



Scott and Shasta River Juvenile Salmonid Outmigration Monitoring

In-Season Update

June 17, 2022

Since 2001, the California Department of Fish and Wildlife has operated rotary screw traps on the Scott and Shasta Rivers to estimate abundances of outmigrating Chinook Salmon (*Oncorhynchus tshawytscha*), Coho Salmon (*Oncorhynchus kisutch*) and rainbow trout/steelhead (*Oncorhynchus mykiss*). The Scott River rotary screw traps (RST) are located approximately 7 river kilometers (RK) upstream from the confluence with the Klamath River, while the Shasta River RST is located approximately 0.2 RK from the confluence with the Klamath River. The data presented below is preliminary and subject to revision.

The Shasta River RST operated from January 13 to June 10. Mark-recapture trials were conducted on age 0+ Chinook Salmon and age 1+ Coho Salmon, allowing for a preliminary population estimate. An estimated **1,497,650 age 0+ Chinook Salmon** outmigrated from the Shasta River (Figure 1). An estimated **2,378 age 1+ Coho Salmon** outmigrated from the Shasta River (Figure 2).

The raw catch at the Shasta RST was as follows:

Chinook Salmon		Coho Salmon		<i>Oncorhynchus mykiss</i>			
Age 0+	Age 1+	Age 0+	Age 1+	Age 0+	Age 1+	Age 2+	Age 3+
380,365	31	245	549	7,697	152	3,769	282

Raw catch numbers are not population estimates.

The Scott River 8-foot RST has been operational since January 26, 2022. The 5-foot RST has been operational since February 7, 2022. Mark-recapture trials have been conducted on age 0+ Chinook Salmon and age 1+ Coho Salmon, allowing for a preliminary population estimate. An estimated **444,432 age 0+ Chinook Salmon** have outmigrated from the Scott River (Figure 3). An estimated **81,303 age 1+ Coho** have outmigrated from the Scott River (Figure 4).

The raw catch from **both** Scott RST's is as follows:

Chinook Salmon		Coho Salmon		<i>Oncorhynchus mykiss</i>			
Age 0+	Age 1+	Age 0+	Age 1+	Age 0+	Age 1+	Age 2+	Age 3+
29,931	67	546	1,744	9,931	1,497	297	15

Raw catch numbers are not population estimates.

