

METHOW RIVER BASIN

12447370 LOST RIVER NEAR MAZAMA, WA

LOCATION.--Lat 48°39'19", long 120°30'18", in SE 1/4 NW 1/4 sec.5 T.36 N., R.19 E., Okanogan County, Hydrologic Unit 17020008, on right bank at Lost River Rd., 0.5 mi upstream from mouth, and 6.5 mi northwest of Mazama.

DRAINAGE AREA.--146 mi².

PERIOD OF RECORD.--Oct. 1, 2000 to current year. Miscellaneous discharge measurements 1926, 1970-71, 1990.

GAGE.--Water-stage recorder. Elevation of gage is 2,370 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are fair. No known diversions for irrigation upstream from station.

AVERAGE DISCHARGE.--2 years (water years 2001-2002), 178 ft³/s, 16.54 in/yr, 128,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,040 ft³/s June 16, 2002, gage height 9.58 ft; minimum discharge 6.6 ft³/s Feb. 27, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,040 ft³/s June 16, gage height 9.58 ft; minimum discharge, 18 ft³/s Feb. 12 and 13, gage height 5.55 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 26 | 26 | 36 | 25 | 22 | 49 | 76 | 465 | 1510 | 827 | 169 | 69 |
| 2 | 25 | 24 | 34 | 26 | 22 | 47 | 70 | 587 | 1500 | 709 | 157 | 69 |
| 3 | 24 | 25 | 33 | 25 | 22 | 46 | 69 | 571 | 1470 | 657 | 146 | 67 |
| 4 | 24 | 24 | 32 | 24 | 21 | 47 | 81 | 515 | 1550 | 658 | 139 | 64 |
| 5 | 24 | 24 | 32 | 24 | 21 | 50 | 106 | 460 | 1660 | 575 | 133 | 63 |
| 6 | 23 | 24 | 31 | 25 | 21 | 48 | 138 | 399 | 1620 | 553 | 128 | 61 |
| 7 | 23 | 22 | 30 | 27 | 21 | 46 | 152 | 354 | 1290 | 591 | 123 | 60 |
| 8 | 23 | 23 | 31 | 31 | 20 | 44 | 146 | 319 | 1050 | 949 | 119 | 58 |
| 9 | 23 | 21 | 30 | 30 | 19 | 43 | 139 | 293 | 893 | 782 | 117 | 56 |
| 10 | 23 | 21 | 30 | 30 | 19 | 42 | 139 | 275 | 856 | 739 | 119 | 55 |
| 11 | 24 | 21 | 29 | 30 | 19 | 44 | 158 | 276 | 1070 | 803 | 116 | 53 |
| 12 | 23 | 21 | 28 | 30 | 19 | 41 | 187 | 325 | 1370 | 762 | 110 | 52 |
| 13 | 24 | 23 | 30 | 29 | 19 | 39 | 284 | 477 | 1640 | 698 | 107 | 51 |
| 14 | 23 | 52 | 29 | 29 | 19 | 38 | 473 | 616 | 1760 | 690 | 108 | 50 |
| 15 | 23 | 76 | 28 | 28 | 19 | 37 | 369 | 614 | 1740 | 595 | 105 | 48 |
| 16 | 22 | 85 | e27 | 28 | 19 | 37 | 283 | 594 | 1820 | 538 | 101 | 48 |
| 17 | 22 | 62 | e28 | 27 | 19 | 35 | 233 | 654 | 1550 | 511 | 96 | 47 |
| 18 | 22 | 53 | 29 | 27 | 19 | 34 | 202 | 721 | 1360 | 475 | 92 | 46 |
| 19 | 21 | 49 | 28 | 27 | 20 | 34 | 187 | 726 | 1140 | 440 | 89 | 46 |
| 20 | 21 | 48 | 27 | 27 | 20 | 33 | 189 | 1080 | 1080 | 394 | 87 | 45 |
| 21 | 21 | 49 | 27 | 26 | 24 | 31 | 204 | 1340 | 1220 | 353 | 87 | 44 |
| 22 | 22 | 49 | 27 | 25 | 113 | 31 | 214 | 1110 | 1390 | 328 | 85 | 43 |
| 23 | 26 | 47 | 27 | 25 | 133 | 33 | 211 | 932 | 1460 | 316 | 83 | 42 |
| 24 | 23 | 44 | 27 | 25 | 87 | 39 | 200 | 866 | 1350 | 312 | 82 | 41 |
| 25 | 23 | 42 | 26 | 26 | 73 | 46 | 193 | 893 | 1310 | 297 | 84 | 40 |
| 26 | 23 | 40 | 25 | 24 | 65 | 56 | 188 | 982 | 1450 | 292 | 83 | 39 |
| 27 | 23 | 38 | 26 | 24 | 58 | 53 | 184 | 1130 | 1500 | 261 | 80 | 38 |
| 28 | 24 | 37 | 26 | 23 | 53 | 51 | 184 | 1470 | 1300 | 232 | 78 | 38 |
| 29 | 22 | 37 | 26 | 22 | --- | 52 | 209 | 1710 | 1230 | 219 | 75 | 37 |
| 30 | 22 | 35 | 25 | 23 | --- | 57 | 308 | 1760 | 1040 | 202 | 74 | 36 |
| 31 | 28 | --- | 25 | 23 | --- | 68 | --- | 1670 | --- | 187 | 72 | --- |
| TOTAL | 720 | 1142 | 889 | 815 | 1006 | 1351 | 5776 | 24184 | 41179 | 15945 | 3244 | 1506 |
| MEAN | 23.23 | 38.07 | 28.68 | 26.29 | 35.93 | 43.58 | 192.5 | 780.1 | 1373 | 514.4 | 104.6 | 50.20 |
| MAX | 28 | 85 | 36 | 31 | 133 | 68 | 473 | 1760 | 1820 | 949 | 169 | 69 |
| MIN | 21 | 21 | 25 | 22 | 19 | 31 | 69 | 275 | 856 | 187 | 72 | 36 |
| AC-FT | 1430 | 2270 | 1760 | 1620 | 2000 | 2680 | 11460 | 47970 | 81680 | 31630 | 6430 | 2990 |
| CFSM | 0.16 | 0.26 | 0.20 | 0.18 | 0.25 | 0.30 | 1.32 | 5.34 | 9.40 | 3.52 | 0.72 | 0.34 |
| IN. | 0.18 | 0.29 | 0.23 | 0.21 | 0.26 | 0.34 | 1.47 | 6.16 | 10.49 | 4.06 | 0.83 | 0.38 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

