

Water-Data Report 2006

11451000 Cache Creek near Lower Lake, CA

Sacramento River Basin

LOCATION.--Lat 38°55'27", long 122°33'53" referenced to North American Datum of 1927, in sec.6, T.12 N., R.6 W., Lake County, Hydrologic Unit 18020116, on left bank, 300 ft downstream from Cache Creek Dam, 1.5 mi downstream from Herndon Creek, 1.9 mi downstream from Copsey Creek, and 2.5 mi northeast of Lower Lake.

DRAINAGE AREA.--528 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1944 to current year.

CHEMICAL DATA: Water year 2000.

SEDIMENT DATA: Water year 2000.

GAGE.--Water-stage recorder and rain gage (station 385525122335501). Datum of gage is 1,279.34 ft above NGVD of 1929. Prior to Oct. 2, 1987, at datum 1.00 ft higher.

REMARKS.--Records rated fair except for estimated daily discharges, which are poor. Flow regulated by Clear Lake (station 11450000) from Cache Creek Dam, 500 ft upstream. See schematic diagram of lower Sacramento River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s, Feb. 17, 1998, gage height, 11.01 ft, present datum; no flow Nov. 8-20, 1977, Apr. 5, 6, 1987.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|-------|-------|---------|---------|--------|---------|---------|--------|--------|--------|--------|-------|
| 1 | 335 | 4.8 | 6.3 | 3,270 | 623 | 3,000 | 3,030 | 435 | 378 | 591 | 570 | 247 |
| 2 | 352 | 5.1 | 6.4 | 3,340 | 642 | 3,010 | 2,990 | 217 | 384 | 580 | 570 | 243 |
| 3 | 343 | 5.3 | 6.2 | 3,250 | 938 | 3,070 | 3,600 | 101 | 401 | 582 | 547 | 193 |
| 4 | 273 | 5.8 | 5.9 | 3,300 | 1,700 | 3,010 | 3,400 | 73 | 425 | 574 | 518 | 166 |
| 5 | 103 | 5.9 | 6.3 | 3,220 | 2,320 | 3,680 | 3,430 | 232 | 430 | 565 | 503 | 191 |
| 6 | 102 | 7.1 | 6.1 | e3,060 | 735 | 3,810 | 3,380 | 314 | 446 | 585 | 487 | 207 |
| 7 | 85 | 6.8 | 5.7 | e3,100 | 16 | 3,440 | 3,330 | 207 | 456 | 608 | 460 | 212 |
| 8 | 69 | 6.5 | 5.7 | 3,060 | 16 | 3,410 | 3,360 | 72 | 474 | 595 | 430 | 214 |
| 9 | 69 | 6.5 | 5.7 | 2,980 | 16 | 3,400 | 3,310 | 71 | 487 | 627 | 418 | 215 |
| 10 | 57 | 7.6 | 5.6 | 2,920 | 16 | 3,340 | 3,280 | 603 | 498 | 646 | 418 | 195 |
| 11 | 45 | 7.6 | 5.8 | 2,870 | 16 | 3,290 | 3,750 | 1,760 | 509 | 643 | 418 | 155 |
| 12 | 106 | 7.6 | 5.2 | 2,830 | 16 | 3,230 | 4,300 | 1,480 | 499 | 644 | 436 | 138 |
| 13 | 126 | 7.6 | 4.5 | 2,750 | 16 | 3,170 | 3,720 | 563 | 504 | 640 | 459 | 132 |
| 14 | 54 | 7.4 | 4.5 | 2,780 | 16 | 3,460 | 3,650 | 424 | 507 | 649 | 472 | 113 |
| 15 | 54 | 6.6 | 4.5 | 2,730 | 56 | 3,250 | 3,620 | 359 | 509 | 644 | 458 | 102 |
| 16 | 54 | 6.0 | 4.6 | 2,650 | 128 | 3,410 | 3,730 | 325 | 515 | 622 | 417 | 98 |
| 17 | 53 | 5.9 | 4.4 | 2,620 | 17 | 3,380 | 3,650 | 318 | 532 | 621 | 405 | 90 |
| 18 | 51 | 5.6 | 4.7 | 2,680 | 18 | 3,290 | 3,590 | 316 | 542 | 605 | 417 | 77 |
| 19 | 52 | 5.6 | 5.0 | 2,670 | 18 | 3,240 | 3,530 | 301 | 532 | 628 | 438 | 118 |
| 20 | 51 | 5.5 | 4.3 | 2,640 | 16 | 3,190 | 3,510 | 302 | 513 | 583 | 429 | 165 |
| 21 | 52 | 5.8 | 4.4 | 2,610 | 16 | 3,170 | 3,440 | 305 | 521 | 606 | 376 | 157 |
| 22 | 51 | 6.0 | 4.9 | 2,570 | 16 | 3,120 | 3,380 | 248 | 531 | 561 | 340 | 147 |
| 23 | 51 | 6.0 | 4.8 | 2,530 | 16 | 3,060 | 3,330 | 178 | 564 | 564 | 327 | 146 |
| 24 | 52 | 6.0 | 5.1 | 2,500 | 16 | 3,030 | 3,210 | 159 | 586 | 569 | 326 | 145 |
| 25 | 52 | 6.0 | 5.5 | 2,420 | 17 | 2,260 | 3,140 | 178 | 597 | 573 | 480 | 145 |
| 26 | 52 | 5.8 | 6.2 | 2,410 | 17 | 1,880 | 3,100 | 272 | 614 | 583 | 429 | 152 |
| 27 | 53 | 5.7 | 453 | 2,380 | 2,490 | 1,870 | 2,320 | 369 | 629 | 584 | 379 | 172 |
| 28 | 50 | 5.7 | 1,670 | 2,360 | 3,280 | e1,880 | 1,320 | 305 | 632 | 592 | 302 | 172 |
| 29 | 47 | 5.9 | 1,580 | 1,580 | --- | e2,500 | 748 | 281 | 628 | 584 | 270 | 140 |
| 30 | 75 | 6.1 | 2,190 | 385 | --- | e3,000 | 642 | 315 | 599 | 567 | 242 | 120 |
| 31 | 67 | --- | 3,590 | 453 | --- | 3,020 | --- | 342 | --- | 561 | 227 | --- |
| Total | 3,036 | 185.8 | 9,621.3 | 80,918 | 13,207 | 94,870 | 94,790 | 11,425 | 15,442 | 18,576 | 12,968 | 4,767 |
| Mean | 97.9 | 6.19 | 310 | 2,610 | 472 | 3,060 | 3,160 | 369 | 515 | 599 | 418 | 159 |
| Max | 352 | 7.6 | 3,590 | 3,340 | 3,280 | 3,810 | 4,300 | 1,760 | 632 | 649 | 570 | 247 |
| Min | 45 | 4.8 | 4.3 | 385 | 16 | 1,870 | 642 | 71 | 378 | 561 | 227 | 77 |
| Ac-ft | 6,020 | 369 | 19,080 | 160,500 | 26,200 | 188,200 | 188,000 | 22,660 | 30,630 | 36,850 | 25,720 | 9,460 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2006, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 35.8 | 14.9 | 108 | 650 | 809 | 845 | 574 | 345 | 387 | 406 | 326 | 172 |
| Max | 191 | 683 | 2,584 | 3,047 | 4,988 | 4,919 | 3,538 | 951 | 702 | 651 | 514 | 325 |
| (WY) | (1996) | (1984) | (1984) | (1997) | (1998) | (1983) | (1958) | (1983) | (2000) | (1998) | (1999) | (1995) |
| Min | 0.40 | 0.17 | 0.14 | 0.18 | 0.17 | 0.32 | 0.42 | 0.40 | 0.29 | 0.41 | 0.71 | 0.55 |
| (WY) | (1978) | (1978) | (1991) | (1991) | (1991) | (1955) | (1990) | (1990) | (1991) | (1977) | (1977) | (1977) |

