



Water-Data Report 2011

12427000 LITTLE SPOKANE RIVER AT ELK, WA

Spokane Basin
Little Spokane Subbasin

LOCATION.--Lat 48°01'20", long 117°16'19" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.8, T.29 N., R.44 E., Spokane County, WA, Hydrologic Unit 17010308, 0.6 mi upstream from and northeast of Elk, 3.0 mi upstream from Dry Creek, and at mile 37.6.

DRAINAGE AREA.--115 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1948 to September 1971 at site located approximately 150 ft downstream, records equivalent. June 2008 to current year.

GAGE.--Water stage recorder. Elevation of gage is 1840 ft above NGVD of 1929, from topographic map. Prior to September 30, 1971, at site 150 ft downstream at datum then in use.

REMARKS.--Records good except estimated daily discharges which are fair. No regulation, some diversions for irrigation upstream. U. S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--26 years (1949-1971, 2009-2011) 55.6 ft³/s, 6.57 in/yr, 40,280 acre-ft /yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 152 ft³/s Feb. 13, 1961, gage height 1.89 ft, datum then in use; maximum gage height, 3.08 ft Feb. 1, 1956 due to backwater from ice, datum then in use; minimum discharge, 12 ft³/s Dec. 7, 2009, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 110 ft³/s, Apr. 26, gage height, 12.46 ft; minimum daily discharge, 34 ft³/s, Nov. 24.

12427000 LITTLE SPOKANE RIVER AT ELK, WA—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011			Water Years 1948 - 2011	
Annual total	15,460		21,409			
Annual mean	42.4		58.7		55.6	
Highest annual mean					70.0	1961
Lowest annual mean					42.0	2010
Highest daily mean	55	Dec 15	106	Apr 26	148	Feb 13, 1961
Lowest daily mean	33	Aug 21	34	Nov 24	26	Dec 17, 1964
Annual seven-day minimum	34	Aug 18	38	Oct 15	33	Dec 16, 1964
Annual runoff (ac-ft)	30,660		42,460		40,280	
Annual runoff (cfs_m)	0.368		0.510		0.484	
Annual runoff (inches)	5.00		6.93		6.57	
10 percent exceeds	47		89		78	
50 percent exceeds	43		51		50	
90 percent exceeds	36		40		40	

