

12200500 SKAGIT RIVER NEAR MOUNT VERNON, WA

Puget Sound Basin
Lower Skagit Subbasin

LOCATION.--Lat 48°26'42", long 122°20'03" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.7, T.34 N., R.4 E., Skagit County, WA, Hydrologic Unit 17110007, on right bank 220 ft downstream of bridge on U.S. Highway 99, 1.5 mi north of Skagit Valley Junior College in Mount Vernon, and at mile 15.7.

DRAINAGE AREA.--3,093 mi², of which 400 mi² is in Canada.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only October 1940, published in WSP 1316.

REVISED RECORDS.--WSP 1932: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Supplementary water-stage recorder in bridge pier 0.2 mi downstream from base gage from Dec. 3, 1957, to Oct. 15, 1964. Water-stage recorder located on downstream pier of the Highway 99 bridge from Oct. 15, 1964, to Jan. 6, 1993.

REMARKS.--Records fair except for estimated daily discharges and discharges above 50,000 cfs, which are poor. Flow regulated by Ross Reservoir (station 12175000), Diablo Reservoir (station 12176500), Gorge Reservoir (station 12177700), Baker Lake (station 12191600), and Lake Shannon (station 12193000). Small diversions for domestic and municipal use. Chemical analyses July 1959 to September 1971, October 1973 to September 1994. Prior to November 1962, published as "at Lawrence." Specific conductance February 1974 to November 1981. Water temperature July 1962 to August 1970, February 1974 to November 1981. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--73 years (water years 1941-2013), 16,570 ft³/s, 12,010,000 acre-ft, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 152,000 ft³/s, Nov. 25, 1990, elevation, 37.37 ft, from floodmarks; minimum discharge, 2,740 ft³/s, Oct. 26, 1942, elevation, 7.37 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1906 reached a stage of 37 ft, from Great Northern Railway high-water profile, discharge 180,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 31	1615	*52,000	*25.53
May 14	1030	51,800	25.51

