28 July | 2.3 | 2.3 | 0.0 | 1.6 | 14.0 | – | 0.0 | 0.0 | 20.2 |
| 29 July | 0.0 | 0.8 | 0.0 | 1.6 | 0.0 | 2.4 | 0.8 | 0.0 | 5.6 |
| 30 July | 3.7 | 0.8 | 21.1 | 0.0 | 3.2 | 3.8 | 0.0 | 0.0 | 32.6 |
| Total | 17.0 | 30.2 | 61.8 | 86.2 | 55.5 | 33.6 | 9.3 | 3.2 | 296.8 |
| Percent | 6% | 10% | 21% | 29% | 19% | 11% | 3% | 1% | 100% |

*Source*: CPUE numbers are from Dupuis et al. (2016).

*Note*: CPUE is defined as the number of fish captured at each station on each day and standardized to the number of fish caught in 100 fathoms of gear in one hour of fishing time.

*Note*: Dashes indicate days/stations that were not fished.

Appendix B3.–Estimated coho salmon catch per unit effort (CPUE) by date and station for Cook Inlet southern offshore test fishery in 2013.

| | Station number | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | 4 | 5 | 6 | 6.5 | 7 | 8 | Total |
| 1 July | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 |
| 2 July | 0.0 | 0.7 | 0.0 | 0.0 | 0.8 | 0.0 | 1.5 |
| 3 July | 0.0 | 0.8 | 0.0 | 3.0 | 4.3 | 0.0 | 8.1 |
| 4 July | 0.0 | 0.8 | 0.8 | 3.7 | – | – | 5.3 |
| 5 July | 0.0 | 1.6 | 0.8 | 0.0 | 0.7 | 0.0 | 3.1 |
| 6 July | 0.0 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 | 3.6 |
| 7 July | 0.0 | 0.0 | 0.0 | 7.8 | 1.3 | 0.0 | 9.1 |
| 8 July | 0.0 | – | – | 2.6 | 0.7 | 0.0 | 3.3 |
| 9 July | 0.0 | 5.4 | 0.0 | 2.1 | 0.0 | 0.0 | 7.5 |
| 10 July | 0.0 | 13.3 | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 |
| 11 July | 1.6 | 1.8 | 5.7 | 3.0 | 0.0 | 0.0 | 12.1 |
| 12 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 |
| 13 July | 0.0 | 2.2 | 2.9 | – | – | – | 5.1 |
| 14 July | – | – | – | – | – | – | 0.0 |
| 15 July | 0.7 | 0.7 | 0.0 | 3.7 | 0.8 | 0.8 | 6.7 |
| 16 July | 0.0 | 22.4 | 14.3 | 0.0 | 13.1 | 5.1 | 54.9 |
| 17 July | – | – | 0.0 | – | – | – | 0.0 |
| 18 July | – | – | – | – | – | – | 0.0 |
| 19 July | – | – | – | – | – | – | 0.0 |
| 20 July | 3.6 | 8.9 | 11.9 | – | – | – | 24.4 |
| 21 July | 1.6 | 0.0 | 9.7 | 0.0 | 3.9 | 0.0 | 15.2 |
| 22 July | 0.0 | 0.7 | 36.9 | 12.2 | 26.4 | 0.0 | 76.2 |
| 23 July | 0.0 | 1.5 | 2.1 | 0.7 | 0.0 | 1.5 | 5.8 |
| 24 July | 0.0 | 13.6 | 33.0 | 0.0 | 0.0 | 0.0 | 46.6 |
| 25 July | 0.0 | 4.0 | 0.0 | 33.3 | 107.0 | – | 144.3 |
| 26 July | 0.8 | 0.0 | 0.8 | 0.5 | 5.5 | 0.8 | 8.4 |
| 27 July | 0.0 | 0.0 | 0.0 | 0.6 | 0.8 | 1.5 | 2.9 |
| 28 July | 0.0 | 0.0 | 3.8 | 0.7 | 0.8 | 1.6 | 6.9 |
| 29 July | 0.0 | 0.0 | 12.3 | 16.8 | – | – | 29.1 |
| 30 July | 0.0 | 0.0 | – | – | – | – | 0.0 |
| Total | 8.3 | 78.4 | 140.0 | 90.7 | 166.1 | 11.9 | 495.4 |
| Percent | 2% | 16% | 28% | 18% | 34% | 2% | 100% |

*Source*: CPUE numbers are from Dupuis et al. (2015).

*Note*: Dashes indicate days/stations that were not fished.

*Note*: CPUE is defined as the number of fish captured at each station on each day and standardized to the number of fish caught in 100 fathoms of gear in one hour of fishing time.

Appendix B4.–Estimated coho salmon catch per unit effort (CPUE) by date and station for Cook Inlet southern offshore test fishery in 2014.

| | Station number | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | 4 | 5 | 6 | 6.5 | 7 | 8 | Total |
| 1 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.8 |
| 4 July | 0.0 | 0.0 | 0.8 | 2.6 | 0.8 | 0.0 | 4.2 |
| 5 July | 0.8 | 0.0 | 2.4 | 5.7 | 0.0 | 0.8 | 9.7 |
| 6 July | 0.8 | 1.6 | 0.0 | 1.5 | 1.5 | 0.7 | 6.1 |
| 7 July | 0.0 | 1.1 | 0.6 | 0.8 | 0.0 | 0.0 | 2.5 |
| 8 July | 0.0 | 0.0 | 0.8 | 0.0 | 0.8 | 0.0 | 1.6 |
| 9 July | 0.0 | 2.3 | 0.0 | 0.8 | 0.8 | 0.0 | 3.9 |
| 10 July | 0.0 | 0.8 | 0.7 | 0.0 | 0.0 | 0.0 | 1.5 |
| 11 July | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.6 |
| 12 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 |
| 13 July | 0.0 | 8.9 | 0.0 | 0.7 | 0.0 | 0.0 | 9.6 |
| 14 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 July | 0.0 | 0.0 | 4.8 | 0.8 | 0.0 | 0.7 | 6.3 |
| 16 July | 0.0 | 0.7 | 4.5 | 10.7 | 14.5 | 1.5 | 31.9 |
| 17 July | 1.4 | 7.3 | 5.5 | 0.8 | 0.9 | 2.3 | 18.2 |
| 18 July | 0.0 | 5.9 | 4.8 | 7.9 | 32.0 | 2.8 | 53.4 |
| 19 July | 0.0 | 2.0 | 7.4 | 2.2 | 1.1 | 0.0 | 12.7 |
| 20 July | 0.6 | 11.1 | 3.2 | 0.0 | 8.6 | 0.8 | 24.3 |
| 21 July | 0.0 | 0.7 | 0.0 | 0.8 | 15.5 | 0.8 | 17.8 |
| 22 July | 0.0 | 0.0 | 1.6 | 5.6 | 26.8 | 2.5 | 36.5 |
| 23 July | 0.0 | 1.1 | 7.2 | 20.0 | 48.0 | 0.0 | 76.3 |
| 24 July | 0.0 | 5.7 | 20.7 | 37.3 | 18.3 | 1.7 | 83.7 |
| 25 July | 3.0 | 3.5 | 0.8 | 15.5 | 1.6 | 0.8 | 25.2 |
| 26 July | 0.0 | 0.0 | 0.0 | 0.8 | 5.6 | 3.7 | 10.1 |
| 27 July | 0.0 | 0.0 | 8.2 | 18.1 | 3.2 | 0.0 | 29.5 |
| 28 July | 0.0 | 35.6 | 0.0 | 0.0 | 0.0 | 0.0 | 35.6 |
| 29 July | 0.0 | 0.8 | 0.0 | 7.8 | 2.5 | 27.0 | 38.1 |
| 30 July | 0.0 | 0.0 | 29.6 | 23.3 | 13.7 | 5.0 | 71.6 |
| 31 July | 0.0 | 2.3 | 9.4 | 3.0 | 0.0 | 0.0 | 14.7 |
| 1 August | 0.0 | 6.3 | 3.7 | 16.5 | 0.8 | 0.8 | 28.1 |
| Total | 6.6 | 97.7 | 117.3 | 183.2 | 197.8 | 52.7 | 655.3 |
| Percent | 1% | 15% | 18% | 28% | 30% | 8% | 100% |

*Source*: CPUE numbers are from Dupuis et al. (2016).

*Note*: CPUE is defined as the number of fish captured at each station on each day and standardized to the number of fish caught in 100 fathoms of gear in one hour of fishing time.

Appendix B5.–Estimated coho salmon catch per unit effort (CPUE) by date and station for Cook Inlet southern offshore test fishery in 2015.

| | Station number | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | 4 | 5 | 6 | 6.5 | 7 | 8 | Total |
| 1 July[a] | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 2 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 July | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.8 |
| 4 July | 0.0 | 0.0 | 2.1 | 0.7 | 0.0 | 0.0 | 2.8 |
| 5 July | 0.0 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 2.4 |
| 6 July | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 4.4 |
| 7 July | 0.0 | 0.8 | 0.0 | 0.8 | 0.0 | 0.0 | 1.6 |
| 8 July | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.8 | 1.6 |
| 9 July | 0.0 | 0.8 | 0.0 | 0.8 | 0.0 | 0.0 | 1.6 |
| 10 July | 0.0 | 0.7 | 8.3 | 2.6 | 2.4 | 0.0 | 14.0 |
| 11 July | 0.0 | 0.0 | 0.0 | 2.9 | 3.0 | 0.0 | 5.9 |
| 12 July | 0.0 | 1.5 | 7.0 | 0.8 | 9.6 | 3.8 | 22.7 |
| 13 July | 0.0 | 1.5 | 1.4 | 0.0 | 1.5 | 0.8 | 5.2 |
| 14 July | 0.0 | 2.7 | 0.0 | 0.9 | 2.3 | 1.5 | 7.4 |
| 15 July | 0.0 | 0.0 | 1.4 | 1.6 | 2.4 | 0.0 | 5.4 |
| 16 July[a] | 0.0 | 0.4 | 1.5 | 0.0 | 3.0 | 1.4 | 6.3 |
| 17 July[a] | 0.0 | 0.8 | 1.5 | 0.4 | 3.5 | 1.2 | 7.4 |
| 18 July[a] | 0.0 | 1.2 | 0.5 | 0.5 | 4.1 | 1.0 | 7.3 |
| 19 July | 0.0 | 1.6 | 1.6 | 0.7 | 4.6 | 0.8 | 9.3 |
| 20 July | 0.0 | 2.0 | 0.7 | 0.0 | 3.9 | 2.4 | 9.0 |
| 21 July | 0.0 | 0.0 | 3.2 | 0.8 | 0.0 | 0.0 | 4.0 |
| 22 July | 0.0 | 2.9 | 13.2 | 15.0 | 19.0 | 2.3 | 52.4 |
| 23 July | 0.8 | 1.7 | 2.3 | 4.3 | 1.4 | 0.0 | 10.5 |
| 24 July | 0.0 | 0.0 | 0.0 | 0.8 | 3.4 | 0.8 | 5.0 |
| 25 July | 0.8 | 0.8 | 0.8 | 1.5 | 6.7 | 12.6 | 23.2 |
| 26 July | 1.0 | 1.5 | 1.9 | 4.7 | 3.5 | 4.6 | 17.2 |
| 27 July | 0.0 | 0.0 | 0.0 | 0.8 | 1.6 | 5.3 | 7.7 |
| 28 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.8 |
| 29 July | 0.8 | 4.0 | 4.5 | 1.6 | 6.4 | 6.3 | 23.6 |
| 30 July | 0.0 | 3.4 | 10.3 | 2.5 | 0.0 | 0.8 | 17.0 |
| Total | 4.0 | 29.1 | 68.2 | 46.3 | 83.1 | 46.4 | 277.1 |
| Percent | 1% | 11% | 25% | 17% | 30% | 17% | 100% |

*Source*: CPUE numbers are from Dupuis and Willette (2016).

*Note*: CPUE is defined as the number of fish captured at each station on each day and standardized to the number of fish caught in 100 fathoms of gear in one hour of fishing time.

[a] Not all stations fished due to weather; the data for missing stations were interpolated.

