

**USGS Water-Year Summary**

[**11264500**](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=11264500) **Merced River at Happy Isles Bridge, near Yosemite, CA**

**LOCATION** - Lat 37°43'53", long 119°33'29" referenced to North American Datum of 1927, Mariposa County, CA, Hydrologic Unit 18040008, unsurveyed, in Yosemite National Park, on left bank, 30 ft upstream from remnants of footbridge at Happy Isles, 0.4 mi downstream from Illilouette Creek, and 2.0 mi southeast of Yosemite National Park Headquarters.

**DRAINAGE AREA** - 181 mi².

**SURFACE-WATER RECORDS**

**PERIOD OF RECORD** - August 1915 to current year.

**GAGE** - Water-stage recorder. Elevation of gage is 4,016.58 ft above NGVD of 1929. Prior to Nov. 2, 1916, nonrecording gage at datum 0.55 ft lower.

**REMARKS** - Records rated good. Up to 5 ft³/s can be diverted upstream from station.

**EXTREMES FOR PERIOD OF RECORD** - Maximum discharge, 10,100 ft³/s, Jan. 2, 1997, gage height, 13.27 ft, from rating curve extended above 4,000 ft³/s, on basis of contracted-opening measurements at gage heights 10.4 and 11.55 ft; minimum daily, 1.5 ft³/s, Sept. 26, 1977.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **00060, Discharge, cubic feet per second,** | | | | | | | | | | | | | |
| **YEAR** | **Monthly mean in ft3/s   (Calculation Period: 1915-08-01 -> 2017-04-30)** | | | | | | | | | | | |
| **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** |
| **1915** |  |  |  |  |  |  |  | 94.7 | 47.0 | 11.5 | 8.11 | 26.0 |
| **1916** | 78.0 | 112.1 | 336.5 | 961.5 | 1,416 | 1,691 | 690.6 | 148.4 | 47.4 | 175.7 | 59.6 | 49.6 |
| **1917** | 36.7 | 66.4 | 117.8 | 462.9 | 974.2 | 2,050 | 666.0 | 153.5 | 51.0 | 19.0 | 16.1 | 16.3 |
| **1918** | 13.0 | 32.0 | 116.8 | 487.6 | 916.0 | 1,925 | 273.9 | 55.5 | 145.2 | 266.7 | 69.3 | 70.5 |
| **1919** | 36.0 | 56.1 | 100.0 | 576.3 | 1,811 | 497.7 | 137.4 | 32.8 | 13.3 | 19.9 | 11.9 | 28.7 |
| **1920** | 32.0 | 32.1 | 95.0 | 314.8 | 1,294 | 907.9 | 215.6 | 65.6 | 32.3 | 76.8 | 94.9 | 79.4 |
| **1921** | 98.9 | 138.6 | 300.3 | 588.1 | 1,167 | 1,619 | 490.4 | 75.5 | 25.6 | 12.6 | 12.1 | 21.4 |
| **1922** | 50.0 | 53.7 | 89.1 | 320.2 | 1,688 | 2,129 | 724.5 | 142.9 | 41.1 | 22.8 | 38.3 | 68.7 |
| **1923** | 78.9 | 83.4 | 160.0 | 406.1 | 1,443 | 1,117 | 584.8 | 117.3 | 85.0 | 91.8 | 40.9 | 20.7 |
| **1924** | 23.3 | 42.0 | 49.4 | 311.4 | 657.4 | 119.6 | 35.2 | 11.3 | 5.47 | 12.6 | 72.8 | 80.4 |
