

## SACRAMENTO RIVER BASIN

## 11399000 LAKE ALMANOR AT PRATTVILLE, CA

LOCATION.--Lat 40°12'46", long 121°09'43", in SW 1/4 NE 1/4 sec.11, T.27 N., R.7 E., Plumas County, Hydrologic Unit 18020121, Lassen National Forest, at intake tower to Butt Valley tunnel at Prattville, 4.7 mi northwest of Lake Almanor Dam, and 5.6 mi northwest of Canyon Dam.

DRAINAGE AREA.--491 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1913 to current year. Monthly contents only for some periods, published in WSP 1315-A. Published as "near Prattville" 1937-60. Prior to October 1964, records published as usable contents.

REVISED RECORDS.--WSP 1931: Drainage area.

GAGE.--Nonrecording gage read once daily. Datum of gage is 10.23 ft below National Geodetic Vertical Datum of 1929 (Levels by Pacific Gas and Electric Co.). Prior to June 1, 1965, nonrecording gage at site 4.7 mi southeast at same datum.

REMARKS.--Lake is formed by earthfill dam; storage began in July 1913; dam raised to gage height 4,455 ft in 1917 and 4,515 ft in 1927. Capacity, 1,183,835 acre-ft between gage heights 4,495.5 ft, upper storage limit and 4,422 ft, bottom of lowest outlet, of which 8,948 acre-ft is not available for release. Water is diverted by tunnel and penstock to Butt Valley powerplant and reservoir for use in Caribou powerplants; some water also released down North Fork Feather River (station 11399500). Figures given herein, including extremes, represent total contents at 2400 hours. See schematic diagram of North Fork Feather River basin.

COOPERATION.--Records were collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project. Contents not rounded to Geological Survey standards.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 1,142,960 acre-ft, June 8, 1982, gage height, 4,494.00 ft; minimum, 5,230 acre-ft, Feb. 5, 1918, gage height, 4,416.1 ft.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 1,103,890 acre-ft, June 1-3, gage height, 4,492.55 ft; minimum, 593,360 acre-ft, Oct. 27, gage height, 4,471.34 ft.

## Capacity table (gage height, in feet, and contents, in acre-feet)

|       |        |       |         |         |           |
|-------|--------|-------|---------|---------|-----------|
| 4,422 | 8,948  | 4,434 | 49,510  | 4,460   | 376,686   |
| 4,424 | 10,067 | 4,437 | 74,189  | 4,470   | 565,519   |
| 4,426 | 11,260 | 4,440 | 101,869 | 4,480   | 787,304   |
| 4,428 | 13,480 | 4,445 | 156,414 | 4,490   | 1,036,269 |
| 4,430 | 21,200 | 4,450 | 220,848 | 4,495.5 | 1,183,835 |
| 4,432 | 34,173 | 4,455 | 294,531 |         |           |

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
INSTANTANEOUS OBSERVATIONS AT 2400

