

Figure 50. Location of surface-water stations in the Spokane River Basin.

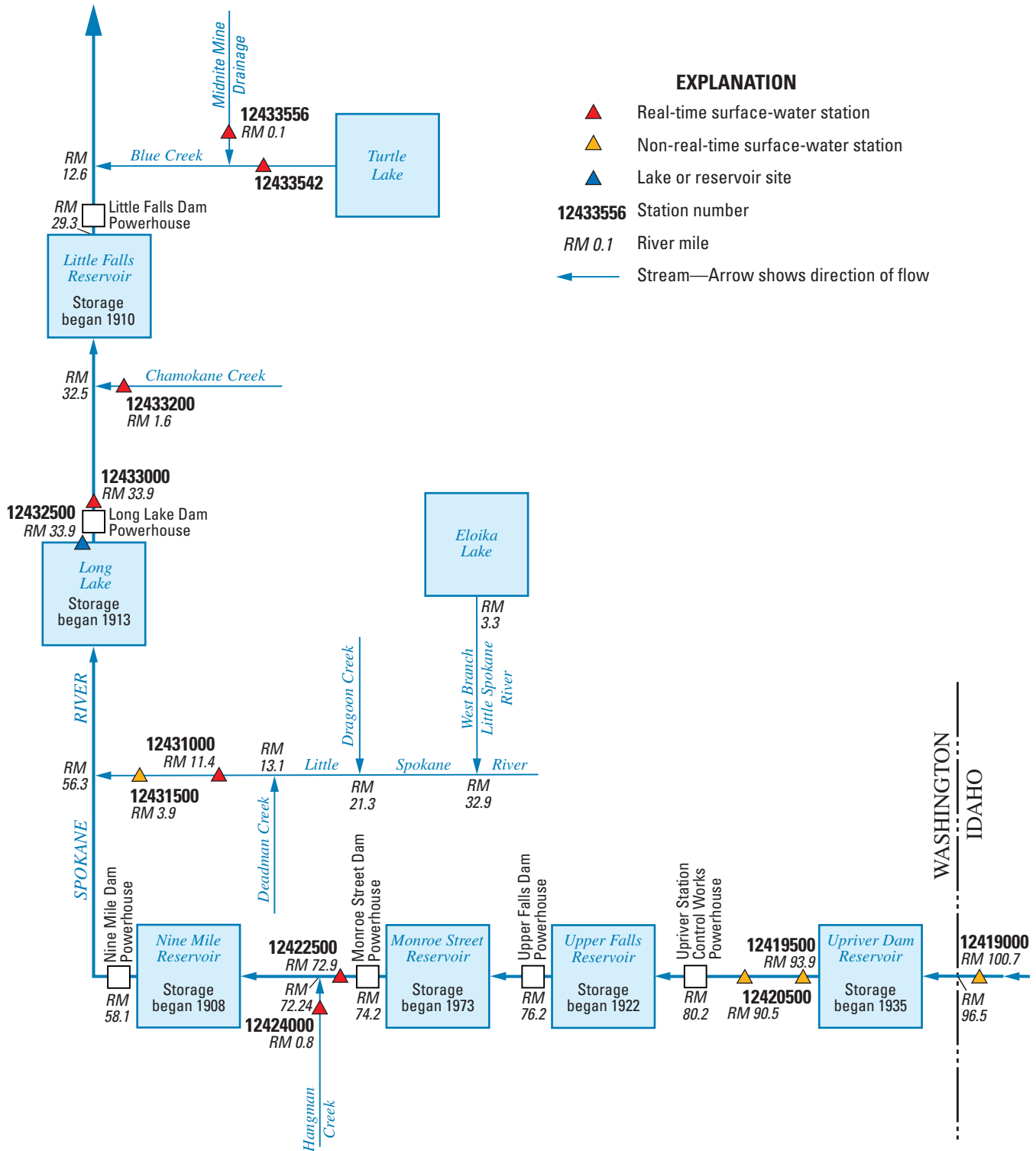


Figure 51. Schematic diagram showing surface-water stations in the Spokane River Basin.

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID

LOCATION.--Lat 47°42'11", long 116°58'37", (NAD27), in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.50 N., R.5 W., Kootenai County, Post Falls quad., Hydrologic Unit 17010305, on right bank, 1 mi downstream from powerplant of Avista Utilities, 1.5 mi southwest of Post Falls, and at mile 100.7.

DRAINAGE AREA.--3,840 mi², approximately, of which about 122 mi² in the vicinity of Hayden Lake is noncontributing to this station.

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). Gage datum is 2,047.00 ft above NGVD of 1929. 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PERIOD OF RECORD.--Maximum discharge, 50,100 ft³/s, when recorder was not operating, Dec. 25, 1933, (determined from unpublished records collected by Washington Water Power Co. for station at Liberty Bridge); minimum, 65 ft³/s July 25, 30, 1973; minimum gage height, 4.68 ft, July 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,800 ft³/s Dec. 15, gage height, 16.21 ft; minimum daily, 403 ft³/s Sept. 12.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2350	3320	5560	6390	10500	3820	8660	7120	5370	2180	564	468
2	2390	3460	5550	5920	10200	3620	9290	7110	5450	2190	560	470
3	2770	3450	5560	5730	9620	3620	10500	7130	5910	2140	559	471
4	3140	3450	5540	5300	9350	3620	12200	7120	6170	1820	492	470
5	3140	3460	5540	5000	9110	3610	13000	6600	5900	1770	436	470
6	3140	3460	5530	4770	8730	3600	12900	6060	5350	1640	436	447
7	3060	3460	5520	4420	8260	3600	12700	6070	4870	1550	435	427
8	3040	3440	5520	4800	8040	3310	12800	7740	4360	1510	434	478
9	3130	3440	5510	4480	7650	3070	13200	7810	3610	1500	427	480
10	3120	3430	5840	4250	7310	3070	13300	9130	2970	1490	422	477
11	3110	3440	6710	4190	6820	3070	13400	9950	2710	1490	434	415
12	3110	3740	10100	4180	6680	3080	13200	9640	2710	1480	446	403
13	3100	3960	12000	4150	6580	3080	12900	8810	2690	1350	441	437
14	3100	3950	12600	3950	6230	3080	12100	8200	2640	1140	439	452
15	3100	3920	13800	3800	6000	3090	10700	8210	2630	1020	439	1460
16	3090	4230	13900	3650	5910	3080	9940	8220	3010	951	459	2050
17	3090	4420	13800	3380	5520	3090	8140	8870	3420	952	470	2060
18	3100	4420	13500	3810	5320	3090	7450	9320	3950	950	457	2030
19	3100	4420	12500	4680	5210	3080	7500	9360	3610	1040	455	2000
20	3100	4410	12000	6660	5090	3090	7570	9330	3120	1090	452	1990
21	3100	4400	11600	8380	4680	3090	7630	9330	2850	1090	462	2000
22	2860	4380	11100	9670	4510	3090	8470	8650	2740	1090	468	1990
23	3110	4370	10300	10300	4500	3090	9410	8320	2790	1090	453	1990
24	3100	4370	9820	10800	4280	3090	9670	7850	2480	1090	467	1990
25	3100	4390	9380	11000	4170	3100	9700	7350	2320	931	487	2000
26	3100	4450	8840	11100	4160	3100	9040	6390	2280	766	464	2010
27	3090	4440	8090	11200	4170	3120	8600	5750	2250	666	449	2010
28	3120	4440	7770	10800	4170	3480	8180	5720	2220	561	441	2010
29	3130	5040	7300	10600	---	4650	7420	5690	2210	567	441	2020
30	3130	5560	6780	10000	---	6630	7120	5750	2180	577	465	2030
31	3130	---	6550	9960	---	8190	---	5600	---	576	478	---
TOTAL	94250	121120	274110	207320	182770	110400	306690	238200	104770	38257	14332	38005
MEAN	3040	4037	8842	6688	6528	3561	10220	7684	3492	1234	462	1267
MAX	3140	5560	13900	11200	10500	8190	13400	9950	6170	2190	564	2060
MIN	2350	3320	5510	3380	4160	3070	7120	5600	2180	561	422	403
AC-FT	186900	240200	543700	411200	362500	219000	608300	472500	207800	75880	28430	75380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2005, BY WATER YEAR (WY)

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	1764	2867	4891	5173	6269	8146	14330	17250	9544	2079	926	1185																																																																																	
MAX	5460	13130	23660	24930	23280	25440	26050	34930	26710	10720	2133	1849																																																																																	
(WY)	1928	1928	1934	1934	1996	1972	1943	1997	1974	1916	1917	1985																																																																																	
MIN	782	627	784	903	1025	1751	3558	5141	1584	851	185	188																																																																																	
(WY)	1964	1936	1936	2001	1929	1929	1977	1992	1926	1994	1958	1949																																																																																	

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1913 - 2005	
ANNUAL TOTAL	1953200		1730224			
ANNUAL MEAN	5337		4740		6173	
HIGHEST ANNUAL MEAN					11600	1974
LOWEST ANNUAL MEAN					2143	1977
HIGHEST DAILY MEAN	14700	Apr 16	13900	Dec 16	49800	Dec 25 1933
LOWEST DAILY MEAN	374	Aug 12	403	Sep 12	67	Jul 24 1973
ANNUAL SEVEN-DAY MINIMUM	513	Aug 11	432	Aug 5	108	Aug 10 1966
ANNUAL RUNOFF (AC-FT)	3874000		3432000		4472000	
10 PERCENT EXCEEDS	12000		9950		17000	
50 PERCENT EXCEEDS	3900		3620		3010	
90 PERCENT EXCEEDS	757		475		900	

12419500 SPOKANE RIVER ABOVE LIBERTY BRIDGE, NEAR OTIS ORCHARDS, WA

LOCATION.--Lat 47°40'56", long 117°05'05", in NW¼ sec.11, T.25 N., R.45 E., Spokane County, Hydrologic Unit 17010305, on left bank 1.2 mi upstream from Liberty Bridge, 1.8 mi southeast of Otis Orchards, 3.3 mi northeast of Greenacres, and at mile 93.9.

DRAINAGE AREA.--3,880 mi², approximately.

PERIOD OF RECORD.--January 1929 to December 1936, March 1937, August 1937 to August 1941, October 1941 to October 1942, February to May 1943, August 1943 to November 1946, February to July 1947, September 1947 to February 1948; May to November 1948, March to November 1949, and April to September 1950 (monthly discharge only); October 1950 to September 1983, April 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,000 ft above NGVD of 1929, (levels by Avista Corporation).

REMARKS.--Records good, except for estimated daily discharges, which are fair. Flow partly regulated by dam at Post Falls, Idaho, 8.2 mi upstream and affected by storage in Coeur D'Alene Lake. Chemical analysis July 1959 to September 1971, April to September 1999. Water temperature December 1963 to September 1965.

AVERAGE DISCHARGE.-- 53 years (water years 1930-36, 1938-40, 1942, 1944-46, 1951-83, 2000-05), 5,999 ft³/s, 4,346,000 acre- ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,100 ft³/s, Dec. 25, 1933, gage height, 22.24 ft; minimum daily discharge, 38 ft³/s, July 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,200 ft³/s, Dec. 15, gage height, 15.83 ft; minimum discharge, 162 ft³/s, Sept. 12, gage height, 7.79 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,070	2,960	5,210	6,050	10,000	3,620	8,240	6,700	e4,980	1,790	360	276
2	2,120	3,130	5,200	5,660	9,880	3,390	8,800	6,690	5,050	1,810	352	276
3	2,400	3,110	5,200	5,450	9,240	3,380	10,100	6,700	5,480	1,800	351	279
4	2,750	3,110	5,200	5,080	8,940	3,380	11,800	6,690	5,740	1,450	309	279
5	2,750	3,120	5,200	4,750	8,690	3,370	12,700	6,270	5,520	1,410	240	279
6	2,760	3,130	5,190	4,520	8,330	3,370	12,700	5,720	5,010	1,300	237	275
7	2,700	3,120	5,170	4,190	7,860	3,360	12,400	5,730	4,530	1,210	234	231
8	2,650	3,110	5,160	4,520	7,610	3,100	12,600	7,160	4,020	1,170	234	281
9	2,770	3,110	5,160	4,250	7,250	2,810	13,000	7,310	3,310	1,170	229	292
10	2,750	3,110	5,420	4,010	6,930	2,810	13,100	8,530	2,660	1,150	221	290
11	2,740	3,110	6,130	3,940	6,480	2,810	13,200	9,450	2,340	1,150	227	258
12	2,740	3,370	9,440	3,930	6,320	2,820	13,000	9,190	2,340	1,130	242	206
13	2,740	3,620	11,600	3,900	6,230	2,810	12,600	8,350	2,320	1,060	241	251
14	2,740	3,620	12,300	3,720	5,940	2,820	11,900	7,690	2,260	867	240	253
15	2,740	3,590	13,500	e3,570	5,720	2,820	10,400	7,690	2,240	782	238	950
16	2,740	3,870	13,700	e3,440	5,650	2,820	9,620	7,700	2,590	711	250	1,610
17	2,730	4,080	13,600	e3,170	5,290	2,820	7,850	8,280	3,000	707	274	1,610
18	2,750	4,090	13,200	e3,530	5,080	2,820	7,040	8,800	3,620	704	260	1,590
19	2,740	4,090	12,200	4,340	4,980	2,820	7,100	8,830	3,270	760	253	1,560
20	2,740	4,080	11,700	6,160	4,870	2,830	7,170	8,810	2,780	812	251	1,550
21	2,750	4,080	11,300	7,830	4,480	2,840	7,220	8,790	2,500	812	254	1,560
22	2,530	4,060	10,800	9,150	4,280	2,830	7,970	8,170	2,370	812	269	1,560
23	2,770	4,060	9,930	9,840	4,270	2,830	8,970	7,770	2,430	812	256	1,550
24	2,760	4,070	9,430	10,400	4,060	2,840	9,240	7,370	2,140	812	261	1,560
25	2,760	4,080	8,970	10,600	3,940	2,840	9,260	6,830	1,950	714	286	1,580
26	2,750	4,120	8,440	10,800	3,930	2,850	8,660	6,030	1,910	554	270	1,590
27	2,750	4,120	7,700	10,800	3,940	2,880	8,160	e5,360	1,880	477	252	1,600
28	2,770	4,120	7,350	10,400	3,940	3,190	7,770	e5,340	1,840	366	247	1,590
29	2,790	4,620	6,910	10,200	---	4,280	7,020	e5,300	1,830	361	244	1,610
30	2,790	5,200	6,420	9,650	---	6,160	6,700	e5,350	1,800	368	264	1,630
31	2,790	---	6,180	9,530	---	7,710	---	e5,240	---	366	286	---
TOTAL	83,330	111,060	262,910	197,380	174,130	102,030	296,290	223,840	93,710	29,397	8,132	28,426
MEAN	2,688	3,702	8,481	6,367	6,219	3,291	9,876	7,221	3,124	948	262	948
MAX	2,790	5,200	13,700	10,800	10,000	7,710	13,200	9,450	5,740	1,810	360	1,630
MIN	2,070	2,960	5,160	3,170	3,930	2,810	6,700	5,240	1,800	361	221	206
AC-FT	165,300	220,300	521,500	391,500	345,400	202,400	587,700	444,000	185,900	58,310	16,130	56,380
CFSM	0.69	0.95	2.19	1.64	1.60	0.85	2.55	1.86	0.81	0.24	0.07	0.24
IN.	0.80	1.06	2.52	1.89	1.67	0.98	2.84	2.15	0.90	0.28	0.08	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

