12148300 SOUTH FORK TOLT RIVER BELOW REGULATING BASIN, NEAR CARNATION, WA

LOCATION.--Lat 47°41'49", long 121°47'10", in SW $^1/_4$ NE $^1/_4$ sec.33, T.26 N., R.8 E., King County, Hydrologic Unit 17110010, on right bank 2.3 mi upstream from mouth and 6.5 mi northeast of Carnation.

DRAINAGE AREA.--29.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1982 to current year. Published as "South Fork Tolt River below regulating pond, near Carnation" March 1982 through September 1983.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 670 ft above sea level, from topographic map.

REMARKS.--Records good, except estimated daily discharges, which are fair. Flow regulated by South Fork Tolt Reservoir 6.1 mi upstream. During the current water year the Seattle Water Department diverted an average daily discharge of 63 ft^3/s. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--19 years (water years 1983-2001), 147 ft^3/s, 106,300 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, Nov. 24, 1990; maximum daily discharge, 3,700 ft^3/s Nov. 24, 1990; minimum discharge, 36 ft^3/s on many days during July and August, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 208 ft^3/s Mar. 31, gage height, 4.02 ft; minimum discharge, 67 ft^3/s Aug. 14, Sept. 20, 22-25, 28-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	80	97	97	90	82	159	116	81	78	72	72
2	92	78	97	93	93	82	137	113	85	77	71	71
3	84	78	93	92	89	80	122	105	90	76	71	71
4	80	88	90	98	106	79	110	100	82	76	71	71
5	77	84	87	114	109	78	108	104	81	75	70	71
6	74	e82	85	103	101	78	112	98	81	75	70	70
7	73	e80	83	97	95	77	107	94	79	74	70	70
8	72	e84	82	94	91	79	107	92	78	74	69	70
9	74	e86	84	89	88	80	103	90	81	73	70	70
10	75	e85	82	81	85	79	116	88	80	73	70	69
11	74	e83	80	75	82	79	115	87	107	74	70	69
12	72	e81	78	74	80	80	109	87	135	74	69	69
13	74	e80	77	75	79	81	110	86	118	73	69	69
14	78	e79	77	75	78	82	104	102	106	73	69	69
15	74	e78	77	73	82	86	99	134	99	74	69	68
16	80	e77	82	71	80	87	96	129	94	79	69	68
17	83	76	85	70	79	84	104	112	90	76	69	68
18	90	75	81	71	79	101	105	104	87	74	71	68
19	83	75	79	75	78	149	99	99	84	73	70	68
20	131	74	78	73	76	113	95	95	82	73	70	68
21	119	74	77	85	76	103	92	92	80	72	71	68
22	102	73	79	84	77	96	94	89	79	72	78	68
23	95	75	82	79	76	91	98	87	78	71	82	67
24	90	79	94	77	76	88	95	85	79	71	77	67
25	86	78	88	75	74	99	95	83	79	71	74	67
26	81	96	86	73	73	100	96	82	77	70	72	73
27	80	149	93	71	74	96	94	82	83	70	72	70
28	86	110	89	70	79	119	96	84	88	81	71	68
29	82	104	86	72	---	108	98	81	80	76	71	67
30	80	104	103	74	---	128	127	80	79	74	71	67
31	80	---	100	100	---	167	---	79	---	73	71	---
TOTAL	2643	2545	2651	2550	2345	2931	3202	2959	2622	2295	2209	2071
MEAN	85.3	84.8	85.5	82.3	83.8	94.5	107	95.5	87.4	74.0	71.3	69.0
MAX	131	149	103	114	109	167	159	134	135	81	82	73
MIN	72	73	77	70	73	77	92	79	77	70	69	67
AC-FT	5240	5050	5260	5060	4650	5810	6350	5870	5200	4550	4380	4110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001, BY WATER YEAR (WY)

MEAN	85.1	216	224	267	175	146	143	164	126	79.9	61.9	67.6
MAX	147	597	598	579	389	283	380	307	241	187	77.6	112
(WY)	1986	1991	2000	1984	1996	1997	1989	1984	1990	1997	1993	1983
MIN	41.2	43.5	70.2	66.3	83.8	73.2	73.1	68.0	53.7	41.9	38.5	42.4
(WY)	1988	1988	1988	1988	2001	1992	1992	1992	1992	1982	1982	1987

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001	
ANNUAL TOTAL	43752		31023			
ANNUAL MEAN	120		85.0		147	
HIGHEST ANNUAL MEAN					225	1997
LOWEST ANNUAL MEAN					84.7	1994
HIGHEST DAILY MEAN	594	May 11	167	Mar 31	3700	Nov 24 1990
LOWEST DAILY MEAN	63	Aug 13	67	Sep 23	36	Jul 27 1982
ANNUAL SEVEN-DAY MINIMUM	64	Aug 8	68	Sep 19	36	Aug 6 1982
ANNUAL RUNOFF (AC-FT)	86780		61530		106300	
10 PERCENT EXCEEDS	244		105		322	
50 PERCENT EXCEEDS	91		80		88	
90 PERCENT EXCEEDS	68		70		62	

e Estimated