

Petition

I am petitioning the Alaska Board of Fisheries to table all actions on the Kenai River King Salmon Management Plans until the department comes out with the early-run reconstruction they have been promising for quite some time. If the board acts on the late-run stocks with the incomplete information they have been provided they will need to reconsider their actions when the early-run report is available which should include the Genetics numbers in-river. These numbers show anywhere from 30 to 70 percent of the early run escapement the last two weeks of June are actually late-run fish. Also approximately 50 percent of the middle-river harvests from July 1-15, which are incorrectly being subtracted from the late-run escapement are actually early run fish. The department also is pulling the sonar counter long before they are down to counting 1 percent of the run for 3 consecutive days. In 2012 for instance, with a final season count of approximately 24,000 the department pulled the counter with a count of 1,100 on the last day of counting. These errors compound themselves to put far fewer early-run fish on the spawning grounds and hundreds to thousands of additional late-run fish on the spawning grounds. Instead of adding an additional 2,000 fish to the goal range for late-run stocks the department should have added them to the early-run goal. For these and many more problems that are being discovered now due to the lateness of the department's information the public would be better served if the board delayed or tabled their actions until a full accounting of the late and early run stock strength and escapement goals are finalized.

Thanks

Mark Ducka

What is the composition of inriver harvest from July 1–July 8 between early-run and late-run Chinook salmon?

A. Results from lower river mixture sampling (See Tables 6 through 11 in the Alaska Sustainable Salmon Fund (AKSSF) completion report below) show the majority of Chinook salmon that enter the Kenai River prior to the middle of June are of tributary origin; depending on the year, after the second or third week in June mainstem fish become more prevalent. Very few tributary fish enter the Kenai in July. Results from the lower river sport fishery mixture sampling (See Tables 12 through 14 in the AKSSF completion report) demonstrate that most of the harvest in May and June is of tributary-bound fish, and that nearly all of the harvest in July is of mainstem-bound fish. Results from the middle river sport fishery mixture sampling (See Tables 15 and 16 in the AKSSF completion report) demonstrate that most of the harvest in June is of tributary-bound fish, the harvest in the first two weeks of July is a somewhat equal mix of tributary- and mainstem-bound fish, and that nearly all of the harvest in the last two weeks in July is of mainstem-bound fish. For more information see the [Kenai River Chinook Genetics AKSSF Completion Report \(PDF 538 kB\)](#).

**Alaska Sustainable Salmon Fund
Project Completion Report**

NOAA Grant Number: To be filled in by AKSSF Staff
AKSSF Project Number: 45521
Project Title: Kenai River Chinook Genetics Baseline
Principal Investigator: Timothy McKinley
ADF&G, Division of Sport Fish
43961 Kalifornsky Beach Road, Suite B
Soldotna, AK 99669
Phone: (907) 260-2913; Fax: (907) 262-4709
Email: timothy.mckinley@alaska.gov
ADF&G Contact: Timothy McKinley; Phone: (907) 260-2913
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Congress Designated: Yes
Award Period: Start: 4/1/05 End: 6/30/08
Date Prepared: 6/21/10

Abstract:

The goal of this project was to develop a genetic baseline for Kenai River Chinook salmon; the baseline genetics data will be added to the coast-wide genetic database maintained by the Pacific Salmon Commission Chinook Technical Committee. The objectives within this goal were to: compare samples collected from spawning aggregates within the Kenai River drainage to look for genotype differences; and estimate and quantify overlap in the run timing of tributary and mainstem spawning Kenai River Chinook salmon. Prior to this project (2003 and 2004), during (2005-2007), and in subsequent years Chinook salmon in spawning condition were sampled in 10 different mainstem areas and tributaries of the Kenai River to develop a genetic baseline database. Additionally, mixture samples for tributary versus mainstem run timing estimates were collected via an existing netting program as they entered the lower Kenai River, during years prior to the project (2003 and 2004), during this project (2005-2007), and in subsequent years. The results from some of the lower river netting collections during years outside the scope of the project are included in this report. Based on the lower river mixture sampling, most of the Chinook salmon that enter the Kenai River prior to the middle of June are of tributary origin; depending on the year, after the second or third week in June mainstem fish become more predominant. Few tributary spawning Chinook salmon enter the Kenai in July. Results from the lower river sport fishery mixture sampling demonstrate that: (1) most of the harvest in May and June is of tributary-bound fish, and, (2) nearly all of the harvest in July is of mainstem-bound fish. The middle river sport fishery mixture sampling results indicate that: (1) most of the harvest in June is of tributary-bound fish; (2) the harvest in the first two weeks of July is nearly an equal mix of tributary- and mainstem-bound fish; and, (3) nearly all of the harvest in the last two weeks in July is of mainstem-bound fish. These results will be extremely useful in generating estimates of escapement of tributary and mainstem Chinook, escapement goal

