

SPOKANE RIVER BASIN

12433000 SPOKANE RIVER AT LONG LAKE, WA

LOCATION.--Lat 47°50'12", long 117°50'25", in NW 1/4 SW 1/4 sec.13, T.27 N., R.39 E., Lincoln County, Hydrologic Unit 17010307, on left bank at Long Lake powerhouse, 1.4 mi upstream from Chamokane Creek, 12.0 mi north of Reardan, and at mile 33.88.

DRAINAGE AREA.--6,020 mi<sup>2</sup>, approximately, of which about 122 mi<sup>2</sup> in the vicinity of Hayden Lake is noncontributing to this station.

PERIOD OF RECORD.--April 1939 to current year.

REVISED RECORDS.--WSP 1933: Drainage area. WDR WA-01-1: Calendar year adjusted mean discharge, runoff in inches, and acre-feet for 1998, and adjusted mean discharge, cubic feet per square mile, runoff in inches, and acre-feet for 1999 corrected.

GAGE.--Water-stage recorder. Datum of gage is 1,299.00 ft above NGVD of 1929 (levels by Avista Corporation). Oct. 1, 1978, to Sept. 30, 1981, incorrectly published at datum 1,300 ft.

REMARKS.--Flow regulated by Coeur d'Alene Lake and Long Lake (station 12432500) for powerplants of Avista Corporation. About 25,000 acres irrigated upstream from station, largely from wells in the Spokane Valley. Chemical analyses October 1958 to September 1986, November 1999 to April 2000. Specific conductance records March 1973 to September 1981. Water temperature July 1959 to September 1962, October 1966 to September 1970, March 1973 to September 1981.

COOPERATION.--Discharge records furnished by Avista Corporation; three discharge measurements made by U.S. Geological Survey.

AVERAGE DISCHARGE.--63 years (water years 1940-2002), 7,777 ft<sup>3</sup>/s, 5,634,000 acre-ft/yr, adjusted for storage in Long Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,700 ft<sup>3</sup>/s Jan. 19, 1974, gage height, 78.40 ft; maximum recorded gage height, 78.66 ft May 24, 1948; minimum daily discharge, 90 ft<sup>3</sup>/s Oct. 23, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31,700 ft<sup>3</sup>/s April 15, gage height, 72.64 ft; minimum discharge, 150 ft<sup>3</sup>/s Aug. 12.

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	2360	3060	3600	4310	7980	9140	10900	20900	29500	9890	2660	1210
2	2320	3920	4200	5180	7560	9070	11100	20100	29800	10600	2170	1830
3	2280	2260	4560	5080	7260	9110	11400	21400	29900	7950	1630	1580
4	2610	3050	4460	5000	6900	8360	11700	21300	29500	7020	1820	1860
5	2250	3460	4380	5030	6880	8300	11500	22400	28200	7290	1080	1870
6	1770	3620	4660	5270	6880	8360	11700	21600	28200	6400	2890	1700
7	2260	3450	4170	5320	6880	7940	12400	21400	27200	5560	2110	1490
8	2510	3320	3920	5300	6880	7800	13500	21200	26500	5320	2090	1460
9	2410	3140	4580	6790	6880	7150	13600	21200	25500	5540	1940	1600
10	2760	2080	4350	6700	6840	7010	13900	19900	24100	4660	1540	2600
11	2830	2920	5470	6700	6780	7330	17300	18400	22900	4670	1690	2210
12	3270	3330	5210	6700	6780	13400	19000	18300	22800	5270	2220	2540
13	1370	3530	5900	6700	6680	11900	20000	17400	21100	3320	1820	2130
14	2220	3240	6000	6700	6780	8640	20800	17200	20900	3800	2240	1860
15	2390	3760	7000	6720	6780	10800	25000	17400	20400	3600	2210	1680
16	3020	4080	7000	6730	6780	10700	29400	18100	19000	3910	1570	2360
17	2940	1950	7070	6780	6700	10400	31400	18300	19600	4000	1100	2580
18	2900	2980	7080	8070	6700	10100	31500	18900	19900	3620	1310	2520
19	2440	3520	7060	8560	6720	10100	31200	18600	19300	3860	1620	2080
20	2030	3500	7010	8360	6710	11000	29900	20000	19000	3880	2060	2740
21	2730	3020	6840	8300	6690	10500	27700	20200	17900	3890	1360	1860
22	2630	3100	6740	8240	6670	10400	26700	22600	16200	3680	1710	2130
23	2520	3070	6870	7860	6680	10300	25700	23700	15300	3790	1350	2670
24	3000	3680	6840	7490	6720	10400	25600	25600	14700	3660	1820	2050
25	3260	3240	6880	7300	6810	10100	24300	26900	13600	2810	1320	2410
26	3530	3750	6660	12300	6760	10400	24200	27100	12700	1940	1590	2700
27	2280	4380	5920	9610	6780	10300	23300	26900	11900	2520	1980	2920
28	3000	3920	5940	8600	7720	10100	22000	26900	10100	2780	1970	1500
29	3300	4050	5490	8450	---	10700	21100	27300	8880	3430	1600	2280
30	3380	3670	4820	8100	---	10700	21400	28600	11400	1880	1590	2690
31	3820	---	5100	8180	---	10600	---	29100	---	2130	389	---
TOTAL	82390	100050	175780	220430	193180	301110	619200	678900	615980	142670	54449	63110
MEAN	2658	3335	5670	7111	6899	9713	20640	21900	20530	4602	1756	2104
MAX	3820	4380	7080	12300	7980	13400	31500	29100	29900	10600	2890	2920
MIN	1370	1950	3600	4310	6670	7010	10900	17200	8880	1880	389	1210
AC-FT	163400	198400	348700	437200	383200	597300	1228000	1347000	1222000	283000	108000	125200
MEAN†	2636	3313	5497	7327	6894	9709	20607	21863	20616	4593	1774	2093
CFSM†	0.44	0.55	0.91	1.22	1.15	1.61	3.42	3.63	3.42	0.76	0.29	0.35
IN.†	0.50	0.61	1.05	1.40	1.19	1.86	3.82	4.19	3.82	0.88	0.34	0.39
AC-FT†	162100	197100	338100	450600	382800	597100	1226000	1345000	1226000	282500	109100	124500

CAL YR 2001 TOTAL 1459831 MEAN 4000 MAX 16700 MIN 305 AC-FT 2896000 MEAN† 3988 CFSM† 0.66 IN.† 9.00 AC-FT† 2888000  
WTR YR 2002 TOTAL 3247249 MEAN 8897 MAX 31500 MIN 389 AC-FT 6441000 MEAN† 8894 CFSM† 1.48 IN.† 20.06 AC-FT† 6440000

† Adjusted for change in contents in Long Lake.