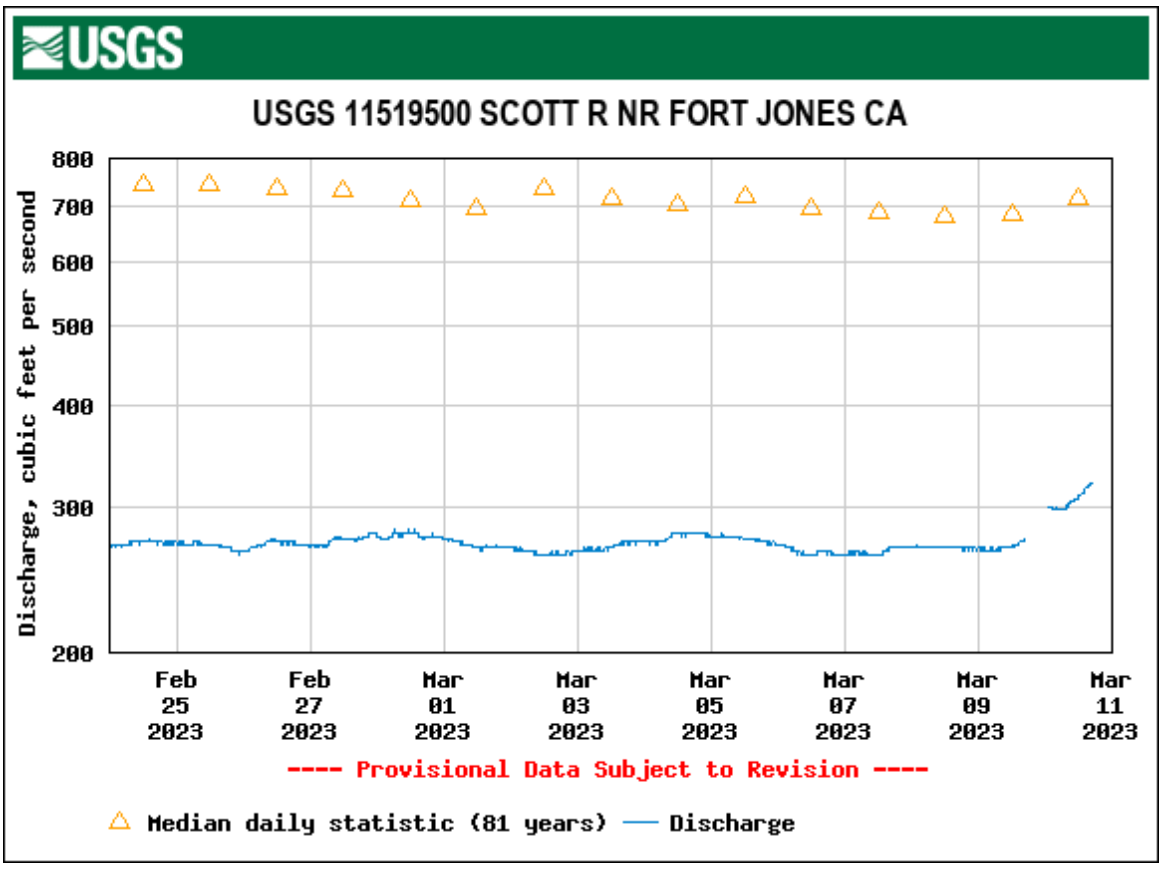
SCOTT RIVER WATERSHED CONDITIONS

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

WEEK OF MARCH 10, 2023

SCOTT RIVER FLOW: 318 cubic feet per second (cfs) as of 3/10/23



TODAY'S STATISTICAL DATA for Scott River USGS Gage – 3/3/23

Daily discharge, cubic feet per second -- statistics for Mar 10 based on 81 water years of record more

Min (1977)	Most Recent Instantaneous Value Mar 10	25th percen-tile	Median	Mean	75th percen-tile	Max (1989)
108	318	481	715	1080	1270	5230

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.