MEAN	1,649	2,646	4,710	5,201	6,165	7,474	13,950	17,260	9,475	1,856	782	1,056
MAX	3,281	7,913	23,660	24,980	16,050	24,440	25,150	28,700	25,710	6,043	1,464	1,731
(WY)	(1969)	(1960)	(1934)	(1934)	(1961)	(1972)	(1943)	(1932)	(1974)	(1950)	(1948)	(1971)
MIN	748	597	726	834	1,010	1,673	3,605	5,441	2,067	709	149	127
(WY)	(1964)	(1936)	(1936)	(2001)	(2001)	(1929)	(1977)	(1944)	(1931)	(2003)	(2001)	(1949)

SPOKANE RIVER BASIN

12419500 SPOKANE RIVER ABOVE LIBERTY BRIDGE, NEAR OTIS ORCHARDS, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	1,838,001		1,610,635			
ANNUAL MEAN	5,022		4,413		6,006	
HIGHEST ANNUAL MEAN					11,260	1974
LOWEST ANNUAL MEAN					2,077	1977
HIGHEST DAILY MEAN	14,500	Apr 17	13,700	Dec 16	49,800	Dec 25, 1933
LOWEST DAILY MEAN	208	Aug 12	206	Sep 12	0.00	Jun 28, 1933
ANNUAL SEVEN-DAY MINIMUM	328	Aug 8	232	Aug 5	71	Aug 21, 2001
ANNUAL RUNOFF (AC-FT)	3,646,000		3,195,000		4,351,000	
ANNUAL RUNOFF (CFSM)	1.29		1.14		1.55	
ANNUAL RUNOFF (INCHES)	17.62		15.44		21.03	
10 PERCENT EXCEEDS	11,600		9,480		16,700	
50 PERCENT EXCEEDS	3,600		3,380		3,020	
90 PERCENT EXCEEDS	575		280		770	

e Estimated

12420500 SPOKANE RIVER AT GREENACRES, WA

LOCATION.--Lat 47°40'39", long 117°09'04", in SW $\frac{1}{4}$ of NW $\frac{1}{4}$ 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, September 1999 to current year. March 1948 to July 1952 at site 1.1 miles downstream; records not equivalent due to loss to groundwater between sites.

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

REMARKS.--Records good, except for estimated daily discharges and discharges below 100 ft³/s, which are fair. 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 2000-05) 4,936 ft³/s, 3,576,000 acre-ft/yr, unadjusted. Average discharge does not include water years 1949-51 at non equivalent site 1.1 miles downstream.

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, 15,500 ft³/s, Dec. 15, gage height, 10.17 ft; minimum discharge, 74 ft³/s, Sept. 12, gage height, 3.00 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,990	2,820	5,020	6,080	10,000	e3,610	e8,280	e6,790	4,930	e1,700	231	157
2	2,030	2,990	5,020	5,670	9,850	e3,380	e8,840	6,780	4,990	e1,720	222	158
3	2,290	2,970	5,030	5,450	9,260	e3,370	e10,000	6,790	5,430	e1,710	223	160
4	2,660	2,960	5,020	5,080	8,980	e3,370	e11,600	6,780	5,710	e1,350	194	160
5	2,660	2,980	5,030	4,730	8,740	e3,360	e12,500	6,350	5,490	e1,310	120	161
6	2,670	2,990	5,030	4,510	8,400	e3,360	e12,500	5,730	4,980	e1,200	115	158
7	2,610	2,990	5,030	4,180	7,950	e3,350	e12,200	5,730	4,490	e1,110	112	118
8	2,500	2,980	5,040	4,480	7,700	e3,090	e12,400	7,220	3,970	e1,060	112	162
9	2,590	2,980	5,040	4,240	7,350	2,800	e12,800	7,420	3,270	e1,060	109	175
10	2,580	2,980	5,280	3,990	7,020	2,800	e12,900	8,560	2,610	e1,040	102	176
11	2,580	2,980	5,940	3,910	6,560	2,800	e13,000	9,500	2,270	e1,040	106	155
12	2,580	3,220	9,140	3,900	6,390	e2,810	e12,800	9,270	2,260	1,020	123	100
13	2,580	3,470	11,300	3,870	6,300	e2,810	e12,400	8,460	2,240	958	125	143
14	2,580	3,470	11,900	3,710	5,990	e2,810	e11,700	7,790	2,180	750	121	143
15	2,580	3,450	13,100	3,540	e5,750	e2,810	e10,200	7,780	2,160	668	121	711
16	2,580	3,700	13,400	3,410	e5,660	e2,810	e9,660	7,800	2,490	585	129	1,420
17	2,590	3,910	13,300	3,150	e5,280	e2,810	e7,890	8,320	2,900	576	157	1,440
18	2,590	3,930	13,000	3,480	e5,070	e2,810	e7,090	8,860	3,550	571	143	1,410
19	2,590	3,920	12,000	4,270	e4,970	e2,810	e7,150	8,880	3,210	622	137	1,390
20	2,590	3,920	11,600	6,120	e4,860	e2,820	e7,220	8,870	e2,720	687	134	1,390
21	2,600	3,920	11,200	7,820	e4,470	e2,830	e7,270	8,850	e2,440	686	133	1,390
22	2,390	3,910	10,700	9,100	e4,280	e2,820	e8,030	8,260	e2,300	689	151	1,400
23	2,630	3,910	9,880	9,750	e4,260	e2,820	e9,030	7,850	e2,360	692	140	1,390
24	2,620	3,920	9,410	10,300	e4,050	e2,830	e9,290	7,460	e2,070	688	142	1,390
25	2,620	3,930	8,980	10,500	e3,930	e2,830	e9,310	6,900	e1,880	603	168	1,410
26	2,620	3,980	8,480	10,700	e3,920	e2,840	e8,710	6,090	e1,840	435	154	1,430
27	2,620	3,990	7,770	10,700	e3,930	e2,870	e8,210	5,330	e1,810	364	140	1,430
28	2,640	3,990	7,430	10,400	e3,930	e3,180	e7,830	5,300	e1,760	244	133	1,430
29	2,660	4,430	6,980	10,100	---	e4,270	e7,090	5,260	e1,750	237	129	1,450
30	2,660	5,020	6,470	9,630	---	e6,200	e6,790	5,300	e1,720	243	146	1,470
31	2,660	---	6,220	9,510	---	e7,750	---	5,190	---	240	169	---
TOTAL	79,140	106,610	258,740	196,280	174,850	101,830	294,690	225,470	91,780	25,858	4,441	24,077
MEAN	2,553	3,554	8,346	6,332	6,245	3,285	9,823	7,273	3,059	834	143	803
MAX	2,670	5,020	13,400	10,700	10,000	7,750	13,000	9,500	5,710	1,720	231	1,470
MIN	1,990	2,820	5,020	3,150	3,920	2,800	6,790	5,190	1,720	237	102	100
AC-FT	157,000	211,500	513,200	389,300	346,800	202,000	584,500	447,200	182,000	51,290	8,810	47,760
CFSM	0.62	0.86	2.01	1.53	1.50	0.79	2.37	1.75	0.74	0.20	0.03	0.19
IN.	0.71	0.96	2.32	1.76	1.57	0.91	2.64	2.02	0.82	0.23	0.04	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2005, BY WATER YEAR (WY)

MEAN	1,855	2,574	4,670	4,200	6,343	7,714	15,120	17,480	9,700	1,877	508	753
MAX	2,788	4,435	9,128	7,735	15,440	16,490	20,030	29,510	22,900	6,216	1,391	1,282
(WY)	(1952)	(1951)	(1951)	(1951)	(1951)	(1950)	(2000)	(1948)	(1948)	(1950)	(1948)	(2004)
MIN	865	1,273	1,591	945	1,118	2,075	4,593	7,273	3,059	606	96.2	132
(WY)	(1950)	(2003)	(2001)	(2001)	(2001)	(2001)	(2001)	(2005)	(2005)	(2003)	(2003)	(1949)

SPOKANE RIVER BASIN

12420500 SPOKANE RIVER AT GREENACRES, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1948 - 2005	
ANNUAL TOTAL	1,854,201		1,583,766		5,805	
ANNUAL MEAN	5,066		4,339		9,028	
HIGHEST ANNUAL MEAN					2,498	
LOWEST ANNUAL MEAN					40,000	
HIGHEST DAILY MEAN	14,800	Apr 17	13,400	Dec 16	2,498	1950
LOWEST DAILY MEAN	85	Aug 12	100	Sep 12	45	2001
ANNUAL SEVEN-DAY MINIMUM	198	Aug 11	111	Aug 5	45	Aug 26, 2003
ANNUAL RUNOFF (AC-FT)	3,678,000		3,141,000		4,206,000	
ANNUAL RUNOFF (CFSM)	1.22		1.05		1.40	
ANNUAL RUNOFF (INCHES)	16.62		14.20		19.01	
10 PERCENT EXCEEDS	11,900		9,500		15,900	
50 PERCENT EXCEEDS	3,680		3,370		3,080	
90 PERCENT EXCEEDS	473		162		358	

e Estimated

12422500 SPOKANE RIVER AT SPOKANE, WA

LOCATION.--Lat 47°39'34", long 117°26'53", in SW¹/₄SW¹/₄ 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 mi², approximately, of which about 122 mi² 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.--114 years (water years 1892-2005), 6,689 ft³/s, 4,846,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,000 ft³/s, estimated, May 31, 1894 (see WSP 532); minimum, 49.7 ft³/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, 14,000 ft³/s, Dec. 15, gage height, 23.12 ft; minimum discharge, 415 ft³/s, Aug. 22, gage height, 16.76 ft, result of regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,350	3,300	5,330	6,720	10,000	4,390	8,110	7,180	5,430	2,310	783	606
2	2,410	3,470	5,360	6,390	10,000	4,080	8,470	7,150	5,480	2,290	781	604
3	2,510	3,460	5,380	6,080	9,550	4,070	9,680	7,140	5,760	2,320	746	612
4	2,920	3,450	5,390	5,870	9,250	4,040	11,100	7,120	6,080	2,060	758	624
5	2,930	3,480	5,390	5,460	9,070	4,020	12,100	6,820	5,960	1,940	656	617
6	2,950	3,480	5,420	5,300	8,770	4,000	12,300	6,170	5,560	1,860	668	608
7	2,940	3,480	5,450	5,000	8,380	3,950	12,100	6,150	5,080	1,780	626	585
8	2,870	3,500	5,470	5,100	8,150	3,820	12,200	7,230	4,660	1,720	637	592
9	3,000	3,500	5,450	5,030	7,850	3,480	12,600	7,630	4,120	1,750	616	617
10	3,000	3,510	5,580	4,750	7,570	3,490	12,800	8,420	3,490	1,700	612	616
11	3,020	3,510	6,020	4,650	7,130	3,450	12,900	9,480	3,090	1,680	590	646
12	3,040	3,640	8,480	4,600	6,940	3,460	12,800	9,400	3,050	1,660	601	589
13	3,020	3,900	10,700	4,580	6,810	3,440	12,500	8,760	3,010	1,620	624	590
14	3,000	3,930	11,500	4,450	6,620	3,430	12,000	8,050	2,930	1,420	605	613
15	3,030	3,930	12,500	4,270	6,320	3,430	10,800	8,020	2,880	1,370	615	829
16	3,030	4,060	12,900	4,180	6,240	3,420	10,100	8,020	3,040	1,260	589	1,600
17	3,070	4,300	13,000	3,950	6,000	3,430	8,610	8,360	3,420	1,250	616	1,670
18	3,090	4,340	12,800	4,100	5,760	3,400	7,660	8,960	3,980	1,230	655	1,690
19	3,070	4,340	12,100	4,630	5,620	3,440	7,650	9,000	3,780	1,200	611	1,680
20	3,070	4,350	11,600	6,130	5,490	3,410	7,680	9,030	3,350	1,350	611	1,700
21	3,100	4,350	11,200	7,610	5,220	3,380	7,720	9,000	3,090	1,250	600	1,690
22	2,950	4,360	10,900	8,840	4,950	3,390	8,160	8,610	2,890	1,270	599	1,740
23	3,120	4,370	10,200	9,550	4,930	3,380	9,120	8,130	2,960	1,260	598	1,740
24	3,130	4,380	9,690	10,000	4,780	3,370	9,460	7,900	2,750	1,290	601	1,720
25	3,140	4,370	9,340	10,400	4,630	3,360	9,490	7,280	2,530	1,230	630	1,760
26	3,140	4,430	8,920	10,600	4,600	3,400	9,110	6,760	2,460	1,030	620	1,790
27	3,120	4,460	8,310	10,700	4,590	3,470	8,520	5,920	2,450	979	606	1,800
28	3,150	4,430	7,960	10,500	4,570	3,560	8,280	5,870	2,400	867	594	1,810
29	3,170	4,710	7,570	10,200	---	4,300	7,630	5,770	2,390	826	591	1,830
30	3,150	5,320	7,140	9,850	---	5,940	7,200	5,780	2,330	799	593	1,870
31	3,170	---	6,850	9,630	---	7,470	---	5,710	---	815	614	---
TOTAL	92,660	120,110	263,900	209,120	189,790	118,670	298,850	234,820	110,400	45,386	19,646	35,438
MEAN	2,989	4,004	8,513	6,746	6,778	3,828	9,962	7,575	3,680	1,464	634	1,181
MAX	3,170	5,320	13,000	10,700	10,000	7,470	12,900	9,480	6,080	2,320	783	1,870
MIN	2,350	3,300	5,330	3,950	4,570	3,360	7,200	5,710	2,330	799	589	585
AC-FT	183,800	238,200	523,400	414,800	376,400	235,400	592,800	465,800	219,000	90,020	38,970	70,290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 2005, BY WATER YEAR (WY)

