12422500 SPOKANE RIVER AT SPOKANE, WA

LOCATION.--Lat 47°39'34", long 117°26'53", in SW ¼ SW ¼ sec.13, T.25 N., R.42 E., Spokane County, Hydrologic Unit 17010305, on right bank at Cochran Street in Spokane, 0.5 mi upstream from Hangman Creek, and at mile 72.9.

DRAINAGE AREA.--4,290 mi^2, approximately, of which about 122 mi^2 in the vicinity of Hayden Lake is noncontributing to this station.

PERIOD OF RECORD.--April 1891 to current year.

REVISED RECORDS.--WSP 532: 1891-1904. WSP 1246: Drainage area. WSP 1286: 1907-09.

GAGE.--Water-stage recorder. Elevation of gage is 1,697 ft above NGVD of 1929 (river-profile survey). Prior to July 1, 1921, water-stage recorders and nonrecording gages at several sites within 4 mi of present site at various datums.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by powerplants of Avista Corp. at Post Falls, Idaho, 28.8 mi upstream and at Spokane, 1.3 mi upstream, and by Coeur d'Alene Lake, Idaho. Rathdrum Prairie Canal diverts water upstream from station for irrigation. In 1946, approximately 22,600 acres, of which about 15,000 acres utilized surface water, were under irrigation upstream from Spokane. Since 1966 irrigation has been from many wells in the valley near the river with only about 3,000 acres irrigated from the river. Chemical analyses October 1972 to September 1973. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--112 years (water years 1892-2003), 6,724 ft^3/s, 4,871,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,000 ft^3/s, estimated, May 31, 1894 (see WSP 532); minimum, 49.7 ft^3/s Aug. 26, 1991, due to regulation for construction at Post Street Dam, but may have been lower during periods of missing record in 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,700 ft^3/s Feb. 03, gage height, 24.01 ft; minimum discharge, 267 ft^3/s Dec. 12, gage height, 16.39 ft., result of regulation.

