

Email from Kevin Schaberg (ADF&G) transmitting Excel spreadsheet entitled "Updated_Chignik_brood_tables2-15-22" to Mike Tillotson of ICF. Updated Chignik early-run data from that spreadsheet is pages 3-5 of this RC. That data shows that ADF&G revised 2019 Chignik early-run escapement to 379,444 which is within the BEG range of 350,000-450,000. The updated data shows that the Chignik early-run met its escapement goal in 2019.

From: Tillotson, Mike [REDACTED]
Date: Wednesday, February 16, 2022 at 11:54 AM
To: Brandon, John [REDACTED]
Subject: FW: Chignik Brood Tables

Hi John,

Attached are the updated brood tables that I just received from ADFG. In addition to adding recent years, they've made a range of modifications/improvements from the information in the 2018 escapement goal report.

-Mike

From: Schaberg, Kevin L (DFG) [REDACTED]
Sent: Wednesday, February 16, 2022 2:49 PM
To: Tillotson, Mike [REDACTED]
Subject: RE: Chignik Brood Tables

Mike,

Here are the new Chignik Sockeye salmon brood tables. As we discussed these are a bit different from previous versions. The main changes are:

- A consistent approach to apportioning early- and late-run fish
- Using best available information (Genetics) to apportion harvest of Chignik sockeye salmon
- A bit shorter dataset due to uncertainties in age comps prior to 1983.

If you have any further questions, please shoot me an e-mail or give me a call.

Thanks,

Kevin Schaberg

Westward Region Finfish Research Supervisor

[REDACTED]
[REDACTED]
[REDACTED]

From: Tillotson, Mike [REDACTED]

Sent: Wednesday, February 16, 2022 10:16 AM

To: Schaberg, Kevin L (DFG) [REDACTED]

Subject: RE: Chignik Brood Tables

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inutes (11:30

PT), does that work for you?

From: Schaberg, Kevin L (DFG) [REDACTED]

Sent: Wednesday, February 16, 2022 2:10 PM

To: Tillotson, Mike [REDACTED]

Subject: Chignik Brood Tables

Mike,

I was forwarded your request for the Chignik brood tables. I would be happy to send those your way, but I wanted to have a quick chat so I can make sure you get what you expect.

Please give me a call at my number below and we can get those your way.

Cheers,

Kevin Schaberg

Westward Region Finfish Research Supervisor

[REDACTED] 351 Research Ct.