MEAN	2,163	3,276	5,165	5,490	6,307	8,279	14,110	17,650	10,890	3,371	1,731	1,730
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)

SPOKANE RIVER BASIN

12422500 SPOKANE RIVER AT SPOKANE, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1891 - 2005	
ANNUAL TOTAL	1,940,843		1,738,790			
ANNUAL MEAN	5,303		4,764		6,689	
HIGHEST ANNUAL MEAN					12,310	1974
LOWEST ANNUAL MEAN					2,508	1977
HIGHEST DAILY MEAN	14,200	Apr 17	13,000	Dec 17	49,000	May 31, 1894
LOWEST DAILY MEAN	644	Aug 13	585	Sep 7	466	Aug 11, 1973
ANNUAL SEVEN-DAY MINIMUM	723	Aug 12	601	Aug 27	502	Aug 21, 1994
ANNUAL RUNOFF (AC-FT)	3,850,000		3,449,000		4,846,000	
10 PERCENT EXCEEDS	11,500		9,580		17,000	
50 PERCENT EXCEEDS	3,980		4,000		3,700	
90 PERCENT EXCEEDS	1,050		634		1,500	

12424000 HANGMAN CREEK AT SPOKANE, WA

LOCATION.--Lat 47°39'10", long 117°26'55", in NW¹/₄ 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 mi².

PERIOD OF RECORD.--April 1948 to September 1977; October 1977 to September 1978 (discharges above 20 ft³/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.--56 years (water years 1949-77, 1979-2005), 229 ft³/s, 4.51 in/yr, 165,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft³/s, Jan. 1, 1997 (measured), gage height, 14.31 ft (from outside high-water mark); minimum discharge, 0.72 ft³/s, Aug. 5, 2004, due to regulation from upstream pipeline construction.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	1500	*2,320	*5.68				

Minimum discharge, 0.96 ft³/s, Aug. 15, Sept. 1, 2, 10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	19	34	33	84	36	367	53	71	23	4.4	1.4
2	8.2	21	29	31	79	36	288	51	68	20	3.8	1.3
3	9.1	21	26	29	73	36	251	50	67	19	3.3	2.2
4	9.2	23	25	e28	68	37	225	51	66	21	3.0	1.8
5	9.1	23	24	e26	67	37	289	49	68	19	3.6	1.4
6	8.8	22	24	e27	64	38	287	49	73	17	3.1	1.4
7	7.8	22	24	28	64	38	226	58	68	15	2.7	1.5
8	8.0	22	31	28	e63	38	199	69	64	14	2.7	1.4
9	10	26	33	e27	e55	38	214	76	64	22	2.4	1.5
10	11	25	42	25	e52	38	183	364	55	20	1.9	1.4
11	11	22	103	25	e50	38	156	1,030	49	22	1.5	2.4
12	11	21	211	26	e50	37	139	501	45	23	1.9	2.7
13	11	20	168	e29	e49	36	140	300	42	20	2.1	3.4
14	11	19	121	e27	49	36	166	219	40	17	1.6	4.0
15	11	20	88	e26	e47	35	161	205	38	16	1.4	4.0
16	12	20	73	e23	e44	34	138	193	36	14	1.6	4.0
17	14	20	82	e29	49	37	123	263	34	13	5.9	3.4
18	16	22	83	e33	46	36	127	470	35	13	2.7	2.5
19	17	21	69	771	45	36	180	317	33	12	2.1	2.9
20	17	20	62	882	39	39	143	293	30	10	2.7	4.1
21	16	20	57	481	36	43	124	242	28	9.2	3.9	3.7
22	19	20	52	361	36	53	110	246	30	8.9	3.1	3.0
23	20	20	e46	280	37	62	98	237	27	9.7	2.6	2.1
24	23	23	e43	233	36	63	90	241	24	8.3	2.5	2.3
25	25	24	42	186	34	56	83	186	22	8.6	2.0	2.8
26	22	25	41	153	34	56	81	152	20	6.8	1.8	3.0
27	20	27	e38	131	34	75	73	128	20	6.2	2.0	2.2
28	21	28	e35	119	34	1,260	66	111	23	6.4	1.5	2.6
29	25	48	34	112	---	1,080	61	97	24	5.2	1.7	3.3
30	23	41	37	103	---	837	57	85	24	4.2	1.5	6.8
31	20	---	35	92	---	548	---	75	---	4.0	1.4	---
TOTAL	456.1	705	1,812	4,404	1,418	4,869	4,845	6,461	1,288	427.5	78.4	80.5
MEAN	14.7	23.5	58.5	142	50.6	157	162	208	42.9	13.8	2.53	2.68
MAX	25	48	211	882	84	1,260	367	1,030	73	23	5.9	6.8
MIN	7.8	19	24	23	34	34	57	49	20	4.0	1.4	1.3
AC-FT	905	1,400	3,590	8,740	2,810	9,660	9,610	12,820	2,550	848	156	160
CFSM	0.02	0.03	0.08	0.21	0.07	0.23	0.23	0.30	0.06	0.02	0.00	0.00
IN.	0.02	0.04	0.10	0.24	0.08	0.26	0.26	0.35	0.07	0.02	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2005, BY WATER YEAR (WY)

MEAN	17.9	43.7	194	458	718	722	340	194	74.8	22.3	13.2	13.3
MAX	48.5	216	1,251	2,097	1,776	1,914	928	1,925	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)

SPOKANE RIVER BASIN

12424000 HANGMAN CREEK AT SPOKANE, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1948 - 2005	
ANNUAL TOTAL	46,646.8		26,844.5		229	
ANNUAL MEAN	127		73.5		629	
HIGHEST ANNUAL MEAN					27.3	
LOWEST ANNUAL MEAN					18,000	
HIGHEST DAILY MEAN	2,980	Feb 19	1,260	Mar 28	18,000	Jan 1, 1997
LOWEST DAILY MEAN	2.6	Aug 4	1.3	Sep 2	0.81	Sep 5, 1992
ANNUAL SEVEN-DAY MINIMUM	3.4	Aug 17	1.5	Sep 4	0.92	Sep 14, 1992
ANNUAL RUNOFF (AC-FT)	92,520		53,250		165,700	
ANNUAL RUNOFF (CFSM)	0.185		0.107		0.332	
ANNUAL RUNOFF (INCHES)	2.52		1.45		4.51	
10 PERCENT EXCEEDS	262		186		567	
50 PERCENT EXCEEDS	34		30		42	
90 PERCENT EXCEEDS	7.4		2.7		8.6	

e Estimated

12431000 LITTLE SPOKANE RIVER AT DARTFORD, WA

LOCATION.--Lat 47°47'05", long 117°24'12", in NE¼NW¼ sec.5, T.26 N., R.43 E., Spokane County, Hydrologic Unit 17010308, on left bank 50 ft upstream from county bridge, 0.5 mi east of Dartford, 1.7 mi downstream from Deadman Creek, 7.5 mi north of Spokane, and at mile 11.4.

DRAINAGE AREA.--665 mi².

PERIOD OF RECORD.--April 1929 to September 1932, December 1946 to current year.

REVISED RECORDS.--WSP 1216: Drainage area. WSP 1286: 1930, 1932(M), 1947-49(M). WSP 1446: 1951(M).

GAGE.--Water-stage recorder. Datum of gage is 1,585.62 ft above NGVD of 1929 (levels by Washington State Department of Transportation). Prior to 1996 an arbitrary datum of 1,590 ft was used, from topographic map. Prior to Mar. 16, 1951, nonrecording gage and Mar. 16, 1951, to July 5, 1961, water-stage recorder, at site 0.5 mi downstream at different datum.

REMARKS.--Records good, except for estimated daily discharges, which are fair. No regulation. Small diversions for irrigation upstream from station. U.S. Geological Survey satellite telemeter at station. Chemical analyses, July 1960 to September 1970, water temperatures, July 1968 to September 1970.

AVERAGE DISCHARGE.--61 years (water years 1930-32, 1948-2005), 300 ft³/s, 6.12 in/yr, 217,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,110 ft³/s Mar. 21, 1997, gage height, 8.27 ft; minimum discharge, 62 ft³/s Aug. 8, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 940 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 28	2045	*537	*3.74				

Minimum discharge, 78 ft³/s, Aug. 9, 10, gage height, 2.04 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	163	167	182	267	190	410	197	171	131	90	87
2	104	168	167	178	259	190	405	193	177	126	90	87
3	114	197	167	172	251	192	393	189	178	124	88	88
4	133	203	167	159	249	191	410	192	170	120	87	88
5	134	190	170	146	249	190	422	189	169	117	86	88
6	135	183	171	165	241	191	397	188	178	116	84	87
7	136	183	172	163	232	191	384	199	174	114	84	87
8	134	180	195	165	225	195	379	194	171	112	83	87
9	135	176	218	166	216	197	361	189	167	120	82	88
10	137	174	232	168	212	197	342	200	162	143	82	89
11	135	171	272	169	213	196	332	209	157	140	82	90
12	135	168	289	168	217	197	335	189	154	132	83	94
13	132	165	253	161	222	194	333	178	154	125	85	98
14	132	164	239	135	218	190	317	173	154	120	85	97
15	132	164	236	140	204	190	301	187	159	117	84	96
16	134	177	229	143	194	190	295	222	154	116	83	96
17	144	180	223	e152	194	190	295	222	152	115	88	97
18	169	176	217	e183	195	190	290	206	154	113	92	96
19	180	176	215	194	196	190	280	207	153	109	90	95
20	167	172	211	245	195	200	272	223	145	108	89	94
21	159	166	205	235	191	207	261	255	139	104	86	94
22	163	163	201	240	187	200	252	256	133	103	87	93
23	181	158	184	250	186	196	245	251	130	105	86	93
24	177	171	184	258	186	190	238	230	128	103	85	93
25	171	191	186	249	186	189	232	216	126	101	85	92
26	166	187	186	244	185	190	225	205	122	99	83	93
27	161	181	183	247	185	283	217	195	124	98	82	93
28	156	175	177	259	186	494	211	187	138	96	82	94
29	154	170	177	278	---	496	206	179	148	94	83	101
30	153	169	185	278	---	489	201	173	140	92	84	105
31	158	---	185	271	---	448	---	169	---	91	87	---
TOTAL	4,525	5,261	6,263	6,163	5,941	7,233	9,241	6,262	4,581	3,504	2,647	2,780
MEAN	146	175	202	199	212	233	308	202	153	113	85.4	92.7
MAX	181	203	289	278	267	496	422	256	178	143	92	105
MIN	104	158	167	135	185	189	201	169	122	91	82	87
AC-FT	8,980	10,440	12,420	12,220	11,780	14,350	18,330	12,420	9,090	6,950	5,250	5,510
CFSM	0.22	0.26	0.30	0.30	0.32	0.35	0.46	0.30	0.23	0.17	0.13	0.14
IN.	0.25	0.29	0.35	0.34	0.33	0.40	0.52	0.35	0.26	0.20	0.15	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

MEAN	155	190	238	287	407	579	621	413	259	164	132	137
MAX	244	357	824	1,204	1,108	1,629	1,469	1,176	710	331	217	227
(WY)	(1998)	(1984)	(1974)	(1974)	(1961)	(1997)	(1997)	(1948)	(1948)	(1948)	(1997)	(1997)
MIN	87.9	113	114	99.6	143	167	168	132	98.2	80.3	67.8	80.3
(WY)	(1932)	(1930)	(1993)	(1930)	(1993)	(1930)	(1977)	(1930)	(1931)	(1931)	(1931)	(1931)

SPOKANE RIVER BASIN

12431000 LITTLE SPOKANE RIVER AT DARTFORD, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	73,172		64,401			
ANNUAL MEAN	200		176		300	
HIGHEST ANNUAL MEAN					626	
LOWEST ANNUAL MEAN					128	
HIGHEST DAILY MEAN	480	Feb 28	496	Mar 29	3,710	Mar 21, 1997
LOWEST DAILY MEAN	82	Aug 1	82	Aug 9	63	Jul 24, 1930
ANNUAL SEVEN-DAY MINIMUM	84	Jul 29	83	Aug 6	65	Aug 13, 1931
ANNUAL RUNOFF (AC-FT)	145,100		127,700		217,000	
ANNUAL RUNOFF (CFSM)	0.301		0.265		0.450	
ANNUAL RUNOFF (INCHES)	4.09		3.60		6.12	
10 PERCENT EXCEEDS	389		255		602	
50 PERCENT EXCEEDS	180		172		201	
90 PERCENT EXCEEDS	94		89		120	

e Estimated

12431500 LITTLE SPOKANE RIVER NEAR DARTFORD, WA

LOCATION.--Lat 47°46'50", long 117°29'45", in NW¹/₄ sec.3, T.26 N., R.42 E., Spokane County, Hydrologic Unit 17010308, on right bank on downstream side of county bridge, 4 mi west of Dartford, 1.5 mi north of Spokane city limits, and at mile 3.9.

DRAINAGE AREA.--698 mi².

PERIOD OF RECORD.--April 1948 to March 1952, October 1997 to current year.

REVISED RECORDS.--WSP 1216: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,550 ft above NGVD of 1929, from topographic map. Prior to October 1997, in center of stream on downstream side of highway bridge, at unknown datum.

REMARKS.--Records good, except for estimated daily discharges, which are fair. No regulation. Many small diversions for irrigation and domestic use upstream from station.