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	1,830	2,320	1,840	3,070	8,880	5,820	15,300	10,400	7,970	2,440	643	514
2	1,850	2,120	1,840	3,120	12,500	5,770	15,200	10,100	7,510	2,200	630	493
3	1,840	2,080	1,840	3,450	15,600	5,580	15,300	10,000	7,010	1,670	667	494
4	1,920	2,050	1,840	3,540	16,600	5,410	15,200	9,950	6,980	1,350	639	502
5	1,910	1,870	1,830	3,560	16,600	5,310	14,900	9,760	6,860	1,400	661	518
6	1,930	1,880	1,820	3,600	15,800	5,120	14,600	9,640	6,510	1,370	739	534
7	2,020	1,820	1,830	3,880	15,100	4,900	13,900	9,430	6,000	1,310	700	523
8	2,250	1,880	1,810	4,230	14,300	4,870	13,200	9,090	6,000	1,360	695	550
9	2,290	1,820	1,890	4,290	13,600	4,870	12,600	8,900	5,800	1,470	680	745
10	2,300	1,860	2,170	4,280	12,800	4,730	11,800	8,720	5,770	1,470	678	815
11	2,310	1,820	2,170	4,060	12,000	4,760	10,900	8,610	6,060	1,410	679	840
12	2,310	1,840	2,230	4,000	11,200	4,910	11,800	8,380	6,060	1,420	687	840
13	2,350	1,800	2,320	3,700	10,500	5,120	11,800	8,170	5,860	1,540	682	853
14	2,320	1,830	2,370	3,350	9,530	5,380	12,100	8,110	5,610	1,590	600	1,120
15	2,360	1,850	2,350	3,520	9,060	6,180	12,100	8,060	4,650	1,610	617	1,240
16	2,340	1,850	2,410	3,570	8,680	7,160	12,200	8,090	3,730	1,380	592	1,640
17	2,340	1,840	2,460	3,530	8,260	8,210	12,100	8,120	3,640	1,240	594	2,080
18	2,350	1,840	2,760	3,560	7,860	9,460	12,000	8,130	3,720	1,110	572	2,460
19	2,340	1,880	2,780	3,450	7,640	9,970	11,900	8,110	4,050	1,070	595	2,480
20	2,360	1,830	2,790	3,350	7,330	10,300	11,700	7,860	4,040	1,040	554	1,940
21	2,350	1,850	2,830	3,310	7,150	10,500	11,200	7,380	3,870	1,020	553	1,570
22	2,320	1,840	2,790	3,280	7,060	10,600	11,000	6,050	3,610	986	552	1,560
23	2,410	1,830	2,670	3,220	7,050	11,600	11,000	6,010	3,340	910	549	1,310
24	2,440	1,830	2,400	3,280	7,020	13,800	11,000	5,930	2,880	897	553	1,260
25	2,450	1,830	2,390	3,360	6,900	15,500	11,100	5,840	2,810	865	511	1,260
26	2,450	1,840	2,380	3,390	6,610	16,400	11,100	5,910	2,760	860	522	1,240
27	2,460	1,830	2,400	4,010	6,370	16,900	11,200	5,880	2,570	865	520	1,220
28	2,470	1,850	2,380	4,620	6,200	16,900	11,200	5,890	2,620	818	519	1,240
29	2,460	1,830	2,520	5,580	---	16,800	11,100	5,860	2,570	713	517	1,220
30	2,400	1,840	2,850	6,360	---	16,200	10,900	5,950	2,520	679	516	1,220
31	2,400	---	2,910	7,140	---	15,700	---	7,060	---	644	516	---
TOTAL	70,130	56,450	71,870	120,660	288,200	284,730	371,400	245,390	143,380	38,707	18,732	34,281
MEAN	2,262	1,882	2,318	3,892	10,290	9,185	12,380	7,916	4,779	1,249	604	1,143
MAX	2,470	2,320	2,910	7,140	16,600	16,900	15,300	10,400	7,970	2,440	739	2,480
MIN	1,830	1,800	1,810	3,070	6,200	4,730	10,900	5,840	2,520	644	511	493
AC-FT	139,100	112,000	142,600	239,300	571,600	564,800	736,700	486,700	284,400	76,780	37,150	68,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 2003, BY WATER YEAR (WY)

MEAN	2,158	3,278	5,150	5,506	6,320	8,323	14,160	17,810	10,990	3,401	1,746	1,735
MAX	5,643	13,050	22,910	25,430	22,060	25,380	25,030	34,390	29,850	11,910	4,744	3,302
(WY)	(1928)	(1928)	(1934)	(1934)	(1996)	(1972)	(1943)	(1997)	(1894)	(1899)	(1899)	(1912)
MIN	1,300	1,151	1,233	1,339	1,489	2,047	3,865	5,214	2,141	1,050	531	932
(WY)	(1893)	(1940)	(1932)	(1931)	(1929)	(1929)	(1977)	(1992)	(1926)	(1994)	(1994)	(1966)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1891 - 2003	
ANNUAL TOTAL	2,810,048		1,743,930			
ANNUAL MEAN	7,699		4,778		6,724	
HIGHEST ANNUAL MEAN					12,310	1974
LOWEST ANNUAL MEAN					2,508	1977
HIGHEST DAILY MEAN	30,800	Apr 18	16,900	Mar 27	49,000	May 31, 1894
LOWEST DAILY MEAN	945	Aug 30	493	Sep 2	466	Aug 11, 1973
ANNUAL SEVEN-DAY MINIMUM	993	Aug 27	507	Aug 29	502	Aug 21, 1994
ANNUAL RUNOFF (AC-FT)	5,574,000		3,459,000		4,871,000	
10 PERCENT EXCEEDS	20,900		11,700		17,100	
50 PERCENT EXCEEDS	4,200		2,760		3,710	
90 PERCENT EXCEEDS	1,410		681		1,500	