[REDACTED] Kodiak, AK 99615

[REDACTED] 9

<Updated_Chignik_brood_tables2-15-22.xlsx>

| | A | B | C | D | E | F | G | H | I |
|----|----------------------------------|------------|-----|--------|-------|---------|---------|-------|-----------|
| 1 | Chignik early-run sockeye salmon | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | Year | Escapement | 0.1 | 0.2 | 1.1 | 0.3 | 1.2 | 2.1 | 1.3 |
| 4 | 1983 | 426,178 | 0 | 0 | 0 | 18,246 | 77,037 | 2,242 | 245,424 |
| 5 | 1984 | 597,713 | 0 | 577 | 1,731 | 1,365 | 49,624 | 1,236 | 409,258 |
| 6 | 1985 | 376,578 | 171 | 207 | 479 | 625 | 52,352 | 440 | 399,352 |
| 7 | 1986 | 489,566 | 414 | 458 | 1,681 | 4,859 | 396,722 | 0 | 2,107,278 |
| 8 | 1987 | 486,990 | 0 | 868 | 2,322 | 1,021 | 186,629 | 977 | 922,264 |
| 9 | 1988 | 444,907 | 0 | 0 | 1,904 | 766 | 96,606 | 2,129 | 586,231 |
| 10 | 1989 | 462,968 | 0 | 32 | 8,294 | 5,865 | 238,481 | 3,008 | 767,641 |
| 11 | 1990 | 489,087 | 0 | 1,516 | 636 | 34,963 | 136,900 | 3,365 | 585,423 |
| 12 | 1991 | 740,783 | 0 | 1,694 | 553 | 2,494 | 132,029 | 305 | 1,305,985 |
| 13 | 1992 | 429,736 | 0 | 2,717 | 625 | 128,392 | 54,266 | 1,947 | 471,555 |
| 14 | 1993 | 434,924 | 0 | 3,651 | 7 | 13,745 | 55,993 | 1,693 | 213,815 |
| 15 | 1994 | 682,447 | 0 | 358 | 855 | 0 | 101,622 | 749 | 1,093,433 |
| 16 | 1995 | 440,857 | 0 | 1,938 | 889 | 29,852 | 442,467 | 0 | 1,154,107 |
| 17 | 1996 | 435,298 | 0 | 7,691 | 411 | 60,195 | 46,028 | 0 | 1,330,990 |
| 18 | 1997 | 477,220 | 0 | 9 | 0 | 8,334 | 57,680 | 951 | 495,245 |
| 19 | 1998 | 481,516 | 0 | 225 | 969 | 2,928 | 208,162 | 0 | 638,991 |
| 20 | 1999 | 419,636 | 0 | 2,075 | 52 | 19,365 | 99,714 | 328 | 580,250 |
| 21 | 2000 | 359,544 | 0 | 1,571 | 15 | 14,617 | 247,436 | 689 | 992,475 |
| 22 | 2001 | 853,473 | 0 | 2,795 | 6 | 53,689 | 69,506 | 0 | 602,214 |
| 23 | 2002 | 390,094 | 0 | 0 | 0 | 8,613 | 40,746 | 0 | 265,983 |
| 24 | 2003 | 361,106 | 0 | 1,798 | 3 | 74,822 | 58,288 | 0 | 494,257 |
| 25 | 2004 | 360,330 | 0 | 7,375 | 133 | 122,189 | 45,422 | 0 | 732,956 |
| 26 | 2005 | 328,506 | 0 | 328 | 129 | 25,429 | 125,937 | 338 | 932,414 |
| 27 | 2006 | 408,233 | 0 | 1,136 | 1,162 | 15,269 | 217,976 | 807 | 2,278,713 |
| 28 | 2007 | 386,728 | 0 | 2,272 | 270 | 15,311 | 39,571 | 997 | 329,746 |
| 29 | 2008 | 433,841 | 0 | 323 | 22 | 10,872 | 438,138 | 1 | 1,962,724 |
| 30 | 2009 | 441,557 | 0 | 0 | 227 | 3,788 | 46,817 | 58 | 92,522 |
| 31 | 2010 | 452,191 | 0 | 0 | 1,062 | 0 | 167,481 | 806 | 375,272 |
| 32 | 2011 | 489,903 | 0 | 0 | 2,684 | 548 | 203,284 | 1,076 | 804,283 |
| 33 | 2012 | 356,513 | 0 | 0 | 1,669 | 335 | 113,906 | 401 | 640,782 |
| 34 | 2013 | 401,052 | 0 | 0 | 453 | 44,999 | 41,747 | 52 | 57,461 |
| 35 | 2014 | 342,404 | 0 | 4,336 | 572 | 10,721 | 50,416 | 0 | 120,979 |
| 36 | 2015 | 426,817 | 0 | 17,909 | 342 | 129,551 | 43,779 | 174 | 89,237 |
| 37 | 2016 | 410,922 | 0 | 1,517 | 1,084 | 558 | 22,795 | 1,498 | 109,994 |
| 38 | 2017 | 428,350 | 0 | 887 | 1,153 | 3,395 | 91,741 | 156 | |
| 39 | 2018 | 182,991 | 0 | 12,495 | 1,754 | | | | |
| 40 | 2019 | 379,444 | 0 | | | | | | |
| 41 | 2020 | 179,200 | | | | | | | |
| 42 | 2021 | 296,033 | | | | | | | |

