SNOHOMISH RIVER BASIN

JUN

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12147600 SOUTH FORK TOLT RIVER NEAR INDEX, WA

LOCATION.--Lat $47^{\circ}42^{\circ}25^{\circ}$, long $121^{\circ}35^{\circ}56^{\circ}$, in NE $^{1}/_{4}$ SW $^{1}/_{4}$ sec.25, T.26 N., R.9 E., King County, Hydrologic Unit 17110010, on left bank 0.6 mi upstream from Phelps Creek, 8.1 mi south of Index, and at mile 12.9.

DRAINAGE AREA. -- 5.34 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- December 1959 to December 1963, November 1967 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,850 ft above sea level, from topographic map. Prior to Oct. 1, 1961, at datum 0.85 ft higher. Oct. 1, 1961 to Sept. 30, 1992, at datum 1.00 ft higher.

REMARKS.--Records fair except for those above 300 ${\rm ft}^3/{\rm s}$ and below 15 ${\rm ft}^3/{\rm s}$, and estimated daily discharges, which are poor. No regulation or diversion upstream from station. A portion of flow is within the gravel streambed and is unmeasurable. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--35 years (water years 1961-63, 1969-2000), 55.0 ft³/s, 139.91 in/yr, 39,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,340 ft 3 /s Jan. 14, 1999; gage height 4.11 ft; maximum gage height, 8.13 ft, present datum, Dec. 14, 1959; minimum discharge, 2.2 ft 3 /s Oct. 9, 10, 1989, Sept. 9, 10, 1997, Sept. 14-17, 1998.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 DAILY MEAN VALUES

MAR

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MAY

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date		Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 08	0730	(a)1,000	3.73	Dec.	15	1445	(a)*1,500	*4.54
Oct. 28	2015	687	3.35	Dec.	18	0245	717	3.38
Nov. 12	0215	857	3.51	June	12	1215	737	3.40
Nov. 24	2115	954	3.59	Sept.	30	0445	869	3.52
Dec. 12	0115	562	3.21	-				

FEB

Minimum discharge, 3.0 ft³/s Oct. 4-5.

NOV

DEC

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(a) estimate.

DAY

5.8 3.5 35 78 76 74 8.9 5.5 5.3 5.0 3.1 8.4 4.7 3.3 6.8 44 7.5 6.9 e680 6.9 6.4 5.6 5.3 e1000 4 8 4.8 4.8 9.4 9.8 9.3 8.5 1.8 9.0 5.9 8.5 5.3 17 39 37 5 0 9 2 4.9 8.4 7.9 5.4 5.7 7.4 4.8 7.0 4.8 ___ 6.4 TOTAL 1864.5 205.3 1168.1 MEAN 60 1 25.9 37.1 35.0 70 84.5 88.3 91.4 21 6 6.62 38.9 MAX MIN

1,11,77,7	000	313	1000	100	107	, 0	123	100	433	50		500
MIN	3.1	30	32	11	13	15	40	48	40	11	4.8	4.7
AC-FT	3700	6800	8110	1590	2140	2150	5030	5430	5440	1330	407	2320
CFSM	11.3	21.4	24.7	4.86	6.95	6.55	15.8	16.5	17.1	4.05	1.24	7.29
IN.	12.99	23.89	28.48	5.60	7.50	7.56	17.67	19.07	19.09	4.67	1.43	8.14
STATIST	ICS OF N	MONTHLY MEA	AN DATA F	OR WATER	YEARS 1960	- 2000,	BY WATER	YEAR (WY)			
MEAN	43.7	80.5	76.2	72.3	63.1	46.5	63.5	80.1	68.0	32.0	13.9	25.1
MAX	107	181	165	154	150	93.4	116	140	160	81.3	37.4	56.9
(WY)	1986	1991	1976	1990	1982	1972	1988	1972	1974	1974	1975	1969
MIN	6.24	14.0	20.0	19.8	9.41	18.6	28.6	26.0	13.1	13.3	3.89	3.56
(WY)	1988	1980	1986	1981	1969	1962	1975	1992	1992	1961	1998	1998

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12147600 SOUTH FORK TOLT RIVER NEAR INDEX, WA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1960 - 2000
ANNUAL TOTAL	24652.4	22407.9	
ANNUAL MEAN	67.5	61.2	55.0
HIGHEST ANNUAL MEAN			77.8 1972
LOWEST ANNUAL MEAN			37.7 1979
HIGHEST DAILY MEAN	1000 Dec 15	1000 Dec 15	1160 Nov 23 1986
LOWEST DAILY MEAN	3.1 Oct 4	3.1 Oct 4	2.2 Sep 9 1997
ANNUAL SEVEN-DAY MINIMUM	3.4 Sep 30	5.1 Aug 23	2.2 Sep 11 1998
ANNUAL RUNOFF (AC-FT)	48900	44450	39840
ANNUAL RUNOFF (CFSM)	12.6	11.5	10.3
ANNUAL RUNOFF (INCHES)	171.74	156.10	139.91
10 PERCENT EXCEEDS	142	113	116
50 PERCENT EXCEEDS	41	38	34
90 PERCENT EXCEEDS	10	7.5	8.0

e Estimated