

SPOKANE RIVER BASIN

12420500 SPOKANE RIVER AT GREENACRES, WA

LOCATION.--Lat 47°40'39", long 117°09'04", in SW 1/4 of NW 1/4 sec.8, T.25 N., R.45 E., Spokane County, Hydrologic Unit 17010305, on left bank 600 ft upstream from Barker Road Bridge, 0.5 mi north of Greenacres, and at mile 90.5.

DRAINAGE AREA.--4,150 mi², approximately

PERIOD OF RECORD.--March 1948 to July 1952, August 1999 to current year.

REVISED RECORDS.--None

GAGE.--Water-stage recorder. Elevation of gage is 1,980 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and discharges below 600 ft³/s, which are poor. Flow partly regulated by dam at Post Falls, Idaho, 11.6 mi upstream and affected by storage in Coeur d'Alene Lake.

AVERAGE DISCHARGE.--6 years (water years 1949-51, 2000-02) 6,508 ft³/s, 4,715,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, probably occurred May 30, 1948, during period of no gage-height record (comparison with other stations on this stream indicates a discharge of about 40,000 ft³/s); minimum discharge, 22 ft³/s August 21, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 32,200 ft³/s, Apr. 17, gage height 13.46 ft; minimum discharge, 280 ft³/s, Aug. 30, gage height 3.50 ft.

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	1030	2050	e3150	3440	6660	8330	9480	19000	29100	9200	651	372
2	1320	2060	e3150	3210	6450	8110	9600	19200	29400	8340	481	408
3	1330	2060	e3160	3100	5970	7830	9840	19500	29100	6660	466	410
4	1370	2060	e3160	2950	5730	7300	10000	19900	28600	5780	453	417
5	1390	2070	e3160	2840	5630	7120	10200	20300	28000	5150	446	419
6	1390	2070	e3160	2840	5430	6770	10600	20500	27300	4040	548	416
7	1400	2090	e3160	2840	5220	6570	11100	20100	26400	3690	731	416
8	1420	2080	e3150	3280	5110	6280	11800	19600	25500	3680	733	421
9	1420	2000	e3160	4590	4790	6080	11800	18900	24600	3670	732	713
10	1430	1990	e3500	5170	4670	5810	13100	18000	23500	3300	733	1210
11	1440	1990	e3820	5780	4510	5680	15200	17200	22300	2950	722	1210
12	1450	1980	e4100	5960	4420	6450	16700	16400	21100	2600	717	1210
13	1440	1970	e4140	6040	4260	7570	18100	15600	19900	2280	715	1210
14	1450	1970	e4650	7060	4110	8420	20100	15600	19000	2270	715	1250
15	1450	1970	e5040	7560	4060	8780	23900	16100	18500	2270	715	1250
16	1450	1980	e5060	8120	3940	8850	28600	16500	18300	2260	648	1250
17	1450	1990	e5060	7990	3810	8770	31100	16900	18100	2250	575	1260
18	1450	1980	e5310	7870	3770	8710	31000	17100	18000	2470	574	1260
19	1450	1980	e5520	7760	3710	8340	30000	17300	17500	2660	529	1270
20	1460	1990	e5470	7600	3840	8250	28500	18100	17100	2660	422	1280
21	1460	e1990	e5450	7410	3800	8380	27100	19600	15900	2580	339	1290
22	1470	e2000	e5380	7210	3820	8380	25900	21400	14500	2060	336	1300
23	1480	e2010	e5320	7030	4260	8330	24700	23200	13900	1580	350	1300
24	1720	e2000	e5130	6780	5450	8290	23900	25000	13000	1560	373	1300
25	1940	e2010	e4830	6570	7120	8280	23100	26000	11700	1550	371	1300
26	1990	e2200	e4370	6880	7940	8310	22200	26000	10700	1480	370	1310
27	2020	e2400	e4130	7140	8350	8370	21300	25800	9550	1290	365	1310
28	2010	e2510	e4000	7160	8380	8510	20700	26000	8300	1280	332	1310
29	2020	e2680	e3930	7060	---	8790	20000	26700	8250	1170	287	1320
30	2040	e2950	e3510	6930	---	8970	19300	27600	9220	979	316	1330
31	2050	---	e3520	6810	---	9100	---	28600	---	912	367	---
TOTAL	48190	63080	129650	182980	145210	243730	578920	637700	576320	94621	16112	30722
MEAN	1555	2103	4182	5903	5186	7862	19300	20570	19210	3052	520	1024
MAX	2050	2950	5520	8120	8380	9100	31100	28600	29400	9200	733	1330
MIN	1030	1970	3150	2840	3710	5680	9480	15600	8250	912	287	372
AC-FT	95580	125100	257200	362900	288000	483400	1148000	1265000	1143000	187700	31960	60940
CFSM	0.37	0.51	1.01	1.42	1.25	1.89	4.65	4.96	4.63	0.74	0.13	0.25
IN.	0.43	0.57	1.16	1.64	1.30	2.18	5.19	5.72	5.17	0.85	0.14	0.28

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

	1948	1949	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
MEAN	1812	2722	4761	4317	6077	8054	16430	20900	11610	2296	599	673		
MAX	2788	4435	9128	7735	15440	16490	20030	29510	22900	6216	1391	1185		
(WY)	1952	1951	1951	1951	1951	1950	2000	1948	1948	1950	1948	1999		
MIN	865	1499	1591	945	1118	2075	4593	10830	3124	780	150	132		
(WY)	1950	1949	2001	2001	2001	2001	2001	2001	2001	2001	2001	1949		

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1948 - 2002

ANNUAL TOTAL	976684	2747235		
ANNUAL MEAN	2676	7527	6508	
HIGHEST ANNUAL MEAN			9028	1950
LOWEST ANNUAL MEAN			2498	2001
HIGHEST DAILY MEAN	15900	May 3	31100	Apr 17
LOWEST DAILY MEAN	47	Aug 21	287	Aug 29
ANNUAL SEVEN-DAY MINIMUM	59	Aug 21	344	Aug 25
ANNUAL RUNOFF (AC-FT)	1937000	5449000	4715000	
ANNUAL RUNOFF (CFSM)	0.64	1.81	1.57	
ANNUAL RUNOFF (INCHES)	8.75	24.63	21.31	
10 PERCENT EXCEEDS	5410	20600	18400	
50 PERCENT EXCEEDS	1490	4140	3160	
90 PERCENT EXCEEDS	318	727	407	

e Estimated