

## SPOKANE RIVER BASIN

## 12419000 SPOKANE RIVER NEAR POST FALLS, ID

LOCATION.--Lat 47°42'11", long 116°58'37", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.4, T.50 N., R.5 W., Kootenai County, Hydrologic Unit 17010305, on right bank, 1 mi downstream from powerplant of Avista Utilities, 1.5 mi southwest of Post Falls, and at mile 100.7.

DRAINAGE AREA.--3,840 mi<sup>2</sup>, approximately, of which about 122 mi<sup>2</sup> in the vicinity of Hayden Lake is noncontributing to this station.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to current year (prior to January 1913, monthly discharge only, published in WSP 870 and 1736). Prior to October 1949, published as "at Post Falls."

GAGE.--Water-stage recorder. Datum of gage is 2,050 ft, referred to originally accepted elevation of 2,157.40 ft for the U.S. Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). Gage datum is 2,047.00 ft above sea level. Jan. 1, 1913, to Nov. 21, 1920, nonrecording gage, and Nov. 22, 1920, to Sept. 15, 1934, recording gage 0.6 mi upstream. From Sept. 16, 1934, to Nov. 15, 1949, recording gage 0.8 mi upstream. From Nov. 16, 1949, at present site. Datum of all gages prior to Sept. 30, 1964, 50 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by dam at Post Falls and affected by storage in Coeur d'Alene Lake (sta 12415500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,100 ft<sup>3</sup>/s, when recorder was not operating, Dec. 25, 1933, (determined from unpublished records collected by Washington Water Power Co. for station at Liberty Bridge); minimum, 65 ft<sup>3</sup>/s July 25, 30, 1973; minimum gage height, 4.68 ft, July 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,100 ft<sup>3</sup>/s May 2, gage height, 17.12 ft; minimum daily, 224 ft<sup>3</sup>/s Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|--------|--------|--------|-------|-------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 2030   | 2520   | 1830   | 1370  | 912   | 1350   | 3690   | 12300  | 5140   | 1870  | 766   | 252   |
| 2     | 2030   | 2510   | 1830   | 1370  | 908   | 1410   | 4070   | 15300  | 4770   | 1870  | 740   | 253   |
| 3     | 2030   | 2500   | 1830   | 1370  | 904   | 1420   | 4420   | 16400  | 4800   | 1930  | 638   | 253   |
| 4     | 2030   | 2510   | 1830   | 1360  | 902   | 1420   | 4540   | 16200  | 4770   | 1700  | 592   | 256   |
| 5     | 2030   | 2510   | 1320   | 1360  | 1010  | 1410   | 4590   | 15800  | 4790   | 1540  | 591   | 236   |
| 6     | 2020   | 2510   | 735    | 1360  | 1140  | 1460   | 4570   | 14300  | 4940   | 1540  | 538   | 243   |
| 7     | 2030   | 2510   | 713    | 1360  | 1140  | 1480   | 4600   | 12000  | 4990   | 1390  | 511   | 265   |
| 8     | 2270   | 2510   | 1290   | 1360  | 1180  | 1470   | 4590   | 11100  | 4620   | 1160  | 504   | 291   |
| 9     | 2470   | 2510   | 1800   | 1020  | 1240  | 1470   | 4580   | 9130   | 4340   | 1060  | 391   | 285   |
| 10    | 2480   | 2540   | 1800   | 700   | 1250  | 1490   | 4560   | 7800   | 4100   | 1060  | 336   | 659   |
| 11    | 2480   | 2520   | 1800   | 729   | 1250  | 1500   | 4550   | 7840   | 3820   | 1130  | 335   | 1040  |
| 12    | 2470   | 2510   | 1790   | 719   | 1250  | 1500   | 4560   | 8470   | 3820   | 1110  | 334   | 1040  |
| 13    | 2460   | 2500   | 1790   | 708   | 1210  | 1750   | 4560   | 8970   | 3810   | 968   | 334   | 1020  |
| 14    | 2460   | 2480   | 1790   | 697   | 1210  | 1910   | 4580   | 12500  | 3720   | 911   | 297   | 1010  |
| 15    | 2460   | 2020   | 1790   | 699   | 1140  | 1910   | 4570   | 15300  | 3420   | 912   | 257   | 1050  |
| 16    | 2450   | 2000   | 1790   | 695   | 1090  | 1890   | 4540   | 16000  | 3180   | 911   | 253   | 1050  |
| 17    | 2440   | 1940   | 1790   | 694   | 1080  | 1900   | 4550   | 15900  | 3090   | 910   | 278   | 1030  |
| 18    | 2470   | 1830   | 1780   | 693   | 1080  | 1910   | 4540   | 15700  | 3090   | 910   | 293   | 1050  |
| 19    | 2500   | 1830   | 1780   | 693   | 1070  | 2060   | 4520   | 13400  | 2850   | 842   | 293   | 1050  |
| 20    | 2520   | 1800   | 1780   | 691   | 1070  | 2160   | 4550   | 11400  | 2710   | 735   | 284   | 1050  |
| 21    | 2520   | 1780   | 1780   | 690   | 1070  | 2550   | 4580   | 9580   | 2660   | 695   | 224   | 1050  |
| 22    | 2530   | 1760   | 1770   | 688   | 1070  | 2840   | 4590   | 8910   | 2510   | 694   | 259   | 1070  |
| 23    | 2520   | 1730   | 1770   | 687   | 1070  | 2840   | 4590   | 8290   | 2240   | 646   | 257   | 1070  |
| 24    | 2520   | 1750   | 1760   | 687   | 1070  | 2840   | 4590   | 8190   | 2080   | 649   | 255   | 1070  |
| 25    | 2520   | 1800   | 1770   | 688   | 1070  | 2860   | 4600   | 8540   | 2040   | 663   | 254   | 1060  |
| 26    | 2520   | 1790   | 1770   | 687   | 1230  | 3330   | 4600   | 8560   | 1960   | 662   | 254   | 1060  |
| 27    | 2530   | 1790   | 1760   | 688   | 1320  | 3630   | 4630   | 8780   | 1910   | 661   | 254   | 1060  |
| 28    | 2520   | 1800   | 1760   | 688   | 1320  | 3640   | 6330   | 9020   | 1900   | 724   | 254   | 1060  |
| 29    | 2510   | 1820   | 1760   | 863   | ---   | 3650   | 9510   | 8420   | 1900   | 812   | 255   | 1060  |
| 30    | 2520   | 1830   | 1530   | 1040  | ---   | 3660   | 10400  | 7090   | 1890   | 793   | 255   | 1060  |
| 31    | 2530   | ---    | 1370   | 953   | ---   | 3670   | ---    | 5710   | ---    | 765   | 255   | ---   |
| TOTAL | 73870  | 64410  | 51658  | 28007 | 31256 | 68380  | 148150 | 346900 | 101860 | 32223 | 11341 | 24003 |
| MEAN  | 2383   | 2147   | 1666   | 903   | 1116  | 2206   | 4938   | 11190  | 3395   | 1039  | 366   | 800   |
| MAX   | 2530   | 2540   | 1830   | 1370  | 1320  | 3670   | 10400  | 16400  | 5140   | 1930  | 766   | 1070  |
| MIN   | 2020   | 1730   | 713    | 687   | 902   | 1350   | 3690   | 5710   | 1890   | 646   | 224   | 236   |
| AC-FT | 146500 | 127800 | 102500 | 55550 | 62000 | 135600 | 293900 | 688100 | 202000 | 63910 | 22490 | 47610 |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2001, BY WATER YEAR (WY)