| | 2001 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MEAN | 27.76 | 31.08 | 22.39 | 18.95 | 22.09 | 32.34 | 122.0 | 573.8 | 834.9 | 320.9 | 80.63 | 40.62 |
| MAX | 32.3 | 38.1 | 28.7 | 26.3 | 35.9 | 43.6 | 193 | 780 | 1373 | 514 | 105 | 50.2 |
| (WY) | 2001 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 |
| MIN | 23.2 | 24.1 | 16.1 | 11.6 | 8.25 | 21.1 | 51.5 | 367 | 297 | 127 | 56.6 | 31.0 |
| (WY) | 2002 | 2001 | 2001 | 2001 | 2001 | 2001 | 2001 | 2001 | 2001 | 2001 | 2001 | 2001 |

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

| | | | |
|--------------------------|---------|--------|--------|
| ANNUAL TOTAL | 32484.0 | 97757 | |
| ANNUAL MEAN | 89.00 | 267.8 | 177.7 |
| HIGHEST ANNUAL MEAN | | | 268 |
| LOWEST ANNUAL MEAN | | | 87.6 |
| HIGHEST DAILY MEAN | 945 | May 25 | 1820 |
| LOWEST DAILY MEAN | 7.2 | Feb 20 | 19 |
| ANNUAL SEVEN-DAY MINIMUM | 7.4 | Feb 16 | 19 |
| ANNUAL RUNOFF (AC-FT) | 64430 | 193900 | 128700 |
| ANNUAL RUNOFF (CFSM) | 0.61 | 1.83 | 1.22 |
| ANNUAL RUNOFF (INCHES) | 8.28 | 24.91 | 16.54 |
| 10 PERCENT EXCEEDS | 249 | 1010 | 552 |
| 50 PERCENT EXCEEDS | 30 | 51 | 37 |
| 90 PERCENT EXCEEDS | 10 | 23 | 15 |

e Estimated