

Submitted by the Alaska Department of Fish and Game at the request of Board Member Kluberton.

Sunday, February 28, 2016

AYK Region King and Chum Salmon Escapements 2006 - 2015.

| 2015 Goal Range | | | | | | | | | | | | | | | Initial | Escapement | | | | | | | | | | Goal Assessment |
|----------------------------------|-----------------|---------|------------------------|-------------------|------------------|---------|---------|---------|---------|--------------------|--------------------|----------------------|----------------------|----------------------|---------|------------|--|--|--|--|--|--|--|--|--|-----------------|
| System | 2015 Goal Range | | Type | Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2015 | | | | | | | | | | | |
| | Lower | Upper | | | | | | | | | | | | | | | | | | | | | | | | |
| KING SALMON | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kuskokwim Area | | | | | | | | | | | | | | | | | | | | | | | | | | |
| North (Main) Fork Goodnews River | 640 | 3,300 | SEG | 2005 | NS | NS | 2,155 | NS | NS | 853 | 378 | NS | 630 | 991 | Met | | | | | | | | | | | |
| Middle Fork Goodnews River | 1,500 | 2,900 | BEG | 2007 | 4,572 | 3,914 | 2,223 | 1,669 | 2,176 | 2,045 | 524 | 1,187 | 750 | 1,494 | Under | | | | | | | | | | | |
| Kanektok River | 3,500 | 8,000 | SEG | 2005 | NS | NS | NS | NS | 1,208 | NS | NS | 2,277 | 1,840 | 4,919 | Met | | | | | | | | | | | |
| Kuskokwim River (entire area) | 65,000 | 120,000 | SEG | 2013 | 214,004 | 174,943 | 128,978 | 118,478 | 49,073 | 72,097 | 76,074 | 47,315 | 123,987 | 127,200 | Met | | | | | | | | | | | |
| Kogrukuk River | 4,800 | 8,800 | SEG | 2013 | 20,205 | NA | 9,750 | 9,528 | 5,812 | 6,731 | NA | 1,819 | 3,732 | 8,081 | Met | | | | | | | | | | | |
| Kwethluk River | 4,100 | 7,500 | SEG | 2013 | 17,619 | 12,927 | 5,275 | 5,744 | 1,667 | 4,079 | NA | 845 | 3,187 | 8,162 | Over | | | | | | | | | | | |
| Tuluksak River | eliminated | | | 2013 | 1,043 | 374 | 701 | 362 | 201 | 284 | 555 | | | | | | | | | | | | | | | |
| George River | 1,800 | 3,300 | SEG | 2013 | 4,355 | 4,011 | 2,563 | 3,663 | 1,498 | 1,547 | 2,201 | 1,292 | 2,993 | 2,282 | Met | | | | | | | | | | | |
| Kisaralik River | 400 | 1,200 | SEG | 2005 | 4,734 | 692 | 1,074 | NS | 235 | NS | 588 | 599 | 622 | 709 | Met | | | | | | | | | | | |
| Aniak River | 1,200 | 2,300 | SEG | 2005 | 5,639 | 3,984 | 3,222 | NS | NS | NS | NS | 754 | 3,201 | NS | NS | | | | | | | | | | | |
| Salmon River (Aniak R) | 330 | 1,200 | SEG | 2005 | NS | 1,458 | 589 | NS | NS | 79 | 49 | 154 | 497 | 810 | Met | | | | | | | | | | | |
| Holitna River | 970 | 2,100 | SEG | 2005 | 1,866 | NS | NS | NS | NS | NS | NS | 532 | NS | 662 | Under | | | | | | | | | | | |
| Cheeneetnuk River (Stony R) | 340 | 1,300 | SEG | 2005 | 1,015 | NS | 290 | 323 | NS | 249 | 229 | 138 | 340 | NS | NS | | | | | | | | | | | |
| Gagaryah River (Stony R) | 300 | 830 | SEG | 2005 | 531 | 1,035 | 177 | 303 | 62 | 96 | 178 | 74 | 359 | 19 | Under | | | | | | | | | | | |
| Salmon River (Pitka Fork) | 470 | 1,600 | SEG | 2005 | 862 | 943 | 1,033 | 632 | 135 | 767 | 670 | 469 | 1,865 | 2,016 | Over | | | | | | | | | | | |
| Yukon River | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East Fork Andreafsky River | 2,100 | 4,900 | SEG | 2010 | 6,463 | 4,504 | 4,242 | 3,004 | 2,413 | 5,213 | 2,517 | 1,998 | 5,949 | 5,474 | Over | | | | | | | | | | | |
