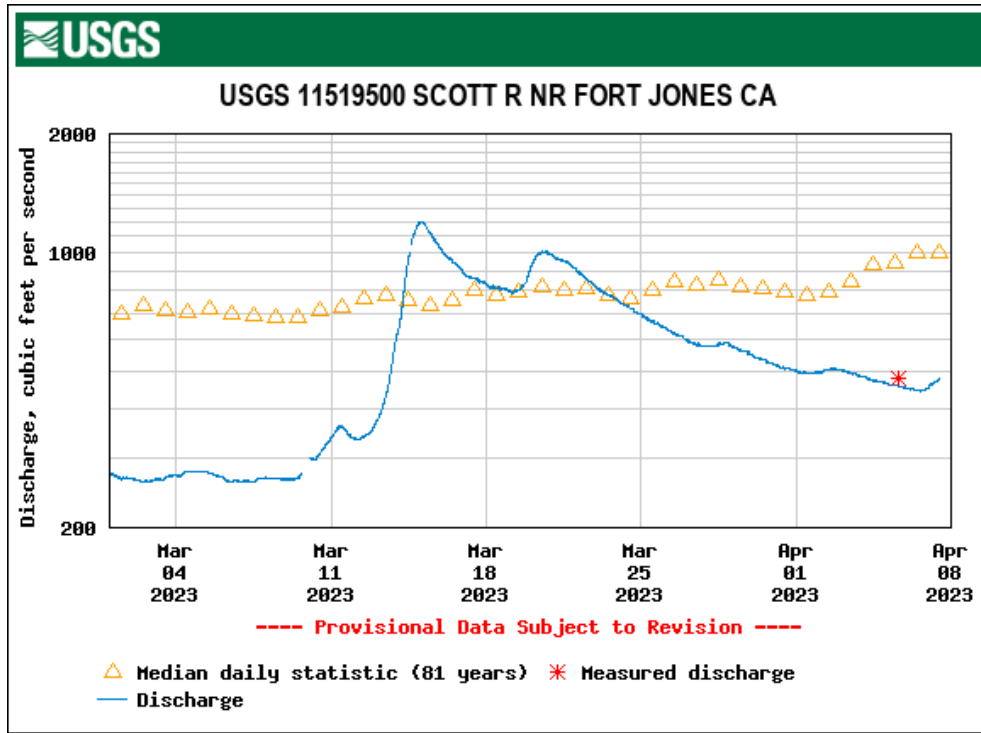


SCOTT RIVER WATERSHED CONDITIONS
 Water Year 2023 (10/1/22 to 9/30/23)
WEEK OF APRIL 7, 2023

SCOTT RIVER FLOW: 474 cubic feet per second (cfs) as of 4/7/23



TODAY'S STATISTICAL DATA for Scott River USGS Gage – 4/7/23

Daily discharge, cubic feet per second -- statistics for Apr 7 based on 81 water years of record [more](#)

Min (1977)	Most Recent Instantaneous Value Apr 7	25th percentile	Median	Mean	75th percentile	Max (2018)
52.0	474	521	1000	1030	1360	2960

Median is a measurement indicating that ½ of the flows recorded for that date were above this level, while ½ were below. In comparison, **mean** flow indicates the average figure for the date, which can be skewed by historic extreme high and low discharge events.

SCOTT RIVER & TRIBUTARY FLOW CONNECTIONS: CDFW survey of 4-3-23

Scott River Mainstem: Connected Tributaries: Connected Northeast Tribs: Mostly connected

SCOTT RIVER WATERSHED CONDITIONS

Water Year 2023 (10/1/22 to 9/30/23)

WEEK OF APRIL 7, 2023

PRECIPITATION: California Data Exchange Center (CDEC)