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PRECIPITATION: California Data Exchange Center (CDEC)

Oct. 1, 2022 through Feb. 28, 2023 Period - By Month

Note that the south end of the valley (Callahan) has been above average for precipitation up through January while the north end (Fort Jones) has been below average for this period.

KLAMATH RIVER		**OCT**	**NOV**	**DEC**	**JAN**	**FEB**	***OCT-FEB***
CALLAHAN	Precip	0.00	1.41	9.03	7.91	---	---
	Average	1.36	2.32	3.95	3.46	2.78	13.87
	%-avg	0%	61%	229%	229%	---	---
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

MARCH 2023 Precipitation by Week: Drought.gov
Fort Jones: Total 7-day precipitation: 0.74 in. Decrease of 87% since last week.
Data Valid: 03/09/2023
https://www.drought.gov/location/96032

Scott Mountain: 36.58" precip to date
https://cdec.water.ca.gov/reportapp/javareports?name=DLYPCP

SNOW WATER CONTENT:

US FOREST SERVICE – KLAMATH NATIONAL FOREST – March 1st Snow Survey

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

		Snow Water Equivalent					
Snow Course	**Elev.**	**Feb. 1 2023**	**Feb. 1 Ave.**	**Feb. 1 % Ave.**	**Mar. 1 2023**	**Mar. 1 Ave.**	**Mar. 1 % Ave.**
Middle Boulder 1	6600'	33.1"	19.0"	174%	nd		nd
Middle Boulder 3	6200'	27.0"	17.4"	155%	nd		nd
Dynamite Meadow	5700'	17.0"	12.1"	140%	nd		nd

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		Snow Water Equivalent					
Snow Course	**Elev.**	**Feb. 1 2023**	**Feb. 1 Ave.**	**Feb. 1 % Ave.**	**Mar. 1 2023**	**Mar. 1 Ave.**	**Mar. 1 % Ave.**
Swampy John	5500’	14.2”	18.8”	76%	17.2”	24.1”	71%
Scott Mountain	5900’	13.5”	13.7”	99%	nd		nd
Total Average		**129%**			nd		

nd = no data, due to inability to access the sites.

“Surveyors at Swampy John below Etna Pass found much new snow, albeit readily compressed, which made for a lower-than-expected Snow Water Equivalent (SWE, a measure of water content) despite the excellent snow height (snow depth). Historically, snowpack reaches its annual maximum by late-March / early-April.” - US Forest Service News Release, Mar. 6, 2023

SCOTT MOUNTAIN – Snow Depth = nd Water Content = 13.8” on 3/10/23

MIDDLE BOULDER 3: Snow Depth = 128” on 3/10/23

https://cdec.water.ca.gov/jspplot/jspPlotServlet.jsp?sensor_no=1401&end=03%2F03%2F2023+17%3A30&geom=huge&interval=7&cookies=cdec01

https://cdec.water.ca.gov/reportapp/javareports?name=DLYSNOWDP

DROUGHT CONDITION

National Integrated Drought Information System
Drought.gov

Scott Valley remains in **Severe Drought (D2).** Etna & Fort Jones have been in drought for the past 157 weeks, since March 03, 2020 – **3 years.**
96027, Etna, California is currently in Severe Drought (D2), according to the U.S. Drought Monitor, and **conditions are expected to persist** over the next month.

6th driest year to date over the past 128 years (January-December 2022) for Siskiyou County.

The state has had four periods of persistent drought this century — 2001-04, 2007-09, 2012-16 and the current one. Between each of these droughts there were only a few years of wet weather.
https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?fips_06093

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TEMPERATURE

Temperature range (Fort Jones): 14 F to 65 F (for month of February 2023)
https://www.weather.gov/wrh/Climate?wfo=mfr

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

2022 ADULT SALMON SPAWNERS: Data from CDFW Fish Counting Facility

Update on 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."

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.