| West Fork Andreafsky River | 640 | 1,600 | SEG | 2005 | 824 | 976 | NS | 1,678 | 858 | 1,173 | NS | 1,094 | 1,695 | NS | NS | | | | | | | | | | | |
| Anvik River | 1,100 | 1,700 | SEG | 2005 | 1,876 | 1,529 | 992 | 832 | 974 | 642 | 722 | 940 | 1,584 | 2,616 | Over | | | | | | | | | | | |
| Nulato River (forks combined) | 940 | 1,900 | SEG | 2005 | 1,292 | 2,583 | 922 | 2,260 | 711 | 1,401 | 1,373 | 1,118 | NS | 1,564 | Met | | | | | | | | | | | |
| Gisasa River | eliminated | | | 2010 | 843 | 593 | 487 | 515 | | | | | | | | | | | | | | | | | | |
| Chena River | 2,800 | 5,700 | BEG | 2001 | 2,936 | 3,806 | 3,208 | 5,253 | 2,382 | NS | 2,200 ^a | 1,859 | 7,192 | 6291 ^a | Over | | | | | | | | | | | |
| Salcha River | 3,300 | 6,500 | BEG | 2001 | 10,679 | 6,425 | 5,415 | 12,774 | 6,135 | 7,200 ^b | 7,165 | 5,465 | NS | 6,287 | Met | | | | | | | | | | | |
| Canada Mainstem | 42,500 | 55,000 | agreement ^c | annual | 62,630 | 34,904 | 33,883 | 65,278 | 32,014 | 46,307 | 32,656 | 28,669 | 63,331 | 82,615 | Over | | | | | | | | | | | |
| Norton Sound | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fish River/Boston Creek | 100 | | LB SEG | 2005 | NS | NS | NS | NS | NS | NS | NS | 44 | NS | 669 | Met | | | | | | | | | | | |
| Kwiniuk River | 300 | 550 | SEG | 2005 | 195 | 258 | 237 | 444 | 135 | 57 | 54 | 15 | 429 | 318 | Met | | | | | | | | | | | |
| North River (Unalakleet R) | 1,200 | 2,600 | SEG | 2005 | 906 | 1,948 | 903 | 2,355 | 1,256 | 864 | 996 | 564 | 2328 | 1,938 | Met | | | | | | | | | | | |
| Shaktoolik River | eliminated | | | 2013 | 150 ^d | 412 | NS | NS | NS | 106 | NS | | | | | | | | | | | | | | | |
| Unalakleet/Old Woman River | 550 | 1,100 | SEG | 2005 | NS | 821 | NS | 1,368 | NS | 105 | NS | NS | NS | NS | NS | | | | | | | | | | | |
| CHUM SALMON | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kuskokwim Area | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Middle Fork Goodnews River | 12,000 | | LB SEG | 2005 | 54,689 | 50,232 | 39,548 | 19,236 | 24,789 | 19,974 | 9,065 | 27,682 | 11,518 | 11,517 | Under | | | | | | | | | | | |
| Kanektok River | eliminated | | | 2013 | NS | NS | NS | NS | NS | NS | NS | | | | | | | | | | | | | | | |
| Kogrukuk River | 15,000 | 49,000 | SEG | 2005 | 188,003 | 52,961 | 44,744 | 82,483 | 69,258 | 76,823 | NA | 65,644 | 30,763 | 33,201 | Met | | | | | | | | | | | |
| Aniak River | 220,000 | 480,000 | SEG | 2007 | 1,108,626 | 696,801 | 427,911 | 479,531 | 429,643 | 345,630 | NA | NA | NA | NA | NA | | | | | | | | | | | |
| Yukon River Summer Chum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East Fork Andreafsky River | 40,000 | | LB SEG | 2010 | 102,260 | 69,642 | 57,259 | 8,770 | 72,839 | 100,473 | 56,680 | 61,234 | 37,793 | 48,809 | Met | | | | | | | | | | | |
| Anvik River | 350,000 | 700,000 | BEG | 2005 | 605,485 | 460,121 | 374,928 | 193,099 | 396,173 | 642,528 | 483,972 | 571,690 | 399,223 | 371,633 | Met | | | | | | | | | | | |
| Yukon River Fall Chum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yukon River Drainage | 300,000 | 600,000 | SEG | 2010 | 890,000 | 921,000 | 681,000 | 483,000 | 527,000 | 883,000 | 573,000 | 884,000 | 753,000 ^e | 562,000 ^e | Met | | | | | | | | | | | |
| Tanana River ^f | 61,000 | 136,000 | BEG | 2001 | 233,000 | 357,000 | 264,000 | 160,000 | 213,000 | 271,000 | 102,000 | 275,000 | 217,000 | 125,000 | Met | | | | | | | | | | | |