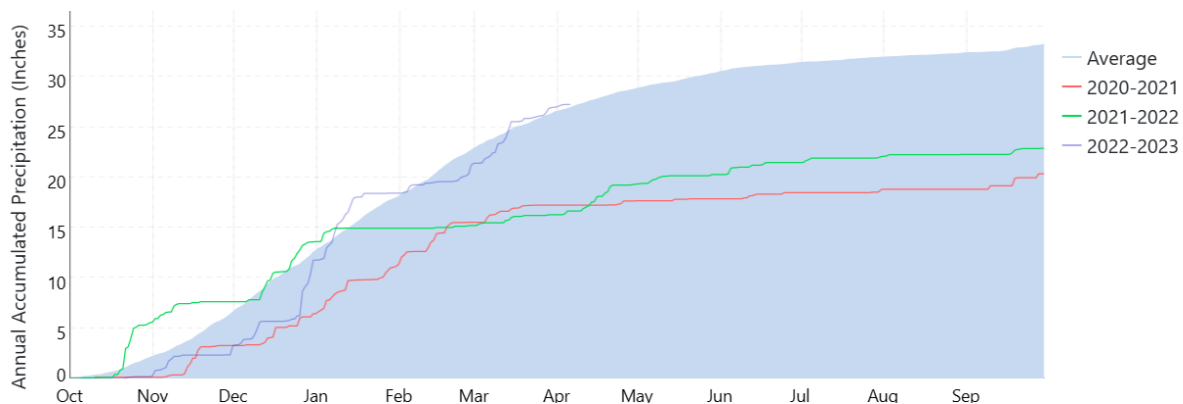
Oct. 1, 2022 through Feb. 28, 2023 Period - By Month – March Totals not yet added in

Note that the south end of the valley (Callahan) has been higher than north end (Fort Jones) for this period.

KLAMATH RIVER		OCT	NOV	DEC	JAN	FEB	OCT-FEB
CALLAHAN	Precip	0.00	1.41	9.03	7.91	2.87	21.22
	Average	1.36	2.32	3.95	3.46	2.78	13.87
	%-avg	0%	61%	229%	229%	103%	153%
FORT JONES RS	Precip	0.04	1.21	4.85	4.33	1.38	11.81
	Average	1.22	2.43	4.16	3.79	2.59	14.19
	%-avg	3%	50%	117%	114%	53%	83%

<https://cdec.water.ca.gov/reportapp/javareports?name=PRECIPOUT>

Scott Valley Precipitation Comparison, Oct. 1, 2020- April 5, 2023



<https://cww.water.ca.gov/info?address=96032>

APRIL 2023 Precipitation: Drought.gov

Fort Jones - Total 7-day precipitation: 0.39 in. Decrease of 61% since last week. Data Valid: 04/05/2023

<https://www.drought.gov/location/96032>

SNOW WATER CONTENT:

US FOREST SERVICE – KLAMATH NATIONAL FOREST – April 1st Snow Survey*

SCOTT RIVER WATERSHED CONDITIONS

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California Cooperative Snow Survey <http://cdec.water.ca.gov/snow/current/snow/index.html>

Snow Course	Elev.	Snow Water Equivalent								
		Feb 1 2023	Feb. 1 Ave.	Feb 1 %	Mar 1 2023	Mar 1 Ave.	Mar 1 % ave	Apr 1 2023	Apr 1 Ave.	Apr 1 %
Middle Boulder 1	6600'	33.1"	19.0"	174%	nd		nd	45.0"	29.3	154%
Middle Boulder 3	6200'	27.0"	17.4"	155%	nd		nd	48.0"	26.9	178%
Dynamite Meadow	5700'	17.0"	12.1"	140%	nd		nd	32.0"	16.1	199%
Swampy John	5500'	14.2"	18.8"	76%	17.2"	24.1"	71%	32"	24.2	132%
Etna Mtn	5900'	13.5"	13.7"	99%	nd		nd	35"	20.5	171%
Total Average		129%			nd			167%		

nd = no data, due to inability to access the sites; *only Box Camp site was not able to be accessed.