Table 6. 2003 Lower Kenai Net- Fitted Estimates for tributary (T) and mainstem (M)

| Dates | N | Group | Mean | S.D. | CV | C.I. |
|-------------|----|-------|-------|-------|-------|-----------------|
| 5/16 - 6/4 | 42 | T | 1.000 | 0.000 | 0.000 | (0.999 - 1.000) |
| | | M | 0.000 | 0.000 | 2.037 | (0.000 - 0.001) |
| 5/27-6/2 | 43 | T | 0.998 | 0.002 | 0.002 | (0.995 - 0.999) |
| | | M | 0.002 | 0.002 | 1.382 | (0.001 - 0.005) |
| 6/3 - 6/9 | 48 | T | 0.989 | 0.010 | 0.010 | (0.973 - 0.994) |
| | | M | 0.011 | 0.010 | 0.849 | (0.006 - 0.027) |
| 6/10 - 6/16 | 50 | T | 0.923 | 0.022 | 0.024 | (0.886 - 0.946) |
| | | M | 0.077 | 0.022 | 0.286 | (0.054 - 0.114) |
| 6/17 - 6/23 | 48 | T | 0.599 | 0.045 | 0.075 | (0.523 - 0.664) |
| | | M | 0.401 | 0.045 | 0.112 | (0.336 - 0.477) |
| 6/24 - 6/30 | 50 | T | 0.172 | 0.039 | 0.229 | (0.130 - 0.226) |
| | | M | 0.828 | 0.039 | 0.048 | (0.774 - 0.870) |
| 7/1 - 7/7 | 46 | T | 0.034 | 0.016 | 0.487 | (0.022 - 0.051) |
| | | M | 0.966 | 0.016 | 0.017 | (0.949 - 0.978) |
| 7/8 - 7/14 | 47 | T | 0.009 | 0.009 | 0.973 | (0.005 - 0.018) |
| | | M | 0.991 | 0.009 | 0.009 | (0.982 - 0.995) |
| 7/15 - 7/21 | 49 | T | 0.004 | 0.006 | 1.559 | (0.002 - 0.006) |
| | | M | 0.996 | 0.006 | 0.006 | (0.994 - 0.998) |
| 7/22 - 7/28 | 49 | T | 0.002 | 0.002 | 1.172 | (0.001 - 0.002) |
| | | M | 0.998 | 0.002 | 0.002 | (0.998 - 0.999) |
| 7/29 - 8/4 | 47 | T | 0.001 | 0.001 | 0.753 | (0.000 - 0.002) |
| | | M | 0.999 | 0.001 | 0.001 | (0.998 - 1.000) |
| 8/5-8/10 | 18 | T | 0.001 | 0.001 | 0.565 | (0.000 - 0.002) |
| | | M | 0.999 | 0.001 | 0.001 | (0.998 - 1.000) |

Table 7. 2004 Lower Kenai Net- Fitted Estimates for tributary (T) and mainstem (M)