Appendix B6.–Estimated coho salmon catch per unit effort (CPUE) by date and station for Cook Inlet southern offshore test fishery in 2016.

| | Station number | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | 4 | 5 | 6 | 6.5 | 7 | 8 | Total |
| 1 July | 0.0 | 0.8 | 0.7 | 0.0 | 0.8 | 0.0 | 2.3 |
| 2 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 July | 0.8 | 0.0 | 0.7 | 3.6 | 0.8 | 0.8 | 6.7 |
| 4 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 July | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 1.6 |
| 6 July | 0.0 | 1.7 | 1.4 | 0.0 | 0.0 | 0.0 | 3.1 |
| 7 July | 0.0 | 0.0 | 1.6 | 1.6 | 0.0 | 0.8 | 4.0 |
| 8 July | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.8 | 1.6 |
| 9 July | 0.0 | 0.8 | 2.9 | 0.0 | 0.8 | 0.0 | 4.5 |
| 10 July | 0.0 | 0.0 | 0.0 | 2.3 | 1.6 | 0.0 | 3.9 |
| 11 July | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 July | 0.0 | 0.0 | 1.6 | 2.4 | 0.0 | 0.0 | 4.0 |
| 13 July | 0.9 | 0.0 | 1.6 | 1.6 | 4.1 | 0.0 | 8.2 |
| 14 July | 0.0 | 2.1 | 1.6 | 4.4 | 0.0 | 0.0 | 8.1 |
| 15 July | 1.4 | 1.1 | 4.1 | 2.3 | 1.5 | 1.7 | 12.1 |
| 16 July[a] | 0.0 | 0.0 | 6.8 | 0.0 | – | 0.0 | 6.8 |
| 17 July | 0.8 | 3.6 | 1.6 | 9.4 | 0.0 | 0.0 | 15.4 |
| 18 July | 0.0 | 0.8 | 11.2 | 7.4 | 0.0 | 0.0 | 19.4 |
| 19 July[a] | – | – | – | – | – | – | – |
| 20 July | 0.0 | 2.5 | 8.4 | 19.1 | 13.8 | 0.9 | 44.7 |
| 21 July[a] | – | – | – | 0.9 | 3.2 | 0.0 | 4.1 |
| 22 July | 0.8 | 5.6 | 9.0 | 5.5 | 5.3 | 5.9 | 32.1 |
| 23 July | 0.0 | 0.0 | 32.6 | 4.6 | 10.9 | 2.5 | 50.6 |
| 21 July[a] | – | 0.0 | 11.0 | 14.6 | 4.2 | – | 29.8 |
| 25 July | 1.7 | 0.0 | 0.0 | 3.4 | 0.0 | 0.0 | 5.1 |
| 26 July | 0.0 | 1.7 | 0.8 | 17.7 | 0.0 | 5.1 | 25.3 |
| 27 July[a] | – | – | – | – | – | – | – |
| 28 July | 0.0 | 0.0 | 0.8 | 4.0 | 8.9 | 0.0 | 13.7 |
| 29 July[a] | – | – | 6.9 | 12.3 | 4.5 | 0.0 | 23.7 |
| Total | 6.4 | 21.5 | 106.9 | 117.1 | 60.4 | 18.5 | 330.8 |
| Percent | 2% | 6% | 32% | 35% | 18% | 6% | 100% |

*Source*: CPUE numbers are from Dupuis and Willette (2018).

*Note*: CPUE is defined as the number of fish captured at each station on each day and standardized to the number of fish caught in 100 fathoms of gear in one hour of fishing time.

[a] Not all stations fished due to weather.

# APPENDIX C: UPPER COOK INLET COHO SALMON HARVEST BY STATISTICAL AREA, AND DATE, 2013–2016

Appendix C1.–Commercial coho salmon harvest by area and date in Upper Cook Inlet, 2013. The harvest represented for each genetic mixed stock analysis stratum (mixture; Table 20) is indicated with black outlines. Represented harvest is shaded in dark gray if sampled, and light gray if unsampled.

| Upper Subdistrict set gillnet | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Statistical area | | | | | | |
| Date | 244-21 | 244-22 | 244-25 | 244-31 | 244-32 | 244-41 | 244-42 |
| 06/27 | 1 | 1 | | 1 | | | |
| 06/30 | 1 | 2 | | 2 | | | |
| 07/01 | 1 | | | | | | |
| 07/04 | 10 | 8 | | | | | |
| 07/06 | 5 | 5 | | 2 | | | |
| 07/08 | 3 | 5 | | 3 | 2 | 36 | 34 |
| 07/10 | 6 | 5 | | | | | |
| 07/11 | 6 | 3 | | 2 | 4 | 54 | 49 |
| 07/15 | 11 | 16 | | 10 | 7 | 176 | 250 |
| 07/17 | | | 9 | | | | |
| 07/18 | 26 | 33 | 2 | 8 | 3 | 102 | 47 |
| 07/20 | 27 | 38 | | 11 | 11 | 103 | 90 |
| 07/21 | | | 14 | | | | |
| 07/22 | | | 14 | | | | |
| 07/23 | 43 | 42 | 11 | 13 | 29 | 137 | 149 |
| 07/24 | | | 13 | | | | |
| 07/25 | | | 19 | | | | |
| 07/26 | | | 34 | | | | |
| 07/27 | | | 56 | | | | |
| 07/28 | | | 127 | | | | |
| 07/29 | | | 22 | | | | |
| 07/30 | | | 48 | | | | |
| 08/01 | | | 82 | | | | |
| 08/02 | | | 182 | | | | |

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Central District-West Side set gillnet

| | Statistical area | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | 245-10 | 245-20 | 245-30 | 245-40 | 245-50 | 245-55 | 245-60 | 246-10 | 246-20 |
| 06/24 | | | 1 | | | | | | |
| 07/01 | | | 5 | | | | | 43 | |
| 07/04 | | | 20 | | | | | 113 | 16 |
| 07/06 | | | 44 | | | | | | |
| 07/08 | | | 38 | | 4 | | | 224 | 19 |
| 07/11 | | | 76 | | 6 | | | 325 | 36 |
| 07/13 | | | 70 | | | | | | |
| 07/15 | | | 63 | | 5 | 17 | | 1,088 | 54 |
| 07/18 | | | 136 | | 26 | | | 1,689 | 278 |
| 07/20 | | | 101 | | | | | | |
| 07/22 | | | 232 | | 73 | 21 | 105 | 2,723 | 334 |
| 07/25 | | | 542 | | 72 | | | 1,731 | 351 |
| 07/27 | | | 559 | | | | | | |
| 07/29 | | | 398 | | 221 | | | 1,814 | 191 |
| 08/01 | 45 | | 1,423 | | 145 | | | 1,992 | 795 |
| 08/03 | | | 220 | | | | | | |
| 08/05 | | | 262 | | 569 | | | 4,295 | 659 |
| 08/08 | | | 42 | | 221 | | | 2,455 | 1,093 |
| 08/12 | 116 | | | | 213 | | | 1,208 | 267 |
| 08/15 | 160 | | | | | | | 737 | 190 |
| 08/19 | 386 | | | | | | | 52 | |
| 08/23 | 24 | | | | | | | | |
| 08/26 | | | | | | | | | 80 |

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Northern District set gillnet

| | Statistical area | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | 247-10 | 247-20 | 247-30 | 247-41 | 247-42 | 247-43 | 247-70 | 247-80 | 247-90 |
| 06/24 | | | | | | | | | 1 |
| 06/27 | 9 | | | | | | | | 1 |
| 07/01 | 24 | 17 | | | | | 5 | | 2 |
| 07/04 | 24 | 232 | | | 1 | | 49 | 6 | 21 |
| 07/08 | 28 | 413 | 26 | | 5 | 25 | 20 | 1 | 6 |
| 07/11 | 21 | 433 | 132 | 12 | 21 | 68 | 57 | 5 | 6 |
| 07/15 | 14 | 1,903 | 639 | 532 | 61 | 333 | 194 | 44 | 20 |
| 07/18 | | 659 | 565 | 240 | 171 | 63 | 269 | 59 | 12 |
| 07/22 | 215 | 771 | 1,360 | 289 | 175 | 33 | 128 | 24 | 55 |
| 07/25 | 19 | 842 | 515 | 151 | 165 | 194 | 80 | 17 | 57 |
| 07/29 | 180 | 1,550 | 428 | 463 | 518 | 911 | 428 | 119 | 89 |
| 08/01 | 558 | 1,641 | 571 | 732 | 711 | 818 | 488 | 119 | 150 |
| 08/05 | 585 | 1,410 | 575 | 143 | 362 | 289 | 324 | 369 | 539 |
| 08/08 | 442 | 742 | | 160 | 325 | 785 | 283 | 62 | 184 |
| 08/12 | 235 | 976 | | 295 | 243 | 823 | 717 | 391 | 450 |
| 08/15 | 8 | 475 | | 98 | 336 | 399 | 593 | 628 | 718 |
| 08/19 | | 77 | | | 35 | 33 | 366 | 330 | 903 |
| 08/22 | 5 | 111 | | | 12 | | 106 | 329 | 632 |
| 08/26 | 13 | 46 | 18 | | | 17 | 91 | 147 | 422 |
| 08/29 | | 86 | | | | | | | 41 |
| 09/02 | | | | | | | 133 | 93 | 234 |
| 09/05 | | | | | | | | 29 | 84 |
| 09/09 | | | | | | | | | 23 |

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Central District drift gillnet

| | Statistical area | | | |
|---|---|---|---|---|
| Date | 244-26 | 244-56 | 244-60 | 245-10 |
| 06/24 | | | 1 | |
| 06/27 | | | 72 | |
| 07/01 | | | 901 | |
| 07/04 | | | 4,221 | |
| 07/08 | | | 5,997 | |
| 07/11 | | 360 | | |
| 07/13 | | 447 | | |
| 07/15 | | | 14,034 | |
| 07/17 | 7 | 1,835 | | |
| 07/18 | | | 12,679 | |
| 07/19 | | 1,198 | | |
| 07/20 | | 1,804 | | |
| 07/21 | 1 | 1,644 | | |
| 07/22 | 4 | | 31,828 | |
| 07/23 | | 1,084 | | |
| 07/24 | | 677 | | |
| 07/25 | | | 37,024 | |
| 07/26 | 8 | 624 | | |
| 07/27 | | 1,225 | | |
| 07/28 | 6 | 236 | | |
| 07/29 | | | 11,193 | |
| 07/30 | | 204 | | |
| 08/01 | 4 | | 21,790 | |
| 08/02 | 1 | | | |
| 08/05 | | | 11,882 | |
| 08/08 | | | 7,816 | |
| 08/12 | | | 3,782 | |
| 08/15 | | | 3,069 | |
| 08/19 | | | 2,360 | 409 |
| 08/21 | | | | 234 |
| 08/22 | | | 843 | |
| 08/23 | | | | 449 |
| 08/26 | | | 989 | 599 |
| 08/30 | | | | 1,079 |
| 09/02 | | | | 73 |
| 09/11 | | | | 52 |
| 09/12 | | | 26 | |

*Note*: See Figures 16–19 for statistical area names and locations.

*Note*: Harvest numbers were obtained from the fish ticket database on 8/19/19.

Appendix C2.–Commercial coho salmon harvest by area and date in Upper Cook Inlet, 2014. The harvest represented for each genetic mixed stock analysis stratum (mixture; Table 20) is indicated with black outlines. Represented harvest is shaded in dark gray if sampled, and light gray if unsampled.

| Upper Subdistrict set gillnet | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Statistical area | | | | | | |
| Date | 244-21 | 244-22 | 244-25 | 244-31 | 244-32 | 244-41 | 244-42 |
| 06/23 | | 1 | | | | | |
| 06/26 | | 1 | | | | | |
| 06/28 | 1 | | | | | | |
| 06/30 | | | | 1 | | | |
| 07/03 | 3 | 2 | | 1 | | | |
| 07/05 | 1 | | | | | | |
| 07/07 | 9 | 6 | | 2 | | | |
| 07/09 | 4 | 5 | | 1 | 3 | 10 | 28 |
| 07/12 | 18 | 6 | | 5 | | | |
| 07/15 | 9 | 35 | | 3 | | | |
| 07/16 | | | 2 | | | | |
| 07/17 | 9 | 10 | 8 | 8 | 22 | 141 | 106 |
| 07/18 | | | 3 | | | | |
| 07/19 | | | 42 | | | | |
| 07/20 | | | 11 | | | | |
| 07/21 | | | 17 | | | | |
| 07/22 | | | 16 | | | | |
| 07/23 | 50 | 69 | 3 | 7 | 20 | 74 | 91 |
| 07/24 | | | 6 | | | | |
| 07/25 | | | 34 | | | | |
| 07/26 | | | 26 | | | | |
| 07/27 | | | 16 | | | | |
| 07/28 | | | 36 | | | | |
| 07/29 | | | 31 | | | | |
| 07/30 | | | 41 | | | | |
| 08/01 | | | 43 | | | | |
| 08/02 | 135 | 54 | 10 | 41 | 78 | 343 | 197 |
| 08/04 | 316 | 96 | | 115 | 95 | 503 | 315 |
| 08/06 | | | | | 406 | 1,362 | 745 |

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Central District-West Side set gillnet

| | Statistical area | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | 245-10 | 245-20 | 245-30 | 245-40 | 245-50 | 245-55 | 245-60 | 246-10 | 246-20 |
| 06/26 | | | | | | | | 4 | |
| 06/30 | | | 2 | | | | | 19 | 3 |
| 07/03 | | | 16 | | | | | 89 | 5 |
| 07/05 | | | 21 | | | | | | |
| 07/07 | | | 18 | | | | | 83 | 45 |
| 07/10 | | | 19 | | | | | | |
| 07/12 | | | 111 | | | | | | |
| 07/14 | | | 80 | | 6 | | | 118 | 17 |
| 07/17 | | | 132 | | 8 | | | 602 | 249 |
| 07/19 | | | 284 | | | | | | |
| 07/21 | | | 573 | | 54 | | 63 | 2,061 | 640 |
| 07/24 | | | 496 | | 32 | | 103 | 2,172 | 923 |
| 07/26 | | | 625 | | | | | | |
| 07/28 | | | 454 | | 90 | | 214 | 1,285 | 252 |
| 07/31 | | | 737 | | 83 | | | 1,047 | 73 |
| 08/02 | | | 547 | | | | | | |
| 08/04 | | | 372 | | 269 | | | 1,085 | 500 |
| 08/07 | | | 336 | | 69 | | | 404 | 353 |
| 08/11 | | | | | 173 | | | 627 | 47 |
| 08/13 | | | | | | | | 299 | |
| 08/14 | | | 35 | | | | | 3 | |
| 08/18 | | | | | | | | 106 | 37 |
| 08/21 | | | | | | | | 152 | |
| 08/25 | | | | | | | | 57 | |