SCOTT MOUNTAIN Snow Water Content – <https://cdec.water.ca.gov/webgis/?appid=cdecstation>

DROUGHT CONDITION



National Integrated Drought Information System
Drought.gov

Scott Valley continued in **Moderate Drought (D1)** category as of 4/6/23. Etna & Fort Jones have been in drought for the past 161 weeks, since March 03, 2020 (3 years) **“and drought removal is likely over the next month.”**

TEMPERATURE

Temperature range (Fort Jones): 11°F to 61°F ; average for month = 35.9 °F (March 2023)
<https://www.weather.gov/wrh/Climate?wfo=mfr>

Fort Jones - Avg. 7-day max temperature: 51° F. Decrease of 48% since last week.

Scott Watershed as of 04/05/2023

Mean Temp: **29.91 °F** % of Average: **69%**
<https://cww.water.ca.gov/info?address=96032>

SCOTT RIVER WATERSHED CONDITIONS

Water Year 2023 (10/1/22 to 9/30/23)

WEEK OF APRIL 7, 2023

CALIFORNIA IRRIGATION MANAGEMENT INFORMATION SYSTEM <https://cimis.water.ca.gov/>

CIMIS -- Scott Valley - Northeast Plateau - Station 225 – Month of March 2023

Month Year	Total ETo (in)	Total Precip (in)	Avg Sol Rad (Ly/day)	Avg Vap Pres (mBars)	Avg Max Air Temp (°F)	Avg Min Air Temp (°F)	Avg Air Temp (°F)	Avg Max Rel Hum (%)	Avg Min Rel Hum (%)	Avg Rel Hum (%)	Avg Dew Point (°F)	Avg Wind Speed (mph)	Avg Soil Temp (°F)
Mar 2023	2.18 K	2.94 K	318 K	5.1 K	47.1 K	22.5 K	34.3 K	97 K	51 K	75 L	27.8 L	4.3 K	39.3 L
Tots/Avg	2.18	2.9	318	5.1	47.1	22.5	34.3	97	51	75	27.8	4.3	39.3

WEATHER GRAPHICS

Center for Western Weather and Water Extremes – U.C. San Diego, Scripps Institute of Oceanography

https://cw3e.ucsd.edu/DSMaps/DS_intro.html

<https://cw3e.ucsd.edu/Projects/QPF/QPF.html>

FISH POPULATION ESTIMATES: from CA Dept. of Fish and Wildlife (CDFW)

2023 JUVENILE SALMONID OUTMIGRANTS – CDFW reports: “The Scott 8 ft. rotary screw trap (RST) began sampling on 2/21/2023. The Scott 5 ft. RST is not operational for 2023 due to staffing shortages...Raw data on catch, by species and age, will need to be extrapolated to population estimates once sufficient data on the RST efficiency is obtained. This trap is located near the mouth of the Scott River.”

► No fish collected at the RST the week of March 11-18 (Julian Week 11) due to high flow threat at trap.

Mark Recapture Population Estimates as of April 1, 2023:

“When data are sufficient, weekly trap efficiencies are reported here, otherwise, the season -to-date trap efficiency is used to generate the 7-day estimate if a seasonal average cannot yet be calculated. Total season-to-date trap efficiencies are calculated by dividing the total recaptures to date by the total released to date.

1. Mark-recapture trials have not yet been conducted on age 0+ Chinook Salmon or 0+ Coho Salmon.
2. Mark-recapture trials have been conducted on age 1+ Coho Salmon. Due to low catch and no age 1+ Coho recaptures this week, the total season-to-date trap efficiency was used to calculate the preliminary population estimate (Carlson et al. 1998) for age 1+ Coho of 322 for JW13.
 - Year to date, age 1+ Coho Salmon trap efficiency is 4% with an estimated **3,379 age 1+ Coho Salmon** total having outmigrated from the Scott River.
3. Limited mark-recapture trials have begun for age 1+ Chinook and age 2+ steelhead trout.”