| Dates | N | Group | Mean | S.D. | CV | C.I. |
|------------|----|-------|-------|-------|-------|-----------------|
| 5/16 - 6/4 | 13 | T | 1.000 | 0.001 | 0.001 | (1.000 - 1.000) |
| | | M | 0.000 | 0.001 | 5.376 | (0.000 - 0.000) |
| 5/27-6/2 | 11 | T | 0.999 | 0.004 | 0.004 | (0.997 - 1.000) |
| | | M | 0.001 | 0.004 | 3.155 | (0.000 - 0.003) |
| 6/3 - 6/9 | 43 | T | 0.986 | 0.015 | 0.016 | (0.970 - 0.994) |
| | | M | 0.014 | 0.015 | 1.102 | (0.006 - 0.030) |
| 6/10-6/16 | 28 | T | 0.831 | 0.044 | 0.053 | (0.759 - 0.895) |
| | | M | 0.169 | 0.044 | 0.262 | (0.105 - 0.241) |
| 6/17-6/23 | 42 | T | 0.317 | 0.050 | 0.156 | (0.256 - 0.396) |
| | | M | 0.683 | 0.050 | 0.072 | (0.604 - 0.744) |
| 6/24-6/30 | 50 | T | 0.117 | 0.026 | 0.224 | (0.089 - 0.158) |
| | | M | 0.883 | 0.026 | 0.030 | (0.842 - 0.911) |
| 7/1 - 7/7 | 50 | T | 0.066 | 0.015 | 0.227 | (0.049 - 0.085) |
| | | M | 0.934 | 0.015 | 0.016 | (0.915 - 0.951) |
| 7/8 - 7/14 | 50 | T | 0.044 | 0.011 | 0.256 | (0.031 - 0.060) |
| | | M | 0.956 | 0.011 | 0.012 | (0.940 - 0.969) |
| 7/15-7/21 | 48 | T | 0.033 | 0.010 | 0.310 | (0.022 - 0.046) |
| | | M | 0.967 | 0.010 | 0.010 | (0.955 - 0.978) |
| 7/22-7/28 | 50 | T | 0.029 | 0.008 | 0.289 | (0.019 - 0.042) |
| | | M | 0.971 | 0.008 | 0.009 | (0.958 - 0.981) |
| 7/29-8/4 | 49 | T | 0.039 | 0.014 | 0.368 | (0.022 - 0.061) |
| | | M | 0.961 | 0.014 | 0.015 | (0.939 - 0.978) |
| 8/5-8/10 | 47 | T | 0.066 | 0.024 | 0.371 | (0.030 - 0.110) |
| | | M | 0.934 | 0.024 | 0.026 | (0.890 - 0.971) |

Table 8. 2005 Lower Kenai Net- Fitted Estimates for tributary (T) and mainstem (M)

| Dates | N | Group | Mean | S.D. | CV | C.I. |
|------------|----|-------|-------|-------|-------|-----------------|
| 5/16-6/4 | 17 | T | 1.000 | 0.000 | 0.000 | (1.000 - 1.000) |
| | | M | 0.000 | 0.000 | 3.730 | (0.000 - 0.000) |
| 5/27-6/2 | 33 | T | 0.999 | 0.002 | 0.002 | (0.998 - 1.000) |
| | | M | 0.001 | 0.002 | 2.153 | (0.000 - 0.002) |
| 6/3 - 6/9 | 56 | T | 0.992 | 0.006 | 0.006 | (0.986 - 0.996) |
| | | M | 0.008 | 0.006 | 0.774 | (0.004 - 0.014) |
| 6/10-6/16 | 38 | T | 0.918 | 0.032 | 0.035 | (0.864 - 0.949) |
| | | M | 0.082 | 0.032 | 0.391 | (0.051 - 0.136) |
| 6/17-6/23 | 29 | T | 0.595 | 0.058 | 0.097 | (0.496 - 0.696) |
| | | M | 0.405 | 0.058 | 0.142 | (0.304 - 0.504) |
| 6/24-6/30 | 44 | T | 0.187 | 0.032 | 0.173 | (0.138 - 0.243) |
| | | M | 0.813 | 0.032 | 0.040 | (0.757 - 0.862) |
| 7/1 - 7/7 | 54 | T | 0.058 | 0.017 | 0.290 | (0.042 - 0.081) |
| | | M | 0.942 | 0.017 | 0.018 | (0.919 - 0.958) |
| 7/8-7/14 | 63 | T | 0.024 | 0.009 | 0.381 | (0.016 - 0.036) |
| | | M | 0.976 | 0.009 | 0.009 | (0.964 - 0.985) |
| 7/15-7/21 | 61 | T | 0.014 | 0.005 | 0.384 | (0.006 - 0.021) |
| | | M | 0.986 | 0.005 | 0.005 | (0.979 - 0.994) |
| 7/22-7/28 | 40 | T | 0.009 | 0.005 | 0.519 | (0.002 - 0.017) |
| | | M | 0.991 | 0.005 | 0.005 | (0.983 - 0.998) |
| 7/29 - 8/4 | 51 | T | 0.007 | 0.004 | 0.595 | (0.001 - 0.014) |
| | | M | 0.993 | 0.004 | 0.004 | (0.986 - 0.999) |
| 8/5-8/10 | 21 | T | 0.005 | 0.004 | 0.800 | (0.000 - 0.013) |
| | | M | 0.995 | 0.004 | 0.004 | (0.987 - 1.000) |

