

Water-Data Report 2011

12421500 SPOKANE RIVER BELOW TRENT BRIDGE NEAR SPOKANE, WA

Spokane Basin
Upper Spokane Subbasin

LOCATION.--Lat 47°41'50", long 117°14'35" referenced to North American Datum of 1927, Spokane County, WA, Hydrologic Unit 17010305, On right bank half a mile downstream from Trent Bridge and 9 miles east of Spokane.

DRAINAGE AREA.--4200.00 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1948 to September 1954 (continuous-record); 2010 to current year (seasonal records).

GAGE.--Water-stage recorder. Datum of gage is 1,907.49 ft above mean sea level (levels by Bureau of Reclamation). Prior to Dec. 4, 1948, at site 20 ft upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow partly regulated by power plants of the Avista Corporation at Spokane, Washington and Post Falls, Idaho and by storage in Coeur d'Alene Lake, Idaho.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--6 years (1949-1954), 7,331 ft³/s, 5,311,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,100 ft³/s May 30 or 31, 1948, gage height, 18.50 ft (from high water mark on gage); minimum discharge, 578 ft³/s, Aug. 26, 2010, gage height, 4.16 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 41,800 ft³/s, May 31, 2008, from upstream site 12420500 Spokane River at Greenacres, Wash.

EXTREMES FOR CURRENT YEAR.--For period June to September, maximum discharge, 29,300 ft³/s, June 1, gage height, 15.58 ft, occurred on recession following May peak; minimum discharge, 1,010 ft³/s (measured), Sept. 5, gage height 4.66 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	28,800	13,500	2,600	1,050
2	---	---	---	---	---	---	---	---	28,000	12,200	2,530	1,030
3	---	---	---	---	---	---	---	---	27,400	10,200	2,430	1,030
4	---	---	---	---	---	---	---	---	26,900	10,200	2,370	1,030
5	---	---	---	---	---	---	---	---	26,500	10,700	2,240	1,020
6	---	---	---	---	---	---	---	---	26,200	11,400	2,180	1,100
7	---	---	---	---	---	---	---	---	26,100	11,400	2,170	1,280
8	---	---	---	---	---	---	---	---	26,300	10,900	2,030	1,290
9	---	---	---	---	---	---	---	---	26,600	10,300	1,900	1,290
10	---	---	---	---	---	---	---	---	26,400	9,010	1,800	1,290
11	---	---	---	---	---	---	---	---	25,900	8,070	1,760	1,280
12	---	---	---	---	---	---	---	---	25,200	8,040	1,620	1,280
13	---	---	---	---	---	---	---	---	24,700	7,770	1,450	1,280
14	---	---	---	---	---	---	---	---	24,200	7,760	1,430	1,290
15	---	---	---	---	---	---	---	---	23,800	7,540	1,410	1,280
16	---	---	---	---	---	---	---	---	23,500	6,480	1,390	1,290
17	---	---	---	---	---	---	---	---	22,900	5,840	1,370	1,290
18	---	---	---	---	---	---	---	---	22,200	5,060	1,380	1,300
19	---	---	---	---	---	---	---	---	21,500	5,010	1,370	1,300
20	---	---	---	---	---	---	---	---	20,900	4,970	1,280	1,330
21	---	---	---	---	---	---	---	---	20,300	4,930	1,190	1,460
22	---	---	---	---	---	---	---	---	e19,800	4,700	1,140	1,470
23	---	---	---	---	---	---	---	---	e19,600	4,550	1,100	1,470
24	---	---	---	---	---	---	---	---	e19,500	4,290	1,100	1,470
25	---	---	---	---	---	---	---	---	e19,400	3,840	1,090	1,470
26	---	---	---	---	---	---	---	---	e19,000	3,620	1,080	1,480
27	---	---	---	---	---	---	---	---	e18,500	3,370	1,080	1,500
28	---	---	---	---	---	---	---	---	e17,600	2,920	1,080	1,490
29	---	---	---	---	---	---	---	---	16,100	2,890	1,060	1,490
30	---	---	---	---	---	---	---	---	15,100	2,840	1,050	1,490
31	---	---	---	---	---	---	---	---	---	2,640	1,050	---
Total	---	---	---	---	---	---	---	---	688,900	216,940	48,730	39,120
Mean	---	---	---	---	---	---	---	---	22,960	6,998	1,572	1,304
Max	---	---	---	---	---	---	---	---	28,800	13,500	2,600	1,500
Min	---	---	---	---	---	---	---	---	15,100	2,640	1,050	1,020
Ac-ft	---	---	---	---	---	---	---	---	1,366,000	430,300	96,660	77,590
Cfsm	---	---	---	---	---	---	---	---	5.47	1.67	0.37	0.31
In.	---	---	---	---	---	---	---	---	6.10	1.92	0.43	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,125	2,974	4,665	5,631	7,757	8,872	16,020	23,500	14,670	3,383	1,262	1,186
Max	3,109	4,748	9,478	8,372	15,820	16,880	19,860	29,640	23,000	7,009	2,048	1,593
(WY)	(1952)	(1951)	(1951)	(1948)	(1951)	(1950)	(1950)	(1948)	(1950)	(1950)	(1948)	(1952)
Min	1,256	1,922	2,094	3,072	3,387	4,313	8,836	16,860	6,387	1,643	780	676
(WY)	(1950)	(1953)	(1953)	(1949)	(1949)	(1952)	(1953)	(1951)	(1951)	(1949)	(1951)	(1949)

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SUMMARY STATISTICS

Water Years 1948 - 2011		
Annual mean	7,331	
Highest annual mean	9,399	1950
Lowest annual mean	6,100	1953
Highest daily mean	40,000	May 30, 1948
Lowest daily mean	594	Sep 3, 2010
Annual seven-day minimum	608	Aug 29, 2010
Annual runoff (ac-ft)	5,311,000	
Annual runoff (cfsm)	1.75	
Annual runoff (inches)	23.72	
10 percent exceeds	19,200	
50 percent exceeds	3,890	
90 percent exceeds	972	

