



Water-Data Report 2006

12147900 SOUTH FORK TOLT RESERVOIR NEAR CARNATION, WA

Puget Sound Basin
Snoqualmie Subbasin

LOCATION.--Lat 47°41'38", long 121°41'16" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.32, T.26 N., R.9 E., King County, WA, Hydrologic Unit 17110010, on top and near the center of the dam, 11.4 mi northeast of Carnation, and at mile 8.4.

DRAINAGE AREA.--18.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1991 to current year.

REVISED RECORDS.--WA-98-1: 1997.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (Seattle Water Department benchmark).

COOPERATION.--Capacity table furnished by Seattle Water Department.

REMARKS.--Reservoir is formed by earthfill dam, with a concrete glory hole spillway, completed in 1962. Water used for municipal water supply by Seattle Water Department.

Usable capacity, 15,600 acre-ft between elevations 1,749 ft (minimum pool) and 1,765 ft (maximum normal pool).

Top of dam is at 1,775 ft with top of spillway at 1,757 ft. Flood control between elevations 1,749 and 1,757 ft. U.S. Geological Survey satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 59,500 acre-ft, July 9, 1997, elevation, 1,766.53 ft; minimum contents observed, 16,280 acre-ft, Oct. 12, 2003, elevation, 1,711.77 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 56,220 acre-ft, June 18, elevation, 1,763.32 ft; minimum contents, 30,610, Sept. 30, elevation, 1,735.01 ft.

CAPACITY TABLE

Elevation (feet)	Contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Elevation (feet)	Contents (acre-feet)
1,690	8,100	1,730	26,800	1,760	52,900
1,700	11,300	1,740	34,400	1,765	57,900
1,710	15,400	1,750	43,200	1,780	73,600
1,720	20,400				

