# 11109398 West Branch California Aqueduct at William Warne Powerplant, near Gorman, CA

Santa Clara River Basin

LOCATION.--Lat 34°41′07″, long 118°47′16″ referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.21, T.7 N., R.18 W., Los Angeles County, CA, Hydrologic Unit 18070102, in Los Padres National Forest, in powerplant at upper end of Pyramid Lake, on Canado de Los Alamos arm, and 8.5 mi southeast of Gorman.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1995 to current year. Prior to October 1995 in files of California Department of Water Resources. Published as "William Warne Powerplant" prior to October 1999.

GAGE.--Acoustic-velocity meters in both penstocks. Datum of gage is 2,582 ft above NGVD of 1929.

COOPERATION.--Records were computed by California Department of Water Resources, under the general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2426.

REMARKS.--Upstream the flow splits as it leaves the Tehachapi Tunnel. Flow at this site represents West Branch California Aqueduct water flowing southwest to Pyramid Lake (station 11109520). The East Branch California Aqueduct flows through Alamo Powerplant (station 10260776). See schematic diagram of Santa Clara River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,830 $ft^3/s$, Sept. 6, 2000; no flow at times in some years.

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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 | 0.00 | 328 | 0.00 | 0.00 | 1,650 | 1,650 | 1,650 | 1,640 | 1,170 | 926 | 1,380 | 1,320 |
| 2 | 699 | 380 | 0.00 | 0.00 | 1,650 | 1,650 | 1,650 | 1,640 | 1,030 | 1,310 | 1,380 | 1,320 |
| 3 | 597 | 353 | 0.00 | 0.00 | 1,430 | 1,650 | 1,650 | 1,640 | 266 | 1,320 | 1,380 | 1,400 |
| 4 | 872 | 0.00 | 0.00 | 0.00 | 1,640 | 1,660 | 1,650 | 1,640 | 713 | 1,310 | 1,370 | 1,360 |
| 5 | 719 | 0.00 | 0.00 | 0.00 | 1,640 | 1,660 | 1,650 | 1,650 | 699 | 1,300 | 1,370 | 1,360 |
| 6 | 718 | 337 | 0.00 | 0.00 | 1,640 | 1,650 | 1,650 | 1,640 | 698 | 1,300 | 1,370 | 1,320 |
| 7 | 0.00 | 349 | 0.00 | 0.00 | 1,650 | 1,650 | 1,650 | 1,650 | 703 | 1,300 | 1,370 | 1,320 |
| 8 | 0.00 | 514 | 0.00 | 0.00 | 1,650 | 1,660 | 1,640 | 1,650 | 700 | 1,310 | 1,380 | 1,320 |
| 9 | 700 | 398 | 0.00 | 403 | 1,660 | 1,660 | 1,640 | 1,650 | 701 | 1,350 | 1,380 | 1,320 |
| 10 | 704 | 370 | 0.00 | 853 | 1,660 | 1,650 | 1,640 | 1,640 | 704 | 1,340 | 1,380 | 1,320 |
| 11 | 701 | 0.00 | 0.00 | 1,240 | 1,660 | 1,590 | 1,640 | 1,640 | 705 | 1,350 | 1,370 | 1,380 |
| 12 | 734 | 0.00 | 0.00 | 1,350 | 1,650 | 1,650 | 1,640 | 1,640 | 703 | 1,360 | 1,380 | 1,360 |
| 13 | 723 | 281 | 0.00 | 1,670 | 1,650 | 1,650 | 1,640 | 1,640 | 703 | 1,360 | 1,370 | 1,370 |
| 14 | 0.00 | 0.00 | 0.00 | 1,670 | 1,650 | 1,650 | 1,640 | 1,640 | 703 | 876 | 1,370 | 1,380 |