AVERAGE DISCHARGE.--11 years (water years 1949-51, 1998-2005), 562 ft³/s, 10.93 in/yr, 406,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s, Apr. 15, 2000, gage height, 10.01 ft; minimum discharge, 315 ft³/s, Aug. 16, 17, 2001, gage height, 4.72 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 22-23, 1997, reached a discharge of 4,380 ft³/s based on comparison with records for Little Spokane River at Dartford (12431000), stage not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 29	0630	*752	*7.04 (a)				

Minimum discharge, 342 ft³/s, Aug. 10, 11.

(a) From inside well highwater mark.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359	421	431	446	513	442	669	472	441	402	358	353
2	361	424	431	443	507	444	658	468	447	396	358	352
3	364	444	431	438	501	444	652	465	448	394	357	352
4	382	456	431	429	497	444	656	468	441	390	356	352
5	384	447	434	410	496	442	667	466	440	387	354	353
6	385	440	436	432	492	442	651	464	447	385	352	351
7	385	438	436	430	485	442	639	470	444	383	352	352
8	384	436	457	431	479	444	634	469	439	381	351	351
9	387	433	476	431	471	445	622	464	435	390	351	352
10	388	430	487	432	464	445	606	471	430	407	349	353
11	386	428	512	433	464	444	597	481	426	409	349	356
12	386	426	537	432	466	445	597	466	423	400	350	359
13	385	425	513	426	472	443	595	454	423	392	352	362
14	383	424	498	408	468	440	585	449	423	387	352	361
15	385	425	493	396	458	439	571	455	426	384	350	358
16	387	434	489	416	447	438	563	483	422	383	349	360
17	396	440	484	425	447	438	563	493	420	384	358	360
18	416	437	479	442	448	438	558	480	421	381	363	359
19	429	437	477	447	449	438	553	476	420	377	359	358
20	422	433	474	482	448	445	544	492	414	375	357	355
21	416	428	469	485	445	451	534	517	408	373	354	357
22	419	425	465	486	441	447	524	522	402	372	353	355
23	432	422	452	493	440	443	518	518	398	373	354	355
24	432	432	450	503	440	440	513	499	396	371	352	355
25	426	448	451	496	440	439	508	486	395	369	352	354
26	423	448	452	492	439	440	501	477	392	367	350	356
27	418	442	449	493	439	496	494	467	393	365	348	355
28	416	437	443	502	439	661	486	459	406	364	348	355
29	413	432	441	515	---	e750	481	451	416	362	348	361
30	411	433	450	521	---	e738	477	444	410	360	348	367
31	413	---	447	516	---	706	---	438	---	358	351	---
TOTAL	12,373	13,025	14,375	14,131	12,995	14,853	17,216	14,684	12,646	11,821	10,935	10,679
MEAN	399	434	464	456	464	479	574	474	422	381	353	356
MAX	432	456	537	521	513	750	669	522	448	409	363	367
MIN	359	421	431	396	439	438	477	438	392	358	348	351
AC-FT	24,540	25,840	28,510	28,030	25,780	29,460	34,150	29,130	25,080	23,450	21,690	21,180
CFSM	0.57	0.62	0.66	0.65	0.66	0.69	0.82	0.68	0.60	0.55	0.51	0.51
IN.	0.66	0.69	0.77	0.75	0.69	0.79	0.92	0.78	0.67	0.63	0.58	0.57

SPOKANE RIVER BASIN

12431500 LITTLE SPOKANE RIVER NEAR DARTFORD, WA—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2005, BY WATER YEAR (WY)														
MEAN	425	459	514	543	666	906	931	725	545	425	383	383		
MAX	525	555	622	707	912	1,301	1,211	1,381	945	573	436	421		
(WY)	(1998)	(1998)	(1999)	(1999)	(1999)	(1999)	(2000)	(1948)	(1948)	(1948)	(1948)	(1999)		
MIN	362	395	435	424	443	479	532	454	399	342	323	327		
(WY)	(2003)	(2004)	(1950)	(2004)	(2001)	(2005)	(2001)	(2004)	(2001)	(2001)	(2001)	(2001)		
SUMMARY STATISTICS														
	FOR 2004 CALENDAR YEAR					FOR 2005 WATER YEAR			WATER YEARS 1948 - 2005					
ANNUAL TOTAL	162,433					159,733								
ANNUAL MEAN	444					438			562					
HIGHEST ANNUAL MEAN									686					
LOWEST ANNUAL MEAN									432					
HIGHEST DAILY MEAN	660					Feb 29			750		Mar 29		2,130	
LOWEST DAILY MEAN	333					Aug 1			348		Aug 27		318	
ANNUAL SEVEN-DAY MINIMUM	335					Jul 29			349		Aug 25		319	
ANNUAL RUNOFF (AC-FT)	322,200					316,800			406,900					
ANNUAL RUNOFF (CFSM)	0.636					0.627			0.805					
ANNUAL RUNOFF (INCHES)	8.66					8.51			10.93					
10 PERCENT EXCEEDS	599					513			917					
50 PERCENT EXCEEDS	428					436			465					
90 PERCENT EXCEEDS	348					355			362					

e Estimated

12432500 LONG LAKE AT LONG LAKE, WA

LOCATION.--Lat 47°50'12", long 117°50'20", in NW¹/₄SW¹/₄, sec.13, T.27 N., R.39 E., Lincoln County, Hydrologic Unit 17010307, at left end of spillway at Long Lake Dam on Spokane River, 12.0 mi north of Reardan, and at mile 33.9.

DRAINAGE AREA.--6,020 mi², approximately, of which about 122 mi² in the vicinity of Hayden Lake is noncontributing to this station.

PERIOD OF RECORD.--October 1913 to current year. Prior to October 1950 monthend contents only, published in WSP 1316. October 1950 to September 1977 monthend stage and contents only.

REVISED RECORDS.--WSP 1736: Monthend contents for 1916-33 corrected. WSP 1933: Drainage area. WDR WA-01-1: Calendar year change in contents for 1998-99 corrected.

GAGE.--Water-stage recorder with remote indicator in powerhouse. Datum of gage is NGVD of 1929 (levels by Avista Corporation).

REMARKS.--Reservoir is formed by concrete dam, completed in 1913 and raised in 1950. Capacity, 104,200 acre-ft between elevations 1,512 and 1,536 ft, normal limits of operation. Contents at elevation 1,512 ft by capacity table used prior to October 1915, 148,600 acre-ft. Records given herein represent usable contents. Water used for power. About 25,000 acres irrigated upstream from station, largely from wells in the Spokane Valley. Flow regulated by Coeur d'Alene Lake and powerplants along Spokane River.

COOPERATION.--Lake elevations and capacity table furnished by Avista Corporation. Records not reviewed.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 107,600 acre-ft, Jan. 16, 1974, elevation, 1,536.67 ft; minimum contents, since filling reservoir in 1920, 214 acre-ft, Feb. 16, 1985, elevation, 1,512.06 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 104,100 acre-ft, Nov. 14, elevation, 1,535.97 ft; minimum contents, 60,440 acre-ft, Mar. 7, elevation, 1,526.90 ft.

CAPACITY TABLE
(Based on data furnished by Avista Corporation)

Gage height (feet)	Contents (acre-feet)	Gage height (feet)	Contents (acre-feet)	Gage height (feet)	Contents (acre-feet)
1,512	0	1,526	56,330	1,534	94,240
1,513	3,570	1,528	65,460	1,535	99,190
1,517	18,640	1,531	79,740	1,536	104,200
1,520	30,550	1,532	84,540	1,537	109,300
1,522	38,880	1,533	89,360		

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,535.38	1,535.37	1,535.56	1,535.60	1,535.60	1,531.12	1,535.48	1,535.78	1,535.70	1,535.35	1,535.45	1,535.48
2	1,535.50	1,535.37	1,535.45	1,535.62	1,535.50	1,530.46	1,535.60	1,535.68	1,535.53	1,535.41	1,535.67	1,535.40
3	1,535.56	1,535.38	1,535.59	1,535.51	1,535.52	1,529.74	1,535.51	1,535.65	1,535.52	1,535.27	1,535.62	1,535.51
4	1,535.40	1,535.35	1,535.55	1,535.39	1,535.50	1,528.99	1,535.49	1,535.62	1,535.56	1,535.35	1,535.68	1,535.46
5	1,535.45	1,535.25	1,535.57	1,535.06	1,535.62	1,528.22	1,535.52	1,535.74	1,535.61	1,535.25	1,535.62	1,535.49
6	1,535.40	1,535.27	1,535.60	1,534.75	1,535.54	1,527.49	1,535.48	1,535.62	1,535.47	1,535.40	1,535.67	1,535.50
7	1,535.50	1,535.50	1,535.68	1,534.43	1,535.59	1,527.00	1,535.50	1,535.56	1,535.20	1,535.43	1,535.50	1,535.47
8	1,535.36	1,535.50	1,535.30	1,533.98	1,535.66	1,527.10	1,535.48	1,535.70	1,535.16	1,535.43	1,535.45	1,535.52
9	1,535.48	1,535.40	1,535.48	1,533.62	1,535.67	1,527.30	1,535.47	1,535.78	1,535.14	1,535.46	1,535.38	1,535.54
10	1,535.51	1,535.38	1,535.24	1,533.13	1,535.64	1,527.70	1,535.40	1,535.50	1,535.20	1,535.38	1,535.56	1,535.68
11	1,535.49	1,535.40	1,535.08	1,532.53	1,535.67	1,528.17	1,535.46	1,535.57	1,535.45	1,535.52	1,535.61	1,535.68
12	1,535.40	1,535.27	1,535.30	1,531.98	1,535.67	1,529.23	1,535.40	1,535.50	1,535.52	1,535.57	1,535.61	1,535.59
13	1,535.35	1,535.41	1,535.41	1,531.43	1,535.62	1,529.59	1,535.50	1,535.56	1,535.15	1,535.55	1,535.60	1,535.51
14	1,535.23	1,535.59	1,535.55	1,530.86	1,535.61	1,529.75	1,535.47	1,535.73	1,535.12	1,535.48	1,535.70	1,535.46
15	1,535.35	1,535.50	1,535.51	1,530.17	1,535.57	1,529.92	1,535.45	1,535.79	1,535.21	1,535.46	1,535.73	1,535.48
16	1,535.59	1,535.40	1,535.45	1,529.53	1,535.61	1,530.04	1,535.50	1,535.75	1,535.34	1,535.60	1,535.59	1,535.56
17	1,535.50	1,535.39	1,535.50	1,528.80	1,535.67	1,529.95	1,535.56	1,535.72	1,535.30	1,535.48	1,535.74	1,535.57
18	1,535.55	1,535.33	1,535.43	1,528.08	1,535.54	1,529.85	1,535.68	1,535.68	1,535.43	1,535.50	1,535.79	1,535.58
19	1,535.48	1,535.15	1,535.43	1,527.68	1,535.43	1,529.76	1,535.70	1,535.54	1,535.45	1,535.62	1,535.70	1,535.52
20	1,535.45	1,535.27	1,535.41	1,528.00	1,535.28	1,529.88	1,535.68	1,535.55	1,535.12	1,535.49	1,535.73	1,535.59
21	1,535.52	1,535.35	1,535.41	1,528.72	1,535.05	1,530.06	1,535.70	1,535.55	1,535.20	1,535.41	1,535.61	1,535.49
22	1,535.20	1,535.45	1,535.47	1,529.85	1,534.59	1,530.00	1,535.75	1,535.67	1,535.22	1,535.52	1,535.52	1,535.38
23	1,535.27	1,535.36	1,535.41	1,531.20	1,534.19	1,529.88	1,535.55	1,535.73	1,535.30	1,535.48	1,535.56	1,535.32
24	1,535.45	1,535.29	1,535.41	1,532.65	1,533.77	1,529.80	1,535.42	1,535.68	1,535.10	1,535.51	1,535.66	1,535.60
25	1,535.13	1,535.29	1,535.39	1,534.13	1,533.27	1,529.98	1,535.50	1,535.78	1,535.48	1,535.52	1,535.68	1,535.48
26	1,534.99	1,535.29	1,535.47	1,535.46	1,532.73	1,530.51	1,535.55	1,535.78	1,535.47	1,535.55	1,535.54	1,535.50
27	1,535.05	1,535.30	1,535.52	1,535.50	1,532.20	1,531.04	1,535.80	1,535.80	1,535.27	1,535.47	1,535.60	1,535.44
28	1,535.08	1,535.43	1,535.63	1,535.47	1,531.68	1,531.80	1,535.65	1,535.76	1,535.23	1,535.45	1,535.61	1,535.45
29	1,535.10	1,535.33	1,535.60	1,535.47	---	1,532.20	1,535.70	1,535.69	1,535.31	1,535.33	1,535.59	1,535.57
30	1,535.35	1,535.48	1,535.58	1,535.47	---	1,532.90	1,535.76	1,535.59	1,535.40	1,535.38	1,535.65	1,535.50
31	1,535.52	---	1,535.60	1,535.57	---	1,534.14	---	1,535.60	---	1,535.25	1,535.68	---
MAX	1,535.59	1,535.59	1,535.68	1,535.62	1,535.67	1,534.14	1,535.80	1,535.80	1,535.70	1,535.62	1,535.79	1,535.68
MIN	1,534.99	1,535.15	1,535.08	1,527.68	1,531.68	1,527.00	1,535.40	1,535.50	1,535.10	1,535.25	1,535.38	1,535.32
†	101,800	101,600	102,200	102,100	83,000	94,930	103,000	102,200	101,200	100,400	102,600	101,700
‡	+300	-200	+600	-100	-19,100	+11,930	+8,070	-800	-1,000	-800	+2,200	-900
CAL YR	2004	MAX 1,535.84	MIN 1,522.23	AC-FT‡	+7,270							
WTR YR	2005	MAX 1,535.80	MIN 1,527.00	AC-FT‡	+200							

† Contents, in acre-feet, on last day of month.
‡ Change in Contents, in acre-feet.

12433000 SPOKANE RIVER AT LONG LAKE, WA

LOCATION.--Lat 47°50'12", long 117°50'25", in NW¹/₄SW¹/₄ sec.13, T.27 N., R.39 E., Lincoln County, Hydrologic Unit 17010307, on left bank at Long Lake powerhouse, 1.4 mi upstream from Chamokane Creek, 12.0 mi north of Reardan, and at mile 33.9.

