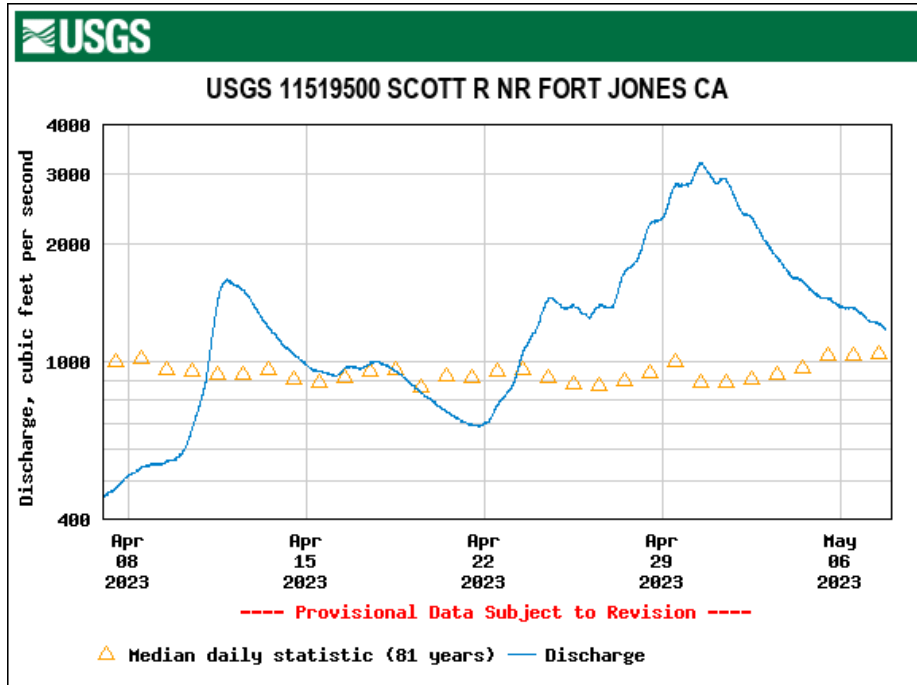


SCOTT RIVER WATERSHED CONDITIONS

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

WEEK OF MAY 7, 2023

SCOTT RIVER FLOW: 1,210 cubic feet per second (cfs) as of 5/7/23



TODAY'S STATISTICAL DATA for Scott River USGS Gage – May 7th

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

Min (1977)	25th percentile	Median	Mean	Most Recent Instantaneous Value May 7	75th percentile	Max (1974)
108	612	1050	1090	1210	1510	2790

https://waterdata.usgs.gov/nwis/uv?site_no=11519500&legacy=1

SCOTT RIVER RUNOFF FORECAST:

CA Dept. of Water Resources: 191,000 acre-feet, or 116% of average, for April-July 2023.

B-120 Water Supply Forecast Summary for Unimpaired Flow, 4-10-23 [CDEC]

CA-NV River Forecast Center [CNRFC]

ESP Water Supply Seasonal Forecast Issuance: May 7 2023; Forecast Period: Apr - Jul 2023

Median Forecast Volume: 234,400 acre-feet Percent of Mean: 143% Percent of Median: 155%

Mean seasonal flow: 164,000 acre-feet

<https://www.cnrfc.noaa.gov/index.php?product=espcst&zoom=11&lat=41.633&lng=-122.961&MAJORRIVERS=true&BASINS=true>

SCOTT RIVER WATERSHED CONDITIONS

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

WEEK OF MAY 7, 2023

SCOTT RIVER & TRIBUTARY FLOW CONNECTIONS: CDFW survey of 4-30-23

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

PRECIPITATION: California Data Exchange Center (CDEC)

Oct. 1, 2022 through Mar. 31, 2023 Period [no April data reported yet; Manual stations]

Fort Jones Ranger Station: OCT-MAR = 16.50" Ave = 16.29" % Ave = 101%

Callahan Ranger Station: No data reported for March yet [21.2" for Oct-Feb]

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

Fort Jones: Total 7-day precipitation: 1.19 in. (as of 5/6)

Scott Watershed as of 05/06/2023 <https://cww.water.ca.gov/info?address=96032>

Water Year to Date: 29.31" % of Average: 101%

SCOTT MOUNTAIN by USBR (automatic station) 5900 ft. elev. 0.66" month to date
45.88" WY as of 4/7

SNOW WATER CONTENT:

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

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

Snow Course	Elev.	Apr 1 Ave.	Apr 1 % of Apr. 1	May 1 % of Apr. 1	May 1 % of May 1
Middle Boulder 1	6600'	29.3"	154%	147%	
Middle Boulder 3	6200'	26.9"	178%	130%	
Dynamite Meadow	5700'	16.1"	199%	43%	
Swampy John	5500'	24.2"	132%	120%	
Etna Mtn	5900'	20.5"	171%	146%	
Total Average			167%	117%	168%

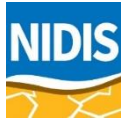
*April 1 averages are based on measurements made during years 1991-2020

SCOTT RIVER WATERSHED CONDITIONS

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

WEEK OF MAY 7, 2023

DROUGHT CONDITION: for Fort Jones 96032



National Integrated Drought Information System

Drought.gov

U.S. Drought Monitor

05/02/2023 - Updated Weekly

Precipitation (60 day)

