SPOKANE RIVER BASIN

12424000 HANGMAN CREEK AT SPOKANE, WA

LOCATION.--Lat 47°39'10", long 117°26'55", in NW 1/4 sec.24, T.25 N., R.42 E., Spokane County, Hydrologic Unit 17010306, on left bank 0.3 mi downstream from bridge on Interstate 90 in Spokane, and at mile 0.8.

DRAINAGE AREA.--689 mi^2.

PERIOD OF RECORD.--April 1948 to September 1977; October 1977 to September 1978 (discharges above 20 ft^3/s only), October 1978 to current year. Prior to October 1958, published as Latah Creek at Spokane.

REVISED RECORDS.--WSP 1933: Drainage area. WSP 2133: 1965(P).

GAGE.--Water-stage recorder. Datum of gage is 1,717.42 ft above NGVD of 1929 (levels by Corps of Engineers). Prior to Nov. 22, 1948, nonrecording gage at site 0.5 mi upstream at different datum.

REMARKS.--Records fair. No regulation. Some diversions for irrigation upstream from station. Suspended sediment October 1997 to September 2001. U.S Geological Survey satellite telemeter and National Weather Service telemeter at station.

AVERAGE DISCHARGE.--53 years (water years 1949-77, 1979-2002), 235 ft^3/s, 4.64 in/yr, 170,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft^3/s Jan. 1, 1997 (measured), gage height, 14.31 ft (from outside high-water mark); minimum discharge, 0.74 ft^3/s Sept. 5, 14, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 08	0100	3,260	6.59	Feb. 24	0400	3,570	6.86
Jan. 26	0230	4,060	7.25	Mar. 12	0530	*4,570	*7.65
Feb. 22	2300	3,100	6.45	Mar. 20	1400	2,610	5.93

Minimum discharge, 4.5 ft^3/s Oct. 4.

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	5.6	20	60	e60	224	e270	465	152	78	23	11	8.5
2	5.3	18	62	e58	195	e200	458	147	72	23	9.6	7.5
3	5.2	16	67	e58	170	e200	426	149	67	21	9.7	8.5
4	5.0	15	82	70	163	258	392	146	63	19	9.5	9.7
5	5.5	15	101	88	151	261	370	145	60	18	9.6	9.0
6	5.4	15	104	121	146	390	385	148	54	18	11	9.0
7	5.2	15	89	1340	150	258	432	155	50	17	9.9	9.9
8	6.3	15	74	2770	239	258	455	149	50	18	10	9.2
9	6.3	14	70	1590	418	236	424	135	52	24	9.4	8.5
10	7.1	14	74	764	453	235	407	125	54	21	8.5	10
11	7.7	13	82	476	379	1340	439	114	55	17	8.5	9.5
12	9.4	13	86	358	315	3830	473	107	55	16	7.5	9.4
13	9.0	13	99	318	253	2060	472	99	53	15	6.8	9.1
14	9.9	15	764	258	204	1070	708	92	50	15	7.3	8.9
15	9.8	15	1300	197	170	787	1150	87	46	14	7.8	8.9
16	10	18	537	155	151	624	738	86	42	14	6.7	7.6
17	10	24	671	120	156	537	534	91	38	14	6.8	15
18	9.7	25	726	101	179	446	435	94	41	14	7.4	14
19	8.9	24	392	104	317	378	350	92	42	13	6.4	14
20	9.5	23	266	93	969	1710	299	91	41	12	6.5	15
21	11	22	213	84	1070	1040	272	88	40	13	6.9	15
22	11	25	179	80	2650	818	249	92	38	11	e12	11
23	12	28	136	88	2540	930	235	108	41	12	9.9	6.7
24	12	35	122	87	3320	767	230	157	38	11	9.2	8.3
25	12	40	e100	842	e1330	894	220	158	35	13	8.2	8.2
26	11	59	e85	3190	e520	831	206	124	30	11	e8.3	8.4
27	11	65	e70	1490	e360	743	193	106	28	12	8.1	8.7
28	11	51	e65	639	e320	657	182	97	27	13	8.8	7.7
29	12	51	e60	386	---	575	170	94	29	13	9.4	7.8
30	16	49	e55	313	---	526	160	94	27	12	8.5	9.9
31	17	---	e58	264	---	478	---	91	---	12	8.0	---
TOTAL	286.8	765	6849	16562	17512	23607	11929	3613	1396	479	267.2	292.9
MEAN	9.25	25.5	221	534	625	762	398	117	46.5	15.5	8.62	9.76
MAX	17	65	1300	3190	3320	3830	1150	158	78	24	12	15
MIN	5.0	13	55	58	146	200	160	86	27	11	6.4	6.7
AC-FT	569	1520	13580	32850	34740	46820	23660	7170	2770	950	530	581
CFSM	0.01	0.04	0.32	0.78	0.91	1.11	0.58	0.17	0.07	0.02	0.01	0.01
IN.	0.02	0.04	0.37	0.89	0.95	1.27	0.64	0.20	0.08	0.03	0.01	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2002, BY WATER YEAR (WY)

MEAN	18.2	45.1	203	472	738	744	351	195	76.5	22.9	13.7	13.7
MAX	48.5	216	1251	2097	1776	1914	928	1925	434	77.7	47.3	46.2
(WY)	1998	1997	1956	1997	1996	1969	1969	1948	1990	1948	1997	1997
MIN	2.30	10.4	10.9	24.0	39.5	44.1	27.0	15.1	6.21	2.43	1.29	1.01
(WY)	1993	1988	1993	1979	1994	1977	1977	1992	1992	1973	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1948 - 2002	
ANNUAL TOTAL	35844.2		83593.9			
ANNUAL MEAN	98.2		229		235	
HIGHEST ANNUAL MEAN					629	1997
LOWEST ANNUAL MEAN					27.3	1977
HIGHEST DAILY MEAN	1300	Dec 15	3830	Mar 12	18000	Jan 1 1997
LOWEST DAILY MEAN	3.5	Sep 18	5.0	Oct 4	0.81	Sep 5 1992
ANNUAL SEVEN-DAY MINIMUM	3.8	Sep 13	5.3	Oct 1	0.92	Sep 14 1992
ANNUAL RUNOFF (AC-FT)	71100		165800		170500	
ANNUAL RUNOFF (CFSM)	0.14		0.33		0.34	
ANNUAL RUNOFF (INCHES)	1.94		4.51		4.64	
10 PERCENT EXCEEDS	258		595		584	
50 PERCENT EXCEEDS	41		61		43	
90 PERCENT EXCEEDS	5.3		8.5		9.0	

e Estimated