

## SPOKANE RIVER BASIN

12433200 CHAMOKANE CREEK BELOW FALLS, NEAR LONG LAKE, WA

LOCATION.--Lat 47°51'42", long 117°51'28", in SE 1/4 SW 1/4 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 mi<sup>2</sup>.

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 and discharges from June 21 to Aug. 19, 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.--22 years (water years 1972-78, 1988-2002), 64.6 ft<sup>3</sup>/s, 4.90 in/yr, 46,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200 ft<sup>3</sup>/s Apr. 25, 1975, gage height, 5.06 ft, from rating curve extended above 500 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; maximum gage height, 5.37 ft Mar. 20, 1997; minimum discharge, 9.4 ft<sup>3</sup>/s Dec. 30, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 743 ft<sup>3</sup>/s Jan. 9, gage height, 3.65 ft; minimum discharge, 21 ft<sup>3</sup>/s July 22, but may have been lower during periods of estimated record.

DISCHARGE PUBLISHED, 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	24	26	33	e28	64	137	339	109	e38	30	e26	29
2	24	26	32	e29	62	114	321	107	e36	29	27	29
3	24	26	31	e32	59	110	294	101	e35	30	27	29
4	24	25	29	e30	56	108	283	96	e35	30	28	29
5	25	25	28	e31	53	95	291	90	e35	29	28	30
6	25	25	27	36	49	96	306	89	e33	29	28	30
7	25	25	26	56	52	84	349	89	e32	31	28	30
8	25	24	25	259	63	78	356	86	e33	36	28	30
9	25	24	25	689	57	69	325	80	e37	e34	27	30
10	26	25	25	518	56	82	332	73	e37	e31	27	30
11	26	24	25	359	54	92	345	68	35	e30	28	29
12	27	25	25	279	51	203	329	65	32	e29	27	29
13	27	25	31	237	49	209	335	61	30	e29	27	29
14	27	31	36	203	48	191	433	60	27	e29	e27	29
15	27	27	33	172	46	171	525	58	26	e28	e27	29
16	26	28	60	141	45	163	388	56	25	e28	e27	29
17	26	31	64	129	47	149	329	56	24	e28	e28	31
18	26	27	77	109	49	132	271	62	28	e27	e28	31
19	25	25	83	111	52	126	232	62	27	e27	e28	30
20	25	25	60	115	54	115	210	59	25	26	29	29
21	27	27	50	112	63	101	195	58	27	25	29	30
22	26	30	44	90	95	104	181	61	34	24	30	30
23	26	29	e35	78	327	105	170	61	35	24	29	30
24	26	27	e28	82	337	126	159	60	33	e25	29	30
25	26	26	e26	92	228	180	150	57	33	e26	30	30
26	25	26	e25	98	187	239	143	55	33	e26	30	30
27	25	25	e25	89	168	259	137	53	33	e25	29	31
28	25	26	e26	74	160	287	128	53	32	e24	29	30
29	25	28	e28	63	---	341	118	53	36	e24	29	30
30	29	28	e28	63	---	354	112	51	31	e25	29	31
31	30	---	e28	66	---	375	---	43	---	e26	29	---
TOTAL	799	791	1118	4470	2631	4995	8086	2132	957	864	872	893
MEAN	25.77	26.37	36.06	144.2	93.96	161.1	269.5	68.77	31.90	27.87	28.13	29.77
MAX	30	31	83	689	337	375	525	109	38	36	30	31
MIN	24	24	25	28	45	69	112	43	24	24	26	29
AC-FT	1580	1570	2220	8870	5220	9910	16040	4230	1900	1710	1730	1770
CFSM	0.14	0.15	0.20	0.81	0.52	0.90	1.51	0.38	0.18	0.16	0.16	0.17
IN.	0.17	0.16	0.23	0.93	0.55	1.04	1.68	0.44	0.20	0.18	0.18	0.19

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY)

	MEAN	28.39	29.82	45.51	60.55	78.22	174.9	164.7	67.55	39.85	29.71	27.01	27.08
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	

## SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1971 - 2002
ANNUAL TOTAL	11761	28608	
ANNUAL MEAN	32.22	78.38	64.59
HIGHEST ANNUAL MEAN			170
LOWEST ANNUAL MEAN			25.8
HIGHEST DAILY MEAN	83	Dec 19	689
LOWEST DAILY MEAN	20	Aug 21	24
ANNUAL SEVEN-DAY MINIMUM	20	Sep 5	24
ANNUAL RUNOFF (AC-FT)	23330	56740	46790
ANNUAL RUNOFF (CFSM)	0.18	0.44	0.36
ANNUAL RUNOFF (INCHES)	2.44	5.95	4.90
10 PERCENT EXCEEDS	47	205	136
50 PERCENT EXCEEDS	30	31	31
90 PERCENT EXCEEDS	22	25	20

e Estimated