DRAINAGE AREA.--6,020 mi², approximately, of which about 122 mi² in the vicinity of Hayden Lake is noncontributing to this station.

PERIOD OF RECORD.--April 1939 to current year.

REVISED RECORDS.--WSP 1933: Drainage area. WDR WA-01-1: Calendar year adjusted mean discharge, runoff in inches, and acre-feet for 1998, and adjusted mean discharge, cubic feet per square mile, runoff in inches, and acre-feet for 1999 corrected.

GAGE.--Water-stage recorder. Datum of gage is 1,299.00 ft above NGVD of 1929 (levels by Avista Corporation). Oct. 1, 1978, to Sept. 30, 1981 and 2004, incorrectly published at datum 1,300 ft.

REMARKS.--Flow regulated by Coeur d'Alene Lake and Long Lake (station 12432500) for powerplants of Avista Corporation. About 25,000 acres irrigated upstream from station, largely from wells in the Spokane Valley. Chemical analyses October 1958 to September 1986, November 1999 to September 2003. Specific conductance records March 1973 to September 1981. Water temperature July 1959 to September 1962, October 1966 to September 1970, March 1973 to September 1981.

COOPERATION.--Discharge records furnished by Avista Corporation; four discharge measurements made by U.S. Geological Survey.

AVERAGE DISCHARGE.--66 years (water years 1940-2005), 7,671 ft³/s, 5,558,000 acre-ft/yr, adjusted for storage in Long Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,700 ft³/s, Jan. 19, 1974, gage height, 78.40 ft; maximum recorded gage height, 78.66 ft, May 24, 1948; minimum daily discharge, 90 ft³/s, Oct. 23, 1994 and Sept. 13, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,300 ft³/s, Dec. 18, gage height 68.4 ft; minimum discharge, 120 ft³/s, Nov. 27.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,100	4,300	5,460	7,220	10,600	6,410	5,120	7,700	5,780	3,050	823	1,740
2	2,440	3,880	6,030	6,780	11,000	6,390	8,550	7,990	6,450	2,370	789	1,450
3	2,670	3,940	5,360	6,720	10,400	6,390	10,500	7,990	6,140	3,140	1,490	825
4	3,820	3,920	5,840	6,740	10,000	6,400	11,900	7,700	6,480	2,830	1,240	1,300
5	3,250	4,220	5,760	6,690	9,470	6,440	13,100	7,180	6,480	2,940	1,320	1,130
6	3,700	3,890	5,790	6,670	9,720	6,340	13,600	6,870	6,440	2,080	1,090	1,180
7	3,240	3,440	5,540	6,670	9,060	5,810	13,300	6,880	6,420	2,340	1,620	1,330
8	3,470	4,040	6,840	6,600	8,490	4,500	13,500	6,880	5,340	2,000	1,300	1,010
9	3,150	4,120	5,420	6,630	8,590	3,800	13,700	8,180	4,920	1,940	1,340	1,190
10	3,140	4,110	6,770	6,640	8,330	3,420	14,200	9,700	4,120	2,350	671	850
11	3,590	4,090	6,850	6,610	7,550	3,150	13,800	10,900	3,530	1,350	1,090	1,230
12	3,770	4,320	8,240	6,580	7,950	1,630	14,300	10,900	3,270	2,060	1,220	1,500
13	3,580	3,800	10,900	6,550	7,500	3,210	13,400	9,740	4,520	2,090	1,110	1,310
14	3,710	3,850	11,700	6,500	7,260	3,990	13,200	8,530	3,700	2,180	958	1,460
15	3,160	4,610	13,200	6,500	6,800	3,670	12,000	8,820	3,270	1,900	1,040	1,160
16	2,880	4,860	14,100	6,500	6,510	3,690	11,100	8,890	3,270	1,550	1,600	2,020
17	3,920	4,840	13,800	6,470	6,510	4,290	9,680	9,070	4,040	2,120	953	2,000
18	3,480	5,000	14,100	6,450	6,510	4,270	8,000	10,300	4,120	1,750	1,040	2,140
19	3,740	5,000	13,200	6,490	6,510	4,100	8,300	10,400	4,270	2,680	1,460	2,390
20	3,740	4,430	12,700	6,620	6,510	3,920	8,590	10,200	4,590	2,300	1,040	1,910
21	3,460	4,460	12,200	6,620	6,510	3,530	8,230	9,870	3,180	1,300	1,510	2,420
22	4,300	4,580	11,600	6,660	6,510	4,020	8,710	9,470	3,670	1,020	1,440	2,490
23	3,630	4,880	11,200	6,860	6,510	4,300	10,400	8,950	3,480	1,910	1,040	2,370
24	3,160	5,060	10,300	6,670	6,510	4,160	10,400	9,060	3,770	1,630	902	1,650
25	4,390	4,880	10,100	6,730	6,500	3,580	9,920	7,900	2,410	1,800	1,150	2,310
26	4,010	4,780	9,320	7,110	6,470	2,820	9,960	7,610	3,040	1,490	1,640	2,320
27	3,620	4,800	8,850	11,100	6,470	3,130	8,310	6,530	3,800	1,790	974	2,300
28	3,510	4,580	8,030	11,300	6,490	3,380	9,570	6,480	2,940	1,460	1,280	2,240
29	3,600	5,100	8,540	10,800	---	4,880	8,140	6,420	2,800	1,610	1,180	1,880
30	3,070	5,470	7,840	10,700	---	5,070	7,620	6,420	2,640	1,280	982	2,780
31	3,080	---	7,220	10,200	---	5,090	---	6,150	---	1,730	1,030	---
TOTAL	107,380	133,250	282,800	227,380	217,240	135,780	321,100	259,680	128,880	62,040	36,322	51,885
MEAN	3,464	4,442	9,123	7,335	7,759	4,380	10,700	8,377	4,296	2,001	1,172	1,730
MAX	4,390	5,470	14,100	11,300	11,000	6,440	14,300	10,900	6,480	3,140	1,640	2,780
MIN	2,440	3,440	5,360	6,450	6,470	1,630	5,120	6,150	2,410	1,020	671	825
AC-FT	213,000	264,300	560,900	451,000	430,900	269,300	636,900	515,100	255,600	123,100	72,040	102,900
MEAN†	3,468	4,440	9,130	7,332	7,417	4,572	10,840	8,363	4,280	1,989	1,207	1,715
CFSM†	0.58	0.74	1.52	1.22	1.23	0.76	1.80	1.39	0.71	0.33	0.20	0.28
IN.†	0.66	0.82	1.75	1.40	1.28	0.88	2.01	1.60	0.79	0.38	0.23	0.32
AC-FT†	213,300	264,100	561,500	450,900	411,800	281,200	645,000	514,300	254,600	122,300	74,240	102,000

CAL YR 2004 TOTAL 2,196,073 MEAN 6,000 MAX 15,400 MIN 903 AC-FT 4,356,000 MEAN† 6,012 CFSM† 0.10 IN.† 13.59 AC-FT
WTR YR 2005 TOTAL 1,963,737 MEAN 5,380 MAX 14,300 MIN 671 AC-FT 3,895,000 MEAN† 5,379 CFSM† 0.89 IN.† 12.13 AC-FT

† Adjusted for change in contents in Long Lake.

12433200 CHAMOKANE CREEK BELOW FALLS, NEAR LONG LAKE, WA

LOCATION.--Lat 47°51'42", long 117°51'28", in SE¼SW¼ 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. Elevation of gage is 1,420 ft above NGVD of 1929, from topographic map.

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. U.S. Geological Survey satellite telemeter at site.

AVERAGE DISCHARGE.--25 years (water years 1972-78, 1988-2005), 62.2 ft³/s, 4.72 in/yr, 45,070 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, 401 ft³/s, Mar. 28, gage height, 2.90 ft; minimum discharge, 18 ft³/s, part of each day June 21-25, Aug. 1-10, 13-16, 21, and Sept. 6-9.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	25	24	24	28	26	92	26	24	e21	e19	21
2	26	30	24	23	27	26	89	26	23	e21	19	22
3	27	28	24	23	27	26	79	26	23	e20	19	22
4	27	27	24	23	27	26	75	27	22	e20	19	23
5	27	26	25	22	27	26	75	26	24	e20	20	23
6	27	26	25	23	26	26	63	26	23	20	20	19
7	27	26	25	24	26	26	58	26	22	20	19	19
8	27	26	34	24	26	26	54	26	22	19	20	19
9	27	25	30	24	26	26	50	27	21	25	19	19
10	27	25	31	24	26	27	46	30	21	24	20	20
11	27	25	30	24	27	26	44	27	21	22	22	20
12	26	25	27	e23	27	27	45	26	22	21	20	21
13	26	25	26	e23	26	27	44	26	21	20	20	21
14	26	25	26	e23	26	27	41	26	22	20	19	21
15	26	25	25	e22	26	26	38	28	21	19	19	20
16	26	26	25	e23	25	26	37	28	21	20	19	21
17	31	25	24	e24	25	26	39	26	21	e20	22	21
18	33	26	24	e25	25	26	40	26	21	e21	21	20
19	27	25	24	e25	25	26	36	27	21	e21	21	20
20	26	25	24	e26	25	27	33	27	20	e21	20	20
21	25	25	24	e26	25	26	32	26	19	e22	20	20
22	27	25	23	e26	25	26	30	27	19	24	21	21
23	25	25	23	26	25	26	29	26	19	23	21	21
24	25	29	24	26	25	26	29	26	19	23	21	22
25	25	26	23	25	25	25	28	25	e19	22	21	22
26	25	24	24	25	25	30	27	24	e22	22	21	22
27	25	24	24	26	25	50	26	25	e21	22	21	22
28	25	24	23	27	26	294	26	25	e23	e22	21	22
29	25	24	24	27	---	225	27	24	e22	e21	21	22
30	25	24	24	27	---	160	26	24	e22	e21	21	23
31	25	---	24	27	---	115	---	23	---	e20	21	---
TOTAL	819	766	781	760	724	1,528	1,358	808	641	657	627	629
MEAN	26.4	25.5	25.2	24.5	25.9	49.3	45.3	26.1	21.4	21.2	20.2	21.0
MAX	33	30	34	27	28	294	92	30	24	25	22	23
MIN	25	24	23	22	25	25	26	23	19	19	19	19
AC-FT	1,620	1,520	1,550	1,510	1,440	3,030	2,690	1,600	1,270	1,300	1,240	1,250
CFSM	0.15	0.14	0.14	0.14	0.14	0.28	0.25	0.15	0.12	0.12	0.11	0.12
IN.	0.17	0.16	0.16	0.16	0.15	0.32	0.28	0.17	0.13	0.14	0.13	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2005, BY WATER YEAR (WY)

MEAN	28.6	29.9	43.8	58.7	76.8	169	155	64.8	38.6	29.3	26.8	26.9
MAX	41.5	47.5	236	239	232	626	564	257	115	59.5	47.2	43.0
(WY)	(1998)	(1974)	(1974)	(1997)	(1995)	(1997)	(1975)	(1975)	(1997)	(1997)	(1997)	(1997)
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)

12433200 CHAMOKANE CREEK BELOW FALLS, NEAR LONG LAKE, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1971 - 2005	
ANNUAL TOTAL	12,019		10,098			
ANNUAL MEAN	32.8		27.7		62.2	
HIGHEST ANNUAL MEAN					170	1997
LOWEST ANNUAL MEAN					25.8	1994
HIGHEST DAILY MEAN	104	Mar 19	294	Mar 28	1,750	Mar 20, 1997
LOWEST DAILY MEAN	23	Jul 16	19	Jun 21	15	Dec 26, 1977
ANNUAL SEVEN-DAY MINIMUM	23	Dec 22	19	Aug 1	16	Jan 2, 1993
ANNUAL RUNOFF (AC-FT)	23,840		20,030		45,070	
ANNUAL RUNOFF (CFSM)	0.183		0.155		0.348	
ANNUAL RUNOFF (INCHES)	2.50		2.10		4.72	
10 PERCENT EXCEEDS	50		29		128	
50 PERCENT EXCEEDS	28		25		30	
90 PERCENT EXCEEDS	24		20		20	

e Estimated

12433542 BLUE CREEK ABOVE MIDNITE MINE DRAINAGE, NEAR WELLPINIT, WA

LOCATION.--Lat 47°55'28", long 118°05'18", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.13, T.28 N., R.37 E., Stevens County, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank, 2.4 mi downstream from Turtle Lake, and 5.4 mi northwest of Wellpinit.

DRAINAGE AREA.--6.0 mi².

