

SNOHOMISH RIVER BASIN

12147900 SOUTH FORK TOLT RESERVOIR NEAR CARNATION, WA

LOCATION.--Lat 47°41'38", long 121°47'10", in NW 1/4 SW 1/4 sec.32, T.26 N., R.9 E., King County, 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.

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).

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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 59,500 acre-ft July 9, 1997, elevation, 1,766.53 ft; minimum contents, 25,980 acre-ft Nov. 4, 1991, elevation, 1,728.72ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 58,410 acre-ft June 29, elevation, 1,765.49 ft; minimum contents, 33,520 acre-ft Oct. 10, elevation, 1,738.84.

Capacity table (elevation, in feet, and usable contents, in acre-ft)

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				

RESERVOIR ELEVATION SURFACE WATER (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1740.95	1746.46	1755.19	1757.10	1755.41	1759.07	1749.98	1758.87	1763.41	1765.17	1759.59	1750.36
2	1740.69	1746.90	1755.37	1756.83	1755.09	1758.61	1749.79	1758.92	1763.44	1764.99	1759.33	1750.19
3	1740.44	1746.99	1755.35	1756.68	1754.75	1758.17	1749.55	1758.95	1763.47	1764.76	1759.07	1749.98
4	1740.20	1747.08	1755.36	1756.49	1754.35	1757.62	1749.50	1758.83	1763.54	1764.53	1758.85	1749.70
5	1739.90	1747.20	1755.29	1756.34	1754.03	1757.10	1749.59	1758.70	1764.08	1764.25	1758.58	1749.42
6	1739.64	1747.18	1755.37	1756.35	1754.02	1756.74	1749.99	1758.48	1764.31	1764.10	1758.35	1749.07
7	1739.36	1747.25	1755.33	1758.80	1754.04	1756.33	1750.54	1758.23	1764.28	1763.95	1758.11	1748.75
8	1739.15	1747.31	1755.44	1760.50	1754.08	1755.93	1750.67	1757.94	1764.28	1763.98	1757.84	1748.51
9	1738.96	1747.37	1755.46	1760.93	1754.03	1755.44	1751.07	1757.60	1764.13	1763.95	1757.58	1748.24
10	1738.96	1747.42	1755.39	1760.91	1754.00	1755.07	1752.00	1757.27	1764.03	1763.93	1757.33	1747.89
11	1739.46	1747.44	1755.30	1760.82	1753.94	1755.58	1752.96	1756.96	1764.03	1763.80	1757.05	1747.55
12	1739.82	1747.50	1755.40	1761.09	1753.87	1755.78	1754.78	1756.79	1764.12	1763.73	1756.76	1747.22
13	1740.20	1747.84	1757.90	1761.06	1753.74	1755.59	1756.90	1756.98	1764.27	1763.67	1756.46	1746.83
14	1740.59	1751.12	1758.92	1760.78	1753.63	1755.37	1758.73	1757.49	1764.37	1763.56	1756.11	1746.47
15	1740.59	1752.39	1759.21	1760.25	1753.55	1755.15	1759.33	1757.63	1764.43	1763.37	1755.78	1746.15
16	1740.55	1753.05	1761.44	1759.68	1753.43	1754.84	1759.67	1757.73	1764.32	1763.20	1755.49	1746.05
17	1740.44	1753.35	1762.47	1759.07	1753.39	1754.50	1759.82	1758.06	1764.18	1762.97	1755.18	1745.84
18	1740.41	1753.37	1762.56	1758.59	1753.45	1754.11	1759.90	1758.27	1764.35	1762.76	1754.90	1745.60
19	1741.61	1753.35	1762.44	1758.22	1753.57	1753.87	1759.93	1758.47	1764.38	1762.58	1754.57	1745.31
20	1741.89	1753.38	1762.20	1757.75	1753.59	1753.51	1759.95	1758.78	1764.32	1762.33	1754.29	1744.99
21	1742.16	1753.52	1761.74	1757.27	1755.45	1753.10	1759.96	1759.14	1764.31	1762.08	1754.01	1744.63
22	1742.78	1754.14	1761.18	1756.83	1758.65	1752.64	1760.11	1759.66	1764.29	1761.87	1753.72	1744.31
23	1743.19	1754.72	1760.60	1756.39	1759.71	1752.25	1760.26	1759.97	1764.22	1761.65	1753.35	1744.00
24	1743.71	1754.95	1760.08	1756.67	1760.12	1751.91	1760.24	1760.17	1764.17	1761.33	1753.12	1743.61
25	1744.77	1754.98	1759.63	1757.26	1760.25	1751.53	1760.00	1760.41	1764.14	1761.06	1752.77	1743.30
26	1745.20	1754.92	1759.22	1757.12	1760.10	1751.22	1759.77	1760.66	1764.20	1760.85	1752.44	1742.92
27	1745.54	1754.84	1758.79	1756.87	1759.83	1750.95	1759.55	1761.03	1764.35	1760.64	1752.12	1742.55
28	1745.62	1754.92	1758.50	1756.54	1759.49	1750.84	1759.25	1761.95	1764.68	1760.44	1751.83	1742.25
29	1745.57	1754.96	1758.10	1756.22		1750.63	1759.01	1762.98	1765.48	1760.24	1751.39	1742.08
30	1745.70	1754.97	1757.69	1755.98		1750.43	1758.89	1763.26	1765.31	1760.08	1751.07	1741.82
31	1746.14		1757.48	1755.74		1750.15		1763.38		1759.88	1750.72	
MEAN	1741.75	1751.03	1758.21	1758.10	1755.48	1754.32	1756.06	1759.15	1764.23	1762.77	1755.41	1746.19
MAX	1746.14	1754.98	1762.56	1761.09	1760.25	1759.07	1760.26	1763.38	1765.48	1765.17	1759.59	1750.36
MIN	1738.96	1746.46	1755.19	1755.74	1753.39	1750.15	1749.50	1756.79	1763.41	1759.88	1750.72	1741.82
(†)	39800	48020	50460	48770	52400	43350	51820	56280	58220	52780	43900	36000
(‡)	+4340	+8220	+2440	-1690	+3630	-9050	+8470	+4460	+1940	-5440	-8880	-7900

CAL YR 2001 MEAN 1751.26 MAX 1762.56 MIN 1738.96 AC-FT† +13690
WTR YR 2002 MEAN 1755.23 MAX 1765.48 MIN 1738.96 AC-FT‡ +540

† Contents, in acre-feet, at 2400, on last day of month.
‡ Change in contents, in acre-feet.