Table 9. 2006 Lower Kenai Net- Fitted Estimates for tributary (T) and mainstem (M)

| Dates | N | Group | Mean | S.D. | CV | C.I. |
|------------|----|-------|-------|-------|-----------|-----------------|
| 5/16-6/4 | 2 | T | 1.000 | 0.000 | 0.000 | (1.000 - 1.000) |
| | | M | 0.000 | 0.000 | 7.998 | (0.000 - 0.000) |
| 5/27-6/2 | 11 | T | 1.000 | 0.000 | 0.000 | (1.000 - 1.000) |
| | | M | 0.000 | 0.000 | 3.191 | (0.000 - 0.000) |
| 6/3 - 6/9 | 20 | T | 0.999 | 0.001 | 0.001 | (0.998 - 1.000) |
| | | M | 0.001 | 0.001 | 1.973 | (0.000 - 0.002) |
| 6/10-6/16 | 46 | T | 0.987 | 0.012 | 0.012 | (0.962 - 0.995) |
| | | M | 0.013 | 0.012 | 0.908 | (0.005 - 0.038) |
| 6/17-6/23 | 18 | T | 0.793 | 0.055 | 0.069 | (0.678 - 0.845) |
| | | M | 0.207 | 0.055 | 0.264 | (0.155 - 0.322) |
| 6/24-6/30 | 33 | T | 0.156 | 0.035 | 0.224 | (0.096 - 0.189) |
| | | M | 0.844 | 0.035 | 0.041 | (0.811 - 0.904) |
| 7/1 - 7/7 | 38 | T | 0.012 | 0.010 | 0.823 | (0.005 - 0.018) |
| | | M | 0.988 | 0.010 | 0.010 | (0.982 - 0.995) |
| 7/8 - 7/14 | 54 | T | 0.002 | 0.005 | 2.534 | (0.000 - 0.003) |
| | | M | 0.998 | 0.005 | 0.005 | (0.997 - 1.000) |
| 7/15-7/21 | 46 | T | 0.000 | 0.002 | 4.725 | (0.000 - 0.001) |
| | | M | 1.000 | 0.002 | 0.002 | (0.999 - 1.000) |
| 7/22-7/28 | 76 | T | 0.000 | 0.001 | 8.400 | (0.000 - 0.000) |
| | | M | 1.000 | 0.001 | 0.001 | (1.000 - 1.000) |
| 7/29-8/4 | 55 | T | 0.000 | 0.001 | 5.485 | (0.000 - 0.000) |
| | | M | 1.000 | 0.001 | 0.001 | (1.000 - 1.000) |
| 8/5-8/10 | 75 | T | 0.000 | 0.000 | 3.357E+07 | (0.000 - 0.000) |
| | | M | 1.000 | 0.000 | 0.000 | (1.000 - 1.000) |

Table 10. 2007 Lower Kenai Net- Fitted Estimates for tributary (T) and mainstem (M)