PERIOD OF RECORD.--June 1984 to October 1998, January 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--19 years (water years 1985-98, 2001-05), 1.16 ft³/s, 2.63 in/yr, 841 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65 ft³/s, Mar. 22, 1997, gage height, 3.22 ft; minimum discharge, 0.01 ft³/s, Aug. 12, 13, 1992, gage height, 0.86 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.99 ft³/s, Mar. 27, gage height, 1.26 ft; minimum discharge, 0.02 ft³/s, Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.14	0.17	0.09	e0.07	e0.27	e0.27	0.52	0.56	0.40	0.17	0.11	0.08
2	0.14	0.20	0.09	e0.07	e0.27	0.22	0.52	0.56	0.38	0.17	0.12	0.08
3	0.14	0.20	0.12	e0.07	e0.27	0.25	0.52	0.57	0.36	0.16	0.11	0.07
4	0.15	0.15	0.12	e0.08	e0.28	0.26	0.55	0.56	0.35	0.16	0.11	0.08
5	0.15	0.15	0.12	e0.08	e0.27	0.29	0.52	0.56	0.33	0.15	0.11	0.08
6	0.16	0.15	0.12	e0.08	e0.26	0.30	0.51	0.58	0.30	0.15	0.11	0.07
7	0.16	0.15	0.12	e0.08	e0.25	0.24	0.52	0.56	0.30	0.15	0.11	0.08
8	0.16	0.15	0.16	e0.09	e0.25	0.23	0.52	0.56	0.29	0.15	0.11	0.07
9	0.16	0.14	0.22	e0.09	e0.23	0.23	0.50	0.59	0.29	0.21	0.10	0.08
10	0.16	0.15	0.26	e0.09	e0.22	0.23	0.48	0.64	0.28	0.19	0.10	0.08
11	0.18	0.14	0.19	e0.09	e0.21	0.23	0.53	0.55	0.28	0.17	0.10	0.07
12	0.18	0.13	0.11	e0.10	e0.20	0.23	0.52	0.53	0.27	0.15	0.11	0.09
13	0.19	0.12	0.11	e0.10	e0.19	0.22	0.52	0.52	0.26	0.14	0.11	0.09
14	0.18	0.12	0.12	e0.10	e0.19	0.23	0.52	0.53	0.29	0.14	0.10	0.07
15	0.19	0.12	0.11	e0.10	e0.19	0.22	0.53	0.58	0.26	0.14	0.11	0.07
16	0.19	0.13	0.09	e0.11	e0.19	0.22	0.62	0.49	0.26	0.16	0.10	0.07
17	0.26	0.12	0.09	e0.16	e0.19	0.23	0.61	0.44	0.26	0.16	0.11	0.07
18	0.25	0.14	0.09	e0.20	e0.20	0.22	0.61	0.44	0.25	0.14	0.12	0.07
19	0.19	0.13	0.09	e0.21	e0.20	0.23	0.61	0.44	0.24	0.14	0.11	0.08
20	0.19	0.12	0.08	e0.22	e0.21	0.28	0.61	0.45	0.24	0.13	0.10	0.08
21	0.19	0.11	0.07	e0.23	e0.22	0.25	0.61	0.44	0.24	0.14	0.10	0.08
22	0.22	0.11	0.07	e0.24	e0.23	0.24	0.66	0.44	0.23	0.14	0.10	0.09
23	0.20	0.11	0.07	e0.26	e0.24	0.24	0.63	0.43	0.24	0.14	0.10	0.09
24	0.19	0.15	0.07	e0.26	e0.25	0.21	0.61	0.42	0.23	0.13	0.10	0.10
25	0.19	0.11	0.07	e0.25	e0.25	0.21	0.61	0.41	0.19	0.12	0.09	0.10
26	0.18	0.11	0.07	e0.26	e0.26	0.31	0.60	0.39	0.16	0.13	0.09	0.09
27	0.17	0.11	0.07	e0.27	e0.27	0.76	0.59	0.39	0.19	0.12	0.09	0.08
28	0.17	0.11	0.07	e0.27	e0.28	0.57	0.57	0.38	0.24	0.12	0.08	0.08
29	0.17	0.09	e0.07	e0.26	---	0.56	0.57	0.36	0.19	0.12	0.08	0.09
30	0.17	0.09	e0.07	e0.26	---	0.53	0.57	0.36	0.18	0.12	0.09	0.10
31	0.17	---	e0.07	e0.26	---	0.52	---	0.36	---	0.12	0.09	---
TOTAL	5.54	3.98	3.27	5.01	6.54	9.23	16.86	15.09	7.98	4.53	3.17	2.43
MEAN	0.18	0.13	0.11	0.16	0.23	0.30	0.56	0.49	0.27	0.15	0.10	0.08
MAX	0.26	0.20	0.26	0.27	0.28	0.76	0.66	0.64	0.40	0.21	0.12	0.10
MIN	0.14	0.09	0.07	0.07	0.19	0.21	0.48	0.36	0.16	0.12	0.08	0.07
AC-FT	11	7.9	6.5	9.9	13	18	33	30	16	9.0	6.3	4.8
CFSM	0.03	0.02	0.02	0.03	0.04	0.05	0.09	0.08	0.04	0.02	0.02	0.01
IN.	0.03	0.02	0.02	0.03	0.04	0.06	0.10	0.09	0.05	0.03	0.02	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	0.16	0.20	0.21	0.70	1.63	5.11	3.75	1.38	0.73	0.35	0.19	0.14
MAX	0.25	0.37	0.47	5.61	12.4	25.7	14.1	3.40	1.85	0.76	0.36	0.24
(WY)	(1998)	(1985)	(1997)	(1997)	(1995)	(1997)	(1997)	(1996)	(1997)	(1997)	(1984)	(1984)
MIN	0.07	0.10	0.11	0.09	0.16	0.30	0.34	0.30	0.17	0.10	0.07	0.05
(WY)	(2002)	(2002)	(2005)	(2001)	(1990)	(2005)	(1990)	(1992)	(1992)	(1994)	(2001)	(2001)

12433542 BLUE CREEK ABOVE MIDNITE MINE DRAINAGE, NEAR WELLPINIT, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984 - 2005	
ANNUAL TOTAL	105.30		83.63			
ANNUAL MEAN	0.29		0.23		1.16	
HIGHEST ANNUAL MEAN					4.69 1997	
LOWEST ANNUAL MEAN					0.19 1994	
HIGHEST DAILY MEAN	0.87	Apr 4	0.76	Mar 27	60	Mar 21, 1997
LOWEST DAILY MEAN	0.07	Dec 21	0.07	Dec 21	0.04	Sep 16, 2001
ANNUAL SEVEN-DAY MINIMUM	0.07	Dec 21	0.07	Dec 21	0.04	Sep 16, 2001
ANNUAL RUNOFF (AC-FT)	209		166		841	
ANNUAL RUNOFF (CFSM)	0.048		0.038		0.193	
ANNUAL RUNOFF (INCHES)	0.65		0.52		2.63	
10 PERCENT EXCEEDS	0.71		0.52		2.8	
50 PERCENT EXCEEDS	0.19		0.18		0.25	
90 PERCENT EXCEEDS	0.11		0.08		0.12	

e Estimated

12433556 MIDNITE MINE DRAINAGE NEAR WELLPINIT, WA

LOCATION.--Lat 47°55'27", long 118°05'20", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.13, T.28 N., R.37 E., Stevens County, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank, 2.4 mi downstream from Turtle Lake, and 0.1 mi upstream from confluence with Blue Creek, and 5.4 mi northwest of Wellpinit.

DRAINAGE AREA.--1.3 mi².

PERIOD OF RECORD.--June 1984 to October 1998, January 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Three ponds upstream from gage exist for mine surface-water retention; June 1987, three diversions from the upstream channels were added to retain and treat contaminated water for mixing and later release. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--19 years (water years 1985-98, 2001-05), 0.37 ft³/s, 271 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5.9 ft³/s, Mar. 19, 1997, gage height, 1.78 ft; no flow during part of water years 1986 to 1992, 2001, 2004, and 2005.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.91 ft³/s, Apr. 29, gage height, 1.24 ft; no flow Aug. 22-24, 26-29, Sept 2.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.05	0.06	e0.13	e0.21	e0.12	0.18	0.21	0.48	0.47	0.03	0.01
2	0.04	0.07	0.06	e0.13	e0.21	e0.12	0.17	0.28	0.55	0.27	0.03	0.00
3	0.04	0.07	0.06	e0.13	e0.21	e0.12	0.17	0.57	0.56	0.10	0.02	0.01
4	0.04	0.06	0.07	e0.13	e0.20	e0.11	0.18	0.78	0.36	0.08	0.02	0.01
5	0.04	0.06	0.07	e0.13	e0.20	e0.11	0.15	0.81	0.17	0.17	0.02	0.01
6	0.04	0.08	0.06	e0.15	e0.20	e0.11	0.15	0.51	0.22	0.37	0.02	0.01
7	0.04	0.09	0.07	e0.16	e0.20	e0.11	0.16	0.24	0.42	0.50	0.02	0.01
8	0.05	0.09	0.10	e0.17	e0.20	e0.10	0.15	0.18	0.54	0.51	0.02	0.01
9	0.05	0.09	0.09	e0.18	e0.20	e0.10	0.16	0.31	0.62	0.37	0.01	0.01
10	0.05	0.08	0.13	e0.18	e0.19	e0.10	0.16	0.61	0.56	0.15	0.01	0.03
11	0.05	0.07	0.13	e0.18	e0.19	e0.09	0.18	0.74	0.33	0.19	0.01	0.06
12	0.05	0.07	0.10	e0.18	e0.19	e0.09	0.24	0.81	0.14	0.39	0.01	0.08
13	0.05	0.07	0.10	e0.18	e0.19	e0.09	0.53	0.70	0.20	0.55	0.01	0.04
14	0.03	0.07	0.10	e0.18	e0.18	e0.09	0.62	0.40	0.43	0.64	0.01	0.03
15	0.02	0.07	0.10	e0.19	e0.18	0.08	0.38	0.25	0.54	0.56	0.01	0.02
16	0.03	0.08	0.09	e0.20	e0.18	0.09	0.21	0.32	0.63	0.33	0.01	0.02
17	0.10	0.07	0.08	e0.23	e0.18	0.10	0.18	0.53	0.61	0.12	0.02	0.03
18	0.08	0.09	0.08	e0.23	e0.18	0.10	0.17	0.68	0.35	0.18	0.02	0.03
19	0.03	0.08	0.08	e0.23	e0.17	0.11	0.17	0.74	0.14	0.40	0.01	0.03
20	0.03	0.07	0.08	e0.23	e0.17	0.15	0.19	0.69	0.18	0.56	0.01	0.03
21	0.03	0.07	0.08	e0.23	e0.17	0.12	0.17	0.39	0.38	0.63	0.01	0.03
22	0.05	0.07	e0.09	e0.23	e0.16	0.11	0.17	0.19	0.55	0.59	0.00	0.03
23	0.04	0.07	e0.09	e0.22	e0.16	0.11	0.17	0.25	0.63	0.32	0.00	0.04
24	0.04	0.10	e0.09	e0.22	e0.15	0.11	0.17	0.47	0.56	0.10	0.00	0.04
25	0.05	0.07	e0.10	e0.22	e0.15	0.11	0.17	0.61	0.31	0.07	0.01	0.04
26	0.04	0.06	e0.10	e0.22	e0.15	0.17	0.47	0.69	0.11	0.06	0.00	0.04
27	0.04	0.06	e0.10	e0.23	e0.14	0.28	0.68	0.63	0.22	0.05	0.00	0.05
28	0.04	0.06	e0.10	e0.23	e0.14	0.19	0.78	0.37	0.46	0.04	0.00	0.07
29	0.04	0.06	e0.12	e0.22	---	0.19	0.78	0.16	0.60	0.04	0.00	0.08
30	0.05	0.06	e0.12	e0.22	---	0.19	0.44	0.12	0.56	0.03	0.01	0.11
31	0.05	---	e0.12	e0.22	---	0.18	---	0.23	---	0.03	0.01	---
TOTAL	1.37	2.16	2.82	5.98	5.05	3.85	8.50	14.47	12.41	8.87	0.36	1.01
MEAN	0.04	0.07	0.09	0.19	0.18	0.12	0.28	0.47	0.41	0.29	0.01	0.03
MAX	0.10	0.10	0.13	0.23	0.21	0.28	0.78	0.81	0.63	0.64	0.03	0.11
MIN	0.02	0.05	0.06	0.13	0.14	0.08	0.15	0.12	0.11	0.03	0.00	0.00
AC-FT	2.7	4.3	5.6	12	10	7.6	17	29	25	18	0.7	2.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	0.38	0.33	0.16	0.18	0.23	0.51	0.54	0.56	0.50	0.42	0.38	0.37
MAX	1.27	1.11	0.51	0.73	0.65	1.69	1.31	1.29	1.12	1.05	1.06	1.11
(WY)	(1997)	(1996)	(1996)	(1997)	(1997)	(1997)	(1995)	(1995)	(1996)	(1996)	(1996)	(1997)
MIN	0.04	0.07	0.06	0.08	0.09	0.08	0.10	0.06	0.05	0.03	0.01	0.02
(WY)	(2005)	(2005)	(2004)	(1989)	(1993)	(2004)	(1992)	(1992)	(1992)	(1988)	(1992)	(2001)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984 - 2005	
ANNUAL TOTAL	78.86		66.85			
ANNUAL MEAN	0.22		0.18		0.37	
HIGHEST ANNUAL MEAN					1.00 1997	
LOWEST ANNUAL MEAN					0.08 1992	
HIGHEST DAILY MEAN	1.0	Apr 15	0.81	May 5	5.3	Mar 20, 1997
LOWEST DAILY MEAN	0.02	Sep 7	0.00	Aug 22	0.00	Jun 22, 1986
ANNUAL SEVEN-DAY MINIMUM	0.03	Sep 4	0.00	Aug 22	0.00	Aug 8, 1990
ANNUAL RUNOFF (AC-FT)	156		133		271	
10 PERCENT EXCEEDS	0.64		0.53		1.0	
50 PERCENT EXCEEDS	0.10		0.12		0.17	
90 PERCENT EXCEEDS	0.04		0.02		0.05	

e Estimated

DIVERSION AT GRAND COULEE DAM

12435500 FEEDER CANAL AT GRAND COULEE, WA

LOCATION.--Lat 47°57'05", long 118°59'40", on line between secs.1 and 2, T.28 N., R.30 E., Grant County, Hydrologic Unit 17020001, on left bank at Grand Coulee, 0.2 mi downstream from headworks structure, and 0.5 mi southwest of Grand Coulee Dam.

PERIOD OF RECORD.--May 1952 to current year.

GAGE.--Daily discharge determined from flow through pumps or reverse flow through generators. Datum of gage is 1,500.00 ft above NGVD of 1929 (Bureau of Reclamation datum), adjustment of 1937. May 1, 1952, to Jan. 10, 1978, at datum 50.00 ft higher. Jan. 11, 1978, to Feb. 22, 1981, nonrecording gage at datum 1,500.00 ft lower. May 1, 1952, to Oct. 13, 1960, auxiliary gage 0.6 mi downstream from base gage at same datum.

REMARKS.--Since 1951, water has been pumped (lift about 280 ft) from Franklin D. Roosevelt Lake into the two-mile long Feeder Canal, which empties into Banks Lake. From Banks Lake, it is distributed through a system of canals to the Columbia Basin Project for irrigation. Between May 1951, and December 1974, six pumps were used. Since December 1974, six pump generators, which can also generate power during peak demand periods by returning water from Banks Lake, via the Feeder Canal, to Franklin D. Roosevelt Lake have been added; two in December 1974 and one each in April, June, and November 1983 and April 1984. Discharge is computed from relations between pump operation and head.

