

Water-Data Report 2009

## 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 mi<sup>2</sup>.

### **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 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 ft<sup>3</sup>/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 ft<sup>3</sup>/s, Dec. 22, 1964, gage height, 27.93 ft, datum then in use, from floodmarks, from rating curve extended above 9,000 ft<sup>3</sup>/s on basis of slope-area measurement of maximum flow; minimum daily, 7.5 ft<sup>3</sup>/s, Sept. 26, 1964.

## 11526500 North Fork Trinity River at Helena, CA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	24	---	---	---	---	---	459	152	310	107	44	29
2	25	---	---	---	---	---	466	328	286	104	43	29
3	47	---	---	---	---	---	418	546	293	97	42	29
4	169	---	---	---	---	---	372	---	324	89	40	29
5	95	---	---	---	---	---	342	---	267	84	40	29
6	61	---	---	---	---	---	325	---	233	81	46	29
7	50	---	---	---	---	---	329	---	219	78	48	29
8	45	---	---	---	---	---	316	---	208	76	44	29
9	41	---	---	---	---	---	332	803	199	73	42	28
10	38	---	---	---	---	---	306	713	191	70	40	28
11	38	---	---	---	---	---	277	660	193	69	38	27
12	36	---	---	---	---	---	262	583	176	67	37	27
13	36	---	---	---	---	---	278	501	178	66	37	27
14	35	---	---	---	---	---	276	484	199	64	36	32
15	35	---	---	---	---	---	245	537	192	62	35	31
16	34	---	---	---	---	---	223	534	188	61	35	30
17	33	---	---	---	---	---	211	616	180	60	34	29
18	33	---	---	---	---	---	226	689	178	59	34	29
19	32	---	---	---	---	---	284	601	170	58	33	28
20	32	---	---	---	---	---	401	451	161	56	32	27
21	32	---	---	---	---	---	524	413	143	53	31	27
22	32	---	---	---	---	---	550	412	132	52	31	26
23	31	---	---	---	---	---	434	416	126	52	31	26
24	31	---	---	---	---	---	307	401	125	52	31	26
25	31	---	---	---	---	---	239	367	129	50	31	26
26	31	---	---	---	---	---	213	357	127	49	31	26
27	30	---	---	---	---	---	201	349	125	48	30	25
28	30	---	---	---	---	---	180	369	124	47	30	24
29	30	---	---	---	---	---	153	362	120	47	32	24
30	31	---	---	---	---	---	138	345	110	47	31	26
31	77	---	---	---	---	---	---	358	---	45	30	---
<b>Total</b>	1,325	---	---	---	---	---	9,287	---	5,606	2,023	1,119	831
<b>Mean</b>	42.7	---	---	---	---	---	310	---	187	65.3	36.1	27.7
<b>Max</b>	169	---	---	---	---	---	550	---	324	107	48	32
<b>Min</b>	24	---	---	---	---	---	138	---	110	45	30	24
<b>Ac-ft</b>	2,630	---	---	---	---	---	18,420	---	11,120	4,010	2,220	1,650

**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
<b>Mean</b>	89.8	332	551	807	835	736	711	613	333	122	47.2	37.0
<b>Max</b>	578	1,660	2,221	2,699	3,274	1,715	1,947	1,233	635	240	83.3	103
<b>(WY)</b>	(1963)	(1974)	(1965)	(1970)	(1958)	(1972)	(1974)	(1975)	(1975)	(1958)	(1958)	(1912)
<b>Min</b>	25.1	24.3	29.2	45.8	71.7	123	149	141	122	24.2	12.7	14.5
<b>(WY)</b>	(1966)	(1960)	(1960)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1964)

11526500 North Fork Trinity River at Helena, CA—Continued

SUMMARY STATISTICS

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