| Dates | N | Group | Mean | S.D. | CV | C.I. |
|----------------|----|-------|-------|-------|-------|----------------|
| 5/16-6/4 | 7 | T | 1.000 | 0.000 | 0.000 | 1.000 - 1.000) |
| | | M | 0.000 | 0.000 | 1.850 | 0.000 - 0.000) |
| 5/27-6/2 | 23 | T | 0.999 | 0.001 | 0.001 | 0.999 - 1.000) |
| | | M | 0.001 | 0.001 | 1.167 | 0.000 - 0.001) |
| 6/3-6/9 | 16 | T | 0.995 | 0.004 | 0.004 | 0.993 - 0.999) |
| | | M | 0.005 | 0.004 | 0.799 | 0.001 - 0.007) |
| 6/10- 6/16 | 34 | T | 0.959 | 0.016 | 0.017 | 0.946 - 0.991) |
| | | M | 0.041 | 0.016 | 0.401 | 0.009 - 0.054) |
| 6/17 - 6/23 | 21 | T | 0.751 | 0.069 | 0.092 | 0.697 - 0.924) |
| | | M | 0.249 | 0.069 | 0.278 | 0.076 - 0.303) |
| 6/24 - 6/30 | 20 | T | 0.323 | 0.109 | 0.338 | 0.252 - 0.577) |
| | | M | 0.678 | 0.109 | 0.161 | 0.423 - 0.748) |
| 7/1 - 7/7 | 27 | T | 0.084 | 0.057 | 0.672 | 0.059 - 0.174) |
| | | M | 0.916 | 0.057 | 0.062 | 0.826 - 0.941) |
| 7/8 - 7/14 | 55 | T | 0.022 | 0.020 | 0.953 | 0.013 - 0.032) |
| | | M | 0.979 | 0.020 | 0.021 | 0.968 - 0.987) |
| 7/15 - 7/21 | 49 | T | 0.007 | 0.007 | 0.969 | 0.002 - 0.008) |
| | | M | 0.993 | 0.007 | 0.007 | 0.992 - 0.998) |
| 7/22 - 7/28 | 55 | T | 0.003 | 0.003 | 1.128 | 0.001 - 0.004) |
| | | M | 0.997 | 0.003 | 0.004 | 0.996 - 0.999) |
| 7/29 - 8/4 | 35 | T | 0.002 | 0.002 | 1.089 | 0.000 - 0.002) |
| | | M | 0.998 | 0.002 | 0.002 | 0.998 - 1.000) |
| 8/5-8/10 | 27 | T | 0.001 | 0.001 | 1.193 | 0.000 - 0.002) |
| | | M | 0.999 | 0.001 | 0.001 | 0.998 - 1.000) |

Table 11. 2008 Lower Kenai Net- Fitted Estimates for tributary (T) and mainstem (M)

| Dates | N | Group | Mean | S.D. | CV | C.I. |
|----------------|----|-------|-------|-------|-------|-----------------|
| 5/16 - 6/4 | 13 | T | 1.000 | 0.000 | 0.000 | (1.000 - 1.000) |
| | | M | 0.000 | 0.000 | 5.086 | (0.000 - 0.000) |
| 5/27-6/2 | 15 | T | 1.000 | 0.000 | 0.000 | (1.000 - 1.000) |
| | | M | 0.000 | 0.000 | 4.311 | (0.000 - 0.000) |
| 6/3 - 6/9 | 31 | T | 0.999 | 0.002 | 0.002 | (0.998 - 1.000) |
| | | M | 0.001 | 0.002 | 3.140 | (0.000 - 0.002) |
| 6/10 - 6/16 | 41 | T | 0.994 | 0.007 | 0.007 | (0.986 - 0.997) |
| | | M | 0.006 | 0.007 | 1.230 | (0.003 - 0.014) |
| 6/17 - 6/23 | 45 | T | 0.930 | 0.023 | 0.025 | (0.894 - 0.957) |
| | | M | 0.070 | 0.023 | 0.329 | (0.043 - 0.106) |
| 6/24 - 6/30 | 36 | T | 0.566 | 0.061 | 0.107 | (0.474 - 0.656) |
| | | M | 0.434 | 0.061 | 0.140 | (0.344 - 0.526) |
| 7/1 - 7/7 | 49 | T | 0.194 | 0.045 | 0.231 | (0.142 - 0.258) |
| | | M | 0.807 | 0.045 | 0.056 | (0.742 - 0.858) |
| 7/8 - 7/14 | 40 | T | 0.062 | 0.016 | 0.257 | (0.044 - 0.085) |
| | | M | 0.939 | 0.016 | 0.017 | (0.915 - 0.957) |
| 7/15 - 7/21 | 49 | T | 0.021 | 0.006 | 0.290 | (0.014 - 0.028) |
| | | M | 0.979 | 0.006 | 0.006 | (0.972 - 0.986) |
| 7/22 - 7/28 | 50 | T | 0.007 | 0.003 | 0.432 | (0.005 - 0.012) |
| | | M | 0.993 | 0.003 | 0.003 | (0.988 - 0.995) |
| 7/29 - 8/4 | 49 | T | 0.003 | 0.001 | 0.507 | (0.001 - 0.004) |
| | | M | 0.997 | 0.001 | 0.001 | (0.996 - 0.999) |
| 8/5-8/10 | 50 | T | 0.001 | 0.001 | 0.721 | (0.000 - 0.002) |
| | | M | 0.999 | 0.001 | 0.001 | (0.998 - 1.000) |