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Northern District set gillnet

| | Statistical area | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | 247-10 | 247-20 | 247-30 | 247-41 | 247-42 | 247-43 | 247-70 | 247-80 | 247-90 |
| 06/23 | | 1 | | | 1 | | | | |
| 06/26 | 5 | 1 | | | | | 2 | 1 | |
| 06/30 | 11 | 12 | 1 | 3 | | | 6 | 1 | 1 |
| 07/03 | 8 | 57 | 10 | | | | 13 | 1 | 2 |
| 07/07 | | 144 | 30 | 1 | 3 | 8 | 55 | 61 | 1 |
| 07/10 | 1 | 91 | 26 | 29 | 22 | | 12 | 13 | |
| 07/14 | 36 | 124 | 74 | 48 | 59 | 46 | 41 | 6 | 7 |
| 07/17 | 59 | 712 | 287 | 134 | 53 | 98 | 64 | 30 | 36 |
| 07/21 | 90 | 602 | 909 | 687 | 244 | 440 | 225 | 61 | 88 |
| 07/24 | 88 | 1,056 | 466 | 285 | 204 | 336 | 461 | 187 | 30 |
| 07/28 | 170 | 361 | 180 | 130 | 465 | 372 | 156 | 112 | 27 |
| 07/31 | 415 | 1,624 | 808 | 985 | 505 | 529 | 231 | 237 | 140 |
| 08/04 | 267 | 714 | 164 | 397 | 439 | 715 | 478 | 269 | 70 |
| 08/07 | 235 | 651 | | 519 | 542 | 568 | 479 | 637 | 207 |
| 08/11 | 316 | 111 | | 233 | 276 | 225 | 381 | | 152 |
| 08/14 | 128 | 210 | | 7 | 183 | 225 | 192 | 24 | |
| 08/18 | 305 | 557 | | | 140 | 309 | 410 | 1,031 | 257 |
| 08/21 | 29 | 327 | | 155 | 52 | 278 | 282 | 867 | 270 |
| 08/25 | 315 | 148 | | 25 | 31 | 57 | 242 | 579 | 280 |
| 08/28 | 131 | 43 | | 26 | 34 | | 65 | | |
| 09/01 | 53 | 82 | | | 12 | | 192 | 497 | 319 |
| 09/04 | | 70 | | | | | 13 | 144 | |
| 09/08 | | 30 | | | | | | | |

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Central District drift gillnet

| | Statistical area | | | | |
|---|---|---|---|---|---|
| Date | 244-26 | 244-56 | 244-57 | 244-60 | 245-10 |
| 06/19 | | | | 3 | |
| 06/23 | | | | 18 | |
| 06/26 | | | | 222 | |
| 06/30 | | | | 459 | |
| 07/03 | | | | 1,137 | |
| 07/07 | | | | 901 | |
| 07/09 | | 167 | | | |
| 07/10 | | | | 846 | |
| 07/11 | | 313 | | | |
| 07/12 | | | | 1,739 | |
| 07/13 | | 82 | | | |
| 07/14 | | | | 2,899 | |
| 07/15 | | 246 | | | |
| 07/16 | 2 | | | | |
| 07/17 | 1 | | | 12,934 | |
| 07/18 | 11 | | 1,234 | | |
| 07/19 | 3 | | 1,189 | | |
| 07/20 | 0 | | 1,002 | | |
| 07/21 | 0 | | | 12,547 | |
| 07/22 | 5 | | 910 | | |
| 07/23 | | | 1,462 | | |
| 07/24 | | | 1,567 | | |
| 07/25 | 2 | | 1,547 | | |
| 07/26 | | | 287 | | |
| 07/27 | | | 123 | | |
| 07/28 | 1 | | 1,888 | | |
| 07/29 | 11 | | | | |
| 07/30 | 11 | | | | |
| 07/31 | | | 1,678 | | |
| 08/01 | 9 | | | | |
| 08/02 | 5 | | | | |
| 08/04 | | | | 11,142 | |
| 08/07 | | | | 5,816 | |
| 08/11 | | | | 2,878 | |

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Central District drift gillnet

| | Statistical area | | | | |
|---|---|---|---|---|---|
| Date | 244-26 | 244-56 | 244-57 | 244-60 | 245-10 |
| 08/14 | | | | 1,468 | |
| 08/18 | | | | 961 | |
| 08/21 | | | | 1,003 | |
| 08/25 | | | | 794 | |
| 08/28 | | | | 138 | |
| 08/29 | | | | | 519 |
| 09/01 | | | | 1,936 | |
| 09/02 | | | | | 1,361 |
| 09/04 | | | | 903 | |
| 09/05 | | | | | 375 |
| 09/08 | | | | 140 | |
| 09/09 | | | | | 37 |

*Note*: See Figures 16–19 for statistical area names and locations.

*Note*: Harvest numbers were obtained from the fish ticket database on 8/19/19.

Appendix C3.–Commercial coho salmon harvest by area and date in Upper Cook Inlet, 2015. The harvest represented for each genetic mixed stock analysis stratum (mixture; Table 20) is indicated with black outlines. Represented harvest is shaded in dark gray if sampled, and light gray if unsampled.

Upper Subdistrict set gillnet

| | Statistical area | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | 244-25 | 244-21 | 244-22 | 244-31 | 244-32 | 244-41 | 244-42 |
| 06/24 | | 1 | | | | | |
| 06/29 | | 1 | | | | | |
| 07/02 | | 5 | 4 | 2 | | | |
| 07/04 | | 1 | | 2 | | | |
| 07/06 | | 13 | 9 | 1 | | | |
| 07/07 | 1 | | | | | | |
| 07/08 | 3 | | | | | | |
| 07/09 | | 12 | 16 | 2 | 5 | 66 | 61 |
| 07/11 | 1 | 14 | 6 | 8 | 2 | 27 | 47 |
| 07/13 | 12 | | | | | | |
| 07/14 | | 39 | 33 | 7 | 4 | 77 | 162 |
| 07/15 | | 19 | 15 | 1 | | | |
| 07/16 | | 39 | 40 | 14 | 21 | 179 | 391 |
| 07/17 | 12 | | | | | | |
| 07/18 | 3 | 66 | 80 | 75 | | | |
| 07/19 | | 56 | 31 | 13 | | | |
| 07/20 | | 44 | 26 | 8 | 35 | 108 | 138 |
| 07/21 | 1 | 26 | 12 | 2 | | | |
| 07/22 | 7 | 38 | 53 | 4 | | | |
| 07/23 | | 176 | 201 | 17 | 13 | 384 | 692 |
| 07/24 | 12 | | | | | | |
| 07/25 | 2 | 110 | 93 | 22 | 18 | 226 | 192 |
| 07/26 | | 273 | 152 | 33 | 16 | 466 | 145 |
| 07/27 | | 109 | 80 | 18 | 21 | 124 | 241 |
| 07/28 | 3 | 68 | 32 | 4 | | | |
| 07/29 | | 116 | 90 | 11 | 16 | 122 | 232 |
| 07/30 | | 46 | 34 | 17 | 17 | 109 | 206 |
| 07/31 | 15 | 72 | 21 | 8 | | | |
| 08/01 | 8 | 79 | 83 | 27 | 16 | 184 | 197 |
| 08/02 | 46 | | | | 55 | 261 | 229 |
| 08/03 | | 279 | 131 | 68 | 117 | 303 | 260 |
| 08/05 | | 304 | 239 | 100 | 130 | 403 | 261 |
| 08/06 | | 315 | 119 | 105 | 143 | 247 | 190 |
| 08/08 | | 362 | 268 | 43 | 183 | 546 | 332 |
| 08/09 | | 456 | 171 | 56 | 111 | 370 | 305 |
| 08/10 | | 412 | 160 | 43 | 184 | 385 | 380 |
| 08/12 | | | | | 207 | 468 | 331 |

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Central District-West Side set gillnet

| | Statistical area | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | 245-10 | 245-20 | 245-30 | 245-40 | 245-50 | 245-55 | 245-60 | 246-10 | 246-20 |
| 06/25 | | | | | | | | | 1 |
| 06/29 | | | 4 | | | | | 19 | |
| 07/02 | | | 7 | | | | | 60 | 7 |
| 07/06 | | | 24 | 1 | 1 | | | 203 | 32 |
| 07/09 | | | 64 | | 2 | | | 568 | 65 |
| 07/13 | | | 269 | | 1 | | | 876 | 59 |
| 07/16 | | | 150 | | | | | 497 | 56 |
| 07/18 | | | 149 | | | | | | |
| 07/20 | | | 268 | 2 | 36 | | 121 | 960 | 211 |
| 07/23 | | | 432 | | 13 | | 245 | 1,341 | 243 |
| 07/25 | | | 387 | | | | | | |
| 07/27 | | | 326 | | 64 | | 306 | 904 | 345 |
| 07/30 | | | 269 | | 109 | | 166 | 1,182 | 402 |
| 08/01 | | | 308 | | | | | 1,579 | 267 |
| 08/03 | | | 297 | | 122 | | | 1,311 | 158 |
| 08/06 | | | 216 | | 126 | | | 1,009 | 33 |
| 08/08 | | | 16 | | | | | 894 | 49 |
| 08/10 | | | | | 189 | | | 364 | 70 |
| 08/13 | 12 | | | | 88 | | | 484 | 82 |
| 08/15 | | | | | | | | 425 | 59 |
| 08/17 | 10 | | 23 | | 145 | | | 773 | 83 |
| 08/20 | | | 32 | | 77 | | | | |

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Northern District set gillnet

| | Statistical area | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | 247-10 | 247-20 | 247-30 | 247-41 | 247-42 | 247-43 | 247-70 | 247-80 | 247-90 |
| 06/25 | | | | | | | 1 | | |
| 06/29 | 1 | 1 | | | | | | | |
| 07/02 | 6 | 11 | | | | | 7 | 1 | |
| 07/06 | 19 | 48 | | | 2 | | 11 | 5 | 19 |
| 07/09 | 191 | 498 | 137 | 139 | 22 | 100 | 111 | 51 | 7 |
| 07/13 | 328 | 433 | 273 | 134 | 32 | 89 | 128 | 93 | 131 |
| 07/16 | 71 | 241 | 96 | 183 | 69 | 17 | 143 | 110 | 12 |
| 07/20 | 101 | 870 | 323 | 368 | 489 | 541 | 515 | 184 | 102 |
| 07/23 | 71 | 1474 | 594 | 383 | 252 | 235 | 283 | 409 | 286 |
| 07/27 | 125 | 998 | 1233 | 1,218 | 416 | 768 | 566 | 278 | 33 |
| 07/30 | 181 | 971 | 761 | 519 | 388 | 188 | 264 | 128 | 11 |
| 08/03 | 316 | 1714 | 647 | 210 | 476 | 172 | 239 | 20 | 23 |
| 08/06 | 269 | 1932 | 297 | 373 | 344 | 119 | 274 | 188 | 55 |
| 08/10 | 101 | 1197 | 28 | 173 | 190 | 424 | 466 | 242 | 133 |
| 08/13 | 207 | 440 | | 392 | 312 | 190 | 428 | 262 | 228 |
| 08/17 | 146 | 566 | 54 | | 75 | 80 | 392 | 300 | 139 |
| 08/20 | 103 | 689 | 26 | | 127 | 36 | 523 | 669 | 858 |
| 08/24 | 155 | 803 | | 112 | 108 | | 368 | 762 | 649 |
| 08/27 | 109 | 299 | | | | | 150 | 833 | 317 |
| 08/31 | 31 | 102 | | | | | | | |
| 09/03 | 46 | 36 | | | | | 152 | 400 | 127 |
| 09/07 | 83 | 238 | | | | | 212 | 485 | 163 |
| 09/10 | 47 | 51 | | | | | 502 | | 254 |
| 09/14 | 15 | 36 | | | | | 47 | | 65 |
| 09/21 | | 104 | | | | | 187 | | |
| 09/24 | | | | | | | | 84 | |
| 09/28 | | 10 | | | | | | | |

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Central District drift gillnet

| Date | Statistical area 244-26 | 244-56 | 244-57 | 244-60 | 245-10 |
|---|---|---|---|---|---|
| 06/22 | | | | 51 | |
| 06/25 | | | | 71 | |
| 06/29 | | | | 362 | |
| 07/02 | | | | 645 | |
| 07/06 | | | | 1,777 | |
| 07/07 | 1 | | | | |
| 07/08 | 9 | | | | |
| 07/09 | | | | 3,217 | |
| 07/10 | 1 | | | | |
| 07/11 | | 327 | | | |
| 07/12 | 4 | | | | |
| 07/13 | 58 | | | 14,226 | |
| 07/14 | | 792 | | | |
| 07/16 | | | 1,512 | | |
| 07/17 | 102 | | | | |
| 07/18 | 15 | | | | |
| 07/20 | | | | 13,718 | |
| 07/21 | 6 | | | | |
| 07/22 | 30 | | | | |
| 07/23 | | | 6,826 | | |
| 07/24 | 51 | | | | |
| 07/25 | | | 5,523 | | |
| 07/26 | | | 2,405 | | |
| 07/27 | | | | 5,697 | |
| 07/28 | | | 1,504 | | |
| 07/29 | | | 1,856 | | |
| 07/30 | 10 | | 1,319 | | |
| 07/31 | | | 1,911 | | |
| 08/01 | | | | 17,578 | |
| 08/02 | 24 | | 1,379 | | |
| 08/03 | | | | 15,145 | |
| 08/05 | | | 2,051 | | |
| 08/06 | | | | 7,294 | |

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Appendix C3.–Page 5 of 5.

