SPOKANE RIVER BASIN

12431000 LITTLE SPOKANE RIVER AT DARTFORD, WA

LOCATION.--Lat 47°47'05", long 117°24'12", in NE 1/4 NW 1/4 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 mi^2.

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). WSP1446: 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. 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.--58 years (water years 1930-32, 1948-2002), 304 ft^3/s, 6.21 in/yr, 220,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,110 ft^3/s Mar. 21, 1997, gage height, 8.27 ft; minimum discharge, 62 ft^3/s Aug. 8, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 940 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1230	946	4.66	Apr. 15	0800	*1,360	*5.43

Minimum discharge, 104 ft^3/s Aug. 11, 15, 16, 18, 19, gage height, 2.23 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	181	260	e211	364	486	662	579	348	187	125	114
2	108	167	279	e210	359	455	657	570	334	182	125	113
3	108	158	281	e212	345	439	653	556	321	176	124	112
4	109	154	271	e217	341	436	653	545	307	173	120	112
5	108	151	256	e220	327	428	663	538	293	168	121	113
6	110	151	247	247	324	441	689	547	278	166	121	115
7	110	151	238	357	342	412	710	528	267	167	124	116
8	113	150	230	689	400	392	738	523	266	169	120	115
9	115	149	227	912	406	390	751	499	278	175	119	115
10	116	148	225	823	382	395	793	473	276	167	118	114
11	121	148	220	680	362	466	830	448	269	165	116	113
12	124	148	217	611	332	723	848	429	255	158	115	113
13	128	147	237	597	324	701	879	417	243	153	114	112
14	127	161	393	563	316	603	1010	409	234	150	110	111
15	126	181	407	507	304	557	1270	398	223	144	107	113
16	126	182	337	475	302	542	1170	388	214	144	109	113
17	126	209	399	454	306	538	1150	382	212	142	111	119
18	127	213	392	423	306	515	1080	390	215	142	107	123
19	128	196	365	417	322	504	978	389	243	139	106	122
20	130	189	341	419	372	514	906	392	234	137	106	120
21	134	191	323	412	375	476	855	395	217	132	108	119
22	140	202	310	381	519	466	813	418	208	130	112	118
23	148	237	284	379	811	492	779	493	204	130	111	119
24	152	235	275	378	764	545	744	450	200	127	112	119
25	151	211	264	428	603	553	712	422	195	129	111	118
26	149	204	e210	521	545	574	687	405	190	129	110	119
27	147	199	e212	470	508	576	663	389	179	128	111	121
28	147	195	e233	396	514	588	637	394	179	128	113	121
29	146	210	e225	351	---	612	614	403	194	129	110	121
30	152	238	e220	362	---	633	593	386	198	128	113	125
31	179	---	e216	364	---	644	---	366	---	127	116	---
TOTAL	4013	5456	8594	13686	11475	16096	24187	13921	7274	4621	3545	3498
MEAN	129.5	181.9	277.2	441.5	409.8	519.2	806.2	449.1	242.5	149.1	114.4	116.6
MAX	179	238	407	912	811	723	1270	579	348	187	125	125
MIN	108	147	210	210	302	390	593	366	179	127	106	111
AC-FT	7960	10820	17050	27150	22760	31930	47970	27610	14430	9170	7030	6940
CFSM	0.19	0.27	0.42	0.66	0.62	0.78	1.21	0.68	0.36	0.22	0.17	0.18
IN.	0.22	0.31	0.48	0.77	0.64	0.90	1.35	0.78	0.41	0.26	0.20	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

MEAN	156.6	190.8	239.5	288.4	412.2	588.0	633.0	421.1	263.5	167.0	133.7	138.4
MAX	244	357	824	1204	1108	1629	1469	1176	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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	71968		116366			
ANNUAL MEAN	197.2		318.8		303.9	
HIGHEST ANNUAL MEAN					626	1997
LOWEST ANNUAL MEAN					128	1931
HIGHEST DAILY MEAN	407	Dec 15	1270	Apr 15	3710	Mar 21 1997
LOWEST DAILY MEAN	98	Aug 18	106	Aug 19	63	Jul 24 1930
ANNUAL SEVEN-DAY MINIMUM	99	Sep 9	108	Aug 15	65	Aug 13 1931
ANNUAL RUNOFF (AC-FT)	142700		230800		220200	
ANNUAL RUNOFF (CFSM)	0.30		0.48		0.46	
ANNUAL RUNOFF (INCHES)	4.03		6.51		6.21	
10 PERCENT EXCEEDS	311		640		612	
50 PERCENT EXCEEDS	200		235		204	
90 PERCENT EXCEEDS	103		114		122	

e Estimated