Table 12. 2006 Lower Kenai Sport Fishery Bayes Estimates for tributary (T) and mainstem (M)

| Date | N | Group | Mean | S.D. | CV | C.I. |
|-------------|-----|-------|-------|-------|-------|-----------------|
| 5/16 - 6/4 | 22 | T | 0.997 | 0.014 | 0.014 | (0.984 - 1.000) |
| | | M | 0.003 | 0.014 | 4.467 | (0.000 - 0.016) |
| 6/6 - 6/11 | 36 | T | 1.000 | 0.004 | 0.004 | (1.000 - 1.000) |
| | | M | 0.000 | 0.004 | 9.649 | (0.000 - 0.000) |
| 6/13 - 6/18 | 51 | T | 0.995 | 0.023 | 0.023 | (0.969 - 1.000) |
| | | M | 0.005 | 0.023 | 4.576 | (0.000 - 0.031) |
| 6/20 - 6/25 | 36 | T | 0.938 | 0.094 | 0.100 | (0.738 - 1.000) |
| | | M | 0.062 | 0.094 | 1.525 | (0.000 - 0.262) |
| 6/27 - 6/30 | 29 | T | 0.172 | 0.105 | 0.610 | (0.034 - 0.371) |
| | | M | 0.828 | 0.105 | 0.127 | (0.629 - 0.966) |
| 7/1 - 7/9 | 74 | T | 0.012 | 0.025 | 2.202 | (0.000 - 0.063) |
| | | M | 0.988 | 0.025 | 0.026 | (0.937 - 1.000) |
| 7/11 - 7/16 | 55 | T | 0.002 | 0.013 | 6.198 | (0.000 - 0.004) |
| | | M | 0.998 | 0.013 | 0.013 | (0.996 - 1.000) |
| 7/18 - 7/23 | 90 | T | 0.001 | 0.006 | 7.018 | (0.000 - 0.001) |
| | | M | 0.999 | 0.006 | 0.006 | (0.999 - 1.000) |
| 7/25 - 7/30 | 119 | T | 0.000 | 0.003 | 8.060 | (0.000 - 0.000) |
| | | M | 1.000 | 0.003 | 0.003 | (1.000 - 1.000) |

Table 13. 2007 Lower Kenai Sport Fishery Bayes Estimates for tributary (T) and mainstem (M)

| Date | N | Group | Mean | S.D. | CV | C.I. |
|------------|----|-------|-------|-------|-------|-----------------|
| 5/23-6/10 | 30 | T | 0.992 | 0.026 | 0.026 | (0.942 - 1.000) |
| | | M | 0.008 | 0.026 | 3.142 | (0.000 - 0.058) |
| 6/12-6/17 | 39 | T | 0.999 | 0.005 | 0.005 | (1.000 - 1.000) |
| | | M | 0.001 | 0.005 | 8.840 | (0.000 - 0.000) |
| 6/19-6/30 | 52 | T | 0.745 | 0.126 | 0.169 | (0.538 - 1.000) |
| | | M | 0.255 | 0.126 | 0.493 | (0.000 - 0.462) |
| 7/1-7/8 | 37 | T | 0.084 | 0.077 | 0.917 | (0.003 - 0.238) |
| | | M | 0.916 | 0.077 | 0.084 | (0.762 - 0.997) |
| 7/10- 7/15 | 51 | T | 0.017 | 0.037 | 2.167 | (0.000 - 0.100) |
| | | M | 0.983 | 0.037 | 0.038 | (0.900 - 1.000) |
| 7/17-7/22 | 88 | T | 0.034 | 0.059 | 1.733 | (0.000 - 0.166) |
| | | M | 0.966 | 0.059 | 0.062 | (0.834 - 1.000) |
| 7/24-7/31 | 85 | T | 0.001 | 0.006 | 5.089 | (0.000 - 0.006) |
| | | M | 0.999 | 0.006 | 0.006 | (0.994 - 1.000) |