| **1925** | 70.0 | 145.3 | 259.6 | 617.6 | 1,543 | 1,297 | 484.4 | 154.0 | 21.3 | 40.7 | 36.3 | 44.9 |
| **1926** | 21.9 | 54.5 | 194.3 | 1,007 | 1,152 | 463.8 | 124.6 | 15.9 | 3.48 | 3.26 | 52.4 | 84.1 |
| **1927** | 66.1 | 137.6 | 229.6 | 561.9 | 1,421 | 1,623 | 489.8 | 87.7 | 25.3 | 35.3 | 161.7 | 57.4 |
| **1928** | 58.9 | 66.2 | 270.8 | 491.7 | 1,450 | 671.9 | 149.5 | 32.5 | 5.49 | 2.98 | 10.9 | 14.7 |
| **1929** | 20.4 | 24.4 | 108.3 | 233.7 | 1,089 | 695.6 | 185.7 | 37.6 | 11.7 | 6.26 | 4.98 | 14.5 |
| **1930** | 18.0 | 62.5 | 159.8 | 537.4 | 716.8 | 963.2 | 178.9 | 32.5 | 8.10 | 13.2 | 15.6 | 11.5 |
| **1931** | 11.6 | 25.2 | 84.9 | 386.6 | 654.3 | 183.5 | 28.6 | 11.6 | 5.58 | 3.53 | 6.02 | 16.5 |
| **1932** | 41.5 | 116.1 | 240.4 | 512.5 | 1,346 | 1,771 | 579.0 | 89.7 | 17.9 | 7.85 | 4.89 | 6.92 |
| **1933** | 11.6 | 25.3 | 70.4 | 372.8 | 600.7 | 1,272 | 248.5 | 38.6 | 5.72 | 2.66 | 6.48 | 27.6 |
| **1934** | 43.4 | 70.3 | 240.4 | 563.3 | 493.1 | 300.9 | 74.4 | 22.6 | 11.3 | 28.3 | 72.6 | 55.5 |
| **1935** | 70.3 | 126.3 | 140.2 | 644.2 | 1,346 | 1,748 | 447.5 | 97.2 | 22.5 | 17.3 | 15.4 | 12.6 |
| **1936** | 41.9 | 87.2 | 268.9 | 897.6 | 1,581 | 1,310 | 480.7 | 74.3 | 16.9 | 13.2 | 11.4 | 24.5 |
| **1937** | 27.4 | 107.7 | 155.4 | 487.7 | 1,878 | 1,391 | 385.4 | 53.3 | 9.62 | 5.61 | 11.5 | 382.6 |
| **1938** | 80.6 | 113.7 | 185.3 | 665.3 | 1,954 | 2,636 | 1,210 | 276.7 | 108.5 | 104.6 | 72.0 | 45.0 |
| **1939** | 40.0 | 50.0 | 183.2 | 727.1 | 668.4 | 304.7 | 100.6 | 34.7 | 30.9 | 112.9 | 28.7 | 18.2 |
| **1940** | 92.1 | 112.0 | 290.4 | 683.1 | 1,731 | 1,283 | 267.3 | 49.3 | 11.1 | 5.82 | 12.5 | 49.2 |
| **1941** | 71.4 | 103.7 | 209.4 | 330.5 | 1,815 | 1,910 | 1,025 | 210.2 | 31.4 | 14.7 | 75.1 | 177.1 |
| **1942** | 137.6 | 118.9 | 172.2 | 567.1 | 1,136 | 1,929 | 891.0 | 176.9 | 29.3 | 12.1 | 56.4 | 71.5 |
| **1943** | 114.2 | 134.6 | 265.8 | 846.5 | 1,533 | 1,148 | 558.0 | 111.9 | 28.2 | 16.1 | 16.4 | 19.7 |
| **1944** | 29.6 | 44.0 | 129.5 | 277.9 | 1,262 | 942.6 | 425.1 | 73.9 | 18.5 | 7.53 | 70.3 | 82.3 |
| **1945** | 68.6 | 193.6 | 127.3 | 601.3 | 1,263 | 1,490 | 601.7 | 144.2 | 29.7 | 146.6 | 178.4 | 165.8 |
| **1946** | 148.9 | 103.0 | 227.2 | 861.1 | 1,636 | 1,131 | 363.5 | 79.5 | 37.5 | 88.2 | 78.7 | 117.9 |
| **1947** | 82.6 | 105.0 | 193.3 | 516.8 | 1,279 | 460.4 | 106.0 | 28.3 | 10.3 | 66.7 | 49.7 | 20.4 |