COOPERATION.--Discharge records furnished by Bureau of Reclamation; three discharge measurements made by U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 20,300 ft³/s, May 29, 2004; minimum daily discharge, -8,100 ft³/s, Jan. 5, 2004, reverse flow from Banks Lake.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 17,000 ft³/s June 25; minimum daily discharge, -2,710 ft³/s Jan. 15, reverse flow from Banks Lake.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,380	42	0.00	0.00	10	0.00	2,520	11,000	2,310	4,920	4,570	4,850
2	13,700	0.00	0.00	0.00	295	-913	9,500	9,180	3,710	16,600	4,660	4,890
3	15,900	25	0.00	0.00	361	0.00	9,500	5,970	3,040	16,600	5,270	14,600
4	0.00	0.00	0.00	-1,730	0.00	0.00	3,120	5,640	10,400	15,400	5,140	14,600
5	0.00	0.00	0.00	0.00	0.00	0.00	4,100	6,500	10,400	3,650	5,360	14,600
6	0.00	0.00	0.00	0.00	0.00	0.00	3,080	10,900	3,300	6,140	15,100	4,620
7	0.00	0.00	0.00	0.00	0.00	0.00	3,060	10,900	2,950	4,290	15,100	4,170
8	0.00	0.00	6.0	0.00	-183	0.00	3,810	10,900	3,070	4,190	4,280	4,290
9	0.00	0.00	0.00	0.00	0.00	0.00	12,200	6,460	3,060	11,500	4,260	4,250
10	0.00	0.00	1,300	0.00	0.00	0.00	12,200	6,520	4,690	12,100	4,750	12,800
11	0.00	0.00	16,700	0.00	0.00	0.00	6,150	6,540	12,500	4,610	4,320	12,800
12	0.00	287	16,700	0.00	0.00	0.00	6,600	6,640	12,600	4,440	4,280	3,970
13	0.00	0.00	6,110	0.00	0.00	0.00	2,140	3,620	4,850	3,390	13,200	3,080
14	0.00	0.00	38	0.00	0.00	54	2,100	10,900	6,710	4,450	12,900	3,020
15	0.00	0.00	1,770	-2,710	0.00	0.00	2,080	10,900	6,010	4,150	3,900	3,130
16	0.00	0.00	6,060	0.00	-138	0.00	11,900	3,350	6,210	13,200	4,130	2,310
17	0.00	0.00	2,370	0.00	-571	0.00	12,200	2,200	6,720	13,200	4,580	3,240
18	0.00	0.00	542	0.00	0.00	496	3,440	2,570	12,800	3,680	4,270	10,300
19	0.00	4.0	9,230	0.00	0.00	7,010	2,060	2,270	12,900	2,880	4,380	3,160
20	0.00	0.00	1,790	30	0.00	7,100	6,420	2,620	5,370	3,940	12,900	3,170
21	0.00	0.00	0.00	0.00	0.00	1,780	6,400	11,300	5,470	3,870	12,800	3,180
22	0.00	0.00	0.00	0.00	0.00	0.00	6,300	11,400	4,950	4,500	4,280	3,250
23	0.00	0.00	0.00	0.00	0.00	0.00	12,100	3,570	5,860	13,300	4,310	3,570
24	0.00	0.00	0.00	0.00	0.00	0.00	12,000	2,900	5,570	13,300	4,320	6,770
25	0.00	804	0.00	10	0.00	592	3,570	-2,130	17,000	7,220	4,380	7,190
26	0.00	3,530	0.00	0.00	0.00	6,730	2,670	2,580	16,600	4,330	3,610	4,170
27	0.00	0.00	0.00	84	0.00	6,700	6,570	4,100	5,510	3,360	9,290	3,450
28	0.00	0.00	0.00	0.00	0.00	2,070	6,620	11,200	5,420	4,560	9,340	3,320
29	0.00	0.00	0.00	0.00	---	1,190	9,380	13,400	4,970	4,240	3,370	3,200
30	0.00	0.00	19	0.00	---	2,300	11,000	13,400	5,680	15,100	3,790	3,670
31	0.00	---	0.00	0.00	---	2,270	---	3,930	---	13,600	3,980	---
TOTAL	32,980.00	4,692.00	62,635.00	-4,316.00	-226.00	37,379.00	194,790	211,230	210,630	240,710	200,820	173,620
MEAN	1,064	156	2,020	-139	-8.07	1,206	6,493	6,814	7,021	7,765	6,478	5,787
MAX	15,900	3,530	16,700	84	361	7,100	12,200	13,400	17,000	16,600	15,100	14,600
MIN	0.00	0.00	0.00	-2,710	-571	-913	2,060	-2,130	2,310	2,880	3,370	2,310
AC-FT	65,420	9,310	124,200	-8,560	-448	74,140	386,400	419,000	417,800	477,400	398,300	344,400
CAL YR	2004	TOTAL	1,421,613.20	MEAN	3,884	MAX	20,300	MIN	-8,100	AC-FT	2,820,000	
WTR YR	2005	TOTAL	1,364,944.00	MEAN	3,740	MAX	17,000	MIN	-2,710	AC-FT	2,707,000	

12436000 FRANKLIN D. ROOSEVELT LAKE AT GRAND COULEE DAM, WA

LOCATION.--Lat 47°57'20", long 118°59'02", near center of sec.1, T.28 N., R.30 E., Grant County, Hydrologic Unit 17020001, in block 12 of Grand Coulee Dam on Columbia River, and at mile 596.6.

DRAINAGE AREA.--74,700 mi², approximately.

PERIOD OF RECORD.--April 1938 to current year. Prior to October 1943, published as Columbia River Reservoir at Grand Coulee Dam.

REVISED RECORDS.--WSP 1286: 1942, 1945(M). WSP 1316: 1942 (May monthend contents). WSP 1933: Drainage area. WDR WA-73-1: 1965, 1967. WDR WA-75-1: 1974 monthend contents.

GAGE.--U.S. Geological Survey water-stage recorder. Datum of gage is NGVD of 1929, adjustment of 1937 (Bureau of Reclamation datum), or 1.425 ft above NGVD of 1929 (levels by Bureau of Reclamation). Prior to Apr. 24, 1942, nonrecording gage at site 2,000 ft upstream at same datum.

REMARKS.--Reservoir is formed by concrete dam; construction of dam began in 1934; completed in 1941; storage began early in construction period. Capacity, 5,022,000 acre-ft between elevations 1,208 ft. proposed lower limit of operation, and 1,288 ft, top of gates. Capacity increased to 5,185,000 acre-ft by use of 2-ft flashboards installed after high-water period each year beginning August 1961. Storage below 1,208 ft, 4,209,000 acre-ft. Figures given herein represent total contents. Water is used for power generation and irrigation. Flow is regulated by nine major reservoirs and numerous smaller reservoirs and powerplants. Diversion by Feeder Canal (station 12435500) for irrigation of about 600,000 acres in the United States plus additional diversions in Canada for irrigation of about 66,500 acres. Maximum and minimum midnight contents were published as EXTREMES FOR CURRENT YEAR for 1997 to 2001.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 9,586,000 acre-ft, July 17, 1942, June 3, 1945, elevation, 1,290.3 ft; maximum elevation, 1,290.36 ft, Aug. 6, 1976; minimum contents observed, 16,200 acre-ft, Aug. 29, 1938, elevation, 956.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 9,400,000 acre-ft, July 5, elevation 1,290.06 ft; minimum contents 6,667,000 acre-ft, Apr. 23, elevation 1,252.56.

CAPACITY TABLE

(Prepared by U.S. Geological Survey from data furnished by Bureau of Reclamation, dated Oct. 24, 1975)

Elevation (feet)	contents (acre-feet)	Elevation (feet)	Contents (acre-feet)
1,210.0	4,301,000	1,270.0	7,864,000
1,230.0	5,309,000	1,291.0	9,477,000
1,250.0	6,502,000		

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,286.63	1,287.12	1,286.11	1,287.77	1,288.34	1,274.65	1,255.37	1,255.79	1,268.42	1,287.40	1,284.61	1,278.65
2	1,286.36	1,287.24	1,286.17	1,288.00	1,288.34	1,273.67	1,254.94	1,255.15	1,269.25	1,287.40	1,284.96	1,278.92
3	1,286.51	1,287.34	1,285.67	1,287.58	1,287.43	1,272.33	1,254.63	1,254.25	1,270.07	1,288.74	1,285.13	1,279.20
4	1,286.57	1,287.22	1,285.87	1,286.86	1,286.84	1,271.92	1,253.61	1,253.86	1,271.58	1,289.70	1,284.75	1,279.78
5	1,286.43	1,287.33	1,286.60	1,286.03	1,286.86	1,271.71	1,253.04	1,253.99	1,273.71	1,289.66	1,284.52	1,280.31
6	1,285.97	1,287.74	1,286.36	1,285.56	1,286.93	1,272.08	1,253.66	1,253.33	1,274.78	1,289.49	1,284.65	1,280.00
7	1,286.16	1,288.58	1,286.26	1,285.07	1,285.95	1,270.88	1,254.31	1,253.43	1,275.50	1,289.28	1,284.47	1,279.74
8	1,286.13	1,288.50	1,286.74	1,284.96	1,284.99	1,270.10	1,254.17	1,253.80	1,276.20	1,289.06	1,284.24	1,279.79
9	1,286.63	1,288.18	1,287.25	1,284.73	1,284.17	1,269.02	1,254.66	1,253.21	1,277.52	1,289.17	1,283.85	1,280.58
10	1,287.42	1,287.92	1,287.77	1,284.28	1,283.69	1,268.17	1,255.36	1,253.03	1,278.67	1,289.61	1,283.71	1,281.36
11	1,287.11	1,287.54	1,287.57	1,283.38	1,282.90	1,267.12	1,255.13	1,253.10	1,280.48	1,289.36	1,283.54	1,282.00
12	1,286.99	1,287.19	1,287.76	1,282.53	1,282.31	1,267.09	1,254.19	1,253.27	1,282.55	1,289.17	1,283.31	1,282.14
13	1,286.93	1,287.06	1,288.59	1,282.26	1,282.70	1,267.40	1,254.22	1,253.26	1,283.05	1,288.90	1,283.58	1,282.23
14	1,286.64	1,288.00	1,289.01	1,282.08	1,281.77	1,266.51	1,254.27	1,253.46	1,283.44	1,288.43	1,284.04	1,282.31
15	1,286.89	1,287.69	1,288.92	1,280.90	1,280.67	1,265.31	1,254.33	1,255.07	1,283.87	1,287.85	1,283.46	1,282.05
16	1,287.30	1,287.25	1,288.42	1,281.07	1,279.58	1,263.85	1,254.28	1,255.97	1,283.94	1,287.52	1,282.98	1,282.24
17	1,287.67	1,286.99	1,288.47	1,280.41	1,278.77	1,263.05	1,254.74	1,257.84	1,284.64	1,287.98	1,282.44	1,283.29
18	1,287.25	1,286.51	1,288.77	1,280.73	1,278.17	1,262.51	1,254.67	1,259.27	1,285.94	1,287.60	1,281.75	1,283.79
19	1,286.61	1,286.02	1,288.99	1,281.29	1,278.03	1,262.05	1,254.72	1,260.27	1,287.59	1,287.32	1,281.24	1,283.37
20	1,286.08	1,285.29	1,288.70	1,281.85	1,278.56	1,261.83	1,254.02	1,261.37	1,287.82	1,287.28	1,280.97	1,283.17
21	1,286.00	1,285.51	1,288.16	1,282.53	1,277.78	1,260.72	1,253.09	1,262.86	1,287.76	1,287.59	1,280.84	1,283.54
22	1,286.26	1,284.97	1,287.58	1,283.51	1,277.35	1,259.57	1,252.89	1,264.74	1,288.08	1,287.52	1,280.62	1,283.77
23	1,286.54	1,284.69	1,287.39	1,284.66	1,276.89	1,258.63	1,252.96	1,265.68	1,288.29	1,287.54	1,280.68	1,284.23
24	1,286.92	1,284.72	1,287.04	1,284.73	1,276.36	1,257.92	1,253.32	1,266.36	1,288.08	1,288.00	1,280.45	1,284.80
25	1,286.38	1,285.98	1,287.53	1,284.98	1,275.98	1,257.69	1,253.22	1,266.34	1,288.14	1,287.92	1,280.05	1,285.07
26	1,286.08	1,286.77	1,288.00	1,285.34	1,276.08	1,257.83	1,253.05	1,265.90	1,288.61	1,287.56	1,279.60	1,284.73
27	1,285.90	1,286.68	1,287.96	1,285.73	1,276.43	1,258.05	1,253.78	1,265.74	1,288.52	1,287.05	1,279.58	1,285.21
28	1,285.52	1,286.72	1,287.48	1,286.25	1,275.32	1,257.64	1,254.52	1,266.24	1,288.10	1,286.29	1,279.78	1,285.02
29	1,285.50	1,286.07	1,287.38	1,286.86	---	1,257.44	1,254.84	1,267.78	1,287.76	1,285.57	1,279.49	1,285.00
30	1,286.38	1,285.78	1,287.17	1,287.84	---	1,256.65	1,255.55	1,268.22	1,287.49	1,284.59	1,278.79	1,285.30
31	1,287.35	---	1,287.08	1,288.11	---	1,255.99	---	1,267.70	---	1,284.34	1,278.11	---
MAX	1,287.67	1,288.58	1,289.01	1,288.11	1,288.34	1,274.65	1,255.55	1,268.22	1,288.61	1,289.70	1,285.13	1,285.30
MIN	1,285.50	1,284.69	1,285.67	1,280.41	1,275.32	1,255.99	1,252.89	1,253.03	1,268.42	1,284.34	1,278.11	1,278.65
†	9,179,000	9,053,000	9,157,000	9,240,000	8,253,000	6,892,000	6,863,000	7,700,000	9,190,000	8,939,000	8,461,000	9,015,000
‡	+48,000	-126,000	+104,000	+83,000	-987,000	-1,361,000	-29,000	+837,000	+1,490,000	-251,000	-478,000	+554,000
CAL YR	2004	MAX	1,289.40	MIN	1,258.51	AC-FT	+180,000					
WTR YR	2005	MAX	1,289.70	MIN	1,252.89	AC-FT	-116,000					

† Total Contents, in acre-feet, at end of month.