Central District drift gillnet

| Date | Statistical area | | | | |
|---|---|---|---|---|---|
| | 244-26 | 244-56 | 244-57 | 244-60 | 245-10 |
| 08/07 | | | 392 | | |
| 08/08 | | | | 4,764 | |
| 08/09 | | | 52 | | |
| 08/10 | | | | 2,926 | |
| 08/12 | | | 170 | | |
| 08/13 | | | | 3,013 | |
| 08/17 | | | | 2,617 | |
| 08/18 | | | | | 426 |
| 08/20 | | | | 2,316 | |
| 08/21 | | | | | 449 |
| 08/24 | | | | 1,399 | |
| 08/25 | | | | | 358 |
| 08/28 | | | | | 332 |
| 08/31 | | | | 24 | |
| 09/01 | | | | | 380 |
| 09/03 | | | | 1,051 | |
| 09/04 | | | | | 928 |
| 09/07 | | | | 730 | |
| 09/08 | | | | | 374 |
| 09/11 | | | | | 113 |
| 09/15 | | | | | 107 |
| 09/17 | | | | 302 | |

*Note*: See Figures 16–19 for statistical area names and locations.

*Note*: Harvest numbers were obtained from the fish ticket database on 8/19/19.

Appendix C4.–Commercial coho salmon harvest by area and date in Upper Cook Inlet, 2016. The harvest represented for each genetic mixed stock analysis stratum (mixture; Table 20) is indicated with black outlines. Represented harvest is shaded in dark gray if sampled, and light gray if unsampled.

Upper Subdistrict set gillnet

| | Statistical area | | | | | |
|---|---|---|---|---|---|---|
| Date | 244-21 | 244-22 | 244-31 | 244-32 | 244-41 | 244-42 |
| 06/23 | | 1 | | | | |
| 06/25 | 1 | | 1 | | | |
| 06/27 | | 1 | 1 | | | |
| 06/29 | | 2 | | | | |
| 06/30 | 1 | | | | | |
| 07/02 | | 2 | 1 | | | |
| 07/04 | 4 | 1 | | | | |
| 07/06 | 6 | 6 | 3 | | | |
| 07/07 | 2 | 2 | | | | |
| 07/09 | 9 | 5 | 6 | | | |
| 07/11 | 18 | 17 | 7 | 15 | 98 | 93 |
| 07/13 | 10 | 6 | 3 | 3 | 30 | 23 |
| 07/14 | 15 | 9 | 1 | 1 | 39 | 30 |
| 07/16 | 16 | 20 | 5 | 7 | 34 | 24 |
| 07/17 | 16 | 20 | 12 | 9 | 29 | 27 |
| 07/18 | 20 | 48 | 10 | 10 | 29 | 52 |
| 07/19 | 27 | 23 | 11 | 3 | 59 | 22 |
| 07/21 | 41 | 72 | 30 | 70 | 185 | 149 |
| 07/23 | 33 | 22 | 3 | 7 | 27 | 22 |
| 07/24 | 52 | 39 | 4 | 17 | 47 | 18 |
| 07/25 | 54 | 61 | 9 | 13 | 109 | 111 |
| 07/28 | 95 | 108 | 19 | 19 | 181 | 105 |
| 08/01 | 274 | 165 | 26 | 55 | 346 | 140 |
| 08/03 | 402 | 397 | 63 | 49 | 300 | 125 |
| 08/05 | 798 | 226 | 58 | 137 | 278 | 212 |
| 08/07 | 693 | 375 | 97 | 311 | 500 | 151 |
| 08/09 | 390 | 303 | 138 | 346 | 954 | 569 |

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Central District-West Side set gillnet

| | Statistical area | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | 245-10 | 245-30 | 245-40 | 245-50 | 245-55 | 245-60 | 246-10 | 246-20 |
| 06/20 | | 1 | | | | | | |
| 06/23 | | 1 | | | | | | |
| 06/24 | | | | | | | 2 | |
| 06/27 | | | | | | | 3 | |
| 06/30 | | | | | | | 14 | |
| 07/04 | | 1 | | 1 | | | 25 | 3 |
| 07/07 | | 30 | | | | | 60 | 4 |
| 07/09 | | 27 | | | | | | |
| 07/11 | | 50 | | 11 | | | 432 | 94 |
| 07/14 | | 50 | 3 | 6 | | | 96 | 18 |
| 07/16 | | 56 | | | | | | |
| 07/18 | | 26 | | 124 | | 10 | 491 | 37 |
| 07/21 | | 68 | 36 | 37 | 200 | 64 | 1,202 | 243 |
| 07/23 | | 102 | | | | | | |
| 07/25 | | 244 | 7 | 13 | 215 | 135 | 1,640 | 351 |
| 07/28 | | 506 | 85 | 48 | 228 | 66 | 987 | 268 |
| 07/30 | | 222 | | | | | | |
| 08/01 | | 477 | 215 | 163 | | | 880 | 113 |
| 08/04 | | 450 | 164 | 48 | | | 1,109 | 122 |
| 08/06 | | 217 | | | | | | |
| 08/08 | | 43 | 124 | | | | 1,054 | 78 |
| 08/11 | 180 | 37 | 71 | 48 | | | 250 | 70 |
| 08/15 | | 129 | | 279 | | | 187 | 20 |

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Appendix C4.–Page 3 of 5.

Northern District set gillnet

| | Statistical area | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | 247-10 | 247-20 | 247-30 | 247-41 | 247-42 | 247-43 | 247-70 | 247-80 | 247-90 |
| 06/27 | | | | | | 3 | | | 1 |
| 06/30 | 2 | 7 | 1 | | | | 3 | | 1 |
| 07/04 | 16 | 75 | 5 | | | 1 | 15 | | 3 |
| 07/07 | 11 | 82 | | 7 | | 11 | 43 | | 2 |
| 07/11 | 67 | 976 | 137 | 33 | 23 | 55 | 118 | 11 | 15 |
| 07/14 | 81 | 967 | 528 | 86 | 58 | 76 | 107 | 3 | 3 |
| 07/18 | 58 | 760 | 600 | 260 | 55 | 101 | 87 | 32 | |
| 07/21 | 9 | 35 | 112 | 113 | 41 | | 80 | 17 | 4 |
| 07/25 | 104 | 1,174 | 444 | 487 | 148 | 354 | 199 | 106 | 3 |
| 07/28 | 53 | 1,446 | 711 | 270 | 225 | 195 | 245 | 41 | 5 |
| 08/01 | 165 | 1,087 | 241 | 388 | 278 | 366 | 947 | 72 | 71 |
| 08/04 | 343 | 1,061 | 254 | 78 | 153 | 289 | 435 | 296 | 61 |
| 08/08 | 134 | 364 | 6 | 48 | 186 | 143 | 311 | 224 | 148 |
| 08/11 | 33 | 557 | 23 | 227 | 159 | 353 | 446 | 314 | 371 |
| 08/15 | 89 | 215 | 7 | 16 | 149 | 279 | 300 | 498 | 219 |
| 08/18 | 84 | 185 | | | | | 302 | 377 | 416 |
| 08/22 | 52 | 130 | | | | | 283 | 553 | 253 |
| 08/25 | 133 | 145 | | | | | 192 | 273 | 282 |
| 08/29 | 41 | 74 | | | | | 38 | 463 | 331 |
| 09/01 | 47 | 36 | | | | | 88 | 277 | 94 |
| 09/05 | 105 | 26 | | | | | 72 | 78 | 38 |
| 09/08 | 62 | 40 | | | | | 121 | | |
| 09/12 | 35 | | | | | | 84 | | |
| 09/15 | | | | | | | 9 | | |
| 09/19 | | 9 | | | | | | | |
| 09/26 | | 10 | | | | | | | |

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Appendix C4.–Page 4 of 5.

Central District drift gillnet

| Date | Statistical area | | | |
|---|---|---|---|---|
| | 244-56 | 244-57 | 244-60 | 245-10 |
| 06/20 | | | 6 | |
| 06/23 | | | 14 | |
| 06/27 | | | 51 | |
| 06/29 | | | | |
| 06/30 | | | 229 | |
| 07/02 | | | | |
| 07/04 | | | 903 | |
| 07/07 | | | 1,789 | |
| 07/09 | 885 | | | |
| 07/11 | | | 4,951 | |
| 07/13 | 1,062 | | | |
| 07/14 | | | 5,381 | |
| 07/15 | | | 5,242 | |
| 07/16 | | 1,597 | | |
| 07/17 | | 751 | | |
| 07/18 | | | 10,751 | |
| 07/19 | | 1,490 | | |
| 07/21 | | 3,228 | | |
| 07/22 | | 1,414 | | |
| 07/23 | | 1,017 | | |
| 07/24 | | 437 | | |
| 07/25 | | | 11,210 | |
| 07/28 | | 2,686 | | |
| 08/01 | | | 4,941 | |
| 08/03 | | 2,584 | | |
| 08/04 | | | 9,290 | |
| 08/06 | | 679 | | |
| 08/07 | | 193 | | |
| 08/08 | | | 6,635 | |
| 08/09 | | 152 | | |
| 08/11 | | | 1,427 | |
| 08/15 | | | 1,535 | |
| 08/18 | | | 854 | |
| 08/22 | | | 66 | |
| 08/25 | | | 879 | |
| 08/26 | | | | 1,900 |
| 08/29 | | | 476 | |
| 08/30 | | | | 1,107 |
| 09/01 | | | 502 | |

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| Central District drift gillnet | | | | |
|---|---|---|---|---|
| | Statistical area | | | |
| Date | 244-56 | 244-57 | 244-60 | 245-10 |
| 09/02 | | | | 661 |
| 09/05 | | | 467 | |
| 09/06 | | | | 225 |
| 09/08 | | | 249 | |
| 09/09 | | | | 217 |
| 09/16 | | | | 109 |

*Note*: See Figures 16–19 for statistical area names and locations.

*Note*: Harvest numbers were obtained from the fish ticket database on 8/19/19.

# APPENDIX D: CENTRAL DISTRICT DRIFT GILLNET STOCK COMPOSITION AND STOCK-SPECIFIC HARVEST BY DATE, 2013–2016

Appendix D1.–Central District drift gillnet fishery (excluding corridor-only), 2013: Temporal strata stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Dates: 6/27–7/15 | Stock composition (*n* = 400) | | | | Harvest = 26,032 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.1 | 0.0 | 0.6 | 0.0 | 21 | 0 | 146 | 63 |
| *Northwest CI* | 3.7 | 0.0 | 10.1 | 0.0 | 976 | 0 | 2,627 | 992 |
| *Susitna* | 20.7 | 12.4 | 29.4 | 0.1 | 5,378 | 3,239 | 7,657 | 1,352 |
| *Deshka* | 5.0 | 0.6 | 9.6 | 0.0 | 1,292 | 161 | 2,506 | 700 |
| *Yentna* | 49.6 | 40.4 | 57.8 | 0.1 | 12,906 | 10,508 | 15,054 | 1,370 |
| *Knik* | 11.9 | 7.7 | 16.9 | 0.0 | 3,098 | 2,004 | 4,388 | 727 |
| *Jim* | 3.8 | 1.8 | 6.1 | 0.0 | 977 | 473 | 1,586 | 336 |
| *Turnagain/Northeast CI* | 4.2 | 0.0 | 10.1 | 0.0 | 1,099 | 11 | 2,633 | 839 |
| *Kenai* | 0.1 | 0.0 | 1.4 | 0.0 | 35 | 0 | 363 | 166 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 41 | 32 |
| *Southeast CI* | 1.0 | 0.0 | 2.7 | 0.0 | 251 | 3 | 713 | 238 |

| Dates: 7/17–7/23 | Stock composition (*n* = 400) | | | | Harvest = 52,072 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.0 | 14 | 0 | 110 | 73 |
| *Northwest CI* | 6.7 | 1.8 | 12.7 | 0.0 | 3,474 | 914 | 6,602 | 1,736 |
| *Susitna* | 22.0 | 14.4 | 30.3 | 0.0 | 11,439 | 7,498 | 15,768 | 2,513 |
| *Deshka* | 10.2 | 5.7 | 15.0 | 0.0 | 5,295 | 2,955 | 7,808 | 1,463 |
| *Yentna* | 38.2 | 29.6 | 46.8 | 0.1 | 19,905 | 15,433 | 24,365 | 2,706 |
| *Knik* | 17.3 | 11.7 | 23.1 | 0.0 | 9,010 | 6,074 | 12,014 | 1,843 |
| *Jim* | 0.9 | 0.0 | 2.8 | 0.0 | 446 | 0 | 1,439 | 516 |
| *Turnagain/Northeast CI* | 4.7 | 0.0 | 10.8 | 0.0 | 2,435 | 0 | 5,601 | 1,754 |
| *Kenai* | 0.1 | 0.0 | 0.8 | 0.0 | 49 | 0 | 396 | 154 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 180 | 92 |
| *Southeast CI* | 0.0 | 0.0 | 0.3 | 0.0 | 5 | 0 | 160 | 84 |

