

11404500 North Fork Feather River at Pulga, CA

Sacramento River Basin

LOCATION.--Lat 39°47'40", long 121°27'02" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.6, T.22 N., R.5 E., Butte County, CA, Hydrologic Unit 18020121, Plumas National Forest, on left bank between railroad and highway bridges, 0.6 mi downstream from Flea Valley Creek and Pulga, and 1.6 mi downstream from Poe Dam.

DRAINAGE AREA.--1,953 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1910 to current year. Monthly discharge only for some periods and yearly estimates for water years 1911 and 1938, published in WSP 1315-A. Prior to October 1960, published as "at Big Bar."

CHEMICAL DATA: Water years 1963-66, 1972, 1977.

WATER TEMPERATURE: Water years 1963-83.

REVISED RECORDS.--WSP 931: 1938 (instantaneous maximum discharge), 1940. WSP 1515: 1935. WDR CA-77-4: 1976 (yearly summaries).

GAGE.--Water-stage recorder. Datum of gage is 1,305.62 ft above NGVD of 1929. Prior to Oct. 1, 1937, at site 1.1 mi upstream at different datum. Oct. 1, 1937, to Sept. 30, 1958, at present site at datum 5.00 ft higher.

COOPERATION.--Records, including diversion to Poe Powerplant (station 11404900), were collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2107.

REMARKS.--Flow regulated by Lake Almanor, Bucks Lake, Butt Valley Reservoir (stations 11399000, 11403500, and 11401050, respectively), Mountain Meadows Reservoir, and five forebays, combined capacity, 1,386,000 acre-ft. Diversion through Poe Powerplant began on May 29, 1958. See schematic diagram of North Fork Feather River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105,400 ft³/s, Jan. 1, 1997, gage height, 41.65 ft, from rating curve extended above 32,000 ft³/s, on basis of slope area measurement of peak discharge; minimum daily, 5.4 ft³/s, Sept. 18, 1977.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 1 | 136 | 126 | 126 | 122 | 103 | 158 | 138 | 140 | 134 | 127 | 130 | 129 |
| 2 | 127 | 135 | 122 | 120 | 101 | 151 | 140 | 151 | 136 | 129 | 130 | 129 |
| 3 | 128 | 134 | 124 | 119 | 102 | 149 | 135 | 145 | 135 | 129 | 127 | 126 |
| 4 | 132 | 134 | 124 | 132 | 99 | 148 | 137 | 144 | 133 | 129 | 128 | 128 |
| 5 | 140 | 131 | 126 | 119 | 97 | 150 | 135 | 141 | 138 | 129 | 126 | 127 |
| 6 | 134 | 125 | 128 | 124 | 100 | 151 | 133 | 139 | 140 | 129 | 131 | 130 |
| 7 | 135 | 121 | 127 | 125 | 104 | 147 | 138 | 144 | 136 | 127 | 130 | 131 |
| 8 | 136 | 128 | 127 | 122 | 112 | 147 | 140 | 138 | 138 | 128 | 133 | 130 |
| 9 | 130 | 129 | 169 | 119 | 839 | 146 | 136 | 136 | 135 | 129 | 127 | 131 |
| 10 | 131 | 127 | 161 | 123 | 5,120 | 143 | 134 | 136 | 141 | 126 | 125 | 130 |
| 11 | 127 | 127 | 134 | 122 | 5,560 | 140 | 137 | 137 | 135 | 128 | 125 | 132 |
| 12 | 132 | 129 | 180 | 122 | 1,480 | 142 | 131 | 135 | 133 | 130 | 124 | 130 |
| 13 | 127 | 131 | 491 | 117 | 190 | 145 | 127 | 133 | 132 | 128 | 131 | 131 |
| 14 | 131 | 134 | 719 | 121 | 159 | 148 | 132 | 133 | 132 | 130 | 129 | 129 |
| 15 | 127 | 126 | 897 | 117 | 149 | 149 | 134 | 135 | 129 | 127 | 129 | 133 |
| 16 | 133 | 130 | 140 | 118 | 143 | 142 | 131 | 134 | 130 | 130 | 130 | 129 |
| 17 | 133 | 126 | 130 | 114 | 144 | 144 | 618 | 132 | 135 | 131 | 129 | 130 |
| 18 | 132 | 128 | 126 | 117 | 138 | 140 | 201 | 132 | 130 | 140 | 127 | 130 |
| 19 | 128 | 124 | 123 | 116 | 133 | 139 | 133 | 134 | 129 | 133 | 129 | 132 |
| 20 | 133 | 127 | 127 | 119 | 132 | 135 | 130 | 140 | 130 | 134 | 127 | 132 |
| 21 | 128 | 127 | 130 | 110 | 131 | 136 | 135 | 139 | 132 | 137 | 125 | 134 |
| 22 | 135 | 126 | 125 | 112 | 145 | 133 | 170 | 136 | 131 | 136 | 125 | 138 |
| 23 | 125 | 135 | 125 | 112 | 137 | 132 | 147 | 132 | 132 | 137 | 127 | 137 |
| 24 | 131 | 127 | 127 | 109 | 146 | 135 | 141 | 134 | 135 | 132 | 127 | 136 |
| 25 | 125 | 129 | 125 | 112 | 182 | 138 | 145 | 131 | 134 | 134 | 127 | 133 |
| 26 | 124 | 130 | 129 | 114 | 184 | 150 | 149 | 134 | 133 | 131 | 130 | 128 |
| 27 | 125 | 138 | 404 | 110 | 179 | 142 | 147 | 136 | 133 | 136 | 130 | 136 |
| 28 | 126 | 130 | 152 | 113 | 166 | 140 | 146 | 132 | 134 | 138 | 127 | 135 |
| 29 | 128 | 125 | 130 | 110 | --- | 134 | 140 | 132 | 128 | 136 | 124 | 135 |
| 30 | 130 | 124 | 126 | 108 | --- | 140 | 143 | 131 | 134 | 135 | 128 | 130 |
| 31 | 125 | --- | 123 | 110 | --- | 136 | --- | 133 | --- | 134 | 128 | --- |
| Total | 4,034 | 3,863 | 6,097 | 3,628 | 16,275 | 4,430 | 4,703 | 4,229 | 4,007 | 4,079 | 3,965 | 3,941 |
| Mean | 130 | 129 | 197 | 117 | 581 | 143 | 157 | 136 | 134 | 132 | 128 | 131 |
| Max | 140 | 138 | 897 | 132 | 5,560 | 158 | 618 | 151 | 141 | 140 | 133 | 138 |
| Min | 124 | 121 | 122 | 108 | 97 | 132 | 127 | 131 | 128 | 126 | 124 | 126 |
| Ac-ft | 8,000 | 7,660 | 12,090 | 7,200 | 32,280 | 8,790 | 9,330 | 8,390 | 7,950 | 8,090 | 7,860 | 7,820 |
| Diversion, in acre-feet, to Poe Powerplant | 124,300 | 139,100 | 189,700 | 112,800 | 128,000 | 161,000 | 95,710 | 80,420 | 60,210 | 93,450 | 97,970 | 61,960 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2007, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 881 | 1,065 | 1,648 | 2,138 | 2,629 | 2,743 | 3,320 | 2,892 | 1,501 | 892 | 837 | 798 |
| Max | 2,943 | 4,594 | 10,690 | 14,120 | 14,320 | 11,960 | 13,580 | 12,460 | 7,689 | 2,771 | 2,441 | 2,430 |
| (WY) | (1963) | (1951) | (1956) | (1997) | (1986) | (1995) | (1952) | (1922) | (1911) | (1952) | (1952) | (1952) |
| Min | 16.4 | 26.4 | 50.7 | 52.6 | 56.0 | 58.2 | 54.9 | 41.7 | 34.0 | 32.6 | 13.3 | 14.2 |
| (WY) | (1978) | (1978) | (1977) | (1977) | (1990) | (1977) | (1990) | (1977) | (1977) | (1977) | (1977) | (1977) |