| **1948** | 44.0 | 30.1 | 55.3 | 276.3 | 1,329 | 1,547 | 334.1 | 40.7 | 8.97 | 7.40 | 10.5 | 12.8 |
| **1949** | 17.1 | 25.4 | 55.8 | 653.7 | 1,280 | 895.9 | 160.4 | 32.6 | 6.12 | 4.98 | 18.8 | 16.3 |
| **1950** | 39.4 | 95.4 | 142.8 | 762.6 | 1,283 | 952.3 | 216.0 | 32.8 | 14.8 | 16.0 | 817.9 | 649.4 |
| **1951** | 207.8 | 200.6 | 225.9 | 637.3 | 1,141 | 1,107 | 343.0 | 52.5 | 8.81 | 5.60 | 21.1 | 65.6 |
| **1952** | 73.3 | 88.0 | 139.2 | 778.0 | 2,075 | 1,764 | 992.7 | 234.3 | 56.1 | 19.3 | 13.1 | 34.2 |
| **1953** | 95.9 | 87.0 | 129.5 | 527.8 | 549.3 | 1,092 | 525.3 | 64.7 | 16.6 | 8.02 | 14.3 | 21.0 |
| **1954** | 14.0 | 70.6 | 189.5 | 692.5 | 1,310 | 604.0 | 173.3 | 25.4 | 5.08 | 2.94 | 13.2 | 42.5 |
| **1955** | 44.6 | 61.1 | 99.8 | 268.6 | 1,003 | 1,090 | 215.5 | 31.0 | 5.50 | 2.58 | 9.11 | 606.2 |
| **1956** | 321.8 | 185.7 | 313.2 | 651.1 | 1,529 | 2,151 | 1,094 | 225.3 | 74.3 | 48.6 | 54.1 | 32.2 |
| **1957** | 26.1 | 93.6 | 137.5 | 363.3 | 856.0 | 1,424 | 257.8 | 55.4 | 13.5 | 20.6 | 34.4 | 43.0 |
| **1958** | 37.0 | 91.3 | 100.1 | 457.3 | 2,073 | 1,891 | 893.6 | 310.1 | 107.6 | 22.6 | 14.9 | 13.2 |
| **1959** | 38.4 | 68.4 | 172.3 | 568.0 | 656.7 | 480.7 | 80.6 | 18.9 | 110.3 | 33.0 | 10.5 | 7.64 |
| **1960** | 11.2 | 47.7 | 164.6 | 540.6 | 828.7 | 590.7 | 103.6 | 19.8 | 4.91 | 6.83 | 24.6 | 36.8 |
| **1961** | 19.9 | 48.6 | 88.2 | 427.8 | 608.4 | 484.8 | 79.4 | 50.7 | 16.5 | 10.5 | 12.5 | 30.0 |
| **1962** | 31.7 | 108.6 | 104.8 | 918.8 | 989.0 | 1,537 | 501.2 | 90.7 | 22.4 | 36.0 | 15.6 | 17.2 |
| **1963** | 51.6 | 385.2 | 143.0 | 235.8 | 1,226 | 1,602 | 707.9 | 149.5 | 47.3 | 27.7 | 115.8 | 77.8 |
| **1964** | 43.2 | 48.9 | 76.4 | 336.1 | 808.4 | 635.4 | 162.9 | 44.0 | 11.4 | 4.54 | 67.7 | 735.9 |
| **1965** | 283.6 | 188.9 | 211.7 | 516.7 | 1,209 | 1,543 | 897.8 | 364.2 | 61.2 | 19.2 | 91.9 | 80.5 |
| **1966** | 69.6 | 65.1 | 225.2 | 818.8 | 1,198 | 440.2 | 118.4 | 63.6 | 8.44 | 4.86 | 49.5 | 234.2 |
| **1967** | 94.3 | 142.9 | 273.2 | 212.8 | 1,452 | 2,331 | 1,745 | 395.5 | 108.4 | 27.9 | 19.9 | 40.9 |
| **1968** | 40.6 | 110.3 | 137.6 | 432.7 | 784.6 | 452.6 | 84.8 | 26.5 | 6.76 | 11.5 | 109.2 | 61.2 |
| **1969** | 193.8 | 126.9 | 177.1 | 780.6 | 2,675 | 2,270 | 1,096 | 238.0 | 54.7 | 57.1 | 62.9 | 75.7 |
| **1970** | 216.3 | 149.7 | 220.9 | 355.3 | 1,256 | 1,056 | 322.1 | 55.1 | 11.1 | 3.85 | 43.5 | 104.6 |
| **1971** | 135.0 | 144.6 | 164.7 | 382.9 | 900.3 | 1,367 | 442.0 | 85.2 | 24.3 | 11.9 | 40.3 | 58.3 |
