

12433200 CHAMOKANE CREEK BELOW FALLS, NEAR LONG LAKE, WA

LOCATION.--Lat 47°51'42", long 117°51'28", in SE¼SW¼ sec.2, T.27 N., R.39 E., Stevens County, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank 800 ft downstream from Chamokane Falls, 1.4 mi upstream from mouth, 1.8 mi north of town of Long Lake, and at mile 1.6.

DRAINAGE AREA.--179 mi².

PERIOD OF RECORD.--February 1971 to September 1978, April 1984 to September 1987 (seasonal records), October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,420 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No known regulation. Diversions upstream for irrigation, domestic use, and fish hatchery. Pumpage from ground-water wells can cause small fluctuations in discharge. Water temperature records April 1984 to September 1987 (seasonal records); October 1987 to September 1989. U.S. Geological Survey satellite telemeter at site.

AVERAGE DISCHARGE.--25 years (water years 1972-78, 1988-2005), 62.2 ft³/s, 4.72 in/yr, 45,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200 ft³/s, Apr. 25, 1975, gage height, 5.06 ft, from rating curve extended above 500 ft³/s, on basis of slope-area measurement of peak flow; maximum gage height, 5.37 ft, Mar. 20, 1997; minimum discharge, 9.4 ft³/s, Dec. 30, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 401 ft³/s, Mar. 28, gage height, 2.90 ft; minimum discharge, 18 ft³/s, part of each day June 21-25, Aug. 1-10, 13-16, 21, and Sept. 6-9.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 26 | 25 | 24 | 24 | 28 | 26 | 92 | 26 | 24 | e21 | e19 | 21 |
| 2 | 26 | 30 | 24 | 23 | 27 | 26 | 89 | 26 | 23 | e21 | 19 | 22 |
| 3 | 27 | 28 | 24 | 23 | 27 | 26 | 79 | 26 | 23 | e20 | 19 | 22 |
| 4 | 27 | 27 | 24 | 23 | 27 | 26 | 75 | 27 | 22 | e20 | 19 | 23 |
| 5 | 27 | 26 | 25 | 22 | 27 | 26 | 75 | 26 | 24 | e20 | 20 | 23 |
| 6 | 27 | 26 | 25 | 23 | 26 | 26 | 63 | 26 | 23 | 20 | 20 | 19 |
| 7 | 27 | 26 | 25 | 24 | 26 | 26 | 58 | 26 | 22 | 20 | 19 | 19 |
| 8 | 27 | 26 | 34 | 24 | 26 | 26 | 54 | 26 | 22 | 19 | 20 | 19 |
| 9 | 27 | 25 | 30 | 24 | 26 | 26 | 50 | 27 | 21 | 25 | 19 | 19 |
| 10 | 27 | 25 | 31 | 24 | 26 | 27 | 46 | 30 | 21 | 24 | 20 | 20 |
| 11 | 27 | 25 | 30 | 24 | 27 | 26 | 44 | 27 | 21 | 22 | 22 | 20 |
| 12 | 26 | 25 | 27 | e23 | 27 | 27 | 45 | 26 | 22 | 21 | 20 | 21 |
| 13 | 26 | 25 | 26 | e23 | 26 | 27 | 44 | 26 | 21 | 20 | 20 | 21 |
| 14 | 26 | 25 | 26 | e23 | 26 | 27 | 41 | 26 | 22 | 20 | 19 | 21 |
| 15 | 26 | 25 | 25 | e22 | 26 | 26 | 38 | 28 | 21 | 19 | 19 | 20 |
| 16 | 26 | 26 | 25 | e23 | 25 | 26 | 37 | 28 | 21 | 20 | 19 | 21 |
| 17 | 31 | 25 | 24 | e24 | 25 | 26 | 39 | 26 | 21 | e20 | 22 | 21 |
| 18 | 33 | 26 | 24 | e25 | 25 | 26 | 40 | 26 | 21 | e21 | 21 | 20 |
| 19 | 27 | 25 | 24 | e25 | 25 | 26 | 36 | 27 | 21 | e21 | 21 | 20 |
| 20 | 26 | 25 | 24 | e26 | 25 | 27 | 33 | 27 | 20 | e21 | 20 | 20 |
| 21 | 25 | 25 | 24 | e26 | 25 | 26 | 32 | 26 | 19 | e22 | 20 | 20 |
| 22 | 27 | 25 | 23 | e26 | 25 | 26 | 30 | 27 | 19 | 24 | 21 | 21 |
| 23 | 25 | 25 | 23 | 26 | 25 | 26 | 29 | 26 | 19 | 23 | 21 | 21 |
| 24 | 25 | 29 | 24 | 26 | 25 | 26 | 29 | 26 | 19 | 23 | 21 | 22 |
| 25 | 25 | 26 | 23 | 25 | 25 | 25 | 28 | 25 | e19 | 22 | 21 | 22 |
| 26 | 25 | 24 | 24 | 25 | 25 | 30 | 27 | 24 | e22 | 22 | 21 | 22 |
| 27 | 25 | 24 | 24 | 26 | 25 | 50 | 26 | 25 | e21 | 22 | 21 | 22 |
| 28 | 25 | 24 | 23 | 27 | 26 | 294 | 26 | 25 | e23 | e22 | 21 | 22 |
| 29 | 25 | 24 | 24 | 27 | --- | 225 | 27 | 24 | e22 | e21 | 21 | 22 |
| 30 | 25 | 24 | 24 | 27 | --- | 160 | 26 | 24 | e22 | e21 | 21 | 23 |
| 31 | 25 | --- | 24 | 27 | --- | 115 | --- | 23 | --- | e20 | 21 | --- |
| TOTAL | 819 | 766 | 781 | 760 | 724 | 1,528 | 1,358 | 808 | 641 | 657 | 627 | 629 |
| MEAN | 26.4 | 25.5 | 25.2 | 24.5 | 25.9 | 49.3 | 45.3 | 26.1 | 21.4 | 21.2 | 20.2 | 21.0 |
| MAX | 33 | 30 | 34 | 27 | 28 | 294 | 92 | 30 | 24 | 25 | 22 | 23 |
| MIN | 25 | 24 | 23 | 22 | 25 | 25 | 26 | 23 | 19 | 19 | 19 | 19 |
| AC-FT | 1,620 | 1,520 | 1,550 | 1,510 | 1,440 | 3,030 | 2,690 | 1,600 | 1,270 | 1,300 | 1,240 | 1,250 |
| CFSM | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.28 | 0.25 | 0.15 | 0.12 | 0.12 | 0.11 | 0.12 |
| IN. | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.32 | 0.28 | 0.17 | 0.13 | 0.14 | 0.13 | 0.13 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 28.6 | 29.9 | 43.8 | 58.7 | 76.8 | 169 | 155 | 64.8 | 38.6 | 29.3 | 26.8 | 26.9 |
| MAX | 41.5 | 47.5 | 236 | 239 | 232 | 626 | 564 | 257 | 115 | 59.5 | 47.2 | 43.0 |
| (WY) | (1998) | (1974) | (1974) | (1997) | (1995) | (1997) | (1975) | (1975) | (1997) | (1997) | (1997) | (1997) |
| MIN | 18.9 | 19.1 | 17.1 | 17.4 | 21.2 | 29.9 | 22.6 | 19.6 | 19.4 | 18.2 | 18.4 | 18.1 |
| (WY) | (1993) | (1993) | (1993) | (1993) | (1994) | (1977) | (1992) | (1992) | (1994) | (1994) | (1994) | (1990) |

