Water-Data Report 2006

12419000 SPOKANE RIVER NEAR POST FALLS, ID

Spokane Basin
Upper Spokane Subbasin

LOCATION.--Lat 47°42′11″, long 116°58′40″ referenced to North American Datum of 1983, in SW ¼ SW ¼ SW ¼ sec.4, T.50 N., R.5 W., Kootenai County, ID, Hydrologic Unit 17010305, Post Falls quad., on right bank, 1 mi downstream from power plant of Avista Utilities, 1.5 mi southwest of Post Falls, and at mile 100.7.

DRAINAGE AREA.--3,840 mi^2 , approximately, of which about 122 mi^2 in the vicinity of Hayden Lake is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1912 to current year (prior to January 1913, monthly discharge only, published in WSP 870 and 1736). Prior to October 1949, published as "at Post Falls."

GAGE.--Water-stage recorder. Datum of gage is 2,050 ft, referred to originally accepted elevation of 2,157.40 ft for the U.S. Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). Datum of gage based on NGVD of 1929, supplementary adjustment of 1947, is 2,047.00 ft. Datum of gage using NAVD88 is 2,050.885 ft.

Jan. 1, 1913 to Nov. 21, 1920, nonrecording gage, and Nov. 22, 1920 to Sept. 15, 1934, recording gage 0.6 mi upstream. From Sept. 16, 1934 to Nov. 15, 1949, recording gage 0.8 mi upstream. From Nov. 16, 1949, at present site. Datum of all gages prior to Sept. 30, 1964, 50 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by dam at Post Falls and affected by storage in Coeur d'Alene Lake (sta 12415500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,100 ft^3/s, when recorder was not operating, Dec. 25, 1933, (determined from unpublished records collected by Washington Water Power Co. for station at Liberty Bridge); minimum, 65 ft^3/s July 25, 30, 1973; minimum gage height, 4.68 ft, July 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,600 ft^3/s Apr. 18, gage height, 17.59 ft; minimum daily, 345 ft^3/s Sept. 2.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,980	2,300	3,270	8,820	9,230	5,180	9,080	17,600	11,400	3,580	600	354
2	2,220	2,290	3,470	9,510	9,130	5,990	9,740	18,000	9,070	3,420	598	345
3	2,540	2,300	3,470	10,200	9,120	6,750	10,000	18,000	8,320	2,720	493	359
4	2,630	2,240	3,470	10,300	9,220	7,150	10,300	17,700	9,370	2,190	431	371
5	2,630	2,350	3,460	10,100	9,360	7,420	10,700	17,300	9,440	2,180	427	373
6	2,620	3,120	3,440	9,780	9,440	7,550	11,700	16,900	9,480	2,510	429	374
7	2,660	3,150	3,420	9,620	9,310	7,880	12,600	16,500	9,490	3,220	429	377
8	2,700	3,130	3,150	9,550	9,220	8,240	13,700	16,200	9,530	3,080	428	379
9	2,700	3,150	3,000	9,480	8,980	8,430	14,700	15,900	9,520	2,340	427	378
10	2,650	3,140	2,990	10,100	8,540	8,390	15,800	15,600	9,530	2,340	434	380
11	2,510	3,150	2,890	12,000	8,280	8,450	16,600	14,800	9,530	2,200	594	380
12	2,540	3,130	2,680	13,900	8,020	8,390	17,100	14,500	8,350	1,950	645	1,180
13	2,390	3,130	2,580	14,700	7,330	8,300	17,300	14,300	7,490	1,870	622	1,970
14	2,350	3,130	2,340	15,300	7,120	8,020	17,400	14,600	9,420	1,610	622	1,860
15	2,350	3,140	2,260	16,100	6,940	7,880	17,800	14,200	11,300	1,310	706	1,810
16	2,340	3,140	2,130	16,700	6,570	7,710	18,800	14,200	10,500	1,330	753	1,810
17	2,330	3,150	2,120	17,000	6,070	7,340	19,800	14,700	9,550	1,330	668	1,840
18	2,320	3,140	1,900	16,900	5,760	7,300	20,300	15,600	9,520	1,330	627	1,820
19	2,320	3,110	1,860	16,600	5,520	7,000	20,100	16,500	8,690	1,100	628	1,810
20	2,330	3,100	1,750	16,100	5,390	6,630	19,700	17,300	7,510	981	630	2,030
21	2,320	3,100	1,780	15,600	5,100	6,610	19,200	17,900	7,500	979	629	2,010
22	2,310	3,090	1,890	14,900	4,960	6,570	18,600	18,100	6,470	1,100	630	1,820
23	2,310	3,090	1,950	13,900	4,950	6,280	18,100	18,200	5,650	1,390	634	1,760
24	2,310	3,080	2,610	13,200	4,810	6,280	17,900	18,100	5,520	1,530	583	1,800
25	2,310	3,070	2,910	12,200	4,690	6,240	17,800	17,800	4,890	1,500	423	1,530
26	2,310	3,070	3,340	11,700	4,460	6,750	17,600	17,100	4,370	1,500	350	1,350
27	2,300	3,050	4,030	10,900	4,430	7,340	17,200	16,300	4,280	1,400	351	1,280
28	2,290	3,090	4,540	10,500	4,740	7,870	16,900	15,600	4,290	1,130	350	1,190
29	2,290	3,090	5,100	9,650	---	8,130	16,900	14,900	4,050	788	359	1,190
30	2,290	3,070	6,540	9,400	---	8,520	17,100	14,100	3,710	625	362	1,190
31	2,300	---	7,990	9,200	---	8,470	---	12,800	---	609	362	---
Total	74,450	89,290	98,330	383,910	196,690	229,060	480,520	501,300	237,740	55,142	16,224	35,320
Mean	2,402	2,976	3,172	12,380	7,025	7,389	16,020	16,170	7,925	1,779	523	1,177
Max	2,700	3,150	7,990	17,000	9,440	8,520	20,300	18,200	11,400	3,580	753	2,030
Min	1,980	2,240	1,750	8,820	4,430	5,180	9,080	12,800	3,710	609	350	345
Ac-ft	147,700	177,100	195,000	761,500	390,100	454,300	953,100	994,300	471,600	109,400	32,180	70,060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,771	2,869	4,872	5,249	6,277	8,138	14,350	17,240	9,527	2,076	922	1,185
Max	5,460	13,130	23,660	24,930	23,280	25,440	26,050	34,930	26,710	10,720	2,133	1,849
(WY)	(1928)	(1928)	(1934)	(1934)	(1996)	(1972)	(1943)	(1997)	(1974)	(1916)	(1917)	(1985)
Min	782	627	784	903	1,025	1,751	3,558	5,141	1,584	851	185	188
(WY)	(1964)	(1936)	(1936)	(2001)	(1929)	(1929)	(1977)	(1992)	(1926)	(1994)	(1958)	(1949)