Minimum discharge, 6,220 ft³/s, Oct. 9, gage height, 11.14 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,810	40,200	27,300	12,300	16,600	16,400	14,900	18,600	21,400	31,500	11,700	10,800
2	6,880	32,300	28,200	13,200	15,900	22,300	15,900	17,400	19,800	31,900	10,300	9,740
3	7,030	30,700	e28,000	13,300	16,100	19,700	16,500	17,800	21,300	31,600	11,600	9,860
4	6,850	38,700	e27,200	13,200	15,200	16,300	22,500	19,200	20,900	27,500	10,700	11,000
5	6,750	40,300	27,600	13,000	15,200	13,800	29,600	22,100	24,200	23,500	11,600	10,900
6	6,910	34,400	23,400	13,100	16,000	12,300	39,000	26,200	27,000	21,200	11,300	14,700
7	6,780	31,600	21,800	14,700	15,400	11,500	37,400	28,600	28,000	22,300	11,400	17,500
8	6,620	29,900	22,000	17,500	15,700	10,900	31,200	29,100	26,400	22,700	10,900	16,100
9	6,600	26,200	19,600	27,700	14,200	10,500	23,400	30,500	24,700	22,600	11,200	14,600
10	6,630	24,800	17,500	28,500	12,800	10,100	22,800	34,000	24,000	22,700	11,400	13,100
11	6,610	23,700	14,500	22,700	13,900	9,770	28,500	35,000	22,300	21,900	11,000	12,900
12	6,580	23,000	14,000	20,800	12,800	10,400	26,200	36,800	21,100	20,400	12,900	12,700
13	6,690	24,500	15,000	18,300	12,800	22,400	24,300	45,400	19,100	16,800	11,800	12,700
14	9,220	26,000	14,800	16,900	11,600	24,700	22,700	46,800	17,700	15,700	11,600	12,000
15	24,700	20,100	15,100	16,000	12,600	25,200	20,300	32,500	19,300	15,200	11,700	10,400
16	24,500	17,400	14,300	15,700	11,800	24,300	18,000	26,800	19,900	15,600	12,400	9,630
17	21,600	17,200	15,300	14,900	13,200	23,900	17,200	25,300	25,200	16,100	11,900	10,200
18	15,800	18,100	15,800	15,100	13,700	19,600	16,600	24,500	26,200	15,000	11,900	9,880
19	21,600	24,000	14,100	14,300	12,300	16,600	17,200	23,300	24,000	14,100	10,800	10,300
20	30,800	38,100	14,100	13,800	13,000	16,300	17,800	23,100	24,800	13,800	10,400	10,000
21	22,100	31,000	14,000	15,200	12,000	19,400	16,900	22,700	31,500	13,300	10,400	9,830
22	17,600	27,300	13,500	14,800	12,500	16,400	19,700	25,300	26,100	11,400	10,000	9,980
23	15,600	25,700	12,700	13,000	13,100	14,600	17,900	23,700	24,800	11,100	9,360	15,400
24	13,500	35,900	12,800	13,400	11,800	13,300	16,900	21,900	26,000	11,400	7,910	21,000
25	12,600	28,300	13,000	13,900	12,400	12,500	16,200	20,200	27,700	11,300	7,990	17,100
26	12,000	23,600	12,900	13,300	12,800	11,900	16,800	19,400	26,700	11,700	8,170	14,800
27	13,100	20,700	12,500	13,900	13,500	11,400	17,300	18,900	26,500	13,300	8,680	14,100
28	20,200	18,900	11,900	13,900	12,600	11,900	18,700	21,400	26,700	12,800	8,610	15,600
29	26,900	18,600	11,500	13,200	---	12,200	20,900	23,000	27,800	12,000	10,100	41,100
30	35,800	20,100	11,200	14,100	---	12,400	19,900	23,800	30,600	12,100	16,900	43,200
31	---	---	12,000	15,300	---	13,100	---	24,600	---	11,300	12,600	---
Total	---	811,300	527,600	489,000	381,500	486,070	643,200	807,900	731,700	553,800	339,220	441,120
Mean	---	27,040	17,020	15,770	13,620	15,680	21,440	26,060	24,390	17,860	10,940	14,700
Max	---	40,300	28,200	28,500	16,600	25,200	39,000	46,800	31,500	31,900	16,900	43,200
Min	---	17,200	11,200	12,300	11,600	9,770	14,900	17,400	17,700	11,100	7,910	9,630
Ac-ft	---	1,609,000	1,046,000	969,900	756,700	964,100	1,276,000	1,602,000	1,451,000	1,098,000	672,800	875,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	12,280	18,670	18,350	17,980	16,420	14,270	15,010	20,340	24,510	20,240	11,690	9,394
Max	27,970	52,550	37,930	28,630	31,140	29,940	23,360	36,530	43,460	37,650	21,890	17,540
(WY)	(2004)	(1991)	(1976)	(2006)	(1951)	(2007)	(1943)	(1946)	(1972)	(1972)	(1999)	(1959)
Min	4,323	6,592	8,358	7,636	7,626	6,856	8,857	12,460	11,720	9,310	6,441	5,023
(WY)	(1943)	(1944)	(2001)	(1942)	(1942)	(1942)	(1973)	(1970)	(2005)	(1977)	(1941)	(1942)

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SUMMARY STATISTICS

Water Years 1941 - 2013		
Annual mean	16,570	
Highest annual mean	23,140	1991
Lowest annual mean	10,500	2001
Highest daily mean	142,000	Nov 25, 1990
Lowest daily mean	3,050	Oct 26, 1942
Annual seven-day minimum	3,530	Oct 22, 1942
Annual runoff (ac-ft)	12,010,000	
10 percent exceeds	27,300	
50 percent exceeds	14,500	
90 percent exceeds	7,870	