‡ Change in contents, in acre-feet.

12436500 COLUMBIA RIVER AT GRAND COULEE DAM, WA

LOCATION.--Lat 47°57'56", long 118°58'54", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.29 N., R.30 E., Douglas County, Hydrologic Unit 17020005, in pier 3 on west side of bridge on State Highway 155, 3,200 ft downstream from Grand Coulee Dam, 14.2 mi upstream from Nespelem River, and at mile 596.3.

DRAINAGE AREA.--74,700 mi², approximately.

PERIOD OF RECORD.--April 1913 to June 1923 (monthly discharge only), July to December 1923, January 1924 to May 1928 (monthly discharge only), June 1928 to current year. Published as "at Grand Coulee near Nespelem" prior to 1936 and as "at Grand Coulee" 1936-42.

REVISED RECORDS.--WSP 1286: 1942, 1947. WSP 1933: Drainage area.

GAGE.--Daily discharge determined from flow through turbines plus spillway flow when present. Datum of gage is NGVD of 1929, adjustment of 1937 (Bureau of Reclamation datum). June 27 to Dec. 31, 1923, June 12, 1928, to Mar. 31, 1931, nonrecording gage at site 0.5 mi upstream at datum 2.4 ft lower. Apr. 1, 1931, to Dec. 31, 1935, water-stage recorder 850 ft downstream at present datum. Jan. 1, 1936, to June 11, 1955, water-stage recorder at present site and datum. June 12, 1955, to July 18, 1988, water-stage recorder at present site and datum with auxiliary water-stage recorder 5.3 mi downstream at datum 1.42 ft lower.

REMARKS.--Flow is regulated by numerous reservoirs. Feeder Canal diversion (station 12435500) for Columbia Basin project is used to irrigate approximately 600,000 acres in the United States. An additional 66,500 acres in Canada are irrigated by other diversions.

COOPERATION.--Discharge records provided by Bureau of Reclamation at Grand Coulee Dam through the Corps of Engineers, Northwestern Division, Reservoir Control Center. The U.S. Geological Survey made three discharge measurements at this site during the year.

AVERAGE DISCHARGE.--92 years (water years 1914-2005), 108,200 ft³/s, 78,390,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 637,800 ft³/s, June 12, 1948, elevation, 987.90 ft; minimum discharge, 14,900 ft³/s, Dec. 17, 1956, elevation, 934.37 ft; minimum daily discharge, 15,300 ft³/s, Feb. 1, 1937.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1894 reached a discharge of 725,000 ft³/s, estimated.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 162,000 ft³/s, May 26; minimum daily discharge, 30,500 ft³/s, Nov. 25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75,800	106,000	104,000	70,800	82,600	110,000	92,000	94,000	102,000	137,000	103,000	65,900
2	77,100	87,600	111,000	91,200	99,500	113,000	76,100	114,000	105,000	126,000	96,200	68,700
3	53,800	92,000	124,000	125,000	131,000	118,000	75,200	125,000	121,000	70,900	108,000	53,200
4	79,700	99,700	102,000	142,000	109,000	95,800	108,000	108,000	86,000	77,000	124,000	41,300
5	87,600	89,500	84,400	136,000	78,000	79,600	89,300	86,200	60,700	132,000	124,000	44,700
6	95,200	64,100	126,000	116,000	87,500	54,000	56,400	115,000	113,000	149,000	98,000	89,600
7	69,900	53,800	123,000	126,000	130,000	108,000	51,800	94,500	123,000	147,000	98,800	99,800
8	70,200	85,700	96,500	96,000	130,000	95,800	76,700	87,200	127,000	143,000	115,000	73,100
9	62,700	99,400	100,000	103,000	117,000	97,900	51,600	136,000	119,000	121,000	121,000	56,000
10	43,800	98,600	81,100	116,000	112,000	93,800	42,100	121,000	127,000	114,000	105,000	36,500
11	88,500	101,000	86,300	129,000	120,000	96,000	93,400	120,000	85,700	151,000	109,000	46,600
12	84,100	104,000	88,700	122,000	100,000	70,300	105,000	120,000	71,200	143,000	117,000	64,700
13	78,600	82,900	85,600	105,000	72,400	48,400	81,500	121,000	134,000	149,000	79,000	70,100
14	86,800	45,600	105,000	110,000	125,000	104,000	75,000	110,000	135,000	155,000	68,800	73,300
15	65,600	94,300	130,000	142,000	129,000	104,000	70,600	78,000	133,000	153,000	126,000	80,400
16	59,900	105,000	137,000	92,500	132,000	116,000	59,000	125,000	143,000	137,000	117,000	69,600
17	59,900	97,700	128,000	117,000	119,000	109,000	46,900	94,100	117,000	106,000	118,000	40,600
18	99,600	100,000	115,000	82,900	108,000	90,200	75,200	109,000	90,500	148,000	125,000	38,400
19	101,000	112,000	108,000	76,900	78,500	86,900	83,000	114,000	79,100	141,000	111,000	93,200
20	96,700	109,000	140,000	74,500	45,300	64,800	97,100	111,000	149,000	136,000	103,000	90,300
21	83,900	70,800	136,000	70,300	106,000	109,000	103,000	88,200	156,000	124,000	85,300	69,300
22	66,900	108,000	134,000	58,500	88,800	110,000	84,000	74,300	140,000	123,000	111,000	76,300
23	62,200	99,400	112,000	53,100	94,500	103,000	79,400	117,000	148,000	113,000	95,600	66,800
24	65,900	80,100	120,000	91,100	96,600	95,000	63,100	120,000	159,000	92,100	98,400	48,700
25	101,000	30,500	85,400	95,500	85,000	69,400	100,000	152,000	139,000	130,000	114,000	57,900
26	94,200	57,800	80,500	85,100	71,800	62,000	107,000	162,000	110,000	131,000	115,000	91,800
27	80,100	88,700	113,000	90,100	58,000	42,400	80,200	140,000	149,000	152,000	88,200	65,700
28	94,400	87,900	124,000	90,800	108,000	93,300	82,900	103,000	160,000	139,000	77,700	83,900
29	74,000	128,000	112,000	78,500	---	76,200	98,000	72,400	147,000	148,000	105,000	83,700
30	52,500	112,000	110,000	71,200	---	105,000	65,100	96,100	148,000	142,000	105,000	67,500
31	52,600	---	103,000	90,300	---	102,000	---	145,000	---	114,000	116,000	---
TOTAL	2,364,200	2,691,100	3,405,500	3,048,300	2,814,500	2,822,800	2,368,600	3,453,000	3,677,200	4,044,000	3,278,000	2,007,600
MEAN	76,260	89,700	109,900	98,330	100,500	91,060	78,950	111,400	122,600	130,500	105,700	66,920
MAX	101,000	128,000	140,000	142,000	132,000	118,000	108,000	162,000	160,000	155,000	126,000	99,800
MIN	43,800	30,500	80,500	53,100	45,300	42,400	42,100	72,400	60,700	70,900	68,800	36,500
AC-FT	4,689,000	5,338,000	6,755,000	6,046,000	5,583,000	5,599,000	4,698,000	6,849,000	7,294,000	8,021,000	6,502,000	3,982,000
CAL YR	2004	TOTAL	32,892,300	MEAN	89,870	MAX	158,000	MIN	26,400	AC-FT	65,240,000	
WTR YR	2005	TOTAL	35,974,800	MEAN	98,560	MAX	162,000	MIN	30,500	AC-FT	71,360,000	

12438000 COLUMBIA RIVER AT BRIDGEPORT, WA

LOCATION.--Lat 48°00'24", long 119°39'51", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T.29 N., R.25 E., Douglas County, Hydrologic Unit 17020005, on left bank at Bridgeport, 1.0 mi downstream from Foster Creek, 1.6 mi downstream from Chief Joseph Dam, and at mile 543.9.

DRAINAGE AREA.--75,700 mi², approximately.

PERIOD OF RECORD.--April 1952 to current year.

REVISED RECORDS.--WSP 1933: Drainage area.

GAGE.--Daily discharge determined from flow through turbines plus spillway flow when present. Datum of gage is NGVD of 1929 (levels by Corps of Engineers). Apr. 4, 1952, to Aug. 4, 1988, water-stage recorder; May 26, 1967, to Aug. 4, 1988, auxiliary water-stage recorder 4,800 ft upstream from base gage at same datum.

REMARKS.--Flow regulated by numerous reservoirs. Feeder Canal diversion (station 12435500) for Columbia Basin project is used to irrigate approximately 600,000 acres in the United States. An additional 66,500 acres in Canada are irrigated by other diversions.

COOPERATION.--Discharge records provided by Corps of Engineers at Chief Joseph Dam through the Corps of Engineers, Northwestern Division, Reservoir Control Center. The U.S. Geological Survey made six discharge measurements at this site during the year.

AVERAGE DISCHARGE.--53 years (water years 1953-2005), 109,200 ft³/s, 79,120,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 495,800 ft³/s, June 11, 1961; maximum elevation, 792.20 ft, June 7, 1956; minimum observed discharge, 4,220 ft³/s, Mar. 22, 1966, elevation, 746.91 ft; minimum daily discharge, 22,300 ft³/s, Nov. 11, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 163,000 ft³/s, May 26; minimum daily discharge, 35,000 ft³/s, Nov. 25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87,900	102,000	103,000	74,300	83,500	110,000	95,600	84,500	105,000	144,000	106,000	73,100
2	69,300	88,200	108,000	89,600	100,000	115,000	79,300	122,000	111,000	124,000	94,000	65,000
3	55,500	91,500	129,000	130,000	125,000	118,000	75,300	128,000	118,000	75,300	104,000	55,300
4	81,200	100,000	107,000	134,000	113,000	102,000	107,000	109,000	86,400	74,600	122,000	41,700
5	85,600	87,400	83,800	137,000	79,100	77,800	93,200	93,400	67,300	125,000	126,000	54,500
6	96,600	66,600	126,000	115,000	89,300	61,100	62,500	120,000	112,000	145,000	104,000	85,500
7	77,800	54,400	122,000	130,000	130,000	102,000	60,100	91,100	117,000	150,000	95,900	91,100
8	75,100	86,400	95,600	96,700	127,000	95,700	65,700	93,500	129,000	146,000	119,000	78,700
9	58,000	98,500	103,000	103,000	117,000	97,800	57,200	135,000	123,000	121,000	116,000	58,500
10	45,700	98,500	81,200	117,000	117,000	104,000	40,000	127,000	128,000	110,000	107,000	36,300
11	83,800	95,000	88,600	124,000	120,000	92,400	89,800	116,000	90,100	151,000	112,000	46,900
12	84,300	106,000	85,300	124,000	99,100	71,200	104,000	126,000	68,400	141,000	110,000	67,200
13	82,400	83,000	83,800	109,000	69,300	48,100	87,900	128,000	138,000	150,000	82,000	66,700
14	84,900	48,900	102,000	105,000	124,000	103,000	73,600	112,000	130,000	155,000	74,600	68,400
15	71,000	94,100	130,000	143,000	128,000	104,000	73,200	80,100	132,000	150,000	118,000	78,200
16	60,800	105,000	138,000	89,400	131,000	119,000	62,000	122,000	141,000	142,000	116,000	72,100
17	58,900	101,000	132,000	120,000	126,000	106,000	47,900	102,000	125,000	113,000	124,000	39,700
18	100,000	101,000	115,000	88,000	108,000	91,200	75,000	112,000	91,800	141,000	121,000	42,600
19	99,800	111,000	104,000	73,200	77,800	89,400	82,600	117,000	76,800	134,000	115,000	87,500
20	99,200	106,000	139,000	76,000	52,500	68,100	97,400	110,000	148,000	134,000	102,000	87,100
21	84,300	77,000	140,000	74,000	101,000	115,000	104,000	88,600	152,000	137,000	85,400	71,500
22	70,000	107,000	135,000	55,700	95,600	110,000	87,500	89,300	145,000	119,000	116,000	80,200
23	60,800	98,800	108,000	52,500	96,300	104,000	85,000	106,000	156,000	111,000	87,500	70,100
24	62,000	81,100	123,000	92,700	95,500	99,700	63,000	121,000	156,000	95,900	104,000	51,600
25	105,000	35,000	88,700	95,500	82,900	69,100	101,000	144,000	139,000	128,000	113,000	58,600
26	93,900	57,600	82,800	87,200	73,300	66,200	106,000	163,000	119,000	135,000	119,000	85,300
27	79,900	82,800	108,000	87,500	56,900	39,600	87,100	155,000	146,000	137,000	86,900	67,800
28	92,900	92,900	122,000	94,500	110,000	89,100	86,700	101,000	151,000	147,000	73,700	81,500
29	77,300	126,000	116,000	78,800	---	81,400	98,800	74,900	154,000	143,000	101,000	83,600
30	51,600	115,000	109,000	69,700	---	103,000	72,000	102,000	150,000	143,000	108,000	73,400
31	54,500	---	101,000	93,400	---	102,000	---	138,000	---	122,000	118,000	---
TOTAL	2,390,000	2,697,700	3,409,800	3,059,700	2,828,100	2,854,900	2,420,400	3,511,400	3,705,800	4,043,800	3,281,000	2,019,700
MEAN	77,100	89,920	110,000	98,700	101,000	92,090	80,680	113,300	123,500	130,400	105,800	67,320
MAX	105,000	126,000	140,000	143,000	131,000	119,000	107,000	163,000	156,000	155,000	126,000	91,100
MIN	45,700	35,000	81,200	52,500	52,500	39,600	40,000	74,900	67,300	74,600	73,700	36,300
AC-FT	4,741,000	5,351,000	6,763,000	6,069,000	5,610,000	5,663,000	4,801,000	6,965,000	7,350,000	8,021,000	6,508,000	4,006,000
CAL YR	2004	TOTAL	33,230,400	MEAN	90,790	MAX	157,000	MIN	34,200	AC-FT	65,910,000	
WTR YR	2005	TOTAL	36,222,300	MEAN	99,240	MAX	163,000	MIN	35,000	AC-FT	71,850,000	