



**Advisory Announcement**  
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**Preliminary 2021 Westward Region Salmon Forecasts**

Regional research, management, and biometric staff have developed and reviewed the 2021 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 2021.

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 2021 run will fall within this range. Estimated escapements are subtracted from the total run forecasts to yield estimated 2021 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 2021 Region IV pink salmon forecasts.**

PINK				
Stock	Escapement goal (millions)	2021 run	Point estimate (millions)	Range (millions)
Kodiak Management Area	SEG: 2.3–6.0	Wild stock total run forecast	16.6	9.1–24.2
	Odd Year, Mainland and Kodiak Archipelago combined	Wild stock escapement	5.0	
		Wild stock harvest estimate	11.6	4.1–19.2
		Kitoi Bay hatchery harvest	10.9	8.1–13.7
		Total KMA harvest estimate	22.5	12.2–32.8
		Harvest category <sup>a</sup>	<i>Strong</i>	
South Alaska Peninsula	SEG: 1.75–4.0	Total run forecast <sup>b</sup>	16.9	7.8–32.1
		Escapement	4.0	
		Post-June harvest estimate	12.9	3.8–28.1
		Harvest category <sup>a</sup>	<i>Excellent</i>	

<sup>a</sup> Harvest categories were delimited from the 20th, 40th, 60th, and 80th percentiles of historical commercial harvest in the area (~1980 to present) and categorized as *Poor*, *Weak*, *Average*, *Strong*, and *Excellent* combining both wild stock and hatchery.

<sup>b</sup> Post-June harvest and escapement. The 5-year (odd-year) average harvest of pink salmon in June is 2.5 million fish.

**Table 2.—Point estimate and ranges of preliminary 2021 Region IV sockeye salmon forecasts.**

SOCKEYE				
Stock	Escapement goal (thousands)	2021 run	Point estimate (thousands)	Range (thousands)
Spiridon Lake/ Telrod Cove	NA	Spiridon Run	93	46–141
		Telrod Run	83	42–125
		Harvest estimate	177	88–265
Ayakulik	SEG (early and late runs combined): 200–400	Forecast	801	613–1,088
		Escapement	300	200–400
		Harvest estimate	501	
Early-run Karluk	BEG: 150–250	Early-run forecast	192	84–395
		Early-run escapement	150	150–250
		Early-run harvest estimate	42	
Late-run Karluk	BEG: 200–450	Late-run forecast	739	361–1,135
		Late-run escapement	325	200–450
		Late-run harvest estimate	414	
Total Karluk		Total Karluk run forecast	931	445–1,529
		Total Karluk escapement	475	350–700
		Total Karluk harvest estimate	456	
Early-run Upper Station	BEG: 43–93	Early-run forecast	70	37–124
		Early-run escapement	65	43–93
		Early-run harvest estimate	5	
Late-run Upper Station	BEG: 120–265	Late-run forecast	306	175–422
		Late-run escapement	186	120–265
		Late-run harvest estimate	120	
Frazer Lake	BEG: 75–170	Forecast	190	0–467
		Escapement (Dog Salmon Crk) <sup>a</sup>	137	95–190
		Harvest estimate	53	
Total Alitak District		Total Alitak run forecast	566	212–1,013
		Total Alitak escapement	388	258–548
		Total Alitak harvest estimate	178	

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**Table 2.–Page 2 of 2.**

**SOCKEYE**

Stock	Escapement goal (thousands)	2021 run	Point estimate (thousands)	Range (thousands)
Early-run Chignik	BEG: 350–450	Early-run forecast	437	145–1,320
		Early-run escapement	400	350–450
		Early-run harvest estimate	37	
Late-run Chignik	SEG: 200–400	Late-run forecast	438	37–1,042
		Late-run escapement <sup>b</sup>	310	220–400
		Late-run harvest estimate	128	
Total Chignik		Total Chignik run forecast	875	182–2,362
		Total Chignik escapement	710	570–850
		Total Chignik harvest estimate <sup>c</sup>	165	
Nelson River	BEG: 97–219	Forecast	333	137–546
		Escapement	158	97–219
		Harvest estimate	175	
Late-run Bear Lake	BEG: 117–195	Late-run forecast	363	94–684
		Late-run escapement	156	117–195
		Late-run harvest estimate	207	

<sup>a</sup> 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.

<sup>b</sup> 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.

<sup>c</sup> 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.