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SUMMARY STATISTICS

| | Calendar Year 2006 | | Water Year 2007 | | Water Years 1911 - 2007 | |
|---|--------------------|--------|-----------------|--------|-------------------------|--------------|
| Annual total | 759,959 | | 63,251 | | | |
| Annual mean | 2,082 | | 173 | | 1,751 | |
| Highest annual mean | | | | | 5,320 | 1952 |
| Lowest annual mean | | | | | 42.7 | 1977 |
| Highest daily mean | 34,400 | Jan 1 | 5,560 | Feb 11 | 101,000 | Jan 1, 1997 |
| Lowest daily mean | 121 | Nov 7 | 97 | Feb 5 | 5.4 | Sep 18, 1977 |
| Annual seven-day minimum | 124 | Nov 29 | 101 | Feb 1 | 12 | Aug 10, 1977 |
| Maximum peak flow | | | 8,440 | Feb 10 | 105,400 | Jan 1, 1997 |
| Maximum peak stage | | | 13.23 | Feb 10 | 41.65 | Jan 1, 1997 |
| Annual runoff (ac-ft) | 1,507,000 | | 125,500 | | 1,269,000 | |
| Annual diversion (ac-ft)^a | 2,164,000 | | 1,345,000 | | | |
| 10 percent exceeds | 7,330 | | 147 | | 4,380 | |
| 50 percent exceeds | 144 | | 132 | | 1,150 | |
| 90 percent exceeds | 127 | | 122 | | 56 | |

^a Diversion, in acre-feet, to Poe Powerplant (station 11404900).

