

**COWLITZ, KALAMA, LEWIS ADULT SPRING CHINOOK  
2020 FORECASTS AND RETURNS, AND  
2021 RUN FORECASTS**

River	2020 Tributary Forecast	2020 Tributary Return	2020 Columbia River Return	2021 Columbia River Forecast	2021 Tributary Forecast
Cowlitz	1,400	908	908	1,800	1,777
Kalama	1,000	1,215	1,215	2,200	2,133
Lewis	1,400	1,836	1,874	2,400	2,283
Total	3,800	3,959	3,997	6,400	6,193

\*Tributary forecasts and returns are to the tributary mouths; Columbia River return and forecast is to the Columbia River mouth.

\*\*The Columbia River forecast numbers are rounded to the nearest 100s place, which is consistent with TAC protocol.

- The 2021 spring Chinook forecast for the Cowlitz River is twice the 2020 actual return.
- The 2021 spring Chinook forecast for the Kalama River is similar to the recent 5-year average return of 2,400.
- The 2021 spring Chinook forecast for Lewis River is 20% higher than the recent 5-year average return of 1,800.
- Ocean conditions between 2015 and 2019 were among the worst observed during the last 20 years and have likely had a strong influence on the Spring Chinook cohorts that will return to these tributaries in 2021. For more information on historical ocean conditions, refer to <https://www.fisheries.noaa.gov/west-coast/science-data/ocean-ecosystem-indicators-pacific-salmon-marine-survival-northern>.