

Water-Data Report 2007

02111391 W. KERR SCOTT RESERVOIR AT DAM NEAR WILKESBORO, NC

Upper Pee Dee Basin
Upper Yadkin Subbasin

LOCATION.--Lat 36°08'01", long 81°13'36" referenced to North American Datum of 1983, Wilkes County, NC, Hydrologic Unit 03040101, at W. Kerr Scott Dam on Yadkin River, 0.1 mi upstream from Fish Trap Creek, 2.0 mi upstream from Millers Creek, and 4.0 mi west of Wilkesboro.

DRAINAGE AREA.--367 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 1,000 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good. Lake is used for flood control, low-flow augmentation, recreation, and water supply. Some storage was affected during construction in July 1962, but gates were closed August 22, 1962. Reservoir reached normal pool elevation on January 19, 1963. Total capacity at elevation 1,075.0 ft is 6,664,680,000 ft³ of which 4,878,720,000 ft³ is controlled flood storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 61.20 ft, November 7, 1977; minimum gage height, 19.85 ft, November 26, 1978.

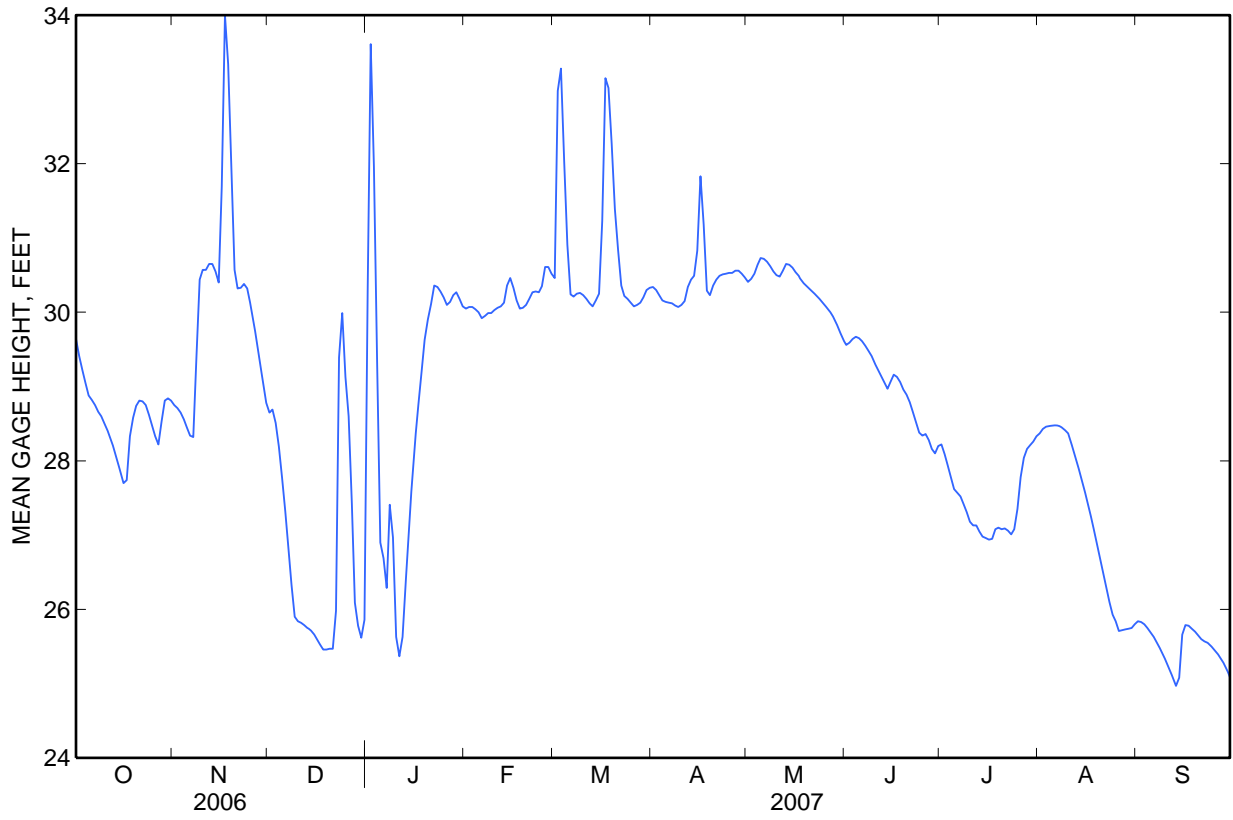
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 34.26 ft, November 17; minimum gage height, 24.88 ft, September 14.