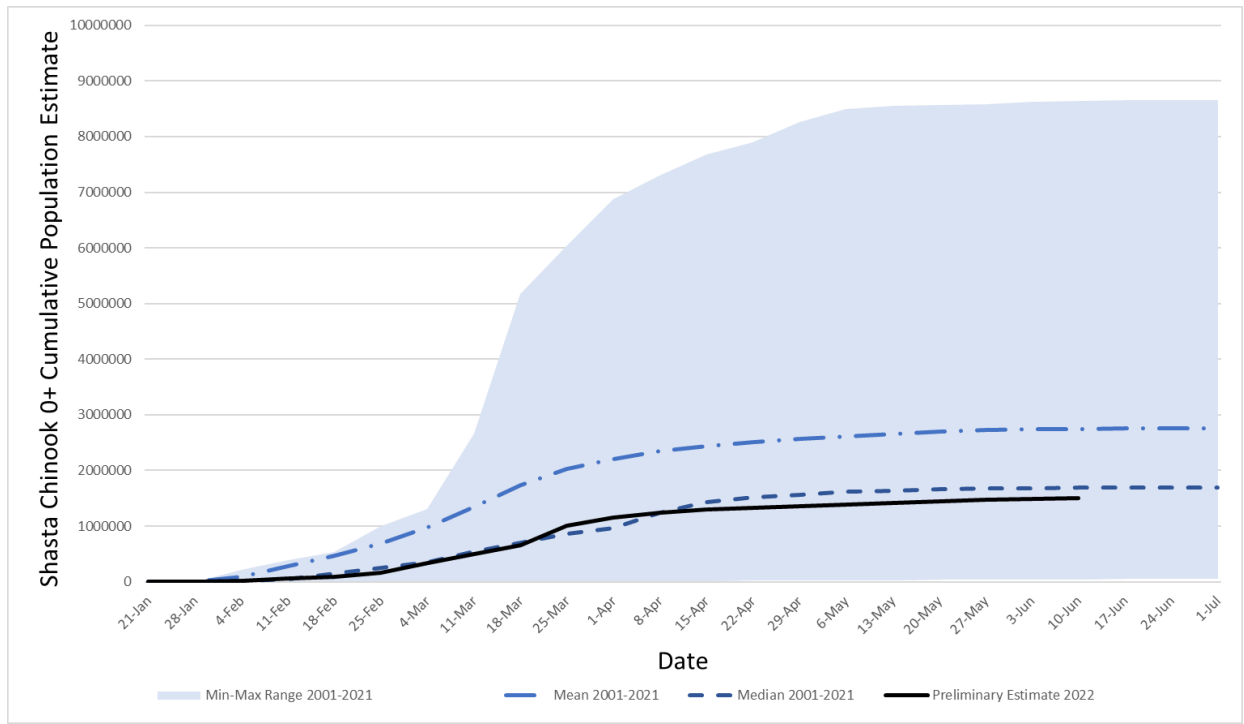


Figure 1. 2022 preliminary population estimates for Chinook Salmon age 0+ at the Shasta RST compared to historical mean, median, and min-max range.