Table 14. 2008 Lower Kenai Sport Fishery Bayes Estimates for tributary (T) and mainstem (M)

| Date | N | Group | Mean | S.D. | CV | C.I. |
|------------|----|-------|-------|-------|-------|-----------------|
| 5/17 - 6/1 | 26 | T | 0.982 | 0.043 | 0.043 | (0.890 - 1.000) |
| | | M | 0.018 | 0.043 | 2.408 | (0.000 - 0.110) |
| 6/3 - 6/8 | 49 | T | 0.999 | 0.004 | 0.004 | (0.999 - 1.000) |
| | | M | 0.001 | 0.004 | 7.410 | (0.000 - 0.001) |
| 6/11- 6/15 | 50 | T | 0.999 | 0.005 | 0.005 | (1.000 - 1.000) |
| | | M | 0.001 | 0.005 | 9.002 | (0.000 - 0.000) |
| 6/17- 6/22 | 33 | T | 0.998 | 0.015 | 0.015 | (0.999 - 1.000) |
| | | M | 0.002 | 0.015 | 7.317 | (0.000 - 0.001) |
| 6/24- 6/29 | 26 | T | 0.959 | 0.107 | 0.112 | (0.688 - 1.000) |
| | | M | 0.041 | 0.107 | 2.633 | (0.000 - 0.312) |
| 7/2- 7/6 | 23 | T | 0.090 | 0.080 | 0.896 | (0.005 - 0.251) |
| | | M | 0.910 | 0.080 | 0.088 | (0.749 - 0.995) |
| 7/8- 7/13 | 38 | T | 0.010 | 0.028 | 2.870 | (0.000 - 0.060) |
| | | M | 0.990 | 0.028 | 0.028 | (0.940 - 1.000) |
| 7/16- 7/20 | 48 | T | 0.061 | 0.042 | 0.694 | (0.009 - 0.141) |
| | | M | 0.939 | 0.042 | 0.045 | (0.859 - 0.991) |
| 7/24- 7/27 | 50 | T | 0.006 | 0.019 | 3.325 | (0.000 - 0.037) |
| | | M | 0.994 | 0.019 | 0.019 | (0.963 - 1.000) |
| 7/29- 7/31 | 35 | T | 0.004 | 0.026 | 5.800 | (0.000 - 0.008) |
| | | M | 0.996 | 0.026 | 0.026 | (0.992 - 1.000) |

Table 15. 2006 Middle Kenai Sport Fishery Bayes Estimates for tributary (T) and mainstem (M)

| Date | N | Group | Mean | S.D. | CV | C.I. |
|------------|----|-------|-------|-------|-------|-----------------|
| 6/21- 6/30 | 60 | T | 0.871 | 0.077 | 0.089 | (0.734 - 0.991) |
| | | M | 0.129 | 0.077 | 0.599 | (0.009 - 0.266) |
| 7/3 - 7/14 | 31 | T | 0.406 | 0.165 | 0.406 | (0.154 - 0.693) |
| | | M | 0.594 | 0.165 | 0.278 | (0.307 - 0.846) |
| 7/17-7/31 | 56 | T | 0.022 | 0.032 | 1.464 | (0.000 - 0.089) |
| | | M | 0.978 | 0.032 | 0.033 | (0.911 - 1.000) |

Table 16. 2007 Middle Kenai Sport Fishery Bayes Estimates for tributary (T) and mainstem (M)

| Date | N | Group | Mean | S.D. | CV | C.I. |
|------------|-----|-------|-------|-------|-------|-----------------|
| 6/12-6/21 | 59 | T | 0.998 | 0.010 | 0.010 | (0.997 - 1.000) |
| | | M | 0.002 | 0.010 | 6.409 | (0.000 - 0.003) |
| 6/24- 6/28 | 84 | T | 0.861 | 0.057 | 0.066 | (0.761 - 0.947) |
| | | M | 0.139 | 0.057 | 0.411 | (0.053 - 0.239) |
| 7/1-7/12 | 92 | T | 0.559 | 0.083 | 0.148 | (0.420 - 0.694) |
| | | M | 0.441 | 0.083 | 0.188 | (0.306 - 0.580) |
| 7/15-7/31 | 125 | T | 0.051 | 0.031 | 0.612 | (0.011 - 0.110) |
| | | M | 0.949 | 0.031 | 0.033 | (0.890 - 0.989) |