

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID

LOCATION.--Lat 47°42'11", long 116°58'37", in SW¹/₄SW¹/₄SW¹/₄ sec.4, T.50 N., R.5 W., Kootenai County, Post Falls quad., 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 mi², approximately, of which about 122 mi² 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 NGVD of 1929. 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PERIOD OF RECORD.--Maximum discharge, 50,100 ft³/s, when recorder was not operating, Dec. 25, 1933, (determined from unpublished records collected by Washington Water Power Co. for station at Liberty Bridge); minimum, 65 ft³/s July 25, 30, 1973; minimum gage height, 4.68 ft, July 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 17,800 ft³/s Feb. 4; minimum daily, 274 ft³/s Aug. 25, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	1950	1510	3000	10700	5450	15600	10300	8130	2080	358	280
2	1720	1790	1510	3070	14600	5430	15500	10100	7410	1540	357	281
3	1760	1780	1510	3580	17400	5180	15600	9990	6980	924	329	287
4	1790	1620	1510	3570	17800	5020	15400	9930	6950	827	376	364
5	1790	1510	1510	3590	17500	4930	15100	9680	6840	856	448	362
6	1790	1490	1510	3590	16500	4620	14700	9590	6240	852	472	361
7	2080	1470	1510	4200	15700	4470	13900	9220	5830	852	459	363
8	2260	1470	1510	4450	14800	4460	13200	8930	5810	1040	456	543
9	2260	1460	1770	4450	14000	4440	12500	8700	5540	1110	456	775
10	2260	1460	1960	4230	13100	4270	11500	8580	5760	1100	456	775
11	2250	1460	1970	4020	12200	4520	10900	8480	5970	1110	470	775
12	2250	1460	2090	3870	11300	4520	11800	8140	5960	1220	465	775
13	2240	1460	2160	3350	10400	5050	11900	8000	5690	1340	383	926
14	2240	1490	2160	3210	9330	5200	12200	7970	5270	1390	341	1350
15	2240	1520	2160	3430	8920	6510	12300	7970	3900	1390	343	1510
16	2240	1520	2170	3350	8560	7610	12300	8030	3190	917	342	2260
17	2240	1510	2470	3370	8070	8880	12100	8040	3180	859	341	2680
18	2230	1520	2730	3390	7660	10200	12000	8040	3520	727	321	2990
19	2230	1520	2710	3190	7450	10600	12000	7990	3790	671	308	2780
20	2230	1510	2730	3110	7120	10800	11800	7720	3800	683	308	1770
21	2230	1510	2730	3070	6960	10900	11000	6780	3480	693	301	1530
22	2220	1510	2680	3000	6930	11200	10900	5610	3270	639	279	1380
23	2270	1510	2340	2970	6910	12700	11000	5610	2730	603	275	1100
24	2280	1510	2120	3090	6870	14900	11000	5550	2440	595	276	1100
25	2290	1520	2120	3160	6760	16600	11200	5540	2440	574	274	1100
26	2290	1520	2120	3240	6260	17200	11300	5610	2310	563	276	1100
27	2290	1520	2120	4300	6100	17500	11300	5630	2230	563	276	1100
28	2280	1520	2110	5030	5820	17500	11200	5650	2230	451	275	1090
29	2230	1510	2470	6280	---	17200	11100	5670	2220	333	274	1090
30	2200	1520	2730	7120	---	16600	10800	5870	2220	303	280	1090
31	2190	---	2830	8040	---	15900	---	7590	---	307	280	---
TOTAL	66590	46120	65530	121320	295720	290360	373200	240510	135330	27112	10855	33887
MEAN	2148	1537	2114	3914	10560	9366	12440	7758	4511	875	350	1130
MAX	2290	1950	2830	8040	17800	17500	15600	10300	8130	2080	472	2990
MIN	1720	1460	1510	2970	5820	4270	10800	5540	2220	303	274	280
AC-FT	132100	91480	130000	240600	586600	575900	740200	477100	268400	53780	21530	67210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2003, BY WATER YEAR (WY)

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	1749	2863	4864	5191	6288	8198	14390	17430	9643	2094	931	1180																																																																															
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 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1913 - 2003
ANNUAL TOTAL	2756514	1706534	
ANNUAL MEAN	7552	4675	6206
HIGHEST ANNUAL MEAN			11600
LOWEST ANNUAL MEAN			2143
HIGHEST DAILY MEAN	30500	Apr 17	17800
LOWEST DAILY MEAN	569	Aug 29	274
ANNUAL SEVEN-DAY MINIMUM	642	Aug 24	275
ANNUAL RUNOFF (AC-FT)	5468000	3385000	4496000
10 PERCENT EXCEEDS	20800	11800	17100
50 PERCENT EXCEEDS	3540	2680	2990
90 PERCENT EXCEEDS	1100	456	900