|      |      |       |       |       |       |       |       |       |       |       |      |      |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| MEAN | 1742 | 2884  | 4899  | 5193  | 6249  | 8184  | 14360 | 17510 | 9593  | 2094  | 938  | 1178 |
| MAX  | 5460 | 13130 | 23660 | 24930 | 23280 | 25440 | 26050 | 34930 | 26710 | 10720 | 2133 | 1849 |
| (WY) | 1928 | 1928  | 1934  | 1934  | 1996  | 1972  | 1943  | 1997  | 1974  | 1916  | 1917 | 1985 |
| MIN  | 782  | 627   | 784   | 903   | 1025  | 1751  | 3558  | 5141  | 1584  | 851   | 185  | 188  |
| (WY) | 1964 | 1936  | 1936  | 2001  | 1929  | 1929  | 1977  | 1992  | 1926  | 1994  | 1958 | 1949 |

| SUMMARY STATISTICS       | FOR 2000 CALENDAR YEAR | FOR 2001 WATER YEAR | WATER YEARS 1913 - 2001 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 2314240                | 982058              |                         |
| ANNUAL MEAN              | 6323                   | 2691                | 6206                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 11600                   |
| LOWEST ANNUAL MEAN       |                        |                     | 2143                    |
| HIGHEST DAILY MEAN       | 28700                  | 16400               | 49800                   |
| LOWEST DAILY MEAN        | 258                    | 224                 | 67                      |
| ANNUAL SEVEN-DAY MINIMUM | 268                    | 250                 | 108                     |
| ANNUAL RUNOFF (AC-FT)    | 4590000                | 1948000             | 4496000                 |
| 10 PERCENT EXCEEDS       | 15500                  | 4960                | 17200                   |
| 50 PERCENT EXCEEDS       | 3500                   | 1780                | 2990                    |
| 90 PERCENT EXCEEDS       | 748                    | 592                 | 902                     |