| **1972** | 67.1 | 76.1 | 350.5 | 355.0 | 1,065 | 895.6 | 145.0 | 27.8 | 128.7 | 51.7 | 64.4 | 105.1 |
| **1973** | 109.7 | 114.1 | 121.3 | 524.4 | 2,086 | 1,513 | 306.1 | 146.4 | 13.2 | 24.9 | 273.8 | 150.4 |
| **1974** | 191.1 | 115.1 | 246.2 | 453.0 | 1,775 | 1,621 | 407.1 | 153.8 | 21.2 | 11.3 | 19.0 | 29.4 |
| **1975** | 49.5 | 70.8 | 124.3 | 173.5 | 1,516 | 2,053 | 519.2 | 82.4 | 41.5 | 117.6 | 86.4 | 41.2 |
| **1976** | 21.4 | 33.0 | 84.4 | 209.1 | 678.5 | 169.4 | 58.8 | 38.7 | 79.3 | 29.7 | 9.72 | 4.49 |
| **1977** | 6.70 | 13.5 | 25.2 | 218.0 | 230.9 | 419.1 | 53.9 | 7.79 | 3.18 | 2.61 | 7.40 | 62.6 |
| **1978** | 101.2 | 106.1 | 276.8 | 427.5 | 1,677 | 2,407 | 1,135 | 330.6 | 359.9 | 30.8 | 25.4 | 38.4 |
| **1979** | 139.0 | 94.4 | 197.3 | 424.9 | 1,789 | 1,139 | 277.1 | 59.7 | 13.2 | 41.3 | 56.6 | 59.7 |
| **1980** | 366.3 | 270.4 | 204.7 | 667.1 | 1,366 | 1,867 | 1,175 | 217.7 | 51.1 | 23.6 | 22.1 | 27.0 |
| **1981** | 23.0 | 81.8 | 103.9 | 600.6 | 1,051 | 664.5 | 112.0 | 24.9 | 11.7 | 28.1 | 163.3 | 161.9 |
| **1982** | 153.9 | 360.0 | 253.6 | 982.0 | 1,973 | 1,888 | 1,086 | 347.5 | 280.4 | 232.8 | 197.7 | 175.9 |
| **1983** | 167.5 | 191.3 | 242.3 | 252.1 | 1,694 | 3,317 | 2,101 | 775.5 | 243.5 | 135.2 | 271.6 | 286.7 |
| **1984** | 217.2 | 178.1 | 308.7 | 545.4 | 1,729 | 1,004 | 485.0 | 144.7 | 68.6 | 60.6 | 107.2 | 77.1 |
| **1985** | 68.2 | 84.0 | 125.9 | 704.1 | 973.8 | 480.7 | 125.9 | 42.7 | 46.4 | 74.2 | 56.5 | 101.6 |
| **1986** | 135.4 | 400.8 | 575.1 | 815.7 | 1,752 | 1,840 | 525.4 | 150.7 | 46.8 | 31.5 | 13.7 | 12.3 |
| **1987** | 14.9 | 34.1 | 76.3 | 549.4 | 734.0 | 324.3 | 72.3 | 24.2 | 11.9 | 35.3 | 108.7 | 63.4 |
| **1988** | 87.7 | 118.7 | 231.9 | 445.3 | 732.5 | 463.0 | 142.3 | 42.2 | 20.2 | 5.85 | 15.8 | 28.0 |
| **1989** | 43.2 | 65.2 | 290.3 | 801.9 | 896.4 | 658.0 | 136.3 | 38.3 | 53.7 | 63.4 | 51.6 | 42.5 |
| **1990** | 31.5 | 51.6 | 183.9 | 539.9 | 517.0 | 384.0 | 187.5 | 25.5 | 6.72 | 5.27 | 5.38 | 5.75 |
| **1991** | 6.56 | 8.89 | 98.6 | 300.9 | 883.8 | 1,104 | 276.7 | 31.4 | 14.5 | 14.5 | 63.3 | 30.7 |
| **1992** | 37.4 | 78.2 | 133.8 | 661.2 | 780.9 | 304.8 | 240.5 | 42.7 | 9.57 | 11.4 | 43.7 | 38.5 |
| **1993** | 141.1 | 130.1 | 447.8 | 662.3 | 1,933 | 1,835 | 869.1 | 188.1 | 47.8 | 16.9 | 12.6 | 18.9 |
| **1994** | 18.1 | 30.4 | 128.1 | 440.9 | 771.0 | 420.3 | 72.1 | 15.9 | 5.11 | 62.0 | 115.1 | 97.1 |
