12431500 LITTLE SPOKANE RIVER NEAR DARTFORD, WA

Spokane Basin
Little Spokane Subbasin

LOCATION.--Lat 47°46′52″, long 117°29′43″ referenced to North American Datum of 1927, in NW ¼ sec.3, T.26 N., R.42 E., Spokane County, WA, Hydrologic Unit 17010308, on right bank on downstream side of county bridge, 4 mi west of Dartford, I.5 mi north of Spokane city limits, and at mile 3.9.

DRAINAGE AREA.--698 mi^2.

SURFACE-WATER RECORDS

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 FOR PERIOD OF RECORD.--12 years (water years 1949-51, 1998-2006), 566 ft^3/s, 11.01 in/yr, 409,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft^3/s, Apr. 15, 2000, gage height, 10.01 ft; minimum discharge, 315 ft^3/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 ft^3/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 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 12	0400	*2,020	*9.72
Jan 15	1930	1,940	9.62
Apr 15	2330	1,210	8.75

Minimum discharge, 359 ft^3/s, part of each day Dec. 7, Aug. 29, Sep 8-10.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	379	405	405	580	1,030	915	932	835	549	478	385	366
2	382	412	408	589	1,010	940	958	823	539	472	384	365
3	383	412	403	570	1,020	869	959	801	545	465	383	363
4	382	417	404	561	1,020	844	949	777	557	459	381	363
5	380	422	403	556	1,040	833	957	753	605	455	380	363
6	380	425	393	550	1,060	828	970	734	603	452	380	363
7	380	427	374	597	998	879	976	715	570	449	381	361
8	380	426	379	692	962	940	971	706	567	444	380	361
9	384	422	396	735	932	927	1,000	693	565	440	376	361
10	395	418	398	815	890	928	1,120	677	586	435	376	361
11	390	415	394	1,250	844	932	1,140	663	601	433	376	362
12	379	413	395	1,890	811	903	1,130	652	580	430	377	362
13	379	418	395	1,310	796	872	1,110	639	568	431	376	365
14	381	420	394	1,310	771	852	1,100	626	615	428	376	368
15	381	418	387	1,820	740	850	1,140	615	713	423	374	370
16	380	415	383	1,700	720	839	1,190	605	740	417	373	368
17	381	412	376	1,350	671	841	1,170	597	690	413	372	367
18	380	408	372	1,350	627	918	1,130	588	664	411	370	369
19	380	406	381	1,330	641	963	1,100	584	624	409	368	376
20	383	406	393	1,250	642	905	1,080	598	597	408	366	379
21	385	406	394	1,210	644	878	1,050	624	579	405	365	380
22	382	407	410	1,150	645	854	1,030	610	562	404	364	377
23	383	406	467	1,090	647	e842	995	599	550	402	363	375
24	383	405	505	1,050	645	e839	959	585	537	398	363	373
25	382	405	488	1,020	623	e837	926	573	527	396	364	373
26	384	411	471	979	616	e900	902	563	516	393	364	371
27	385	411	475	946	639	e980	878	576	506	391	363	370
28	386	407	504	921	760	e945	854	576	497	389	362	370
29	391	408	538	909	---	924	835	581	488	388	363	369
30	392	409	537	907	---	921	831	578	484	386	362	368
31	395	---	540	966	---	915	---	563	---	385	364	---
Total	11,887	12,392	13,162	31,953	22,444	27,613	30,342	20,109	17,324	13,089	11,531	11,039
Mean	383	413	425	1,031	802	891	1,011	649	577	422	372	368
Max	395	427	540	1,890	1,060	980	1,190	835	740	478	385	380
Min	379	405	372	550	616	828	831	563	484	385	362	361
Ac-ft	23,580	24,580	26,110	63,380	44,520	54,770	60,180	39,890	34,360	25,960	22,870	21,900
Cfsm	0.55	0.59	0.61	1.48	1.15	1.28	1.45	0.93	0.83	0.60	0.53	0.53
In.	0.63	0.66	0.70	1.70	1.20	1.47	1.62	1.07	0.92	0.70	0.61	0.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	422	456	507	581	676	905	937	719	547	425	382	382
Max	525	555	622	1,031	912	1,301	1,211	1,381	945	573	436	421
(WY)	(1998)	(1998)	(1999)	(2006)	(1999)	(1999)	(2000)	(1948)	(1948)	(1948)	(1948)	(1999)
Min	362	395	425	424	443	479	532	454	399	342	323	327
(WY)	(2003)	(2004)	(2006)	(2004)	(2001)	(2005)	(2001)	(2004)	(2001)	(2001)	(2001)	(2001)