| DAY | OCT     | NOV     | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL     | AUG     | SEP     |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1   | 635040  | 597570  | 629190  | 662230  | 708390  | 899260  | 1011710 | 1043880 | 1103890 | 1059170 | 997200  | 922190  |
| 2   | 633090  | 598200  | 631140  | 663560  | 713610  | 902990  | 1013530 | 1043620 | 1103890 | 1057320 | 995130  | 918430  |
| 3   | 631360  | 599050  | 634180  | 664440  | 716110  | 904970  | 1015090 | 1045200 | 1103890 | 1054950 | 993060  | 915690  |
| 4   | 629620  | 600100  | 635040  | 666880  | 717480  | 906460  | 1017960 | 1046510 | 1103090 | 1053360 | 991260  | 912440  |
| 5   | 627890  | 601160  | 636570  | 668650  | 719310  | 908210  | 1019000 | 1049940 | 1102280 | 1050460 | 989450  | 908950  |
| 6   | 625730  | 602010  | 637870  | 670210  | 719760  | 911440  | 1020570 | 1052570 | 1101210 | 1048620 | 986880  | 905220  |
| 7   | 622930  | 602850  | 639180  | 671320  | 722270  | 920930  | 1022390 | 1054950 | 1100680 | 1046250 | 984300  | 901500  |
| 8   | 621640  | 603280  | 639400  | 672430  | 723870  | 938510  | 1023700 | 1057060 | 1099870 | 1044140 | 982250  | 897530  |
| 9   | 619490  | 604340  | 641580  | 672430  | 724330  | 948610  | 1025000 | 1059170 | 1098000 | 1042040 | 979940  | 894060  |
| 10  | 616490  | 606670  | 642450  | 672430  | 725930  | 959510  | 1026310 | 1061290 | 1097200 | 1040200 | 977630  | 891100  |
| 11  | 614350  | 607730  | 642670  | 673550  | 726660  | 966130  | 1027880 | 1064200 | 1095330 | 1038100 | 975320  | 889120  |
| 12  | 611570  | 607310  | 643540  | 674440  | 730740  | 971230  | 1029450 | 1067110 | 1094260 | 1035740 | 973270  | 885670  |
| 13  | 609440  | 607950  | 643760  | 674660  | 733270  | 975580  | 1030500 | 1069500 | 1093190 | 1033640 | 970720  | 881730  |
| 14  | 606670  | 608800  | 645290  | 675770  | 744090  | 978910  | 1032070 | 1072150 | 1090520 | 1031020 | 968680  | 878050  |
| 15  | 606250  | 609220  | 645950  | 676000  | 754510  | 983020  | 1034690 | 1074550 | 1089190 | 1028400 | 966380  | 874370  |
| 16  | 603910  | 610500  | 647040  | 679350  | 765930  | 985330  | 1034690 | 1076670 | 1087320 | 1027620 | 963830  | 872160  |
| 17  | 604340  | 611360  | 648140  | 683590  | 787060  | 988680  | 1035470 | 1079330 | 1085190 | 1024740 | 961290  | 869960  |
| 18  | 602850  | 612000  | 649010  | 685840  | 812220  | 991000  | 1034950 | 1081990 | 1083330 | 1022390 | 959000  | 869470  |
| 19  | 603700  | 612850  | 649890  | 689200  | 832350  | 992290  | 1035710 | 1084920 | 1081460 | 1020300 | 956720  | 868980  |
| 20  | 602850  | 613490  | 650330  | 691670  | 847320  | 993840  | 1037050 | 1086790 | 1079870 | 1017960 | 954430  | 865800  |
| 21  | 600950  | 614350  | 650330  | 692570  | 856550  | 994610  | 1037570 | 1089990 | 1078270 | 1015610 | 951900  | 862880  |
| 22  | 600310  | 614990  | 650330  | 693920  | 864580  | 995650  | 1039670 | 1091590 | 1076670 | 1013790 | 949370  | 859710  |
| 23  | 599050  | 616700  | 652750  | 694820  | 871180  | 996680  | 1040990 | 1094260 | 1074810 | 1011970 | 947090  | 856790  |
| 24  | 597570  | 619700  | 653630  | 695270  | 876080  | 997710  | 1040460 | 1096660 | 1073220 | 1009370 | 944570  | 854360  |
| 25  | 595460  | 619270  | 654070  | 696850  | 881730  | 1002110 | 1043090 | 1098800 | 1071360 | 1006000 | 942040  | 851930  |
| 26  | 593780  | 619920  | 654730  | 697980  | 885920  | 1002890 | 1044410 | 1101480 | 1069240 | 1004440 | 940020  | 850720  |
| 27  | 593360  | 621420  | 656050  | 697300  | 890360  | 1004700 | 1044410 | 1102550 | 1067110 | 1005480 | 937500  | 847810  |
| 28  | 593990  | 623360  | 657150  | 697300  | 895050  | 1005220 | 1044140 | 1102550 | 1064730 | 1004960 | 935240  | 844660  |
| 29  | 596040  | 625300  | 658250  | 699110  | ---     | 1005740 | 1044140 | 1102550 | 1063140 | 1003150 | 931720  | 842240  |
| 30  | 595670  | 627240  | 659360  | 702270  | ---     | 1007820 | 1043620 | 1102820 | 1061550 | 1001080 | 928450  | 841040  |
| 31  | 596940  | ---     | 661340  | 705890  | ---     | 1009110 | ---     | 1102550 | ---     | 999010  | 925440  | ---     |
| MAX | 635040  | 627240  | 661340  | 705890  | 895050  | 1009110 | 1044410 | 1102820 | 1103890 | 1059170 | 997200  | 922190  |
| MIN | 593360  | 597570  | 629190  | 662230  | 708390  | 899260  | 1011710 | 1043620 | 1061550 | 999010  | 925440  | 841040  |
| a   | 4471.51 | 4472.93 | 4474.49 | 4476.48 | 4484.46 | 4488.96 | 4490.28 | 4492.50 | 4490.96 | 4488.57 | 4485.68 | 4482.25 |
| b   | -38760  | +30300  | +34100  | +44550  | +189160 | +114060 | +34510  | +58930  | -41000  | -62540  | -73570  | -84400  |

CAL YR 1985 b -202760

WTR YR 1986 b +205340