| Delta River | 6,000 | 13,000 | BEG | 2001 | 14,000 | 19,000 | 23,000 | 13,000 | 18,000 | 24,000 | 9,000 | 32,000 | 32,480 | 33,401 | Over | | | | | | | | | | | |
| Toklat River | eliminated | | | 2010 | NA | NA | NA | NA | | | | | | | | | | | | | | | | | | |
| Upper Yukon River Tributaries | 152,000 | 312,000 | BEG | 2001 | 436,000 | 327,000 | 248,000 | NA | 196,000 | 406,000 | 333,000 | 392,000 | 297,000 | 172,000 | Met | | | | | | | | | | | |
| Chandalar River | 74,000 | 152,000 | BEG | 2001 | 245,000 | 228,000 | 178,000 | NA | 158,000 | 295,000 | 206,000 | 253,000 | 226,000 | 164,000 | Over | | | | | | | | | | | |
| Sheenjek River | 50,000 | 104,000 | BEG | 2001 | 160,000 | 65,000 | 50,000 | 54,000 | 22,000 | 98,000 | 105,000 | 113,000 ^g | 56,000 ^g | 34,000 ^g | Under | | | | | | | | | | | |
| Fishing Branch River (Canada) | 22,000 | 49,000 | agreement ^h | 2008 ^h | 31,000 | 32,000 | 20,000 | 26,000 | 16,000 | 13,000 | 22,000 | 33,000 ^h | 15,000 ^h | 8,000 ^h | Under | | | | | | | | | | | |
| Yukon R. Mainstem (Canada) | 70,000 | 104,000 | agreement | 2010 ⁱ | 221,000 | 255,000 | 176,000 | 94,000 | 118,000 | 206,000 | 138,000 | 200,000 | 156,000 | 109,000 | Over | | | | | | | | | | | |
| Norton Sound | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subdistrict 1 Aggregate | 23,000 | 35,000 | BEG | 2001 | 87,222 | 76,940 | 32,177 | 21,368 | 97,798 | 66,122 | 51,459 | 108,120 | 97,234 | 92,030 | Over | | | | | | | | | | | |
| Sinuk River | eliminated | | | 2010 | 4,834 | 16,481 | NS | 2,232 | | | | | | | | | | | | | | | | | | |
| Nome River | 2,900 | 4,300 | OEG | 2001 | 5,678 | 7,034 | 2,607 | 1,565 | 5,906 | 3,582 | 1,982 | 4,811 | 5,589 | 6,216 | Over | | | | | | | | | | | |
| | 2,900 | 4,300 | SEG | 2005 | | | | | | | | | | | | | | | | | | | | | | |
| Bonanza River | eliminated | | | 2010 | 708 | 8,491 | NS | 6,744 | | | | | | | | | | | | | | | | | | |
| Snake River | 1,600 | 2,500 | OEG | 2001 | 4,128 | 8,147 | 1,244 | 891 | 6,973 | 4,343 | 651 | 2,755 | 3,983 | 4,260 | Over | | | | | | | | | | | |
| | 1,600 | 2,500 | SEG | 2005 | | | | | | | | | | | | | | | | | | | | | | |
| Solomon River | eliminated | | | 2010 | 2,062 | 3,469 | NS | 918 | | | | | | | | | | | | | | | | | | |
| Flambeau River | eliminated | | | 2010 | 27,828 | 12,006 | 11,618 | 4,075 | | | | | | | | | | | | | | | | | | |
| Eldorado River | 6,000 | 9,200 | OEG | 2001 | 41,985 | 21,312 | 6,746 | 4,943 | 42,612 | 16,227 | 13,393 | 26,121 | 27,054 | 25,560 | Over | | | | | | | | | | | |
| | 6,000 | 9,200 | SEG | 2005 | | | | | | | | | | | | | | | | | | | | | | |
| Niukluk River | 23,000 | | LB SEG | 2010 | 29,199 | 50,994 | 12,078 | 15,879 | 48,561 | 23,607 | 19,576 | NS | NS | NS | NS | | | | | | | | | | | |
| Kwiniuk River | 11,500 | 23,000 | OEG | 2001 | 39,519 | 27,756 | 9,483 | 8,739 | 71,388 | 31,604 | 5,577 | 5,631 | 39,753 | 37,831 | Over | | | | | | | | | | | |
| | 10,000 | 20,000 | BEG | 2001 | | | | | | | | | | | | | | | | | | | | | | |
| Tubutulik River | 9,200 | 18,400 | OEG | 2001 | NS | 7,045 | NS | 3,161 | 16,097 | 14,127 | NS | NS | NS | 12,714 | Met | | | | | | | | | | | |
| | 8,000 | 16,000 | BEG | 2001 | | | | | | | | | | | | | | | | | | | | | | |
| Unalakleet/Old Woman River | 2,400 | 4,800 | SEG | 2005 | NS | 1,902 | NS | NS | NS | NS | NS | 2,496 | NS | NS | NS | | | | | | | | | | | |