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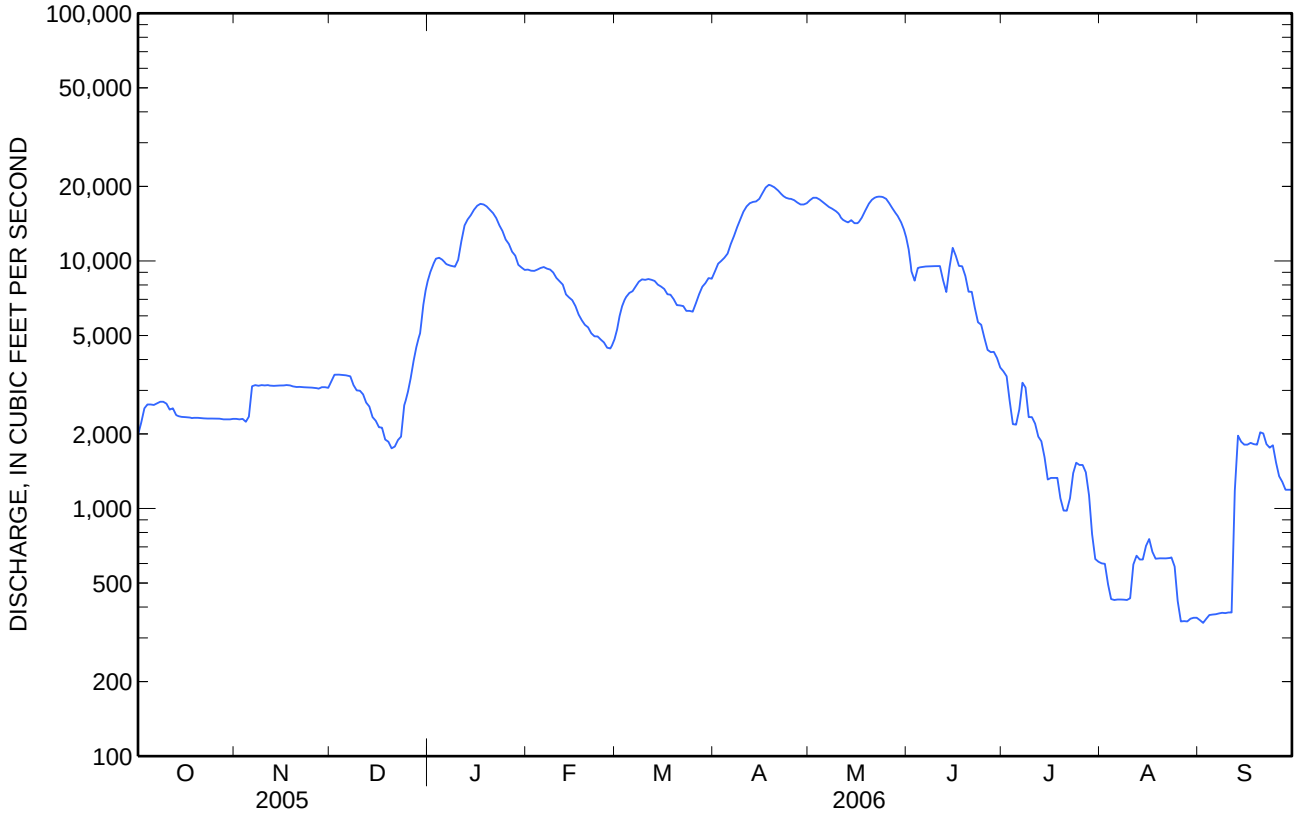
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1913 - 2006	
Annual total	1,502,814		2,397,976			
Annual mean	4,117		6,570		6,177	
Highest annual mean					11,600	1974
Lowest annual mean					2,143	1977
Highest daily mean	13,400	Apr 11	20,300	Apr 18	49,800	Dec 25, 1933
Lowest daily mean	403	Sep 12	345	Sep 2	67	Jul 24, 1973
Annual seven-day minimum	432	Aug 5	355	Aug 27	108	Aug 10, 1966
Annual runoff (ac-ft)	2,981,000		4,756,000		4,475,000	
10 percent exceeds	9,320		16,600		17,000	
50 percent exceeds	3,090		4,280		3,020	
90 percent exceeds	475		629		900