

Water-Data Report 2007

02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°56'28", long 78°35'00" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, on intake tower 50 ft upstream from Falls Lake dam, and 0.3 mi northwest of Falls and 235 mi upstream from mouth.

DRAINAGE AREA.--771 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. U.S. Army Corps of Engineers satellite telemetry at station.

COOPERATION.--Gage is operated in cooperation with the U.S. Army Corps of Engineers.

REMARKS.--Lake used for flood control, water supply, low-flow augmentation, and recreation. Temporary filling began May 1981 as water supply for city of Raleigh during drought conditions. Gates were closed on January 13, 1983 and normal pool elevation of 250.1 ft was recorded December 7, 1983. Total capacity of reservoir is 4,998,074,000 ft³ at elevation of 250.1 ft. Extremes for period of record provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 264.34 ft, October 1, 2, 1999; minimum elevation, 242.78 ft, November 26, 1993.

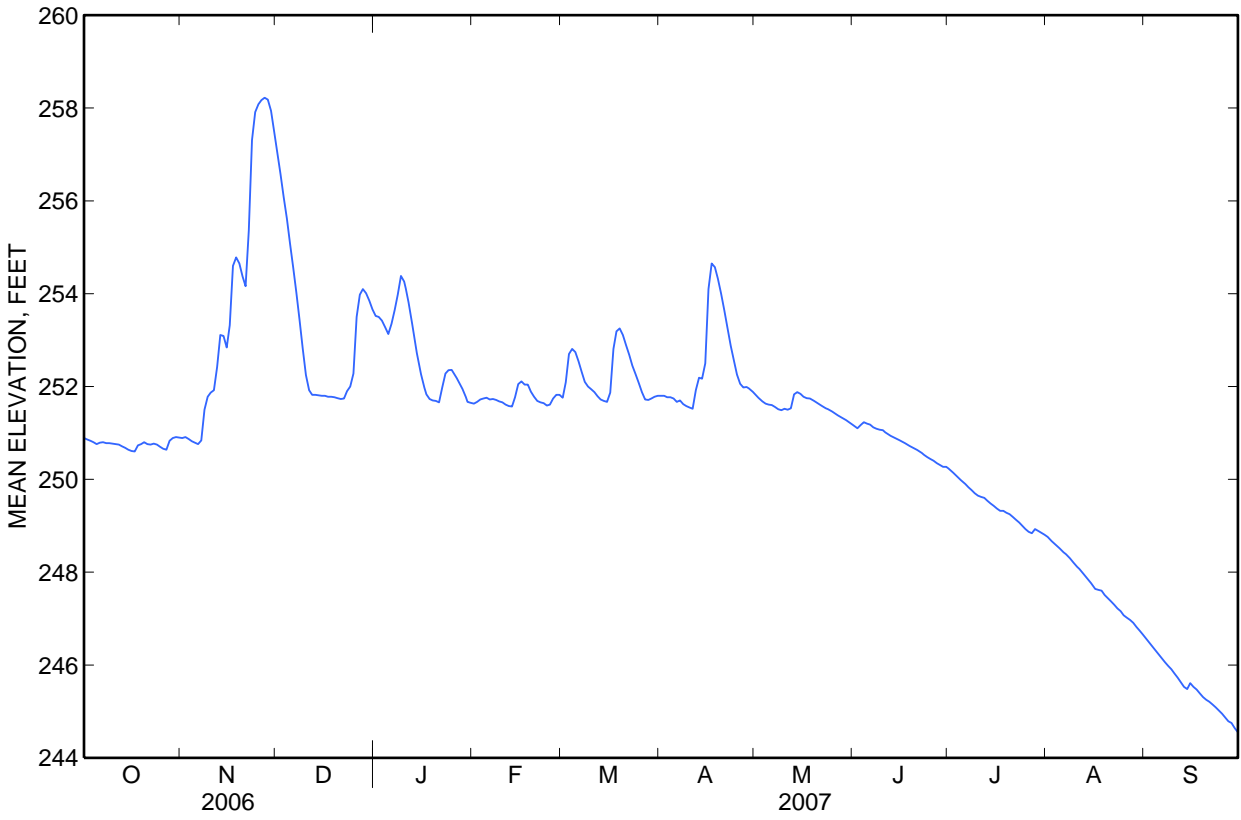
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 258.25 ft, November 27; minimum elevation, 244.51 ft, September 30.

