

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 mi².

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 NGVD of 1929, 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 89 ft³/s. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--20 years (water years 1983-2002), 148 ft³/s, 107,500 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, Nov. 24, 1990; maximum daily discharge, 3,700 ft³/s Nov. 24, 1990; minimum discharge, 36 ft³/s on many days during July and August, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 586 ft³/s Nov. 14, gage height, 5.18 ft; minimum discharge, 65 ft³/s Oct. 5,

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	104	162	260	283	348	302	272	242	272	74	73
2	67	112	161	262	275	341	243	274	236	236	74	77
3	67	105	145	212	279	335	225	278	231	231	73	76
4	66	107	137	198	e275	388	124	273	229	229	73	72
5	66	113	129	196	246	414	122	271	254	192	73	68
6	67	100	133	203	127	301	123	274	266	154	74	68
7	68	93	131	286	e148	299	139	269	269	151	73	68
8	69	88	134	340	e142	305	126	263	266	131	73	68
9	69	86	145	293	133	304	129	261	257	81	73	68
10	70	83	135	266	132	278	159	261	252	78	74	68
11	79	81	129	253	137	325	173	259	248	77	74	68
12	76	81	127	263	127	322	199	257	246	76	73	70
13	83	88	278	267	121	319	241	168	248	75	73	69
14	88	375	288	315	116	317	285	126	247	75	73	69
15	82	265	217	469	112	321	224	117	243	74	72	70
16	81	205	286	464	110	315	213	110	240	73	72	72
17	81	162	304	457	110	306	191	118	237	73	72	71
18	79	139	354	414	120	303	171	114	245	74	72	70
19	155	133	313	386	122	313	158	111	207	74	72	70
20	129	130	298	385	130	322	149	115	167	73	72	70
21	112	128	434	374	177	311	142	117	167	72	72	70
22	108	157	443	369	271	310	141	125	167	72	72	69
23	100	273	429	364	229	307	142	123	167	71	73	69
24	116	190	393	361	194	306	173	116	148	71	74	69
25	162	157	282	369	164	307	286	113	82	71	73	69
26	136	140	277	331	241	305	282	112	82	71	73	68
27	137	126	271	304	287	306	279	115	83	72	73	69
28	121	125	276	286	322	324	274	167	125	72	73	68
29	111	152	267	275	---	319	272	252	285	72	74	75
30	108	149	262	276	---	323	270	272	334	73	74	74
31	112	---	263	288	---	311	---	255	---	73	74	---
TOTAL	2932	4247	7603	9786	5130	9905	5957	5958	6470	3289	2264	2105
MEAN	94.6	142	245	316	183	320	199	192	216	106	73.0	70.2
MAX	162	375	443	469	322	414	302	278	334	272	74	77
MIN	66	81	127	196	110	278	122	110	82	71	72	68
AC-FT	5820	8420	15080	19410	10180	19650	11820	11820	12830	6520	4490	4180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

MEAN	85.5	212	225	270	176	155	146	166	131	81.2	62.4	67.7
MAX	147	597	598	579	389	320	380	307	241	187	77.6	112
(WY)	1986	1991	2000	1984	1996	2002	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 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1982 - 2002
ANNUAL TOTAL	37966	65646	
ANNUAL MEAN	104	180	
HIGHEST ANNUAL MEAN			148
LOWEST ANNUAL MEAN			225
HIGHEST DAILY MEAN	443	Dec 22	469
LOWEST DAILY MEAN	66	Oct 4	66
ANNUAL SEVEN-DAY MINIMUM	67	Sep 29	67
ANNUAL RUNOFF (AC-FT)	75310		130200
10 PERCENT EXCEEDS	147		315
50 PERCENT EXCEEDS	82		142
90 PERCENT EXCEEDS	70		71

e Estimated