| 15 | 0.00 | 4.5 | 0.00 | 1,670 | 1,650 | 1,650 | 1,640 | 1,610 | 699 | 926 | 1,370 | 1,380 |
| 16 | 696 | 0.00 | 0.00 | 1,150 | 1,650 | 1,650 | 1,640 | 1,640 | 705 | 1,360 | 1,370 | 1,380 |
| 17 | 738 | 0.00 | 0.00 | 309 | 1,650 | 1,650 | 1,640 | 1,270 | 663 | 1,360 | 1,170 | 1,380 |
| 18 | 705 | 0.00 | 0.00 | 0.00 | 1,650 | 1,650 | 1,640 | 1,260 | 705 | 1,370 | 1,380 | 1,380 |
| 19 | 707 | 0.00 | 0.00 | 0.00 | 1,650 | 1,640 | 1,640 | 1,260 | 709 | 1,370 | 1,380 | 1,380 |
| 20 | 706 | 0.00 | 0.00 | 0.00 | 1,650 | 1,650 | 1,640 | 1,260 | 745 | 1,360 | 1,360 | 1,380 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 1,650 | 1,650 | 1,640 | 1,380 | 732 | 1,370 | 1,280 | 1,390 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 1,650 | 1,670 | 1,640 | 1,380 | 770 | 1,370 | 1,360 | 1,400 |
| 23 | 742 | 0.00 | 0.00 | 785 | 1,650 | 1,670 | 1,640 | 1,110 | 775 | 1,360 | 1,360 | 1,400 |
| 24 | 494 | 0.00 | 0.00 | 1,650 | 1,650 | 1,670 | 1,320 | 1,410 | 696 | 1,370 | 1,360 | 1,400 |
| 25 | 511 | 0.00 | 0.00 | 1,630 | 1,650 | 1,650 | 1,650 | 1,450 | 648 | 1,400 | 1,360 | 1,410 |
| 26 | 504 | 0.00 | 0.00 | 1,640 | 1,650 | 1,620 | 1,650 | 1,420 | 677 | 1,370 | 1,360 | 1,400 |
| 27 | 516 | 0.00 | 0.00 | 1,650 | 1,650 | 1,600 | 1,650 | 1,480 | 580 | 1,370 | 1,350 | 1,410 |
| 28 | 0.00 | 0.00 | 0.00 | 1,650 | 1,650 | 1,650 | 1,640 | 1,480 | 833 | 1,380 | 1,360 | 1,410 |
| 29 | 0.00 | 0.00 | 0.00 | 1,650 | --- | 1,650 | 1,640 | 1,370 | 635 | 1,380 | 1,320 | 1,400 |
| 30 | 289 | 0.00 | 0.00 | 1,650 | --- | 1,650 | 1,640 | 1,300 | 643 | 1,380 | 1,350 | 1,410 |
| 31 | 289 | --- | 0.00 | 1,650 | --- | 1,650 | --- | 1,030 | --- | 1,380 | 1,350 | --- |
| Total | 14,064.00 | 3,314.50 | 0.00 | 24,270.00 | 45,980 | 51,100 | 48,980 | 46,110 | 21,413 | 40,588 | 42,090 | 41,160 |
| Mean | 454 | 110 | 0.00 | 783 | 1,642 | 1,648 | 1,633 | 1,487 | 714 | 1,309 | 1,358 | 1,372 |
| Max | 872 | 514 | 0.00 | 1,670 | 1,660 | 1,670 | 1,650 | 1,650 | 1,170 | 1,400 | 1,380 | 1,410 |
| Min | 0.00 | 0.00 | 0.00 | 0.00 | 1,430 | 1,590 | 1,320 | 1,030 | 266 | 876 | 1,170 | 1,320 |
| Ac-ft | 27,900 | 6,570 | 0.00 | 48,140 | 91,200 | 101,400 | 97,150 | 91,460 | 42,470 | 80,510 | 83,490 | 81,640 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2007, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 720 | 729 | 699 | 551 | 556 | 792 | 960 | 835 | 685 | 862 | 854 | 855 |
| Max | 1,113 | 1,562 | 1,390 | 1,198 | 1,642 | 1,648 | 1,633 | 1,487 | 1,381 | 1,507 | 1,627 | 1,460 |
| (WY) | (2001) | (2001) | (2004) | (2004) | (2007) | (2007) | (2007) | (2007) | (2004) | (2004) | (2003) | (2004) |
| Min | 71.4 | 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 68.7 | 32.8 | 113 | 316 |
| (WY) | (1996) | (2007) | (1999) | (1999) | (1999) | (1998) | (1998) | (1998) | (1998) | (1997) | (1997) | (1998) |

