



Water-Data Report 2008

11295260 McKays Point Reservoir near Avery, CA

San Joaquin River Basin

LOCATION.--Lat 38°14'01", long 120°17'30" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.2, T.4 N., R.15 E., Calaveras County, CA, Hydrologic Unit 18040010, in Stanislaus National Forest, on right bank at outlet structure near upstream face of McKays Point Dam on North Fork Stanislaus River, and 4.6 mi northeast of Avery.

DRAINAGE AREA.--166 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1990 to current year.

REVISED RECORDS.--WDR CA-92-3: 1992 (instantaneous maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Calaveras County Water District).

COOPERATION.--Records were collected by Northern California Power Agency, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2409.

REMARKS.--Reservoir is formed by concrete arch-type dam completed in July 1989. Usable capacity, 1,928 acre-ft, between elevations 3,280.0 ft, minimum operating head, and 3,370.0 ft, crest of spillway. Water is diverted from reservoir through tunnel to Utica Canal (station 11295240) and Collierville Powerplant (station 11295250, near the confluence of the middle and north forks of the Stanislaus River). Released water is used for fishery maintenance. Records, including extremes, represent total contents at 2400 hours. See schematic diagram of Stanislaus River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,572 acre-ft, Jan. 1, 1997, elevation, 3,379.9 ft; minimum, 195 acre-ft, Oct. 7, 2006, elevation, 3,289.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,750 acre-ft, Mar. 27, elevation, 3,362.79 ft; minimum, 266 acre-ft, Nov. 2, elevation, 3,296.80 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on bathymetric survey in October 2005)**

| Elevation | Contents | Elevation | Contents | Elevation | Contents |
|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 3,280 | 124 | 3,340 | 1,067 | 3,370 | 1,990 |
| 3,300 | 304 | 3,360 | 1,664 | 3,380 | 2,317 |
| 3,320 | 620 | | | | |

11295260 McKays Point Reservoir near Avery, CA—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY OBSERVATION AT 2400 HOURS

