

Submitted by the Alaska Department of Fish and Game at the request of Board Member Payton April 23, 2018

Table 18.—Annual stock composition (%) and stock-specific harvest estimates based on genetic data for Chinook salmon harvested in the Tyonek subsistence set gillnet fishery of Cook Inlet, Alaska, in 2014, 2015, and 2016. Estimates were calculated using a stratified estimator for combined temporal and area strata (see Figure 3). Within each year, sample sizes (n), means, 90% credibility intervals (CI), standard deviation of the proportions (SD), and probability that the stock-specific harvest estimate is greater than or equal to 1 fish ($P \geq 1$) are provided.

Year: 2014 (n=196)	Stock composition (%)				Stock-specific harvest			
	90% CI				90% CI			
Reporting Group	Mean	5%	95%	SD	Mean	5%	95%	$P \geq 1$
<i>NCI Northwest</i>	56.6	25.2	86.3	18.9	403	180	615	1.00
<i>Susitna-Matanuska</i>	39.2	9.9	70.8	18.7	279	71	504	1.00
<i>Knik-Turnagain</i>	2.5	0.0	11.9	4.5	18	0	85	0.64
<i>Kenai Peninsula</i>	1.8	0.0	6.7	2.3	13	0	48	0.69
Harvest represented					712			
Harvest not represented					0			
Total harvest					712			
<hr/>								
Year: 2015 (n=306)	Stock composition (%)				Stock-specific harvest			
	90% CI				90% CI			
Reporting Group	Mean	5%	95%	SD	Mean	5%	95%	$P \geq 1$
<i>NCI Northwest</i>	79.0	66.2	88.9	7.0	733	614	825	1.00
<i>Susitna-Matanuska</i>	11.2	2.7	24.6	6.9	104	26	229	1.00
<i>Knik-Turnagain</i>	9.6	2.0	17.1	4.5	90	19	160	0.99
<i>Kenai Peninsula</i>	0.1	0.0	0.8	0.6	1	0	7	0.10
Harvest represented					929			
Harvest not represented					0			
Total harvest					929			
<hr/>								
Year: 2016 (n=281)	Stock composition (%)				Stock-specific harvest			
	90% CI				90% CI			
Reporting Group	Mean	5%	95%	SD	Mean	5%	95%	$P \geq 1$
<i>NCI Northwest</i>	73.6	57.7	87.3	9.1	579	432	703	1.00
<i>Susitna-Matanuska</i>	18.7	4.9	36.0	9.7	159	32	322	1.00
<i>Knik-Turnagain</i>	7.6	0.5	15.1	4.3	67	4	132	0.97
<i>Kenai Peninsula</i>	0.1	0.0	0.9	0.5	1	0	6	0.14
Harvest represented					805			
Harvest not represented					0			
Total harvest					805			

Note: Stock-specific harvest estimates may not sum to the total harvest represented due to rounding error and their 90% credibility intervals may not include the point estimate for the very low stock-specific harvest numbers because fewer than 5% of iterations had values above zero.

Table 18 of the ADF&G *Genetic Stock Composition of Chinook Salmon Harvested in Northern Cook Inlet Marine Commercial and Subsistence Fisheries, 2014-2016* memo submitted to the board at the February 2017 Upper Cook Inlet Finfish meeting.