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AYK Region King and Chum Salmon Escapements 2006 - 2015.

Kotzebue Sound

| | | | | | | | | | | | | | | | | |
|----------------------------|---------|---------|-----|------|--------|----|---------|--------|----|----|----|----|---------|----|----|--|
| Kotzebue Sound Aggregate | 196,000 | 421,000 | BEG | 2007 | | | | | | | | | | | | |
| Noatak and Eli Rivers | 42,000 | 91,000 | SEG | 2007 | 39,785 | NS | 270,747 | 69,872 | NS | NS | NS | NS | 453,284 | NS | NS | |
| Upper Kobuk w/ Selby River | 9,700 | 21,000 | SEG | 2007 | 48,750 | NS | 42,622 | 45,155 | NS | NS | NS | NS | 65,653 | NS | NS | |
| Salmon River | 3,300 | 7,200 | SEG | 2007 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| Tutuksuk River | 1,400 | 3,000 | SEG | 2007 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| Squirrel River | 4,900 | 10,500 | SEG | 2007 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |

Note : NA = data not available; NS = no survey; LB SEG = lower-bound SEG.

^a 2012 and 2015 Chena River Chinook salmon escapement estimate includes an expansion for missed counting days based on two DIDSON sonars used to assess Chinook salmon passage.

^b 2011 Salcha River Chinook salmon escapement is based on an aerial survey because high water prevented tower counting most of the season; therefore, aerial survey represents best estimate of escapement for the year.

^c Canadian Yukon River Mainstem Chinook salmon IMEG (Interim Management Escapement Goal) of 42,500-55,000 was implemented for 2010-2015 seasons by the United States and Canada Yukon River Panel. Estimates from 2006-2015 represent escapement after subtraction of Canadian harvest.

^d 2006 Shaktolik River survey is not considered complete as it was conducted well before peak spawn. Survey was rated as acceptable, but the observer noted difficulty enumerating Chinook salmon due to large numbers of pink salmon.

^e Bayesian estimate of drainagewide escapement for Yukon River fall chum salmon. 2014 was the first year of reporting the Bayesian estimate. Bayesian estimates are higher than estimates using the former method because the Kantishna River component is included in the Bayesian analysis.

^f Tanana River fall chum salmon escapement estimated using mark-recapture 1995-2007, then based on relationship to either the Delta River or Mainstem Yukon River escapements from 2008 to present.

^g Sheenjek River sonar project was discontinued in 2013; estimate is based on a linear regression between earlier Sheenjek 2 bank counts and Fishing Branch River weir counts.

^h Fishing Branch River fall chum salmon IMEG of 22,000-49,000 was implemented for 2008-2013 by Yukon River Panel. Weir assessment project no longer operated after 2012; 2013 and 2014 rough estimates based on border sonar estimate minus community harvest assuming most fish migrate to Fishing Branch River.

ⁱ Yukon River Mainstem fall chum salmon IMEG of 70,000-104,000 was implemented for 2010-2015 seasons by Yukon River Panel.