



Advisory Announcement
For Immediate Release: 12/14/2021

CONTACT: M. Birch Foster
Finfish Research Biologist
907-486-1857

Preliminary 2022 Westward Region Salmon Forecasts

Regional research, management, and biometric staff have developed and reviewed the 2022 run forecasts for pink and sockeye salmon stocks in Region IV. This is an early release for Region IV forecasts, and numbers should be considered preliminary until inclusion in the annual statewide document to be released in early 2022.

Total run forecasts are shown in Tables 1 and 2 as point estimates and ranges. The ranges are 80% prediction intervals, meaning that we have 80% confidence that the actual 2022 run will fall within this range. Estimated escapements are subtracted from the total run forecasts to yield estimated 2022 harvests; these harvest estimates are shown as point estimates for pink and sockeye salmon. Pink salmon (as well as Spiridon sockeye salmon) harvests are also reported as 80% ranges. Confidence in each forecast varies based on data relationships in the underlying models. Full methods and discussion will be included in the statewide document.

Table 1.—Point estimate and ranges of preliminary 2022 Region IV pink salmon forecasts.

PINK				
Stock	Escapement goal (millions)	2022 run	Point estimate (millions)	Range (millions)
Kodiak Management Area	SEG: 3.25–8.0	Wild stock total run forecast	19.9	12.6–27.2
	Even-year, Mainland and Kodiak Archipelago combined	Wild stock escapement	5.0	
		Wild stock harvest estimate	14.9	7.6–22.2
		Kitoi Bay hatchery harvest	4.5	3.3–5.7
		Total KMA harvest estimate	19.4	10.9–27.9
		Harvest category ^a	<i>Average</i>	
South Alaska Peninsula	SEG: 1.75–4.0	Total run forecast ^b	3.2	0.5–9.9
		Escapement	1.75	
		Post-June harvest estimate	1.4	0.0–5.9
		Harvest category ^a	<i>Weak</i>	

^a Harvest categories were delimited from the 20th, 40th, 60th, and 80th percentiles of historical commercial harvest in the area (~1988 to present) and categorized as *Poor*, *Weak*, *Average*, *Strong*, and *Excellent* combining both wild stock and hatchery.

^b Post-June harvest and escapement. The 5-year (even-year) average harvest of pink salmon in June is 1.0 million fish.

Table 2.—Point estimate and ranges of preliminary 2022 Region IV sockeye salmon forecasts.

SOCKEYE				
Stock	Escapement goal (thousands)	2022 run	Point estimate (thousands)	Range (thousands)
Spiridon Lake/ Telrod Cove	NA	Spiridon Run	129	41–216
		Telrod Run	64	20–107
		Harvest estimate	192	61–323
Ayakulik	SEG (early and late runs combined): 200–400	Forecast	1,170	802–1,559
		Escapement	400	200–400
		Harvest estimate	770	
Early-run Karluk	BEG: 150–250	Early-run forecast	251	144–450
		Early-run escapement	200	150–250
		Early-run harvest estimate	51	
Late-run Karluk	BEG: 200–450	Late-run forecast	927	508–1,285
		Late-run escapement	325	200–450
		Late-run harvest estimate	602	
Total Karluk		Total Karluk run forecast	1,178	652–1,735
		Total Karluk escapement	525	350–700
		Total Karluk harvest estimate	653	
Early-run Upper Station	BEG: 43–93	Early-run forecast	195	112–359
		Early-run escapement	93	43–93
		Early-run harvest estimate	102	
Late-run Upper Station	BEG: 120–265	Late-run forecast	487	283–817
		Late-run escapement	186	120–265
		Late-run harvest estimate	301	
Frazer Lake	BEG: 75–170	Forecast	437	228–637
		Escapement (Dog Salmon Crk) ^a	190	95–190
		Harvest estimate	247	
Total Alitak District		Total Alitak run forecast	1,119	623–1,813
		Total Alitak escapement	469	258–548
		Total Alitak harvest estimate	650	

-continued-

Table 2.–Page 2 of 2.

SOCKEYE

Stock	Escapement goal (thousands)	2022 run	Point estimate (thousands)	Range (thousands)
Early-run Chignik	BEG: 350–450	Early-run forecast	639	278–1,469
		Early-run escapement	400	350–450
		Early-run harvest estimate	239	
Late-run Chignik	SEG: 200–400	Late-run forecast	633	267–1,195
		Late-run escapement ^b	310	220–400
		Late-run harvest estimate	323	
Total Chignik		Total Chignik run forecast	1,272	545–2,644
		Total Chignik escapement	710	570–850
		Total Chignik harvest estimate ^c	562	
Nelson River	BEG: 97–219	Forecast	285	92–493
		Escapement	158	97–219
		Harvest estimate	127	
Late-run Bear Lake	BEG: 117–195	Late-run forecast	394	225–692
		Late-run escapement	156	117–195
		Late-run harvest estimate	238	

^a The Frazer Lake escapement goal (75,000–170,000) is increased here by an additional 20,000 fish, which is the 20-year median of the number of fish that escape the Dog Salmon weir but do not ascend the Frazer Lake fish pass.

^b Harvest represents the midpoint of the escapement goal. An inriver run goal of 20,000 sockeye salmon is added to the lower bound of the late-run escapement goal.

^c A harvestable surplus of Chignik River system sockeye salmon is forecast to be below 600,000 fish in the Chignik Area, therefore, as outlined in regulations 5 AAC 09.360 and 5 AAC 18.360, no commercial fisheries are anticipated in the SW and East Stepovak sections (June 1–July 25), NW Stepovak Section (June 1–June 30) and Cape Igvak Section (June 1–July 5) regulatory timeframes.