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| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1971 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 12,019 | | 10,098 | | | |
| ANNUAL MEAN | 32.8 | | 27.7 | | 62.2 | |
| HIGHEST ANNUAL MEAN | | | | | 170 | 1997 |
| LOWEST ANNUAL MEAN | | | | | 25.8 | 1994 |
| HIGHEST DAILY MEAN | 104 | Mar 19 | 294 | Mar 28 | 1,750 | Mar 20, 1997 |
| LOWEST DAILY MEAN | 23 | Jul 16 | 19 | Jun 21 | 15 | Dec 26, 1977 |
| ANNUAL SEVEN-DAY MINIMUM | 23 | Dec 22 | 19 | Aug 1 | 16 | Jan 2, 1993 |
| ANNUAL RUNOFF (AC-FT) | 23,840 | | 20,030 | | 45,070 | |
| ANNUAL RUNOFF (CFSM) | 0.183 | | 0.155 | | 0.348 | |
| ANNUAL RUNOFF (INCHES) | 2.50 | | 2.10 | | 4.72 | |
| 10 PERCENT EXCEEDS | 50 | | 29 | | 128 | |
| 50 PERCENT EXCEEDS | 28 | | 25 | | 30 | |
| 90 PERCENT EXCEEDS | 24 | | 20 | | 20 | |

e Estimated