02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC—Continued

ELEVATION, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	250.89	250.89	257.02	253.52	251.63	251.76	251.80	251.81	251.15	250.22	248.76	246.58
2	250.86	250.91	256.58	253.50	251.67	252.09	251.80	251.75	251.10	250.15	248.69	246.48
3	250.83	250.87	256.08	253.42	251.72	252.70	251.77	251.68	251.17	250.09	248.62	246.40
4	250.80	250.82	255.62	253.28	251.74	252.81	251.77	251.63	251.23	250.03	248.56	246.32
5	250.76	250.79	255.07	253.13	251.76	252.74	251.74	251.61	251.20	249.96	248.50	246.24
6	250.79	250.76	254.55	253.35	251.72	252.54	251.67	251.60	251.18	249.90	248.43	246.14
7	250.80	250.84	254.03	253.65	251.73	252.32	251.70	251.56	251.12	249.83	248.37	246.06
8	250.78	251.50	253.44	253.98	251.71	252.10	251.62	251.51	251.09	249.77	248.30	245.98
9	250.78	251.78	252.82	254.38	251.68	252.00	251.58	251.49	251.07	249.70	248.22	245.91
10	250.77	251.87	252.25	254.26	251.66	251.94	251.55	251.52	251.06	249.65	248.14	245.82
11	250.76	251.92	251.92	253.93	251.61	251.88	251.52	251.50	251.00	249.62	248.07	245.73
12	250.75	252.42	251.82	253.55	251.58	251.79	251.92	251.53	250.96	249.60	247.98	245.63
13	250.71	253.11	251.82	253.17	251.57	251.72	252.19	251.83	250.92	249.54	247.91	245.53
14	250.68	253.09	251.81	252.76	251.77	251.69	252.17	251.88	250.88	249.48	247.83	245.48
15	250.64	252.84	251.80	252.35	252.05	251.67	252.50	251.84	250.85	249.43	247.73	245.61
16	250.61	253.32	251.80	252.06	252.11	251.87	254.10	251.78	250.82	249.37	247.64	245.53
17	250.60	254.60	251.78	251.83	252.04	252.81	254.65	251.75	250.78	249.32	247.62	245.47
18	250.73	254.78	251.78	251.73	252.04	253.19	254.57	251.74	250.74	249.32	247.60	245.39
19	250.76	254.65	251.77	251.70	251.89	253.25	254.32	251.70	250.70	249.28	247.51	245.31
20	250.80	254.37	251.75	251.69	251.78	253.11	254.00	251.66	250.66	249.25	247.44	245.25
21	250.76	254.16	251.73	251.66	251.69	252.89	253.64	251.62	250.63	249.19	247.37	245.21
22	250.75	255.36	251.74	251.98	251.66	252.68	253.26	251.57	250.58	249.13	247.30	245.15
23	250.77	257.31	251.90	252.28	251.64	252.45	252.88	251.53	250.53	249.07	247.22	245.09
24	250.75	257.91	252.00	252.35	251.59	252.27	252.56	251.50	250.48	249.00	247.16	245.02
25	250.70	258.08	252.28	252.36	251.61	252.08	252.26	251.46	250.44	248.93	247.07	244.95
26	250.66	258.17	253.50	252.25	251.74	251.88	252.06	251.42	250.40	248.87	247.02	244.87
27	250.64	258.22	253.98	252.12	251.82	251.72	251.98	251.37	250.35	248.84	246.97	244.79
28	250.83	258.18	254.10	252.01	251.82	251.71	251.99	251.33	250.31	248.93	246.91	244.75
29	250.89	257.94	254.01	251.85	---	251.74	251.95	251.29	250.27	248.89	246.82	244.64
30	250.91	257.48	253.85	251.67	---	251.78	251.88	251.25	250.27	248.85	246.74	244.55
31	250.90	---	253.66	251.65	---	251.80	---	251.20	---	248.81	246.66	---
Mean	250.76	253.96	253.17	252.69	251.75	252.23	252.45	251.58	250.80	249.42	247.71	245.53
Max	250.91	258.22	257.02	254.38	252.11	253.25	254.65	251.88	251.23	250.22	248.76	246.58
Min	250.60	250.76	251.73	251.65	251.57	251.67	251.52	251.20	250.27	248.81	246.66	244.55

02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC—Continued



02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC—Continued**CLIMATOLOGICAL RECORDS**

COOPERATION.--Gage is operated in cooperation with the U.S. Army Corps of Engineers.

PERIOD OF RECORD.--October 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.07	0.31	0.35	0.19	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.01	0.53	0.00	0.00	0.07	0.00	0.00	0.00
3	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	2.20	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
6	0.71	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
7	0.07	2.15	0.00	0.20	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
8	0.06	0.07	0.00	0.19	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
9	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.14	0.00	0.13	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.16	0.10	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.56	0.01	0.00
12	0.01	0.89	0.00	0.00	0.00	0.00	0.54	0.76	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	1.25
15	0.00	0.00	0.00	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00	0.10
16	0.00	1.40	0.00	0.00	0.00	2.31	0.00	0.01	0.00	0.00	0.00	0.00
17	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.31	0.27	0.00
18	0.17	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00
19	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.36
21	0.00	0.76	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02
22	0.16	1.95	1.34	0.10	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
23	0.00	0.01	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.01	1.74	0.00	0.55	0.00	0.00	0.00	0.02	0.06	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00
27	0.52	0.00	0.00	0.00	0.00	0.02	0.15	0.00	0.00	0.74	0.00	0.00
28	0.35	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.22	0.00	0.12	0.19	0.00	0.00	0.00
30	0.00	0.13	0.00	0.00	---	0.02	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.01	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	2.86	7.37	3.32	2.45	1.41	3.29	2.63	1.19	3.04	2.24	1.37	1.73

02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC—Continued