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| Dates: 7/24–7/30 | Stock composition ($n$ = 392) | | | | Harvest = 51,183 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.3 | 0.0 | 1.2 | 0.0 | 170 | 15 | 612 | 218 |
| *Northwest CI* | 13.1 | 6.4 | 21.5 | 0.0 | 6,704 | 3,299 | 11,022 | 2,300 |
| *Susitna* | 29.2 | 20.1 | 38.2 | 0.1 | 14,956 | 10,274 | 19,569 | 2,841 |
| *Deshka* | 1.7 | 0.0 | 6.7 | 0.0 | 884 | 0 | 3,447 | 1,361 |
| *Yentna* | 25.8 | 15.6 | 35.3 | 0.1 | 13,222 | 7,963 | 18,078 | 3,109 |
| *Knik* | 20.7 | 14.2 | 27.4 | 0.0 | 10,577 | 7,263 | 14,018 | 2,035 |
| *Jim* | 1.8 | 0.0 | 3.8 | 0.0 | 907 | 3 | 1,964 | 595 |
| *Turnagain/Northeast CI* | 4.3 | 0.0 | 9.6 | 0.0 | 2,211 | 0 | 4,895 | 1,461 |
| *Kenai* | 2.2 | 1.0 | 3.6 | 0.0 | 1,119 | 519 | 1,831 | 410 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 153 | 90 |
| *Southeast CI* | 0.8 | 0.1 | 2.1 | 0.0 | 433 | 30 | 1,062 | 331 |

| Dates: 8/1–8/5 | Stock composition ($n$ = 399) | | | | Harvest = 33,672 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.4 | 0.0 | 9 | 0 | 138 | 62 |
| *Northwest CI* | 24.9 | 16.9 | 33.2 | 0.0 | 8,396 | 5,674 | 11,182 | 1,663 |
| *Susitna* | 15.7 | 9.3 | 23.1 | 0.0 | 5,299 | 3,125 | 7,767 | 1,403 |
| *Deshka* | 7.6 | 3.4 | 12.3 | 0.0 | 2,549 | 1,137 | 4,152 | 903 |
| *Yentna* | 23.4 | 15.3 | 32.0 | 0.1 | 7,885 | 5,157 | 10,778 | 1,704 |
| *Knik* | 24.5 | 16.2 | 32.6 | 0.1 | 8,238 | 5,459 | 10,991 | 1,726 |
| *Jim* | 0.3 | 0.0 | 1.8 | 0.0 | 106 | 0 | 598 | 233 |
| *Turnagain/Northeast CI* | 1.5 | 0.0 | 7.4 | 0.0 | 496 | 0 | 2,499 | 998 |
| *Kenai* | 1.1 | 0.3 | 2.2 | 0.0 | 362 | 92 | 725 | 198 |
| *Kasilof* | 0.7 | 0.1 | 2.0 | 0.0 | 237 | 40 | 689 | 220 |
| *Southeast CI* | 0.3 | 0.0 | 1.4 | 0.0 | 94 | 2 | 471 | 167 |

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| Dates: 8/8–8/26 | Stock composition ($n$ = 400) | | | | Harvest = 18,859 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 7.5 | 5.0 | 10.2 | 0.0 | 1,407 | 951 | 1,915 | 301 |
| *Northwest CI* | 87.1 | 79.5 | 94.6 | 0.0 | 16,430 | 15,001 | 17,837 | 864 |
| *Susitna* | 0.7 | 0.0 | 6.0 | 0.0 | 134 | 0 | 1,134 | 583 |
| *Deshka* | 0.4 | 0.0 | 2.2 | 0.0 | 73 | 0 | 419 | 161 |
| *Yentna* | 0.1 | 0.0 | 4.7 | 0.0 | 22 | 0 | 895 | 482 |
| *Knik* | 4.0 | 0.0 | 11.2 | 0.0 | 759 | 0 | 2,112 | 804 |
| *Jim* | 0.0 | 0.0 | 0.4 | 0.0 | 9 | 0 | 72 | 36 |
| *Turnagain/Northeast CI* | 0.0 | 0.0 | 4.5 | 0.0 | 0 | 0 | 841 | 359 |
| *Kenai* | 0.1 | 0.0 | 0.6 | 0.0 | 25 | 7 | 116 | 44 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 55 | 38 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 36 | 27 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: $n$ is the final number of samples used in genetic analyses.

Appendix D2.–Central District drift gillnet fisher (excluding corridor-only), 2014: Temporal strata stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Dates: 6/26–7/15 | Stock composition (*n* = 398) | | | | Harvest = 9,011 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.1 | 0.0 | 0.6 | 0.0 | 8 | 0 | 52 | 21 |
| *Northwest CI* | 10.8 | 4.8 | 17.4 | 0.0 | 976 | 433 | 1,569 | 349 |
| *Susitna* | 25.5 | 17.0 | 34.1 | 0.1 | 2,296 | 1,532 | 3,072 | 472 |
| *Deshka* | 7.8 | 3.8 | 11.9 | 0.0 | 700 | 343 | 1,076 | 223 |
| *Yentna* | 17.8 | 10.8 | 25.1 | 0.0 | 1,602 | 974 | 2,260 | 391 |
| *Knik* | 37.3 | 31.3 | 43.4 | 0.0 | 3,363 | 2,822 | 3,914 | 332 |
| *Jim* | 0.0 | 0.0 | 0.6 | 0.0 | 0 | 0 | 57 | 28 |
| *Turnagain/Northeast CI* | 0.5 | 0.0 | 4.7 | 0.0 | 47 | 0 | 428 | 220 |
| *Kenai* | 0.2 | 0.0 | 0.7 | 0.0 | 16 | 0 | 64 | 26 |
| *Kasilof* | 0.0 | 0.0 | 0.5 | 0.0 | 3 | 0 | 47 | 25 |
| *Southeast CI* | 0.0 | 0.0 | 0.4 | 0.0 | 0 | 0 | 36 | 21 |

| Dates: 7/17–7/23 | Stock composition (*n* = 396) | | | | Harvest = 31,278 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.0 | 3 | 0 | 71 | 45 |
| *Northwest CI* | 1.7 | 0.0 | 7.4 | 0.0 | 543 | 0 | 2,315 | 856 |
| *Susitna* | 32.1 | 22.0 | 43.1 | 0.1 | 10,030 | 6,891 | 13,471 | 1,972 |
| *Deshka* | 2.9 | 0.0 | 7.7 | 0.0 | 901 | 0 | 2,398 | 876 |
| *Yentna* | 28.4 | 19.5 | 36.7 | 0.1 | 8,897 | 6,115 | 11,465 | 1,624 |
| *Knik* | 22.0 | 16.5 | 28.4 | 0.0 | 6,874 | 5,159 | 8,873 | 1,153 |
| *Jim* | 1.5 | 0.0 | 3.5 | 0.0 | 478 | 0 | 1,082 | 340 |
| *Turnagain/Northeast CI* | 11.2 | 5.4 | 18.4 | 0.0 | 3,515 | 1,691 | 5,767 | 1,275 |
| *Kenai* | 0.1 | 0.0 | 0.8 | 0.0 | 36 | 0 | 238 | 103 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 60 | 44 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 64 | 41 |

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| Dates: 7/24–7/28 | Stock composition ($n$ = 392) | | | | Harvest = 5,412 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 13 | 11 |
| *Northwest CI* | 11.9 | 3.5 | 18.9 | 0.0 | 642 | 189 | 1,020 | 232 |
| *Susitna* | 13.4 | 6.6 | 20.3 | 0.0 | 724 | 357 | 1,096 | 227 |
| *Deshka* | 2.9 | 0.0 | 7.2 | 0.0 | 157 | 0 | 387 | 130 |
| *Yentna* | 26.3 | 19.7 | 32.9 | 0.0 | 1,421 | 1,065 | 1,781 | 219 |
| *Knik* | 26.3 | 20.1 | 32.9 | 0.0 | 1,425 | 1,086 | 1,779 | 211 |
| *Jim* | 0.0 | 0.0 | 1.8 | 0.0 | 0 | 0 | 96 | 43 |
| *Turnagain/Northeast CI* | 19.1 | 12.3 | 26.8 | 0.0 | 1,036 | 667 | 1,450 | 238 |
| *Kenai* | 0.1 | 0.0 | 0.9 | 0.0 | 4 | 0 | 49 | 22 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 18 | 10 |
| *Southeast CI* | 0.1 | 0.0 | 0.6 | 0.0 | 3 | 0 | 31 | 14 |

| Dates: 7/31–8/7 | Stock composition ($n$ = 391) | | | | Harvest = 18,636 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 1.0 | 0.3 | 2.1 | 0.0 | 186 | 63 | 385 | 105 |
| *Northwest CI* | 14.9 | 7.8 | 22.6 | 0.0 | 2,785 | 1,453 | 4,206 | 842 |
| *Susitna* | 19.0 | 11.5 | 27.0 | 0.0 | 3,543 | 2,147 | 5,036 | 882 |
| *Deshka* | 7.5 | 3.1 | 12.2 | 0.0 | 1,405 | 579 | 2,273 | 528 |
| *Yentna* | 15.2 | 8.5 | 23.1 | 0.0 | 2,832 | 1,591 | 4,307 | 819 |
| *Knik* | 15.0 | 9.9 | 20.9 | 0.0 | 2,800 | 1,851 | 3,888 | 632 |
| *Jim* | 1.2 | 0.0 | 3.0 | 0.0 | 218 | 0 | 565 | 192 |
| *Turnagain/Northeast CI* | 17.9 | 11.4 | 25.0 | 0.0 | 3,340 | 2,125 | 4,663 | 769 |
| *Kenai* | 8.2 | 5.6 | 11.1 | 0.0 | 1,528 | 1,040 | 2,073 | 316 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 45 | 34 |
| *Southeast CI* | 0.0 | 0.0 | 0.4 | 0.0 | 0 | 0 | 67 | 42 |

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| Dates: 8/11–8/25 | Stock composition ($n$ = 368) | | | | Harvest = 7,104 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 1.9 | 0.5 | 4.1 | 0.0 | 136 | 39 | 294 | 82 |
| *Northwest CI* | 95.3 | 90.4 | 99.3 | 0.0 | 6,771 | 6,419 | 7,056 | 193 |
| *Susitna* | 0.0 | 0.0 | 0.8 | 0.0 | 0 | 0 | 54 | 30 |
| *Deshka* | 0.0 | 0.0 | 0.5 | 0.0 | 0 | 0 | 39 | 20 |
| *Yentna* | 0.0 | 0.0 | 3.7 | 0.0 | 0 | 0 | 263 | 114 |
| *Knik* | 2.7 | 0.0 | 5.5 | 0.0 | 192 | 0 | 391 | 117 |
| *Jim* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 14 | 9 |
| *Turnagain/Northeast CI* | 0.0 | 0.0 | 2.4 | 0.0 | 0 | 0 | 168 | 79 |
| *Kenai* | 0.1 | 0.0 | 0.5 | 0.0 | 5 | 0 | 33 | 16 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 20 | 12 |
| *Southeast CI* | 0.0 | 0.0 | 0.5 | 0.0 | 0 | 0 | 34 | 19 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: *n* is the final number of samples used in genetic analyses.