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GAGE HEIGHT, 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	29.64	28.75	28.65	30.30	30.05	30.46	30.34	30.41	29.56	28.22	28.37	25.84
2	29.41	28.71	28.69	33.61	30.07	32.98	30.30	30.45	29.59	28.09	28.43	25.83
3	29.22	28.65	28.51	31.96	30.07	33.28	30.23	30.52	29.64	27.94	28.46	25.80
4	29.05	28.56	28.19	29.33	30.04	32.04	30.16	30.64	29.67	27.78	28.47	25.75
5	28.88	28.45	27.77	26.90	30.00	30.91	30.14	30.73	29.65	27.62	28.47	25.69
6	28.82	28.34	27.32	26.69	29.92	30.24	30.13	30.72	29.61	27.57	28.48	25.63
7	28.75	28.32	26.84	26.29	29.95	30.21	30.12	30.68	29.55	27.52	28.47	25.55
8	28.66	29.41	26.33	27.41	29.99	30.25	30.09	30.62	29.48	27.42	28.45	25.47
9	28.60	30.44	25.90	26.97	29.99	30.26	30.07	30.55	29.41	27.31	28.41	25.38
10	28.50	30.57	25.84	25.63	30.03	30.23	30.10	30.50	29.32	27.18	28.37	25.29
11	28.39	30.57	25.82	25.37	30.06	30.18	30.15	30.48	29.22	27.13	28.24	25.19
12	28.29	30.65	25.79	25.63	30.08	30.12	30.34	30.56	29.14	27.13	28.08	25.08
13	28.16	30.65	25.75	26.33	30.13	30.08	30.44	30.65	29.06	27.05	27.94	24.97
14	28.01	30.55	25.72	27.06	30.36	30.16	30.49	30.64	28.97	26.98	27.79	25.08
15	27.85	30.40	25.67	27.70	30.46	30.25	30.83	30.60	29.07	26.96	27.63	25.66
16	27.70	31.69	25.60	28.28	30.33	31.23	31.83	30.54	29.16	26.94	27.46	25.79
17	27.74	34.00	25.53	28.76	30.16	33.15	31.18	30.49	29.13	26.95	27.28	25.78
18	28.33	33.34	25.46	29.20	30.05	33.02	30.29	30.42	29.06	27.08	27.09	25.74
19	28.58	31.95	25.46	29.63	30.06	32.27	30.23	30.37	28.96	27.10	26.90	25.70
20	28.74	30.57	25.47	29.90	30.10	31.39	30.36	30.33	28.89	27.08	26.70	25.65
21	28.81	30.32	25.47	30.11	30.18	30.84	30.44	30.29	28.79	27.09	26.50	25.60
22	28.80	30.33	25.98	30.36	30.27	30.36	30.49	30.25	28.66	27.06	26.30	25.57
23	28.75	30.38	29.39	30.34	30.28	30.22	30.51	30.20	28.52	27.01	26.10	25.55
24	28.62	30.32	29.99	30.28	30.27	30.18	30.52	30.16	28.38	27.08	25.93	25.51
25	28.47	30.11	29.13	30.20	30.35	30.13	30.53	30.11	28.34	27.35	25.84	25.46
26	28.33	29.87	28.60	30.10	30.61	30.08	30.53	30.05	28.36	27.78	25.71	25.41
27	28.22	29.62	27.43	30.14	30.61	30.10	30.56	30.00	28.28	28.04	25.72	25.35
28	28.53	29.34	26.09	30.23	30.52	30.13	30.56	29.92	28.16	28.16	25.73	25.28
29	28.81	29.05	25.78	30.27	---	30.20	30.52	29.84	28.10	28.21	25.74	25.19
30	28.84	28.78	25.62	30.18	---	30.30	30.47	29.74	28.20	28.26	25.75	25.09
31	28.81	---	25.86	30.08	---	30.33	---	29.63	---	28.33	25.80	---
Mean	28.59	30.09	26.76	28.88	30.18	30.83	30.43	30.36	29.00	27.47	27.25	25.50
Max	29.64	34.00	29.99	33.61	30.61	33.28	31.83	30.73	29.67	28.33	28.48	25.84
Min	27.70	28.32	25.46	25.37	29.92	30.08	30.07	29.63	28.10	26.94	25.71	24.97

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CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--October 2002 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. 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	0.06	0.16	0.16	0.84	0.03	1.99	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.08	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.41	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.02	0.08	0.13	0.00	0.00
6	0.05	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.13	0.00	0.00
7	0.01	1.19	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.31	0.57	0.00	0.38	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00
11	0.08	0.65	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.05	0.00	0.99	0.00	0.00	0.00	0.00	0.01	0.17	0.00
14	0.00	0.00	0.00	0.00	0.01	0.00	0.14	0.00	0.19	0.00	0.00	2.78
15	0.00	0.71	0.00	0.00	0.00	0.01	1.03	0.00	0.01	0.00	0.00	0.00
16	0.04	0.72	0.00	0.00	0.00	1.89	0.00	0.03	0.02	0.00	0.00	0.00
17	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.12	0.00	0.00	0.02	0.00	0.00	0.06	0.00	0.55	0.00	0.00	0.00
20	0.10	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00
21	0.00	0.03	0.08	0.50	0.11	0.12	0.00	0.00	0.00	0.00	0.04	0.01
22	0.00	0.48	2.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.87	1.16	0.00
25	0.00	0.00	1.22	0.00	0.68	0.00	0.00	0.00	0.57	0.90	0.00	0.00
26	0.00	0.00	0.03	0.00	0.00	0.00	0.09	0.00	0.00	0.20	0.09	0.00
27	1.08	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
28	0.06	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.09	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.27	0.00	0.00	0.38	0.00	0.10	0.00
30	0.00	0.71	0.00	0.00	---	0.00	0.00	0.00	0.03	0.03	0.00	0.00
31	0.00	---	1.59	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	2.99	5.30	5.16	3.47	1.82	4.65	1.86	0.33	2.32	3.62	1.57	2.79

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