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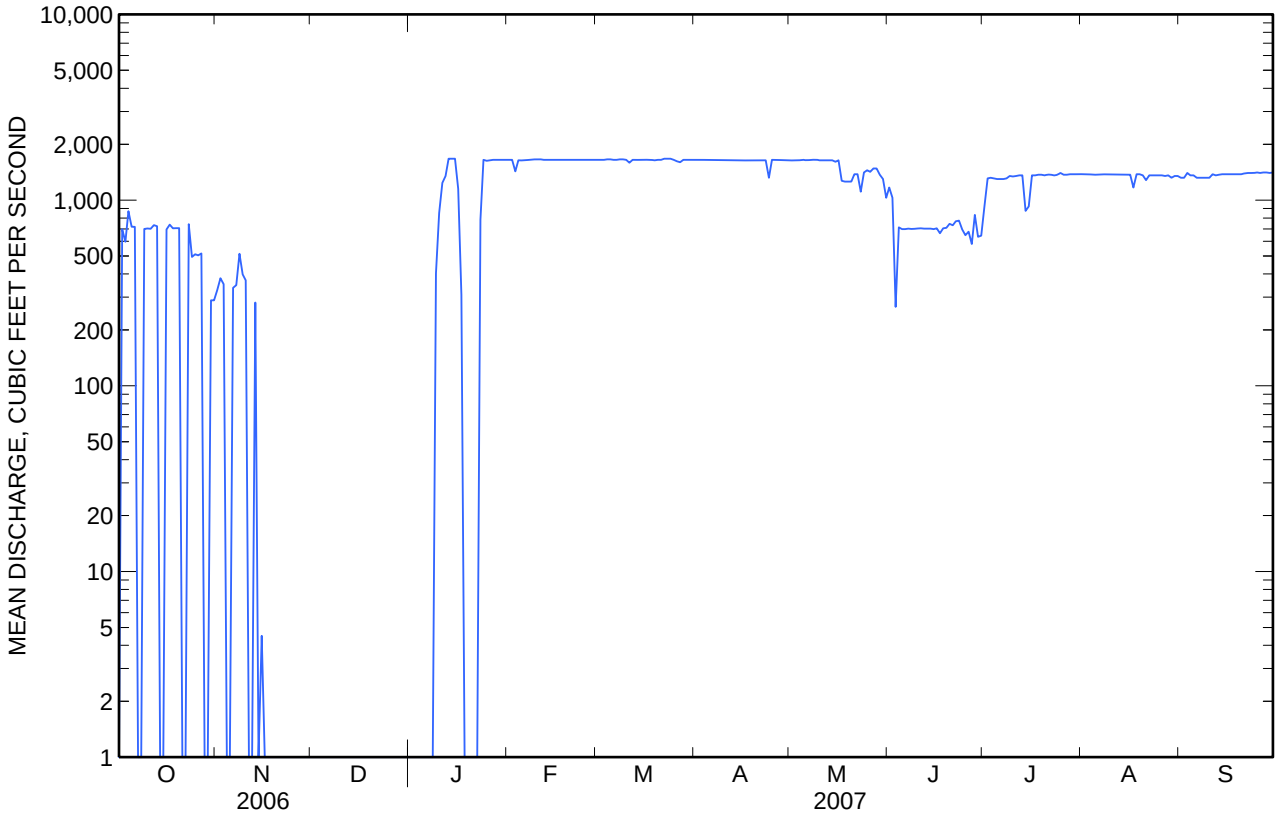
**SUMMARY STATISTICS**

| | Calendar Year 2006 | | Water Year 2007 | | Water Years 1996 - 2007 | |
|---|---|---|---|---|---|---|
| **Annual total** | 256,958.00 | | 379,069.50 | | | |
| **Annual mean** | 704 | | 1,039 | | 759 | |
| **Highest annual mean** | | | | | 1,195 | 2004 |
| **Lowest annual mean** | | | | | 318 | 1998 |
| **Highest daily mean** | 1,640 | Jan 8 | 1,670 | Jan 13 | 2,830 | Sep 6, 2000 |
| **Lowest daily mean** | 0.00 | Jan 1 | 0.00 | Oct 1 | 0.00 | Oct 1, 1995 |
| **Annual seven-day minimum** | 0.00 | Nov 16 | 0.00 | Nov 16 | 0.00 | Oct 21, 1995 |
| **Annual runoff (ac-ft)** | 509,700 | | 751,900 | | 550,000 | |
| **10 percent exceeds** | 1,400 | | 1,650 | | 1,550 | |
| **50 percent exceeds** | 753 | | 1,360 | | 760 | |
| **90 percent exceeds** | 0.00 | | 0.00 | | 0.00 | |