SCOTT RIVER WATERSHED CONDITIONS
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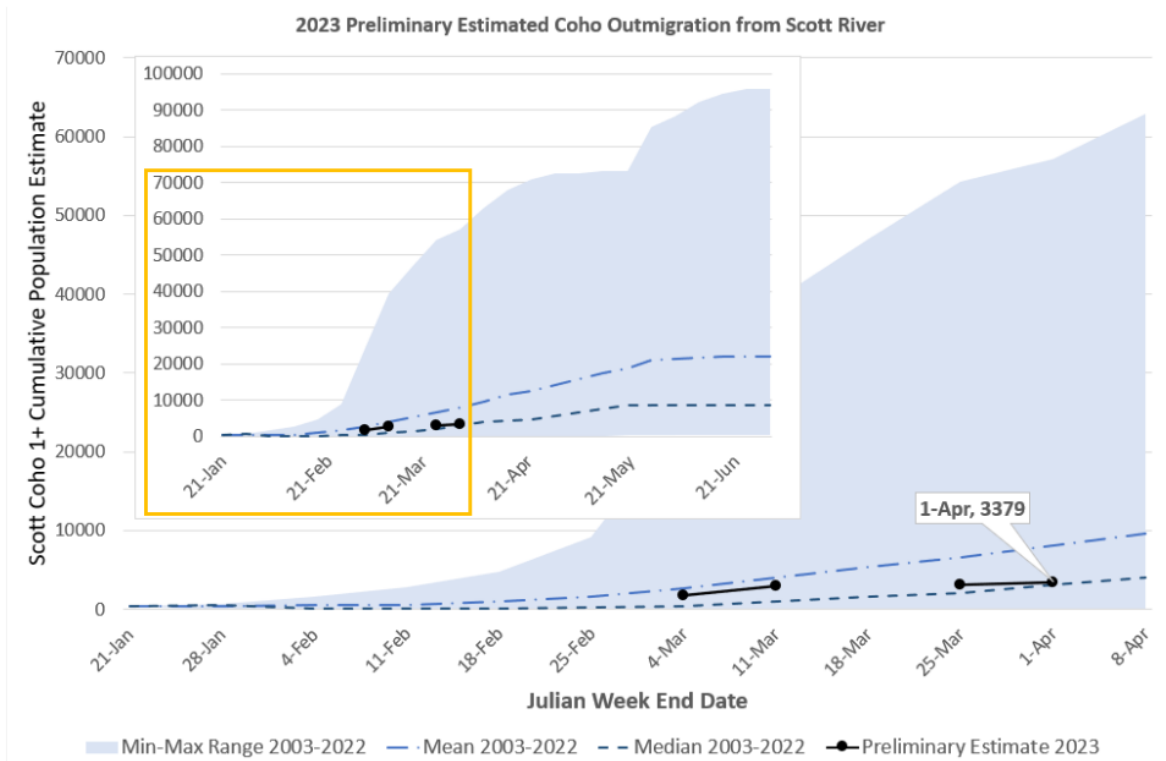


Figure 4. 2023 preliminary population estimates for Coho Salmon age 1+ at the Scott RST compared to 2003-2022 mean, median, and min-max range. For weeks with no recaps, the season-to-date total recapture rate is used for calculating preliminary population estimates.

2022 ADULT SALMON SPAWNERS: Data from CDFW Fish Counting Facility

Update on 2022 adult Chinook estimated in the Scott River, including below the weir: 994 total.

“The Scott River station was operational on September 29, 2022 and 72 adult Chinook Salmon and 236 Coho Salmon have been observed through December 26, 2022 (when video weir was removed due to high flows). The Scott River station is 18 miles upstream of the confluence with the Klamath River. During Fall 2022, a significant number of Chinook Salmon spawned downstream of the counting station and were estimated during spawning ground surveys. This in-season update doesn’t report the spawning escapement that is observed downstream of the Scott River adult fish counting station. Final reports detailing the total escapement to the Scott River will be available when the data is finalized.”