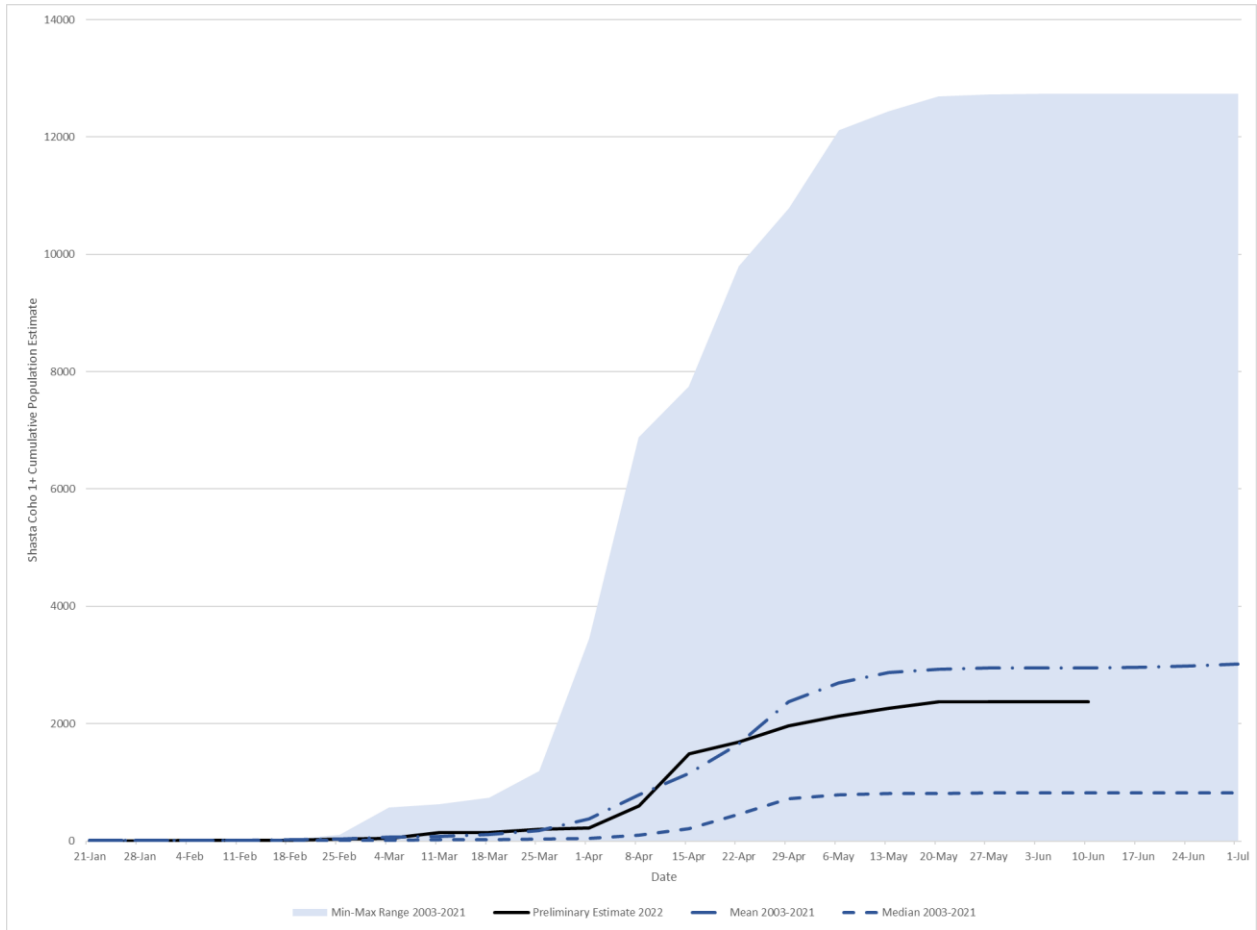


Figure 2. 2022 preliminary population estimates for Coho Salmon age 1+ at the Shasta RST compared to historical mean, median, and min-max range.

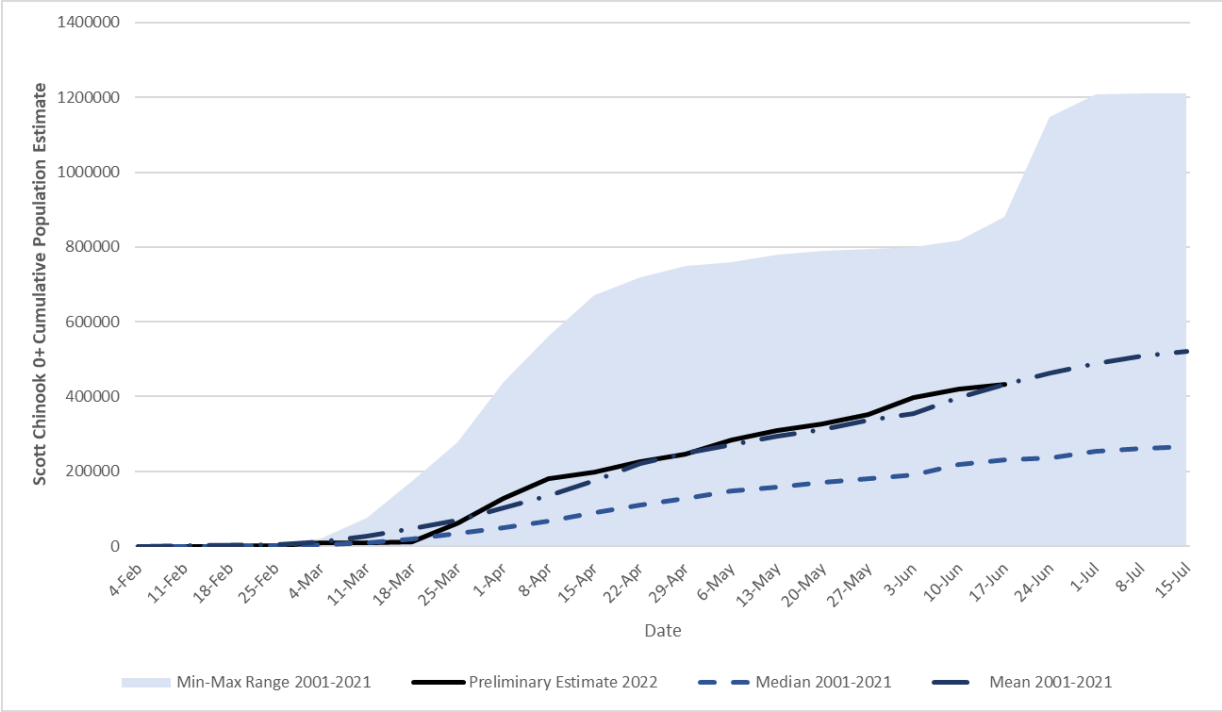


Figure 3. 2022 preliminary population estimates for Chinook Salmon age 0+ at the Scott RST compared to historical mean, median, and min-max range.