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | 1,660 | 435 | 1,340 | 1,280 | 1,340 | 1,730 | 1,360 | 1,180 | 1,420 | 1,180 | 1,150 | 1,210 |
| 2 | 1,620 | 266 | 1,420 | 1,280 | 1,290 | 1,700 | 1,350 | 1,000 | 1,340 | 1,130 | 1,070 | 1,200 |
| 3 | 1,620 | 359 | 1,530 | 1,220 | 1,440 | 1,620 | 1,370 | 1,330 | 1,320 | 1,160 | 1,080 | 1,040 |
| 4 | 1,670 | 544 | 1,600 | 1,380 | 1,540 | 1,590 | 1,300 | 1,280 | 1,300 | 1,230 | 1,140 | 860 |
| 5 | 1,710 | 789 | 1,530 | 1,430 | 1,570 | 1,580 | 1,450 | 1,360 | 1,160 | 1,270 | 1,240 | 871 |
| 6 | 1,740 | 990 | 1,510 | 1,360 | 1,610 | 1,490 | 1,580 | 1,550 | 1,140 | 1,270 | 1,210 | 1,050 |
| 7 | 1,710 | 1,110 | 1,530 | 1,380 | 1,600 | 1,310 | 1,460 | 1,340 | 1,130 | 1,020 | 1,190 | 1,320 |
| 8 | 1,610 | 1,150 | 1,470 | 1,400 | 1,560 | 1,350 | 1,540 | 1,150 | 910 | 1,240 | 1,160 | 1,540 |
| 9 | 1,450 | 1,240 | 1,450 | 1,380 | 1,560 | 1,310 | 1,590 | 1,120 | 780 | 1,580 | 1,120 | 1,640 |
| 10 | 1,480 | 1,230 | 1,400 | 1,420 | 1,460 | 1,150 | 1,290 | 923 | 1,020 | 1,680 | 1,070 | 1,340 |
| 11 | 1,380 | 1,310 | 1,290 | 1,400 | 1,430 | 1,290 | 1,050 | 1,330 | 1,090 | 1,570 | 1,060 | 1,350 |
| 12 | 1,350 | 1,360 | 1,220 | 1,430 | 1,470 | 1,430 | 950 | 1,150 | 1,140 | 1,470 | 1,090 | 1,370 |
| 13 | 1,370 | 1,390 | 1,250 | 1,430 | 1,540 | 1,630 | 1,070 | 1,110 | 1,180 | 1,340 | 1,090 | 1,340 |
| 14 | 1,390 | 1,380 | 1,200 | 1,330 | 1,490 | 1,560 | 1,120 | 1,440 | 1,350 | 1,260 | 1,200 | 1,300 |
| 15 | 1,380 | 1,380 | 1,270 | 1,270 | 1,420 | 1,740 | 1,380 | 1,570 | 1,530 | 1,280 | 1,200 | 1,290 |
| 16 | 1,190 | 1,390 | 1,330 | 1,240 | 1,410 | 1,690 | 1,420 | 1,610 | 1,640 | 1,230 | 1,210 | 1,440 |
| 17 | 1,310 | 1,400 | 1,370 | 1,150 | 1,340 | 1,510 | 1,430 | 1,410 | 1,490 | 1,290 | 1,260 | 1,620 |
| 18 | 1,370 | 1,310 | 1,390 | 1,070 | 1,260 | 1,620 | 1,680 | 1,310 | 1,340 | 1,270 | 1,340 | 1,680 |
| 19 | 1,220 | 1,300 | 1,410 | 1,160 | 1,120 | 1,670 | 1,510 | 973 | 1,020 | 1,300 | 1,310 | 1,640 |
| 20 | 1,270 | 1,340 | 1,400 | 1,280 | 1,170 | 1,700 | 1,480 | 1,310 | 734 | 1,390 | 1,230 | 1,660 |
| 21 | 1,210 | 1,390 | 1,360 | 1,340 | 1,180 | 1,610 | 1,450 | 1,600 | 978 | 1,380 | 1,180 | 1,730 |
| 22 | 1,230 | 1,380 | 1,340 | 1,390 | 1,110 | 1,660 | 1,400 | 1,680 | 1,380 | 1,310 | 1,070 | 1,710 |
| 23 | 1,230 | 1,330 | 1,310 | 1,430 | 1,090 | 1,620 | 1,580 | 1,600 | 1,530 | 1,320 | 1,020 | 1,680 |
| 24 | 1,240 | 1,300 | 1,270 | 1,370 | 1,180 | 1,580 | 1,480 | 1,730 | 1,570 | 1,310 | 920 | 1,650 |
| 25 | 1,330 | 1,290 | 1,330 | 1,370 | 1,160 | 1,480 | 1,130 | 1,680 | 1,590 | 1,280 | 980 | 1,530 |
| 26 | 1,360 | 1,230 | 1,300 | 1,440 | 1,300 | 1,640 | 1,210 | 1,650 | 1,440 | 1,210 | 1,210 | 1,400 |
| 27 | 1,330 | 1,220 | 1,230 | 1,450 | 1,370 | 1,750 | 1,310 | 1,700 | 1,170 | 1,280 | 1,260 | 1,270 |
| 28 | 1,240 | 1,200 | 1,170 | 1,570 | 1,450 | 1,620 | 1,660 | 1,520 | 1,230 | 1,300 | 1,260 | 1,280 |
| 29 | 1,270 | 1,180 | 1,150 | 1,550 | 1,600 | 1,680 | 1,560 | 1,480 | 1,230 | 1,290 | 1,180 | 1,310 |
| 30 | 997 | 1,280 | 1,190 | 1,470 | --- | 1,740 | 1,330 | 1,310 | 1,210 | 1,210 | 1,230 | 1,190 |
| 31 | 734 | --- | 1,300 | 1,360 | --- | 1,490 | --- | 1,400 | --- | 1,240 | 1,260 | --- |
| Max | 1,740 | 1,400 | 1,600 | 1,570 | 1,610 | 1,750 | 1,680 | 1,730 | 1,640 | 1,680 | 1,340 | 1,730 |
| Min | 734 | 266 | 1,150 | 1,070 | 1,090 | 1,150 | 950 | 923 | 734 | 1,020 | 920 | 860 |
| Elevation, in feet, at end of month | 3,325.76 | 3,347.72 | 3,348.45 | 3,350.36 | 3,358.21 | 3,354.73 | 3,349.39 | 3,351.90 | 3,345.22 | 3,346.40 | 3,347.00 | 3,344.71 |
| Change in contents, in acre-feet | -876 | +546 | +20 | +60 | +240 | -110 | -160 | +70 | -190 | +30 | +20 | -70 |

| | Calendar Year 2007 | Water Year 2008 |
|---|--------------------|-----------------|
| Max | 1,930 | 1,750 |
| Min | 266 | 266 |
| Change in contents, in acre-feet | -20 | -420 |

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