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SUMMARY STATISTICS

| | Calendar Year 2005 | | Water Year 2006 | | Water Years 1945 - 2006 | |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| Annual total | 106,142.0 | | 359,806.1 | | | |
| Annual mean | 291 | | 986 | | 387 | |
| Highest annual mean | | | | | 1,342 | 1983 |
| Lowest annual mean | | | | | 0.67 | 1990 |
| Highest daily mean | 3,590 | Dec 31 | 4,300 | Apr 12 | 7,200 | Feb 18, 1998 |
| Lowest daily mean | 4.3 | Dec 20 | 4.3 | Dec 20 | 0.00 | Nov 8, 1977 |
| Annual seven-day minimum | 4.6 | Dec 15 | 4.6 | Dec 15 | 0.00 | Nov 8, 1977 |
| Maximum peak flow | | | 5,200 | Jan 6 | 10,200 | Feb 17, 1998 |
| Maximum peak stage | | | 9.44 | Jan 6 | 11.01 | Feb 17, 1998 |
| Annual runoff (ac-ft) | 210,500 | | 713,700 | | 280,600 | |
| 10 percent exceeds | 582 | | 3,270 | | 650 | |
| 50 percent exceeds | 162 | | 425 | | 73 | |
| 90 percent exceeds | 6.0 | | 6.0 | | 1.3 | |