| | J | K | L | M | N | O | P | Q | R |
|----|---------|-----|-------|--------|---------|--------|-----|-----|-------|
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | 2.2 | 3.1 | 0.4 | 1.4 | 2.3 | 3.2 | 4.1 | 1.5 | 2.4 |
| 4 | 29,008 | 0 | 207 | 289 | 240,446 | 1 | 0 | 0 | 1,794 |
| 5 | 51,388 | 0 | 0 | 2,337 | 261,938 | 600 | 0 | 0 | 567 |
| 6 | 61,235 | 0 | 878 | 25,291 | 367,854 | 1,837 | 0 | 0 | 1,363 |
| 7 | 60,402 | 6 | 6 | 3,561 | 281,476 | 16,435 | 0 | 0 | 5,369 |
| 8 | 96,173 | 30 | 1,082 | 10,973 | 410,177 | 2,890 | 0 | 0 | 5,358 |
| 9 | 129,848 | 327 | 0 | 3,686 | 755,550 | 1,379 | 0 | 0 | 427 |
| 10 | 96,783 | 0 | 308 | 5,221 | 232,529 | 918 | 0 | 0 | 1,128 |
| 11 | 218,972 | 0 | 837 | 5,993 | 590,615 | 1 | 0 | 0 | 4,170 |
| 12 | 34,299 | 0 | 836 | 1,603 | 138,154 | 1,269 | 0 | 0 | 215 |
| 13 | 73,271 | 6 | 546 | 1,316 | 191,108 | 2,173 | 0 | 0 | 0 |
| 14 | 107,337 | 0 | 187 | 639 | 421,805 | 1,438 | 0 | 0 | 999 |
| 15 | 175,991 | 0 | 0 | 8,773 | 298,848 | 0 | 0 | 0 | 495 |
| 16 | 13,869 | 0 | 0 | 6,735 | 77,485 | 0 | 0 | 0 | 813 |
| 17 | 11,803 | 0 | 707 | 12,397 | 261,454 | 539 | 0 | 0 | 575 |
| 18 | 37,007 | 0 | 16 | 4,015 | 156,797 | 12 | 0 | 0 | 51 |
| 19 | 42,551 | 0 | 0 | 3,364 | 127,356 | 1,420 | 0 | 0 | 0 |
| 20 | 79,288 | 0 | 0 | 751 | 164,486 | 0 | 0 | 0 | 1,430 |
| 21 | 43,620 | 0 | 0 | 10,689 | 213,580 | 0 | 0 | 0 | 5,994 |
| 22 | 18,710 | 0 | 1,029 | 13,461 | 226,115 | 151 | 0 | 0 | 3,589 |
| 23 | 7,831 | 0 | 553 | 3,740 | 69,341 | 0 | 0 | 0 | 0 |
| 24 | 18,169 | 0 | 858 | 2,997 | 68,546 | 77 | 0 | 0 | 56 |
| 25 | 35,556 | 0 | 844 | 2,267 | 148,286 | 0 | 0 | 0 | 2,499 |
| 26 | 13,649 | 0 | 0 | 2,643 | 494,549 | 6,494 | 0 | 0 | 338 |
| 27 | 115,723 | 0 | 0 | 37,132 | 606,404 | 0 | 0 | 0 | 4,414 |
| 28 | 73,767 | 0 | 1,152 | 1,322 | 424,294 | 0 | 0 | 0 | 915 |
| 29 | 3,524 | 0 | 0 | 4,741 | 58,317 | 0 | 0 | 0 | 0 |
| 30 | 36,520 | 0 | 517 | 363 | 119,472 | 1,678 | 0 | 0 | 3 |
| 31 | 73,029 | 0 | 0 | 871 | 318,946 | 871 | 0 | 0 | 2,606 |
| 32 | 71,373 | 0 | 0 | 7,422 | 360,370 | 82 | 0 | 0 | 1,511 |
| 33 | 28,298 | 0 | 0 | 3,057 | 18,657 | 0 | 0 | 0 | 848 |
| 34 | 22,329 | 0 | 296 | 1,069 | 99,618 | 0 | 0 | 0 | 371 |
| 35 | 10,916 | 0 | 711 | 1,323 | 31,056 | 154 | 0 | 0 | 0 |
| 36 | 29,807 | 0 | 361 | 247 | 60,124 | 0 | 0 | | |
| 37 | 16,260 | 0 | 54 | | | | | | |
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| 1 | | | | | | |
| 2 | | | | | | |
| 3 | 3.3 | 4.2 | 2.5 | 3.4 | 4.3 | Total |
| 4 | 665 | 0 | 0 | 0 | 0 | 615,359 |
| 5 | 2,074 | 0 | 0 | 0 | 0 | 782,694 |
| 6 | 12,066 | 0 | 0 | 0 | 0 | 924,150 |
| 7 | 1,122 | 0 | 0 | 0 | 0 | 2,879,788 |
| 8 | 2,660 | 0 | 0 | 58 | 0 | 1,643,481 |
| 9 | 164 | 0 | 0 | 0 | 0 | 1,579,015 |
| 10 | 11,954 | 0 | 0 | 191 | 1 | 1,372,354 |
| 11 | 8,331 | 0 | 0 | 0 | 0 | 1,591,721 |
| 12 | 2,959 | 0 | 0 | 0 | 0 | 1,622,395 |
| 13 | 3,382 | 0 | 0 | 0 | 0 | 931,302 |
| 14 | 426 | 0 | 0 | 0 | 0 | 821,735 |
| 15 | 48 | 0 | 0 | 0 | 0 | 1,681,172 |
| 16 | 887 | 0 | 0 | 0 | 0 | 1,729,043 |
| 17 | 1,217 | 0 | 0 | 0 | 0 | 1,734,007 |
| 18 | 1,119 | 0 | 0 | 0 | 0 | 761,237 |
| 19 | 0 | 0 | 0 | 0 | 0 | 1,025,967 |
| 20 | 897 | 0 | 0 | 0 | 0 | 948,637 |
| 21 | 2,844 | 0 | 0 | 0 | 0 | 1,533,531 |
| 22 | 129 | 0 | 0 | 0 | 0 | 991,394 |
| 23 | 0 | 0 | 0 | 0 | 0 | 396,808 |
| 24 | 150 | 0 | 0 | 0 | 0 | 720,022 |
| 25 | 348 | 0 | 0 | 0 | 0 | 1,097,875 |
| 26 | 26,698 | 0 | 0 | 471 | 0 | 1,629,417 |
| 27 | 8,149 | 0 | 0 | 0 | 0 | 3,286,885 |
| 28 | 162 | 0 | 0 | 0 | 0 | 889,779 |
| 29 | 1,430 | 0 | 0 | 0 | 0 | 2,480,093 |
| 30 | 3,634 | 0 | 0 | 1,371 | 0 | 306,971 |
| 31 | 5,099 | 0 | 0 | 0 | 0 | 946,042 |
| 32 | 292 | 0 | 0 | 0 | 0 | 1,452,926 |
| 33 | 427 | 0 | 0 | 0 | 0 | 808,379 |
| 34 | 0 | 0 | 0 | 0 | 0 | 268,395 |
| 35 | 0 | 0 | | | | |
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