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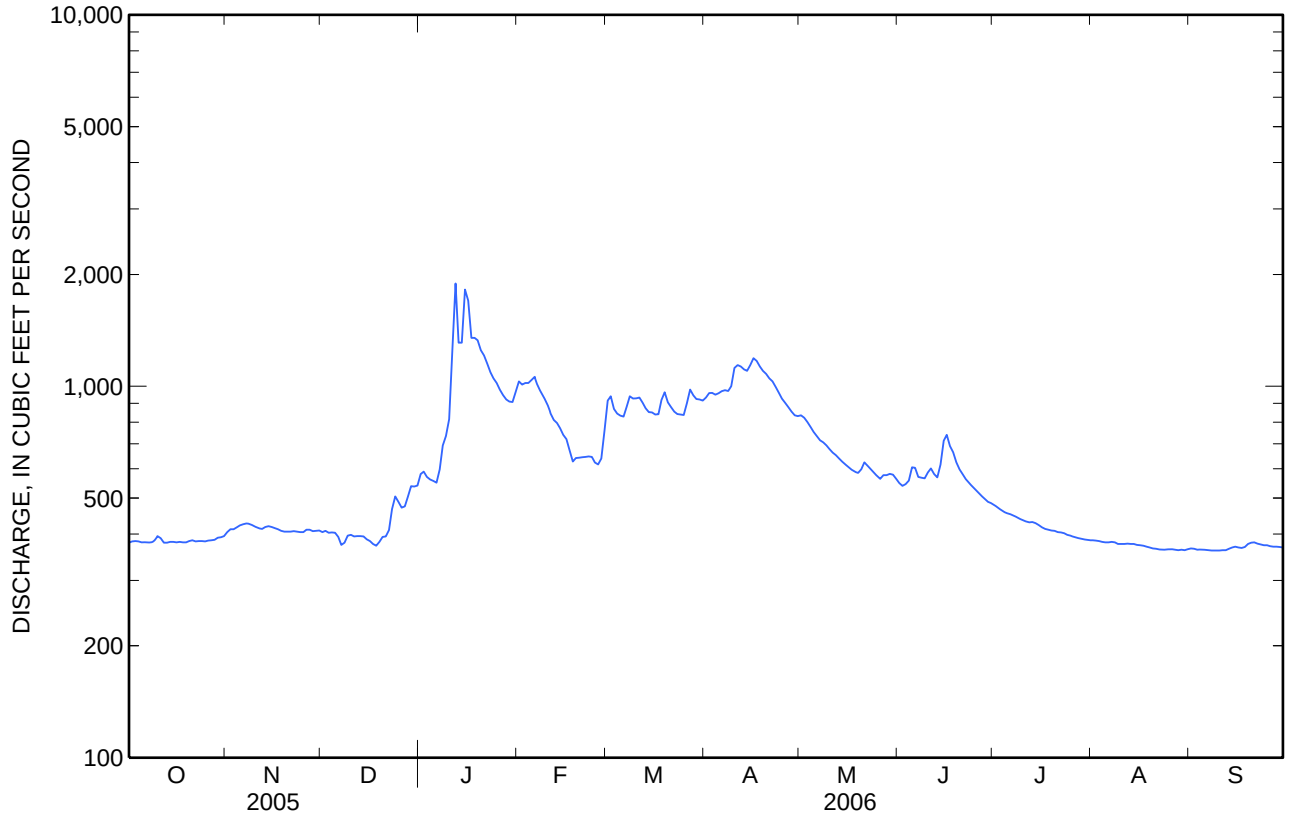
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1948 - 2006	
Annual total	157,401		222,885			
Annual mean	431		611		566	
Highest annual mean					686	1999
Lowest annual mean					432	2001
Highest daily mean	750	Mar 29	1,890	Jan 12	2,130	Mar 1, 1999
Lowest daily mean	348	Aug 27	361	Sep 7	318	Aug 17, 2001
Annual seven-day minimum	349	Aug 25	362	Sep 6	319	Aug 15, 2001
Annual runoff (ac-ft)	312,200		442,100		409,800	
Annual runoff (cfsm)	0.618		0.875		0.810	
Annual runoff (inches)	8.39		11.88		11.01	
10 percent exceeds	514		996		933	
50 percent exceeds	418		504		466	
90 percent exceeds	355		371		364