12147900 SOUTH FORK TOLT RESERVOIR NEAR CARNATION, WA—Continued

ELEVATION ABOVE NGVD 1929, FEET
 WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
 DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,737.98	1,739.84	1,746.94	1,753.68	1,761.73	1,756.16	1,753.97	1,757.26	1,761.01	1,761.33	1,752.52	1,742.11
2	1,738.02	1,740.36	1,746.90	1,753.86	1,761.94	1,756.11	1,754.00	1,757.23	1,761.44	1,761.14	1,752.17	1,741.74
3	1,737.97	1,740.81	1,746.82	1,754.00	1,762.05	1,756.03	1,754.00	1,757.23	1,761.64	1,760.86	1,751.86	1,741.42
4	1,737.84	1,741.20	1,746.77	1,754.13	1,762.12	1,755.96	1,754.07	1,757.20	1,762.02	1,760.65	1,751.48	1,741.03
5	1,737.66	1,741.66	1,746.65	1,754.42	1,762.09	1,755.96	1,754.07	1,757.19	1,762.30	1,760.41	1,751.12	1,740.69
6	1,737.59	1,742.13	1,746.55	1,755.22	1,761.85	1,755.88	1,754.08	1,757.29	1,762.42	1,760.20	1,750.76	1,740.28
7	1,737.96	1,742.39	1,746.38	1,756.27	1,761.51	1,755.89	1,754.07	1,757.45	1,762.44	1,759.95	1,750.41	1,739.87
8	1,738.00	1,742.54	1,746.22	1,756.73	1,760.89	1,755.93	1,754.27	1,757.59	1,762.43	1,759.70	1,750.05	1,739.52
9	1,737.94	1,742.58	1,746.10	1,758.04	1,760.29	1,755.94	1,754.70	1,757.58	1,762.53	1,759.42	1,749.75	1,739.17
10	1,737.85	1,743.27	1,746.00	1,759.95	1,759.51	1,755.95	1,754.83	1,757.56	1,762.54	1,759.13	1,749.47	1,738.83
11	1,737.79	1,743.93	1,745.87	1,760.78	1,758.76	1,755.87	1,754.90	1,757.56	1,762.50	1,758.87	1,749.18	1,738.45
12	1,737.69	1,744.20	1,745.84	1,761.15	1,758.04	1,755.75	1,755.10	1,757.47	1,762.57	1,758.71	1,748.86	1,738.05
13	1,737.55	1,745.44	1,745.76	1,761.89	1,757.43	1,755.67	1,755.32	1,757.46	1,762.65	1,758.52	1,748.54	1,737.66
14	1,737.47	1,746.11	1,745.66	1,762.26	1,757.06	1,755.54	1,756.04	1,757.38	1,762.73	1,758.30	1,748.20	1,737.58
15	1,737.38	1,746.37	1,745.57	1,762.23	1,756.74	1,755.48	1,756.38	1,757.50	1,762.95	1,758.01	1,747.78	1,737.31
16	1,737.21	1,746.43	1,745.52	1,762.34	1,756.62	1,755.28	1,756.51	1,757.80	1,763.11	1,757.73	1,747.46	1,737.05
17	1,737.51	1,746.50	1,745.44	1,762.62	1,756.44	1,755.15	1,756.57	1,758.08	1,763.26	1,757.43	1,747.09	1,736.74
18	1,737.53	1,746.58	1,745.24	1,762.50	1,756.36	1,755.03	1,756.60	1,758.29	1,763.27	1,757.14	1,746.77	1,736.56
19	1,737.87	1,746.72	1,745.13	1,762.32	1,756.23	1,754.90	1,756.57	1,758.44	1,763.25	1,756.85	1,746.44	1,736.59
20	1,738.26	1,746.91	1,745.15	1,762.35	1,756.13	1,754.76	1,756.59	1,758.56	1,763.17	1,756.53	1,746.10	1,736.59
21	1,738.31	1,746.96	1,745.54	1,762.23	1,756.00	1,754.62	1,756.66	1,758.59	1,763.12	1,756.16	1,745.75	1,737.19
22	1,738.24	1,747.03	1,746.22	1,762.06	1,756.04	1,754.52	1,756.71	1,758.69	1,762.99	1,755.80	1,745.35	1,737.13
23	1,738.17	1,747.05	1,747.12	1,761.91	1,756.18	1,754.41	1,756.72	1,758.77	1,762.81	1,755.49	1,745.06	1,736.98
24	1,738.01	1,747.05	1,749.25	1,761.80	1,756.12	1,754.38	1,756.74	1,758.86	1,762.69	1,755.11	1,744.74	1,736.76
25	1,737.94	1,747.24	1,750.16	1,761.56	1,756.05	1,754.34	1,756.78	1,758.90	1,762.60	1,754.75	1,744.39	1,736.50
26	1,737.85	1,747.21	1,750.81	1,761.03	1,755.98	1,754.30	1,756.76	1,759.13	1,762.44	1,754.38	1,744.01	1,736.23
27	1,737.75	1,747.19	1,751.33	1,760.53	1,755.98	1,754.23	1,756.85	1,759.43	1,762.20	1,754.04	1,743.65	1,735.96
28	1,737.70	1,747.18	1,751.82	1,760.24	1,756.07	1,754.14	1,757.00	1,760.12	1,762.06	1,753.72	1,743.27	1,735.64
29	1,737.96	1,747.13	1,752.20	1,760.15	---	1,754.05	1,757.20	1,760.65	1,761.81	1,753.37	1,742.92	1,735.31
30	1,738.05	1,747.07	1,752.49	1,761.32	---	1,754.00	1,757.31	1,760.78	1,761.56	1,753.10	1,742.74	1,735.01
31	1,738.75	---	1,753.22	1,761.62	---	1,753.92	---	1,760.83	---	1,752.83	1,742.46	---
Mean	1,737.87	1,744.90	1,747.44	1,759.72	1,758.29	1,755.17	1,755.71	1,758.29	1,762.48	1,757.41	1,747.43	1,738.00
Max	1,738.75	1,747.24	1,753.22	1,762.62	1,762.12	1,756.16	1,757.31	1,760.83	1,763.27	1,761.33	1,752.52	1,742.11
Min	1,737.21	1,739.84	1,745.13	1,753.68	1,755.98	1,753.92	1,753.97	1,757.19	1,761.01	1,752.83	1,742.46	1,735.01
Contents, in arce-feet, at 2400, on last day of month	33,450	40,620	46,320	55,520	49,090	47,000	50,290	53,730	54,460	45,940	36,560	30,610
Change in contents, in acre-feet	+640	+7,170	+5,700	+9,200	-6,430	-2,090	+3,290	+3,440	+730	-8,520	-9,380	-5,950

	Calendar Year 2005	Water Year 2006
Mean	1,752.09	1,751.86
Max	1,761.94	1,763.27
Min	1,735.49	1,735.01
Change in contents, in acre-feet	-1,690	-2,200