

Water-Data Report 2012

11526500 North Fork Trinity River at Helena, CA

Klamath River Basin

LOCATION.--Lat 40°46'55", long 123°07'38" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.21, T.34 N., R.11 W., Trinity County, CA, Hydrologic Unit 18010211, on right bank, 500 ft downstream from East Fork of North Fork Trinity River, 0.6 mi north of Helena, 1.0 mi upstream from mouth, and 6 mi northwest of Junction City.

DRAINAGE AREA.--151 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1911 to September 1913, January 1957 to September 1980, October 2004 to September 2005 (beginning October 2004, low-flow records only), April 2007 to November 2010 (seasonal low-flow only), April 2012 to current year (seasonal low-flow only).

WATER TEMPERATURE: Water year 1963.

SEDIMENT DATA: Water year 1963.

REVISED RECORDS.--WSP 1565: 1912-13.

GAGE.--Water stage recorder. Datum of gage is 1,460 ft above NGVD of 1929, from topographic map. August 1911 to September 1913, at site 0.8 mi downstream at different datum. October 1913 to September 1980, at same site at datum 81.2 ft lower.

REMARKS.--Records good. No known regulation or diversion above station. Flows computed to 1,000 ft³/s. See schematic diagram of Klamath River and Trinity River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft³/s, Dec. 22, 1964, gage height, 27.93 ft, datum then in use, from floodmarks, from rating curve extended above 9,000 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 7.5 ft³/s, Sept. 26, 1964.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	414	162	54	32
2	---	---	---	---	---	---	---	826	414	148	53	32
3	---	---	---	---	---	---	---	774	348	144	52	32
4	---	---	---	---	---	---	---	750	398	131	51	31
5	---	---	---	---	---	---	---	626	345	123	50	30
6	---	---	---	---	---	---	---	576	263	122	50	30
7	---	---	---	---	---	---	839	583	230	120	49	30
8	---	---	---	---	---	---	765	645	216	115	48	30
9	---	---	---	---	---	---	727	721	204	113	46	29
10	---	---	---	---	---	---	757	673	195	110	45	30
11	---	---	---	---	---	---	835	591	200	108	44	31
12	---	---	---	---	---	---	848	592	230	107	42	31
13	---	---	---	---	---	---	902	637	249	105	41	30
14	---	---	---	---	---	---	894	651	236	101	40	29
15	---	---	---	---	---	---	905	721	231	94	40	29
16	---	---	---	---	---	---	---	710	228	88	42	28
17	---	---	---	---	---	---	---	579	242	86	40	28
18	---	---	---	---	---	---	---	476	246	90	39	28
19	---	---	---	---	---	---	---	433	197	82	38	28
20	---	---	---	---	---	---	---	443	173	77	38	28
21	---	---	---	---	---	---	---	499	172	73	38	27
22	---	---	---	---	---	---	---	438	196	71	37	27
23	---	---	---	---	---	---	---	358	236	69	37	27
24	---	---	---	---	---	---	---	328	172	68	36	27
25	---	---	---	---	---	---	---	292	145	67	35	27
26	---	---	---	---	---	---	---	265	132	66	34	27
27	---	---	---	---	---	---	---	251	125	64	34	27
28	---	---	---	---	---	---	---	251	129	61	35	26
29	---	---	---	---	---	---	---	266	141	60	34	26
30	---	---	---	---	---	---	---	295	156	59	34	26
31	---	---	---	---	---	---	---	332	---	57	32	---
Total	---	---	---	---	---	---	---	---	6,863	2,941	1,288	863
Mean	---	---	---	---	---	---	---	---	229	94.9	41.5	28.8
Max	---	---	---	---	---	---	---	---	414	162	54	32
Min	---	---	---	---	---	---	---	---	125	57	32	26
Ac-ft	---	---	---	---	---	---	---	---	13,610	5,830	2,550	1,710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1980, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	89.8	332	551	807	835	736	711	613	333	122	47.2	37.0
Max	578	1,660	2,221	2,699	3,274	1,715	1,947	1,233	635	240	83.3	103
(WY)	(1963)	(1974)	(1965)	(1970)	(1958)	(1972)	(1974)	(1975)	(1975)	(1958)	(1958)	(1912)
Min	25.1	24.3	29.2	45.8	71.7	123	149	141	122	24.2	12.7	14.5
(WY)	(1966)	(1960)	(1960)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1964)

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SUMMARY STATISTICS

Water Years 1912 - 1980		
Annual mean	431	
Highest annual mean	901	1974
Lowest annual mean	72.2	1977
Highest daily mean	19,000	Dec 22, 1964
Lowest daily mean	7.5	Sep 26, 1964
Annual seven-day minimum	8.4	Sep 22, 1964
Maximum peak flow	35,800	Dec 22, 1964
Maximum peak stage	27.93	Dec 22, 1964
Annual runoff (ac-ft)	312,500	
10 percent exceeds	975	
50 percent exceeds	236	
90 percent exceeds	28	