05/06/2023 - Updated Weekly

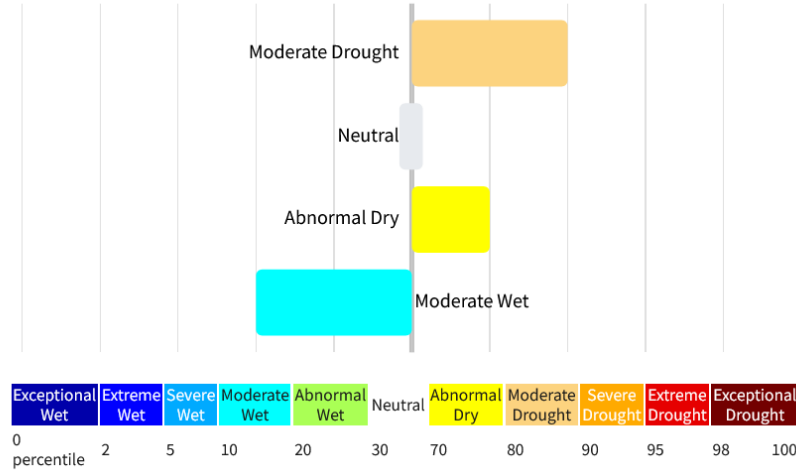
Palmer Drought Severity Index

04/30/2023 - Updated Weekly

Streamflow (Closest Ranked Gauge)

05/07/2023 - Updated Daily

For maps and detailed analysis, visit the [Climate Toolbox Water Watcher](#)



<https://www.cnrfc.noaa.gov/ol.php?product=PNS&product2=hucPrecipSeasonal&zoom=9&lat=41.774&lng=-122.934>

TEMPERATURE

Fort Jones: Avg. 7-day max temperature: 68° F. Decrease of 59% since last week.

Data Valid: 05/06/2023

Scott Watershed as of 04/15/2023

Mean Temp: **43.2 °F**

% of Average: **99%**

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

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

Scott Valley - Northeast Plateau - Station 225

Date	ETo (in)	Precip (in)	Sol Rad (Ly/day)	Avg Vap Pres (mBars)	Max Air Temp (°F)	Min Air Temp (°F)	Avg Air Temp (°F)	Max Rel Hum (%)	Min Rel Hum (%)	Avg Rel Hum (%)	Dew Point (°F)	Avg Wind Speed (mph)	Wind Run (miles)	Avg Soil Temp (°F)
5/1/2023	0.12	0.02	387	7.8	62.3	40.4	47.8	89	45	69	38.2	5.0	119.5	54.0
5/2/2023	0.09	0.36	342	7.8	56.1	39.3	47.0	93	45	71	38.1	4.3	104.2	53.0

SCOTT RIVER WATERSHED CONDITIONS

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

WEEK OF MAY 7, 2023

Date	ETo (in)	Precip (in)	Sol Rad (Ly/day)	Avg Vap Pres (mBars)	Max Air Temp (°F)	Min Air Temp (°F)	Avg Air Temp (°F)	Max Rel Hum (%)	Min Rel Hum (%)	Avg Rel Hum (%)	Dew Point (°F)	Avg Wind Speed (mph)	Wind Run (miles)	Avg Soil Temp (°F)
5/3/2023	0.16	0.02	583	8.3	64.1	39.3	49.6	96	38	69	39.8	3.2	77.8	53.8
5/4/2023	0.06	0.00	230	9.0	58.6	38.2	48.1	98	61	78	41.7	3.4	82.4	53.4
5/5/2023	0.09	0.16	319	8.4	56.2	43.7	48.2	89	52	73	40.0	3.8	91.8	53.3
5/6/2023	0.16	0.11	566	7.4	57.1	37.0	46.6	96	40	68	36.7	4.9	117.4	53.9
Tots/Avgs	0.68	0.67	405	8.1	59.1	39.7	47.9	94	47	71	39.1	4.1	98.9	53.6

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. Week of April 9th also had incomplete data due to flows > 1,000 cfs. Note that since 2/21, only 29 days have been fished with this trap out of a total of 68 potential days.

“Scott 8-foot cone was not set Sunday April 23 - 29, 2023 based on high flows, debris loads, and predictions of rapid flow increases to approximately 3,000 cfs throughout the week. Flows experienced at the Scott 8ft RST are approximately double the reading of the Fort Jones gauge. The RST was moved closer to shore throughout the week to protect it from damage and prevent equipment loss as observed in 2017. Decisions to operate the RST consider safety for our crews, fish, and equipment.”

1. We have no new data to report for JW17 spanning April 23–28, 2023 for the Scott River.
2. Mark-recapture have been conducted on age 0+ Chinook Salmon. Due to low catch of fry to date and no new data this week we are not able to produce preliminary population estimates for JW 17 or year-to-date.
 - Age 0+ Chinook raw catch reported for the season includes sac fry (Scott River Table).
3. Mark-recapture have not been conducted on age 0+ Coho Salmon.
4. Mark-recapture trials have been conducted on age 1+ Coho Salmon.
 - Year to date, age 1+ Coho Salmon trap efficiency is 3% with an estimated 5,025 age 1+ Coho Salmon total having outmigrated from the Scott River as of April 22, 2023 (Figure 4).
5. Limited mark-recapture trials have begun for age 1+ Chinook, age 1+ Steelhead and age 2+ Steelhead
 - Year-to-date, age 1+ Steelhead trap efficiency is 4% with an estimated 7,113 age 1+ Steelhead total having outmigrated from the Scott River as of April 22, 2023 (Figure 5).

SCOTT RIVER WATERSHED CONDITIONS

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

WEEK OF MAY 7, 2023

- Due low catch and no recaptures this season we cannot report any preliminary population estimates for age 2+ Steelhead on the Scott River.

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.”