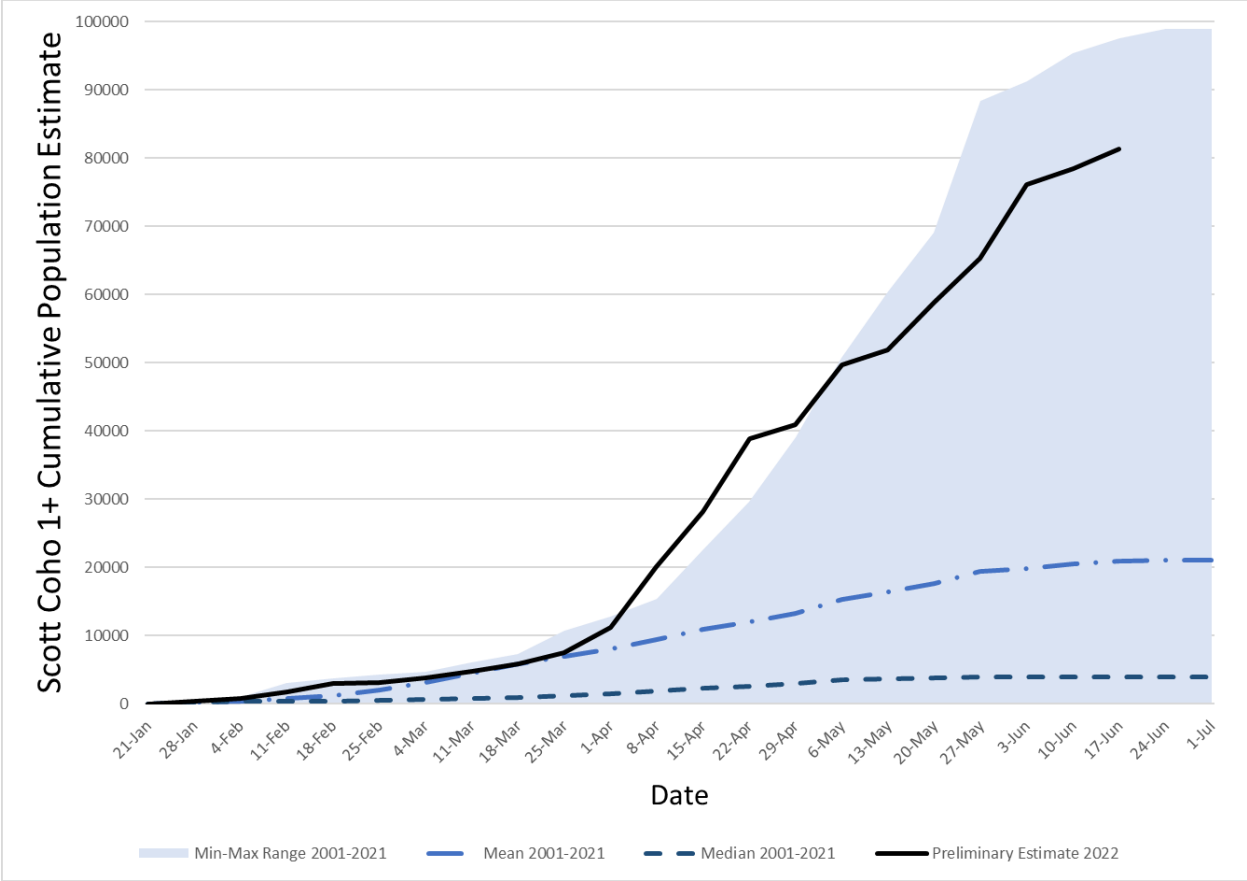


Figure 4. 2022 preliminary population estimates for Coho Salmon age 1+ at the Scott RST compared to historical mean, median, and min-max range.