



Water-Data Report 2009

11473900 Middle Fork Eel River near Dos Rios, CA

Eel River Basin

LOCATION.--Lat 39°42'23", long 123°19'27" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.5, T.21 N., R.13 W., Mendocino County, CA, Hydrologic Unit 18010104, Mt. Diablo Meridian, on right bank, 0.6 mi upstream from Eastman Creek, 1.7 mi southeast of Dos Rios, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--745 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1965 to current year.

CHEMICAL DATA: Water years 1959-66

SPECIFIC CONDUCTANCE: Water year 1967.

WATER TEMPERATURE: Water years 1958-83.

SEDIMENT RECORDS: Water years 1966-76.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 901.58 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. See schematic diagram of Eel River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft³/s, Jan. 1, 1997, gage height, 31.46 ft, from rating curve extended above 52,000 ft³/s, maximum gage height, 32.86 ft, Jan. 4, 1966; minimum daily, 0.39 ft³/s, Sept. 1, 1994.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25,000 ft³/s and (or) maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|-----------------------------------|---------------------|
| Mar 2 | 1215 | *18,300 | *14.07 |

11473900 Middle Fork Eel River near Dos Rios, CA—Continued

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

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|-------|--------|--------|--------|---------|---------|--------|---------|--------|-------|-------|-------|
| 1 | 6.2 | 25 | 63 | 1,060 | 283 | 4,030 | 1,850 | 562 | 268 | 54 | 14 | 5.9 |
| 2 | 6.5 | 838 | 62 | 2,190 | 269 | 13,800 | 1,830 | 2,080 | 264 | 49 | 14 | 5.9 |
| 3 | 9.7 | 842 | 60 | 2,360 | 248 | 10,700 | 1,710 | 3,540 | 365 | 48 | 13 | 5.8 |
| 4 | 16 | 1,220 | 59 | 1,460 | 241 | 6,560 | 1,530 | 2,820 | 400 | 45 | 13 | 5.6 |
| 5 | 71 | 532 | 59 | 1,220 | 241 | 4,280 | 1,390 | 10,600 | 365 | 41 | 13 | 5.3 |
| 6 | 61 | 456 | 58 | 1,530 | 436 | 3,380 | 1,290 | 5,190 | 320 | 38 | 15 | e5.4 |
| 7 | 53 | 612 | 57 | 1,450 | 462 | 2,910 | 1,250 | 4,070 | 290 | 37 | 14 | 5.5 |
| 8 | 44 | 351 | 56 | 1,330 | 350 | 2,730 | 1,220 | 3,140 | 249 | 36 | 13 | e5.5 |
| 9 | 36 | 291 | 55 | 1,260 | 333 | 2,440 | 1,250 | 2,570 | 221 | 35 | 15 | 5.6 |
| 10 | 31 | 269 | 54 | 990 | 301 | 2,130 | 1,430 | 2,120 | 201 | 35 | 15 | 6.3 |
| 11 | 26 | 216 | 53 | 836 | 364 | 1,950 | 1,230 | 1,880 | 196 | 34 | 14 | 6.6 |
| 12 | 24 | 182 | 52 | 837 | 511 | 1,820 | 1,090 | 1,660 | 186 | 33 | 13 | 6.6 |
| 13 | 23 | 180 | 53 | 1,210 | 697 | 1,760 | 1,100 | 1,460 | 173 | 32 | 13 | 6.3 |
| 14 | 22 | 156 | 54 | 1,110 | 787 | 1,770 | 1,070 | 1,310 | 172 | 31 | 11 | 6.0 |
| 15 | 22 | 137 | 64 | 957 | 1,480 | 1,840 | 987 | 1,200 | 200 | 30 | 11 | 5.9 |
| 16 | 21 | 120 | 71 | 835 | 1,510 | 4,080 | 888 | 1,080 | 235 | 28 | 11 | 6.3 |
| 17 | 21 | 108 | 63 | 731 | 1,420 | 4,660 | 822 | 981 | 198 | 27 | 11 | 6.2 |
| 18 | 20 | 100 | 60 | 646 | 1,120 | 3,460 | 850 | 888 | 164 | 25 | 11 | 6.4 |
| 19 | 19 | 94 | 92 | 561 | 851 | 3,070 | 935 | 795 | 146 | 24 | 9.8 | 6.8 |
| 20 | 19 | 89 | 98 | 490 | 835 | 2,930 | 1,100 | 710 | 133 | 23 | 9.1 | 6.7 |
| 21 | 18 | 87 | 175 | 438 | 1,010 | 2,760 | 1,270 | 637 | 127 | 22 | 9.0 | 6.4 |
| 22 | 18 | 88 | 1,430 | 432 | 6,270 | 2,770 | 1,370 | 573 | 121 | 21 | 8.3 | 6.1 |
| 23 | 18 | 83 | 609 | 496 | 11,300 | 2,390 | 1,280 | 525 | 113 | 19 | 7.7 | 5.8 |
| 24 | 18 | 80 | 512 | 456 | 10,800 | 2,240 | 1,050 | 484 | 102 | 21 | 7.5 | 5.6 |
| 25 | 18 | 76 | 2,340 | 471 | 5,140 | 2,160 | 890 | 456 | 92 | 22 | 7.5 | 5.3 |
| 26 | 18 | 73 | 964 | 424 | 4,660 | 2,110 | 767 | 431 | 85 | 20 | 7.6 | 4.9 |
| 27 | 17 | 71 | 519 | 391 | 3,640 | 2,350 | 704 | 399 | 79 | 17 | 7.1 | 4.7 |
| 28 | 17 | 70 | 1,460 | 350 | 2,960 | 2,470 | 651 | 380 | 72 | 16 | 6.5 | 4.3 |
| 29 | 17 | 67 | 2,620 | 333 | --- | 2,500 | 593 | 354 | 66 | 17 | 6.8 | 4.2 |
| 30 | 16 | 64 | 2,330 | 311 | --- | 2,150 | 548 | 335 | 59 | 16 | 6.6 | e4.1 |
| 31 | 17 | --- | 1,400 | 296 | --- | 1,920 | --- | 322 | --- | 15 | 6.3 | --- |
| Total | 743.4 | 7,577 | 15,602 | 27,461 | 58,519 | 106,120 | 33,945 | 53,552 | 5,662 | 911 | 333.8 | 172.0 |
| Mean | 24.0 | 253 | 503 | 886 | 2,090 | 3,423 | 1,132 | 1,727 | 189 | 29.4 | 10.8 | 5.73 |
| Max | 71 | 1,220 | 2,620 | 2,360 | 11,300 | 13,800 | 1,850 | 10,600 | 400 | 54 | 15 | 6.8 |
| Min | 6.2 | 25 | 52 | 296 | 241 | 1,760 | 548 | 322 | 59 | 15 | 6.3 | 4.1 |
| Ac-ft | 1,470 | 15,030 | 30,950 | 54,470 | 116,100 | 210,500 | 67,330 | 106,200 | 11,230 | 1,810 | 662 | 341 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2009, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 84.3 | 971 | 2,652 | 4,107 | 3,507 | 3,358 | 2,130 | 1,357 | 403 | 79.9 | 24.2 | 20.5 |
| Max | 475 | 6,823 | 10,110 | 13,540 | 12,870 | 8,622 | 6,632 | 4,260 | 1,868 | 316 | 63.9 | 172 |
| (WY) | (1980) | (1974) | (2006) | (1970) | (1986) | (1983) | (1982) | (2005) | (1998) | (1998) | (1998) | (1986) |
| Min | 5.11 | 26.9 | 30.5 | 94.3 | 172 | 384 | 333 | 241 | 75.6 | 13.2 | 4.33 | 1.04 |
| (WY) | (1995) | (1996) | (1977) | (1977) | (1977) | (1977) | (1977) | (1977) | (2001) | (1977) | (1994) | (1994) |

