

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 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. Datum of gage is 1,418.5 ft above sea level.

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.

AVERAGE DISCHARGE.--20 years (water years 1972-78, 1988-2000), 65.4 ft³/s, 4.97 in/yr, 47,410 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, 753 ft³/s Mar. 5, gage height, 3.71 ft; minimum discharge, 29 ft³/s Oct. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	34	37	46	53	212	239	113	74	57	38	34
2	33	33	51	46	55	216	248	114	70	56	37	36
3	33	34	56	45	55	210	267	112	67	57	36	36
4	33	34	56	49	63	279	279	111	65	59	36	37
5	33	33	51	47	71	607	278	108	64	58	36	37
6	33	37	51	45	71	633	254	109	62	56	36	35
7	33	35	48	45	71	519	222	104	62	55	36	35
8	33	35	46	49	76	414	195	100	67	54	35	36
9	33	36	48	49	79	362	181	99	72	54	35	37
10	33	37	47	48	83	326	173	102	71	53	34	38
11	33	39	48	46	84	331	172	101	67	53	34	38
12	34	40	49	46	91	371	174	102	88	52	34	37
13	33	39	49	48	87	333	188	98	158	50	34	37
14	33	38	50	49	83	351	263	94	121	49	35	36
15	33	36	54	49	82	414	316	91	104	49	35	36
16	33	35	62	51	80	373	272	87	94	48	35	36
17	34	36	81	50	e60	344	242	84	88	47	35	36
18	34	34	86	48	e62	302	217	81	84	46	35	36
19	33	33	96	e45	e64	336	193	81	80	44	35	35
20	33	34	80	47	e65	311	180	80	75	43	35	36
21	33	34	69	47	73	279	171	78	72	42	35	37
22	33	33	63	48	75	281	162	76	69	41	34	37
23	33	36	59	47	92	296	150	74	68	40	35	37
24	33	40	56	47	140	293	141	73	67	40	34	37
25	35	43	54	47	157	283	135	71	65	40	34	37
26	35	43	52	48	151	261	131	70	63	40	34	37
27	35	42	51	48	152	266	128	70	62	40	35	37
28	38	39	50	47	203	286	129	68	61	39	34	37
29	36	38	48	e45	216	295	124	68	60	39	35	37
30	37	38	46	e42	---	267	118	68	58	39	35	38
31	35	---	46	45	---	247	---	77	---	38	35	---
TOTAL	1045	1098	1740	1459	2694	10298	5942	2764	2278	1478	1086	1095
MEAN	33.7	36.6	56.1	47.1	92.9	332	198	89.2	75.9	47.7	35.0	36.5
MAX	38	43	96	51	216	633	316	114	158	59	38	38
MIN	32	33	37	42	53	210	118	68	58	38	34	34
AC-FT	2070	2180	3450	2890	5340	20430	11790	5480	4520	2930	2150	2170
CFSM	.19	.20	.31	.26	.52	1.86	1.11	.50	.42	.27	.20	.20
IN.	.22	.23	.36	.30	.56	2.14	1.23	.57	.47	.31	.23	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	1998	1997	1996	1995	1994	1993	1992	1991	1990
MEAN	28.1	29.6	46.6	57.8	79.6	182	165	68.8	40.5	29.9	27.2	27.2	
MAX	41.5	47.5	236	239	232	626	564	257	115	59.5	47.2	43.0	
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	42642		32977			
ANNUAL MEAN	117		90.1		65.4	
HIGHEST ANNUAL MEAN					170	
LOWEST ANNUAL MEAN					25.8	
HIGHEST DAILY MEAN	986	Feb 26	633	Mar 6	1750	Mar 20 1997
LOWEST DAILY MEAN	30	Sep 14	32	Oct 1	15	Dec 26 1977
ANNUAL SEVEN-DAY MINIMUM	30	Sep 17	33	Oct 1	16	Jan 2 1993
ANNUAL RUNOFF (AC-FT)	84580		65410		47410	
ANNUAL RUNOFF (CFSM)	.65		.50		.37	
ANNUAL RUNOFF (INCHES)	8.86		6.85		4.97	
10 PERCENT EXCEEDS	297		244		133	
50 PERCENT EXCEEDS	60		50		30	
90 PERCENT EXCEEDS	33		34		20	

e Estimated