Appendix D3.–Central District drift gillnet fishery (excluding corridor-only periods), 2015: Temporal strata stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Dates: 6/29–7/13 | Stock composition (*n* = 494) | | | | Harvest = 20,227 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.3 | 0.0 | 1 | 0 | 68 | 36 |
| *Northwest CI* | 13.1 | 7.5 | 18.8 | 0.0 | 2,644 | 1,513 | 3,795 | 681 |
| *Susitna* | 25.3 | 18.1 | 32.8 | 0.0 | 5,115 | 3,668 | 6,639 | 905 |
| *Deshka* | 4.5 | 0.5 | 8.5 | 0.0 | 910 | 107 | 1,719 | 475 |
| *Yentna* | 22.8 | 14.9 | 30.5 | 0.0 | 4,605 | 3,013 | 6,169 | 941 |
| *Knik* | 22.9 | 18.5 | 27.7 | 0.0 | 4,627 | 3,745 | 5,609 | 583 |
| *Jim* | 3.4 | 1.7 | 5.4 | 0.0 | 685 | 342 | 1,096 | 231 |
| *Turnagain/Northeast CI* | 7.1 | 2.8 | 11.9 | 0.0 | 1,431 | 574 | 2,416 | 558 |
| *Kenai* | 0.5 | 0.0 | 1.9 | 0.0 | 109 | 9 | 390 | 139 |
| *Kasilof* | 0.0 | 0.0 | 0.4 | 0.0 | 0 | 0 | 84 | 46 |
| *Southeast CI* | 0.5 | 0.0 | 1.3 | 0.0 | 101 | 3 | 265 | 83 |

| Dates: 7/20–8/1 | Stock composition (*n* = 488) | | | | Harvest = 36,993 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.8 | 0.2 | 1.7 | 0.0 | 284 | 58 | 621 | 181 |
| *Northwest CI* | 15.8 | 9.4 | 22.2 | 0.0 | 5,856 | 3,477 | 8,216 | 1,459 |
| *Susitna* | 18.2 | 10.4 | 25.8 | 0.0 | 6,723 | 3,860 | 9,534 | 1,741 |
| *Deshka* | 3.1 | 0.2 | 6.8 | 0.0 | 1,149 | 90 | 2,509 | 775 |
| *Yentna* | 29.0 | 22.0 | 36.4 | 0.0 | 10,714 | 8,140 | 13,448 | 1,643 |
| *Knik* | 29.7 | 23.6 | 35.7 | 0.0 | 10,992 | 8,728 | 13,189 | 1,344 |
| *Jim* | 1.4 | 0.2 | 2.9 | 0.0 | 523 | 68 | 1,068 | 295 |
| *Turnagain/Northeast CI* | 1.9 | 0.0 | 5.3 | 0.0 | 716 | 0 | 1,969 | 737 |
| *Kenai* | 0.0 | 0.0 | 0.4 | 0.0 | 9 | 0 | 145 | 90 |
| *Kasilof* | 0.1 | 0.0 | 0.9 | 0.0 | 28 | 0 | 331 | 135 |
| *Southeast CI* | 0.0 | 0.0 | 0.4 | 0.0 | 0 | 0 | 145 | 88 |

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| Dates: 8/3–8/24 | Stock composition ($n$ = 536) | | | | Harvest = 39,474 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.9 | 0.2 | 2.7 | 0.0 | 364 | 72 | 1,051 | 336 |
| *Northwest CI* | 46.5 | 39.9 | 53.1 | 0.0 | 18,344 | 15,760 | 20,966 | 1,554 |
| *Susitna* | 10.7 | 4.3 | 18.1 | 0.0 | 4,206 | 1,679 | 7,129 | 1,665 |
| *Deshka* | 1.0 | 0.0 | 3.2 | 0.0 | 389 | 0 | 1,252 | 456 |
| *Yentna* | 13.1 | 6.6 | 19.7 | 0.0 | 5,159 | 2,606 | 7,763 | 1,546 |
| *Knik* | 7.4 | 4.0 | 11.2 | 0.0 | 2,903 | 1,580 | 4,408 | 890 |
| *Jim* | 1.6 | 0.4 | 3.0 | 0.0 | 636 | 167 | 1,200 | 319 |
| *Turnagain/Northeast CI* | 11.5 | 6.6 | 16.9 | 0.0 | 4,528 | 2,598 | 6,659 | 1,245 |
| *Kenai* | 6.3 | 4.3 | 8.5 | 0.0 | 2,473 | 1,690 | 3,353 | 498 |
| *Kasilof* | 0.0 | 0.0 | 0.1 | 0.0 | 0 | 0 | 47 | 33 |
| *Southeast CI* | 1.2 | 0.1 | 2.7 | 0.0 | 472 | 29 | 1,085 | 345 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: *n* is the final number of samples used in genetic analyses.

Appendix D4.–Central District drift gillnet fishery (corridor-only periods), 2015: Stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Dates: 7/11–8/5 | Stock composition (*n* = 646) | | | | Harvest = 27,405 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 74 | 50 |
| *Northwest CI* | 16.4 | 10.5 | 23.1 | 0.0 | 4,498 | 2,864 | 6,338 | 1,062 |
| *Susitna* | 14.5 | 7.3 | 22.5 | 0.0 | 3,972 | 2,013 | 6,154 | 1,255 |
| *Deshka* | 1.8 | 0.0 | 6.1 | 0.0 | 507 | 0 | 1,660 | 696 |
| *Yentna* | 27.5 | 19.3 | 35.8 | 0.0 | 7,545 | 5,279 | 9,808 | 1,365 |
| *Knik* | 26.8 | 21.0 | 33.2 | 0.0 | 7,334 | 5,762 | 9,106 | 1,022 |
| *Jim* | 2.6 | 1.1 | 4.5 | 0.0 | 706 | 303 | 1,235 | 284 |
| *Turnagain/Northeast CI* | 9.2 | 5.0 | 14.5 | 0.0 | 2,531 | 1,358 | 3,967 | 797 |
| *Kenai* | 1.1 | 0.0 | 2.8 | 0.0 | 313 | 0 | 754 | 245 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 69 | 45 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 58 | 35 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: *n* is the final number of samples used in genetic analyses.

Appendix D5.–Central District drift gillnet fishery (excluding corridor-only periods), 2016: Temporal strata stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Dates: 6/30–7/18 | Stock composition (*n* = 373) | | | | Harvest = 29,246 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.1 | 0.0 | 0.8 | 0.0 | 34 | 0 | 241 | 99 |
| *Northwest CI* | 10.6 | 1.7 | 18.9 | 0.0 | 3,115 | 483 | 5,518 | 1,434 |
| *Susitna* | 29.1 | 18.8 | 39.4 | 0.1 | 8,515 | 5,496 | 11,527 | 1,849 |
| *Deshka* | 9.7 | 5.0 | 14.9 | 0.0 | 2,842 | 1,454 | 4,357 | 866 |
| *Yentna* | 25.6 | 15.6 | 35.5 | 0.1 | 7,487 | 4,571 | 10,389 | 1,734 |
| *Knik* | 15.2 | 10.7 | 20.2 | 0.0 | 4,454 | 3,118 | 5,907 | 868 |
| *Jim* | 1.8 | 0.3 | 3.8 | 0.0 | 530 | 99 | 1,122 | 308 |
| *Turnagain/Northeast CI* | 7.4 | 3.0 | 12.0 | 0.0 | 2,176 | 869 | 3,498 | 789 |
| *Kenai* | 0.0 | 0.0 | 0.1 | 0.0 | 0 | 0 | 43 | 27 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 55 | 44 |
| *Southeast CI* | 0.3 | 0.0 | 1.2 | 0.0 | 93 | 0 | 354 | 132 |

| Dates: 7/25–8/25 | Stock composition (*n* = 377) | | | | Harvest = 36,837 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 0.1 | 1.0 | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 1.7 | 0.5 | 3.5 | 0.0 | 633 | 185 | 1,284 | 354 |
| *Northwest CI* | 37.9 | 27.5 | 47.9 | 0.1 | 13,957 | 10,135 | 17,654 | 2,350 |
| *Susitna* | 17.0 | 9.0 | 25.4 | 0.1 | 6,247 | 3,319 | 9,346 | 1,863 |
| *Deshka* | 3.9 | 0.3 | 7.9 | 0.0 | 1,449 | 111 | 2,916 | 841 |
| *Yentna* | 9.9 | 4.0 | 15.8 | 0.0 | 3,649 | 1,481 | 5,834 | 1,327 |
| *Knik* | 9.9 | 2.7 | 19.2 | 0.1 | 3,646 | 998 | 7,066 | 1,940 |
| *Jim* | 1.9 | 0.5 | 3.7 | 0.0 | 700 | 181 | 1,352 | 358 |
| *Turnagain/Northeast CI* | 10.5 | 2.0 | 19.4 | 0.1 | 3,877 | 739 | 7,157 | 1,905 |
| *Kenai* | 4.7 | 2.8 | 7.0 | 0.0 | 1,721 | 1,017 | 2,575 | 465 |
| *Kasilof* | 1.5 | 0.3 | 3.9 | 0.0 | 549 | 95 | 1,454 | 471 |
| *Southeast CI* | 1.1 | 0.2 | 3.7 | 0.0 | 408 | 67 | 1,364 | 461 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: *n* is the final number of samples used in genetic analyses.

Appendix D6.–Central District drift gillnet fishery (corridor-only periods), 2016: stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Dates: 7/9–8/3 | Stock composition (*n* = 489) | | | | Harvest = 17,151 | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 4.1 | 2.3 | 6.1 | 0.0 | 696 | 393 | 1,041 | 199 |
| *Northwest CI* | 0.0 | 0.0 | 2.0 | 0.0 | 0 | 0 | 337 | 159 |
| *Susitna* | 14.6 | 8.2 | 21.0 | 0.0 | 2,503 | 1,408 | 3,601 | 670 |
| *Deshka* | 7.0 | 3.3 | 10.9 | 0.0 | 1,196 | 567 | 1,864 | 387 |
| *Yentna* | 29.7 | 23.6 | 36.1 | 0.0 | 5,101 | 4,051 | 6,185 | 637 |
| *Knik* | 28.7 | 22.8 | 34.9 | 0.0 | 4,918 | 3,903 | 5,991 | 634 |
| *Jim* | 0.2 | 0.0 | 1.7 | 0.0 | 28 | 0 | 285 | 117 |
| *Turnagain/Northeast CI* | 10.2 | 5.0 | 16.0 | 0.0 | 1,757 | 852 | 2,747 | 578 |
| *Kenai* | 3.1 | 1.7 | 4.9 | 0.0 | 533 | 299 | 837 | 166 |
| *Kasilof* | 0.0 | 0.0 | 0.5 | 0.0 | 0 | 0 | 80 | 42 |
| *Southeast CI* | 2.4 | 0.6 | 4.8 | 0.0 | 418 | 95 | 824 | 223 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: *n* is the final number of samples used in genetic analyses.

# APPENDIX E: NORTHERN DISTRICT SET GILL NET STOCK COMPOSITION ESTIMATES BY DATE, 2013–2016

Appendix E1.–Northern District set gillnet fishery, 2013–2016: Temporal strata stock composition (%), including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| 2013 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (7/15–7/22; *n* = 398) | | | | (7/25–8/1; *n* = 395) | | | | (8/5–8/12; *n* = 385) | | | | (8/15–8/26; *n* = 373) | | | |
| | | 90% CI | | | | 90% CI | | | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 | 0.6 | 0.3 | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 0.0 | 0.3 | 0.2 |
| *Northwest CI* | 8.6 | 2.5 | 15.2 | 3.8 | 6.8 | 1.3 | 12.2 | 3.2 | 10.5 | 3.4 | 18.5 | 4.6 | 26.0 | 18.2 | 34.2 | 4.7 |
| *Susitna* | 39.0 | 28.8 | 48.7 | 6.0 | 0.0 | 0.0 | 7.8 | 4.1 | 14.0 | 5.9 | 23.7 | 5.5 | 11.6 | 5.4 | 18.7 | 4.0 |
| *Deshka* | 6.1 | 1.0 | 11.0 | 2.8 | 7.6 | 2.5 | 12.6 | 3.1 | 5.2 | 0.8 | 10.4 | 2.9 | 0.3 | 0.0 | 3.9 | 1.5 |
| *Yentna* | 44.1 | 34.5 | 53.9 | 5.8 | 27.0 | 20.0 | 34.2 | 4.3 | 25.5 | 16.1 | 34.4 | 5.5 | 4.5 | 0.0 | 9.6 | 2.9 |
| *Knik* | 0.4 | 0.0 | 3.1 | 1.3 | 49.0 | 41.7 | 56.1 | 4.4 | 19.1 | 12.9 | 27.1 | 4.4 | 2.4 | 0.2 | 7.1 | 2.3 |
| *Jim* | 1.6 | 0.5 | 3.1 | 0.8 | 0.0 | 0.0 | 1.5 | 0.7 | 0.7 | 0.0 | 1.9 | 0.6 | 0.3 | 0.0 | 1.6 | 0.6 |
| *Turnagain/Northeast CI* | 0.1 | 0.0 | 4.6 | 2.0 | 9.4 | 4.7 | 15.4 | 3.2 | 24.2 | 16.1 | 32.2 | 4.9 | 50.6 | 42.5 | 58.8 | 5.0 |
| *Kenai* | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 | 0.8 | 0.3 | 0.8 | 0.1 | 2.1 | 0.6 | 4.3 | 2.2 | 6.8 | 1.4 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 0.0 | 0.3 | 0.2 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.4 | 0.3 | 0.0 | 0.0 | 0.4 | 0.3 |
| 2014 | | | | | | | | | | | | | | | | |
| | (7/14–7/21; *n* = 337) | | | | (7/24–7/31; *n* = 394) | | | | (8/4–8/11; *n* = 384) | | | | (8/14–8/25; *n* = 337) | | | |
| | | 90% CI | | | | 90% CI | | | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.7 | 0.3 |
| *Northwest CI* | 13.1 | 6.6 | 20.1 | 4.2 | 19.4 | 11.0 | 28.7 | 5.5 | 22.3 | 14.6 | 29.7 | 4.6 | 16.6 | 9.5 | 24.2 | 4.5 |
| *Susitna* | 29.7 | 20.5 | 38.9 | 5.6 | 5.5 | 0.0 | 14.8 | 5.2 | 12.9 | 4.4 | 21.2 | 5.1 | 0.0 | 0.0 | 5.4 | 2.3 |
| *Deshka* | 0.0 | 0.0 | 1.2 | 0.7 | 0.0 | 0.0 | 4.2 | 1.9 | 0.8 | 0.0 | 5.5 | 2.5 | 1.5 | 0.0 | 5.6 | 2.3 |
| *Yentna* | 19.5 | 11.9 | 27.7 | 4.8 | 22.6 | 14.1 | 31.0 | 5.2 | 10.9 | 4.0 | 17.8 | 4.2 | 4.8 | 0.0 | 10.4 | 3.3 |
| *Knik* | 32.0 | 25.6 | 38.9 | 4.0 | 33.3 | 25.0 | 42.2 | 5.2 | 33.7 | 26.7 | 40.9 | 4.3 | 15.4 | 9.4 | 21.6 | 3.7 |
| *Jim* | 2.1 | 0.2 | 4.4 | 1.3 | 3.9 | 1.7 | 6.4 | 1.4 | 1.6 | 0.3 | 3.6 | 1.0 | 0.3 | 0.0 | 1.2 | 0.4 |
| *Turnagain/Northeast CI* | 3.6 | 0.0 | 9.9 | 3.5 | 15.3 | 9.7 | 21.4 | 3.6 | 17.2 | 11.5 | 23.5 | 3.5 | 60.0 | 53.2 | 66.8 | 4.1 |
| *Kenai* | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 0.0 | 0.3 | 0.2 | 0.6 | 0.0 | 1.6 | 0.5 | 1.5 | 0.3 | 3.0 | 0.8 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 0.0 | 0.2 | 0.1 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.7 | 0.3 |