11473900 Middle Fork Eel River near Dos Rios, CA—Continued

SUMMARY STATISTICS

| | Calendar Year 2008 | | Water Year 2009 | | Water Years 1966 - 2009 | |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| Annual total | 345,262.6 | | 310,598.2 | | | |
| Annual mean | 943 | | 851 | | 1,551 | |
| Highest annual mean | | | | | 3,351 | 1983 |
| Lowest annual mean | | | | | 121 | 1977 |
| Highest daily mean | 19,400 | Jan 4 | 13,800 | Mar 2 | 81,200 | Jan 1, 1997 |
| Lowest daily mean | 4.1 | Sep 18 | 4.1 | Sep 30 | 0.39 | Sep 1, 1994 |
| Annual seven-day minimum | 4.3 | Sep 12 | 4.7 | Sep 24 | 0.42 | Aug 28, 1994 |
| Maximum peak flow | | | 18,300 | Mar 2 | 135,000 | Jan 1, 1997 |
| Maximum peak stage | | | 14.07 | Mar 2 | 32.86 | Jan 4, 1966 |
| Annual runoff (ac-ft) | 684,800 | | 616,100 | | 1,123,000 | |
| 10 percent exceeds | 2,330 | | 2,340 | | 3,890 | |
| 50 percent exceeds | 185 | | 200 | | 343 | |
| 90 percent exceeds | 9.9 | | 7.0 | | 14 | |

