

SPOKANE RIVER BASIN

12431500 LITTLE SPOKANE RIVER NEAR DARTFORD, WA

LOCATION.--Lat 47°46'52", long 117°29'43", in NW 1/4 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.--No estimated daily discharges. Records good. No regulation. Many small diversions for irrigation and domestic use upstream from station.

AVERAGE DISCHARGE.--8 years (water years 1949-51, 1998-2002), 599 ft³/s, 11.66 in/yr, 434,000 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 March 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)
Apr. 15	1430	*1,520	*9.13	No other peak greater than base discharge.			

Minimum discharge, 333 ft³/s Oct. 2.

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	335	426	492	473	589	741	940	865	605	435	360	344
2	335	412	507	472	585	709	942	848	593	429	359	342
3	339	402	510	476	576	690	942	831	581	422	357	342
4	337	396	504	478	570	685	940	817	567	419	356	343
5	337	393	493	478	564	680	946	806	554	416	355	343
6	340	390	485	480	559	687	966	811	539	412	355	345
7	341	388	475	532	567	672	990	795	526	409	358	346
8	344	386	468	767	611	650	1020	785	522	414	354	345
9	346	386	463	1010	632	644	1040	764	531	419	352	345
10	349	385	461	1080	613	651	1070	733	532	412	349	344
11	354	384	456	964	598	692	1120	706	525	406	348	343
12	361	382	453	854	573	858	1150	684	512	401	346	343
13	363	383	468	818	560	1010	1180	669	500	396	345	342
14	361	391	562	794	558	918	1240	656	490	395	343	342
15	359	416	650	740	547	840	1440	646	478	388	340	343
16	359	419	577	696	545	813	1440	634	468	387	339	344
17	359	445	597	675	546	807	1420	628	462	385	343	350
18	359	454	627	649	549	789	1380	632	464	382	340	354
19	362	436	595	640	557	773	1320	632	488	378	339	354
20	365	427	576	636	600	780	1260	635	485	376	339	351
21	367	426	560	633	606	761	1210	637	469	372	339	349
22	374	437	546	610	678	732	1160	652	458	370	342	349
23	383	470	525	601	924	747	1110	715	453	370	342	349
24	387	477	508	596	1040	796	1080	699	449	366	343	349
25	388	455	503	619	929	816	1040	670	443	369	342	349
26	388	445	470	705	803	840	1010	654	437	367	341	351
27	386	438	471	696	758	846	977	639	428	366	343	353
28	386	436	497	628	756	856	946	635	425	365	344	353
29	383	448	484	582	---	875	915	650	440	365	341	353
30	392	472	477	580	---	908	886	635	446	362	343	355
31	418	---	477	586	---	918	---	620	---	362	345	---
TOTAL	11257	12605	15937	20548	17993	24184	33080	21783	14870	12115	10742	10415
MEAN	363.1	420.2	514.1	662.8	642.6	780.1	1103	702.7	495.7	390.8	346.5	347.2
MAX	418	477	650	1080	1040	1010	1440	865	605	435	360	355
MIN	335	382	453	472	545	644	886	620	425	362	339	342
AC-FT	22330	25000	31610	40760	35690	47970	65610	43210	29490	24030	21310	20660
CFSM	0.52	0.60	0.74	0.95	0.92	1.12	1.58	1.01	0.71	0.56	0.50	0.50
IN.	0.60	0.67	0.85	1.10	0.96	1.29	1.76	1.16	0.79	0.65	0.57	0.56

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

	1948	1949	1950	1951	1952	1997	1998	1999	2000	2001	2002	
MEAN	441.7	474.5	533.5	561.1	699.7	997.4	1028	800.0	586.6	446.0	395.2	393.0
MAX	525	555	622	707	912	1301	1211	1381	945	573	436	421
(WY)	1998	1998	1999	1999	1999	1999	2000	1948	1948	1948	1948	1999
MIN	363	420	435	433	443	513	532	491	399	342	323	327
(WY)	2002	2002	1950	1950	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1948 - 2002
ANNUAL TOTAL	155557	205529	
ANNUAL MEAN	426.2	563.1	599.0
HIGHEST ANNUAL MEAN			686
LOWEST ANNUAL MEAN			432
HIGHEST DAILY MEAN	650	1440	2130
LOWEST DAILY MEAN	318	335	318
ANNUAL SEVEN-DAY MINIMUM	319	338	319
ANNUAL RUNOFF (AC-FT)	308500	407700	434000
ANNUAL RUNOFF (CFSM)	0.61	0.81	0.86
ANNUAL RUNOFF (INCHES)	8.29	10.95	11.66
10 PERCENT EXCEEDS	534	918	1010
50 PERCENT EXCEEDS	437	478	488
90 PERCENT EXCEEDS	325	344	393