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| | 2015 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (7/9–7/20; *n* = 341) | | | | (7/23–7/30; *n* = 393) | | | | (8/3–8/10; *n* = 491) | | | | (8/13–8/20; *n* = 484) | | | |
| | | 90% CI | | | | 90% CI | | | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.4 | 0.2 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.0 | 1.0 | 0.3 |
| *Northwest CI* | 5.9 | 0.5 | 13.1 | 4.3 | 6.5 | 0.0 | 12.9 | 4.0 | 29.9 | 22.8 | 37.7 | 4.5 | 20.3 | 13.4 | 27.4 | 4.3 |
| *Susitna* | 18.5 | 10.5 | 26.6 | 4.9 | 3.4 | 0.0 | 11.6 | 4.6 | 13.3 | 6.6 | 20.3 | 4.2 | 4.6 | 0.0 | 11.2 | 4.0 |
| *Deshka* | 0.8 | 0.0 | 4.3 | 1.4 | 1.3 | 0.0 | 5.3 | 1.9 | 3.9 | 0.0 | 8.7 | 2.8 | 1.4 | 0.0 | 4.9 | 1.7 |
| *Yentna* | 34.3 | 26.6 | 43.0 | 5.1 | 32.8 | 25.6 | 40.1 | 4.5 | 16.9 | 11.3 | 22.5 | 3.4 | 8.1 | 3.3 | 13.2 | 3.1 |
| *Knik* | 32.7 | 23.4 | 41.4 | 5.4 | 36.1 | 29.2 | 43.5 | 4.4 | 20.6 | 13.6 | 28.8 | 4.7 | 23.0 | 16.0 | 30.4 | 4.4 |
| *Jim* | 2.2 | 0.6 | 4.2 | 1.1 | 3.6 | 1.8 | 5.6 | 1.2 | 1.4 | 0.0 | 3.2 | 1.1 | 0.0 | 0.0 | 0.9 | 0.4 |
| *Turnagain/Northeast CI* | 5.5 | 2.0 | 10.0 | 2.5 | 15.9 | 9.8 | 22.3 | 3.7 | 13.1 | 6.6 | 19.5 | 3.9 | 40.1 | 33.2 | 47.5 | 4.4 |
| *Kenai* | 0.0 | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.1 | 0.1 | 0.7 | 0.1 | 1.7 | 0.5 | 1.9 | 1.0 | 3.1 | 0.7 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 | 0.6 | 0.3 | 0.3 | 0.0 | 1.8 | 0.6 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.1 | 0.4 | 0.0 | 1.7 | 0.7 | 0.0 | 0.0 | 0.4 | 0.2 | 0.0 | 0.0 | 0.7 | 0.4 |

| | 2016 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (7/11–7/25; *n* = 376) | | | | (7/28–8/4; *n* = 365) | | | | (8/8–8/22; *n* = 371) | | | |
| | | 90% CI | | | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 |
| *Northwest CI* | 12.0 | 5.8 | 18.7 | 4.0 | 28.2 | 20.0 | 36.7 | 5.1 | 15.5 | 7.6 | 22.6 | 4.5 |
| *Susitna* | 11.7 | 3.2 | 20.2 | 5.2 | 10.0 | 2.5 | 17.9 | 4.6 | 8.7 | 2.8 | 15.0 | 3.8 |
| *Deshka* | 8.8 | 4.5 | 13.4 | 2.7 | 0.0 | 0.0 | 4.7 | 2.2 | 1.2 | 0.0 | 4.4 | 1.8 |
| *Yentna* | 34.8 | 26.8 | 42.7 | 4.9 | 19.1 | 11.3 | 27.4 | 5.0 | 6.2 | 2.7 | 10.9 | 2.6 |
| *Knik* | 26.5 | 19.0 | 34.5 | 4.8 | 29.6 | 22.6 | 36.8 | 4.3 | 5.7 | 1.9 | 12.0 | 3.1 |
| *Jim* | 0.0 | 0.0 | 0.8 | 0.4 | 0.2 | 0.0 | 1.0 | 0.4 | 1.5 | 0.5 | 2.9 | 0.8 |
| *Turnagain/Northeast CI* | 6.2 | 1.1 | 11.9 | 3.4 | 12.6 | 7.1 | 18.9 | 3.6 | 59.4 | 52.4 | 66.1 | 4.2 |
| *Kenai* | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.0 | 0.9 | 0.4 | 1.5 | 0.5 | 2.8 | 0.7 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 | 0.7 | 0.3 | 0.3 | 0.0 | 1.4 | 0.5 |
| *Southeast CI* | 0.0 | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.6 | 0.3 |

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: *n* is the final number of samples used in genetic analyses.

# APPENDIX F: NORTHERN DISTRICT SET GILL NET STOCK COMPOSITION AND STOCK-SPECIFIC HARVEST ESTIMATES BY AREA, 2013–2016

Appendix F1.–South portion of the General Subdistrict (Northern District) set gillnet fishery, 2013–2016: Stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Year: 2013 | Stock composition (*n* = 393) | | | | Harvest = 19,584 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/1–8/29 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 61 | 36 |
| *Northwest CI* | 26.3 | 19.1 | 34.1 | 0.0 | 5,159 | 3,736 | 6,688 | 900 |
| *Susitna* | 18.8 | 11.1 | 26.9 | 0.0 | 3,675 | 2,175 | 5,260 | 961 |
| *Deshka* | 6.0 | 1.6 | 10.8 | 0.0 | 1,183 | 317 | 2,124 | 553 |
| *Yentna* | 45.3 | 36.8 | 54.3 | 0.1 | 8,873 | 7,203 | 10,641 | 1,051 |
| *Knik* | 1.7 | 0.2 | 5.8 | 0.0 | 333 | 42 | 1,144 | 383 |
| *Jim* | 1.8 | 0.5 | 3.5 | 0.0 | 361 | 107 | 676 | 174 |
| *Turnagain/Northeast CI* | 0.0 | 0.0 | 1.3 | 0.0 | 0 | 0 | 255 | 117 |
| *Kenai* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 58 | 30 |
| *Kasilof* | 0.0 | 0.0 | 0.1 | 0.0 | 0 | 0 | 26 | 19 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 31 | 22 |

| Year: 2014 | Stock composition (*n* = 390) | | | | Harvest = 13,238 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 6/30–9/1 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 20 | 16 |
| *Northwest CI* | 35.6 | 27.4 | 43.8 | 0.1 | 4,718 | 3,626 | 5,798 | 662 |
| *Susitna* | 28.9 | 20.0 | 38.1 | 0.1 | 3,825 | 2,641 | 5,044 | 736 |
| *Deshka* | 0.0 | 0.0 | 6.0 | 0.0 | 0 | 0 | 796 | 368 |
| *Yentna* | 33.4 | 24.7 | 42.0 | 0.1 | 4,418 | 3,267 | 5,559 | 700 |
| *Knik* | 0.0 | 0.0 | 1.7 | 0.0 | 0 | 0 | 229 | 116 |
| *Jim* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 46 | 30 |
| *Turnagain/Northeast CI* | 2.1 | 0.0 | 7.9 | 0.0 | 278 | 0 | 1,049 | 384 |
| *Kenai* | 0.0 | 0.0 | 0.1 | 0.0 | 0 | 0 | 20 | 13 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 37 | 21 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 20 | 12 |

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| Year: 2015 | Stock composition ($n$ = 393) | | | | Harvest = 20,152 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/2–8/27 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.3 | 0.0 | 6 | 0 | 52 | 32 |
| *Northwest CI* | 27.6 | 18.6 | 36.3 | 0.1 | 5,563 | 3,755 | 7,306 | 1,066 |
| *Susitna* | 16.7 | 9.0 | 24.9 | 0.0 | 3,369 | 1,823 | 5,015 | 984 |
| *Deshka* | 5.1 | 0.0 | 10.5 | 0.0 | 1,018 | 0 | 2,118 | 666 |
| *Yentna* | 38.0 | 30.7 | 45.8 | 0.0 | 7,659 | 6,179 | 9,232 | 939 |
| *Knik* | 10.8 | 5.8 | 17.4 | 0.0 | 2,169 | 1,163 | 3,507 | 730 |
| *Jim* | 0.0 | 0.0 | 0.5 | 0.0 | 0 | 0 | 108 | 55 |
| *Turnagain/Northeast CI* | 1.5 | 0.0 | 7.1 | 0.0 | 306 | 0 | 1,438 | 490 |
| *Kenai* | 0.3 | 0.0 | 1.1 | 0.0 | 62 | 0 | 228 | 83 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 46 | 31 |
| *Southeast CI* | 0.0 | 0.0 | 0.4 | 0.0 | 0 | 0 | 84 | 44 |

| Year: 2016 | Stock composition ($n$ = 372) | | | | Harvest = 13,759 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/4–8/25 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.3 | 0.0 | 4 | 0 | 46 | 26 |
| *Northwest CI* | 27.1 | 19.0 | 37.3 | 0.1 | 3,731 | 2,618 | 5,134 | 754 |
| *Susitna* | 25.7 | 15.5 | 35.7 | 0.1 | 3,533 | 2,136 | 4,916 | 849 |
| *Deshka* | 10.9 | 5.7 | 16.4 | 0.0 | 1,498 | 782 | 2,255 | 441 |
| *Yentna* | 33.0 | 23.7 | 41.7 | 0.1 | 4,534 | 3,255 | 5,741 | 752 |
| *Knik* | 3.0 | 0.6 | 6.5 | 0.0 | 414 | 82 | 901 | 259 |
| *Jim* | 0.3 | 0.0 | 1.3 | 0.0 | 44 | 7 | 186 | 67 |
| *Turnagain/Northeast CI* | 0.0 | 0.0 | 3.9 | 0.0 | 0 | 0 | 536 | 280 |
| *Kenai* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 22 | 15 |
| *Kasilof* | 0.0 | 0.0 | 0.1 | 0.0 | 0 | 0 | 20 | 15 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 32 | 22 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: $n$ is the final number of samples used in genetic analyses.