| **1995** | 164.9 | 206.0 | 411.5 | 627.9 | 1,428 | 2,678 | 2,393 | 602.0 | 150.3 | 32.9 | 17.0 | 78.0 |
| **1996** | 111.0 | 349.9 | 358.5 | 791.8 | 1,589 | 1,287 | 492.4 | 120.3 | 31.3 | 15.6 | 176.3 | 209.1 |
| **1997** | 1,084 | 239.2 | 432.4 | 789.9 | 1,679 | 1,023 | 339.0 | 108.6 | 36.2 | 15.3 | 18.9 | 36.4 |
| **1998** | 83.2 | 123.7 | 280.7 | 501.6 | 911.7 | 2,538 | 2,009 | 399.0 | 187.4 | 41.9 | 50.4 | 73.6 |
| **1999** | 71.6 | 131.6 | 171.5 | 434.4 | 1,493 | 1,100 | 262.9 | 65.9 | 30.1 | 14.1 | 19.8 | 13.1 |
| **2000** | 33.7 | 94.9 | 206.1 | 663.0 | 1,512 | 1,120 | 211.1 | 62.5 | 25.5 | 12.2 | 22.7 | 17.2 |
| **2001** | 17.1 | 44.6 | 248.2 | 500.5 | 1,441 | 303.5 | 93.0 | 19.8 | 8.22 | 4.60 | 47.2 | 94.3 |
| **2002** | 108.7 | 123.8 | 188.2 | 796.9 | 1,190 | 861.5 | 144.0 | 19.6 | 8.37 | 4.52 | 109.2 | 49.6 |
| **2003** | 119.7 | 126.8 | 220.9 | 386.0 | 1,496 | 1,457 | 272.9 | 77.7 | 27.4 | 6.49 | 14.9 | 68.8 |
| **2004** | 85.7 | 93.6 | 524.1 | 691.8 | 885.7 | 523.1 | 140.9 | 27.1 | 6.22 | 40.1 | 93.8 | 71.8 |
| **2005** | 146.9 | 162.1 | 286.9 | 560.9 | 2,306 | 2,059 | 1,098 | 176.3 | 34.5 | 19.6 | 28.2 | 177.7 |
| **2006** | 225.5 | 213.2 | 220.4 | 631.8 | 2,476 | 2,472 | 972.9 | 152.5 | 43.4 | 19.6 | 22.4 | 29.9 |
| **2007** | 37.7 | 70.2 | 268.1 | 492.6 | 762.0 | 231.2 | 59.9 | 16.1 | 15.0 | 8.46 | 8.28 | 13.5 |
| **2008** | 40.1 | 78.2 | 219.9 | 539.3 | 1,203 | 845.3 | 230.2 | 24.2 | 5.61 | 6.83 | 147.0 | 48.5 |
| **2009** | 138.1 | 138.8 | 295.5 | 768.3 | 1,738 | 766.0 | 286.1 | 47.8 | 13.8 | 102.7 | 30.7 | 36.1 |
| **2010** | 73.9 | 98.0 | 199.2 | 445.0 | 946.4 | 2,036 | 646.0 | 76.9 | 16.5 | 226.7 | 171.5 | 271.5 |
| **2011** | 222.9 | 196.3 | 259.5 | 785.1 | 1,562 | 2,458 | 1,509 | 332.4 | 101.4 | 121.0 | 37.7 | 20.5 |
| **2012** | 29.2 | 47.3 | 118.7 | 699.6 | 885.6 | 246.4 | 62.1 | 49.7 | 10.9 | 6.09 | 28.8 | 138.0 |
| **2013** | 102.1 | 91.3 | 226.7 | 678.9 | 783.3 | 342.2 | 81.2 | 17.9 | 9.96 | 10.5 | 11.8 | 15.0 |
| **2014** | 10.9 | 53.6 | 149.2 | 497.5 | 685.5 | 262.2 | 73.9 | 18.4 | 3.65 | 3.26 | 10.6 | 36.4 |
| **2015** | 29.0 | 126.0 | 123.0 | 196.0 | 352.2 | 218.9 | 106.3 | 24.4 | 4.82 | 38.4 | 92.0 | 70.4 |
| **2016** | 103.8 | 239.7 | 454.5 | 880.7 | 1,181 | 1,137 | 206.2 | 31.0 | 6.90 | 230.2 | 139.1 | 204.2 |
| **2017** | 458.7 | 573.5 | 585.0 | 992.2 |  |  |  |  |  |  |  |  |
| **Mean of monthly Discharge** | 95 | 115 | 204 | 554 | 1,260 | 1,200 | 465 | 108 | 41 | 39 | 61 | 83 |