Appendix F2.–North portion of the General Subdistrict (Northern District) set gillnet fishery, 2013–2016: Stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Year: 2013 | Stock composition (*n* = 369) | | | | Harvest = 11,046 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/8–8/26 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.3 | 0.1 | 1.2 | 0.0 | 30 | 9 | 129 | 44 |
| *Northwest CI* | 0.0 | 0.0 | 4.0 | 0.0 | 0 | 0 | 437 | 196 |
| *Susitna* | 6.6 | 0.0 | 14.0 | 0.0 | 732 | 0 | 1,548 | 535 |
| *Deshka* | 0.0 | 0.0 | 1.4 | 0.0 | 0 | 0 | 151 | 75 |
| *Yentna* | 22.8 | 16.7 | 29.6 | 0.0 | 2,520 | 1,849 | 3,273 | 427 |
| *Knik* | 64.5 | 55.9 | 73.2 | 0.1 | 7,129 | 6,172 | 8,087 | 579 |
| *Jim* | 1.0 | 0.0 | 2.8 | 0.0 | 108 | 0 | 310 | 109 |
| *Turnagain/Northeast CI* | 4.8 | 0.0 | 13.3 | 0.0 | 526 | 0 | 1,475 | 537 |
| *Kenai* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 17 | 12 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 18 | 13 |
| *Southeast CI* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 32 | 20 |

| Year: 2014 | Stock composition (*n* = 393) | | | | Harvest = 11,059 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/7–8/25 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 31 | 19 |
| *Northwest CI* | 3.8 | 0.5 | 9.3 | 0.0 | 417 | 60 | 1,023 | 328 |
| *Susitna* | 0.0 | 0.0 | 5.2 | 0.0 | 0 | 0 | 579 | 337 |
| *Deshka* | 0.0 | 0.0 | 1.2 | 0.0 | 0 | 0 | 137 | 70 |
| *Yentna* | 4.2 | 0.9 | 7.7 | 0.0 | 459 | 102 | 855 | 227 |
| *Knik* | 69.9 | 62.3 | 77.6 | 0.0 | 7,729 | 6,887 | 8,582 | 515 |
| *Jim* | 4.1 | 1.9 | 6.8 | 0.0 | 451 | 210 | 749 | 165 |
| *Turnagain/Northeast CI* | 18.1 | 10.9 | 25.8 | 0.0 | 2,000 | 1,209 | 2,853 | 493 |
| *Kenai* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 20 | 11 |
| *Kasilof* | 0.0 | 0.0 | 0.4 | 0.0 | 3 | 0 | 46 | 22 |
| *Southeast CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 17 | 12 |

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| Year: 2015 | Stock composition ($n$ = 339) | | | | Harvest = 10,465 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/6–8/24 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 28 | 17 |
| *Northwest CI* | 2.8 | 0.0 | 9.2 | 0.0 | 292 | 0 | 966 | 369 |
| *Susitna* | 7.2 | 0.4 | 13.7 | 0.0 | 755 | 40 | 1,435 | 419 |
| *Deshka* | 0.5 | 0.0 | 4.3 | 0.0 | 56 | 0 | 453 | 173 |
| *Yentna* | 8.4 | 1.9 | 14.8 | 0.0 | 878 | 201 | 1,554 | 397 |
| *Knik* | 72.8 | 65.0 | 80.4 | 0.0 | 7,622 | 6,806 | 8,410 | 486 |
| *Jim* | 3.2 | 1.3 | 5.8 | 0.0 | 340 | 135 | 607 | 146 |
| *Turnagain/Northeast CI* | 5.0 | 1.6 | 9.0 | 0.0 | 522 | 162 | 942 | 250 |
| *Kenai* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 18 | 13 |
| *Kasilof* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 17 | 12 |
| *Southeast CI* | 0.0 | 0.0 | 0.9 | 0.0 | 0 | 0 | 98 | 45 |

| Year: 2016 | Stock composition ($n$ = 373) | | | | Harvest = 5,711 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/4–8/15 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.00 | 0.21 | 0.00 | 0 | 0 | 12 | 9 |
| *Northwest CI* | 7.8 | 1.84 | 12.81 | 0.03 | 444 | 105 | 732 | 175 |
| *Susitna* | 1.8 | 0.00 | 8.03 | 0.04 | 105 | 0 | 459 | 206 |
| *Deshka* | 1.4 | 0.00 | 4.62 | 0.02 | 80 | 0 | 264 | 101 |
| *Yentna* | 8.4 | 2.91 | 14.33 | 0.03 | 479 | 166 | 819 | 196 |
| *Knik* | 60.3 | 52.16 | 68.33 | 0.05 | 3,445 | 2,979 | 3,902 | 277 |
| *Jim* | 2.5 | 0.81 | 4.56 | 0.01 | 144 | 46 | 261 | 67 |
| *Turnagain/Northeast CI* | 17.2 | 10.52 | 24.81 | 0.04 | 982 | 601 | 1,417 | 250 |
| *Kenai* | 0.2 | 0.00 | 1.08 | 0.00 | 9 | 0 | 62 | 27 |
| *Kasilof* | 0.4 | 0.09 | 1.64 | 0.01 | 22 | 5 | 94 | 34 |
| *Southeast CI* | 0.0 | 0.00 | 0.91 | 0.00 | 0 | 0 | 52 | 24 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: $n$ is the final number of samples used in genetic analyses.

Appendix F3.–Eastern Subdistrict (Northern District) set gillnet fishery, 2013–2016: Stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Year: 2013 | Stock composition (*n* = 374) | | | | Harvest = 11,616 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 6/27–9/2 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 27 | 14 |
| *Northwest CI* | 14.0 | 4.5 | 22.8 | 0.1 | 1,624 | 520 | 2,654 | 608 |
| *Susitna* | 11.2 | 5.1 | 18.5 | 0.0 | 1,304 | 594 | 2,154 | 477 |
| *Deshka* | 2.3 | 0.0 | 6.8 | 0.0 | 266 | 0 | 795 | 301 |
| *Yentna* | 2.4 | 0.0 | 6.7 | 0.0 | 274 | 0 | 784 | 280 |
| *Knik* | 1.9 | 0.1 | 6.0 | 0.0 | 223 | 10 | 694 | 251 |
| *Jim* | 0.1 | 0.0 | 0.5 | 0.0 | 6 | 0 | 61 | 24 |
| *Turnagain/Northeast CI* | 63.8 | 55.5 | 71.5 | 0.0 | 7,406 | 6,444 | 8,305 | 567 |
| *Kenai* | 4.4 | 2.0 | 7.1 | 0.0 | 513 | 233 | 827 | 183 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 35 | 26 |
| *Southeast CI* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 34 | 26 |

| Year: 2014 | Stock composition (*n* = 392) | | | | Harvest = 9,453 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/7–8/28 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 23 | 15 |
| *Northwest CI* | 10.2 | 2.4 | 16.2 | 0.0 | 960 | 230 | 1,532 | 363 |
| *Susitna* | 10.8 | 6.2 | 16.3 | 0.0 | 1,022 | 582 | 1,542 | 295 |
| *Deshka* | 0.0 | 0.0 | 2.0 | 0.0 | 0 | 0 | 189 | 82 |
| *Yentna* | 0.0 | 0.0 | 3.5 | 0.0 | 0 | 0 | 328 | 156 |
| *Knik* | 13.5 | 8.2 | 19.0 | 0.0 | 1,272 | 776 | 1,799 | 313 |
| *Jim* | 0.8 | 0.1 | 1.8 | 0.0 | 72 | 8 | 169 | 51 |
| *Turnagain/Northeast CI* | 62.3 | 56.4 | 68.3 | 0.0 | 5,891 | 5,328 | 6,457 | 349 |
| *Kenai* | 2.0 | 0.4 | 4.1 | 0.0 | 189 | 36 | 391 | 114 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 28 | 18 |
| *Southeast CI* | 0.5 | 0.1 | 2.0 | 0.0 | 46 | 9 | 189 | 63 |

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| Year: 2015 | Stock composition (*n* = 392) | | | | Harvest = 12,398 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/6–8/27 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.2 | 0.0 | 0 | 0 | 23 | 16 |
| *Northwest CI* | 12.4 | 7.2 | 19.1 | 0.0 | 1,535 | 896 | 2,374 | 451 |
| *Susitna* | 1.2 | 0.0 | 5.8 | 0.0 | 147 | 0 | 714 | 298 |
| *Deshka* | 0.0 | 0.0 | 1.0 | 0.0 | 0 | 0 | 121 | 60 |
| *Yentna* | 0.0 | 0.0 | 2.1 | 0.0 | 6 | 0 | 266 | 120 |
| *Knik* | 21.3 | 13.4 | 29.9 | 0.1 | 2,647 | 1,661 | 3,709 | 625 |
| *Jim* | 0.3 | 0.0 | 1.6 | 0.0 | 32 | 0 | 203 | 88 |
| *Turnagain/Northeast CI* | 62.0 | 54.7 | 69.7 | 0.0 | 7,691 | 6,787 | 8,643 | 566 |
| *Kenai* | 1.9 | 0.8 | 3.5 | 0.0 | 241 | 103 | 432 | 102 |
| *Kasilof* | 0.8 | 0.0 | 2.2 | 0.0 | 100 | 0 | 274 | 94 |
| *Southeast CI* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 40 | 24 |

| Year: 2016 | Stock composition (*n* = 371) | | | | Harvest = 10,199 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/11–9/5 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.0 | 0.0 | 0.5 | 0.0 | 0 | 0 | 50 | 28 |
| *Northwest CI* | 0.0 | 0.0 | 2.7 | 0.0 | 0 | 0 | 275 | 124 |
| *Susitna* | 6.9 | 2.9 | 11.6 | 0.0 | 700 | 297 | 1,178 | 265 |
| *Deshka* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 29 | 20 |
| *Yentna* | 0.0 | 0.0 | 1.1 | 0.0 | 0 | 0 | 113 | 55 |
| *Knik* | 16.9 | 11.9 | 22.4 | 0.0 | 1,728 | 1,210 | 2,280 | 330 |
| *Jim* | 0.0 | 0.0 | 0.7 | 0.0 | 0 | 0 | 70 | 33 |
| *Turnagain/Northeast CI* | 73.2 | 67.0 | 79.0 | 0.0 | 7,466 | 6,838 | 8,054 | 369 |
| *Kenai* | 2.8 | 1.3 | 4.8 | 0.0 | 289 | 136 | 490 | 107 |
| *Kasilof* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 28 | 20 |
| *Southeast CI* | 0.2 | 0.0 | 1.6 | 0.0 | 16 | 0 | 163 | 63 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: *n* is the final number of samples used in genetic analyses.

# APPENDIX G: UPPER SUBDISTRICT (CENTRAL DISTRICT) SET GILL NET STOCK COMPOSITION AND STOCK-SPECIFIC HARVEST ESTIMATES BY AREA, 2015–2016

Appendix G1.–Upper Subdistrict (Central District) set gillnet fishery, 2015 and 2016: Stock composition (%) and stock-specific harvest estimates, including mean, 90% credibility interval (CI), sample size (*n*), and standard deviation (SD).

| Year: 2015 | Stock composition (*n* = 391) | | | | Harvest = 17,517 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/14–8/12 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 0.2 | 0.0 | 1.1 | 0.0 | 29 | 0 | 201 | 76 |
| *Northwest CI* | 12.7 | 6.7 | 19.1 | 0.0 | 2,233 | 1,167 | 3,337 | 649 |
| *Susitna* | 11.0 | 3.3 | 18.6 | 0.0 | 1,923 | 576 | 3,267 | 808 |
| *Deshka* | 0.1 | 0.0 | 2.8 | 0.0 | 20 | 0 | 495 | 206 |
| *Yentna* | 9.5 | 3.3 | 16.3 | 0.0 | 1,659 | 577 | 2,859 | 690 |
| *Knik* | 22.8 | 16.4 | 29.9 | 0.0 | 3,998 | 2,879 | 5,246 | 728 |
| *Jim* | 2.3 | 1.0 | 3.8 | 0.0 | 395 | 167 | 671 | 156 |
| *Turnagain/Northeast CI* | 12.6 | 8.3 | 17.2 | 0.0 | 2,205 | 1,449 | 3,007 | 480 |
| *Kenai* | 26.1 | 21.9 | 30.4 | 0.0 | 4,576 | 3,833 | 5,331 | 450 |
| *Kasilof* | 2.7 | 0.9 | 4.8 | 0.0 | 467 | 161 | 843 | 209 |
| *Southeast CI* | 0.1 | 0.0 | 1.2 | 0.0 | 12 | 0 | 212 | 91 |

| Year: 2016 | Stock composition (*n* = 296) | | | | Harvest = 11,228 | | | |
|---|---|---|---|---|---|---|---|---|
| Dates: 7/14–8/9 | | 90% CI | | | | 90% CI | | |
| Reporting group | Mean | 5% | 95% | SD | Mean | 5% | 95% | SD |
| *Southwest CI* | 1.1 | 0.3 | 2.8 | 0.0 | 120 | 29 | 314 | 101 |
| *Northwest CI* | 0.0 | 0.0 | 3.1 | 0.0 | 0 | 0 | 350 | 157 |
| *Susitna* | 4.9 | 0.0 | 11.0 | 0.0 | 553 | 0 | 1,230 | 413 |
| *Deshka* | 1.2 | 0.0 | 5.4 | 0.0 | 140 | 0 | 602 | 230 |
| *Yentna* | 6.9 | 0.9 | 12.9 | 0.0 | 771 | 100 | 1,444 | 395 |
| *Knik* | 3.7 | 0.0 | 8.4 | 0.0 | 417 | 0 | 942 | 308 |
| *Jim* | 0.0 | 0.0 | 0.3 | 0.0 | 0 | 0 | 34 | 22 |
| *Turnagain/Northeast CI* | 30.9 | 22.6 | 39.8 | 0.1 | 3,469 | 2,542 | 4,467 | 583 |
| *Kenai* | 48.0 | 42.3 | 53.8 | 0.0 | 5,395 | 4,746 | 6,039 | 393 |
| *Kasilof* | 0.2 | 0.0 | 1.3 | 0.0 | 21 | 0 | 143 | 57 |
| *Southeast CI* | 3.1 | 0.7 | 5.8 | 0.0 | 343 | 74 | 654 | 174 |

*Note*: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note*: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note*: *n* is the final number of samples used in genetic analyses.