

Water-Data Report 2007

02081000 ROANOKE RIVER NEAR SCOTLAND NECK, NC

Roanoke Basin
Lower Roanoke Subbasin

LOCATION.--Lat 36°12'33", long 77°23'02" referenced to North American Datum of 1983, Halifax County, NC, Hydrologic Unit 03010107, right upstream side of bridge on U.S. Highway 258, 3 mi downstream from Bridgers Creek, and 5.8 mi north of Scotland Neck.

DRAINAGE AREA.--8,671 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1974 to current year. Daily mean discharges, October 1940 to September 1956.

GAGE.--Water-stage recorder. Datum of gage is 5.77 ft above NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 41.98 ft, August 19, 1940; minimum gage height not determined

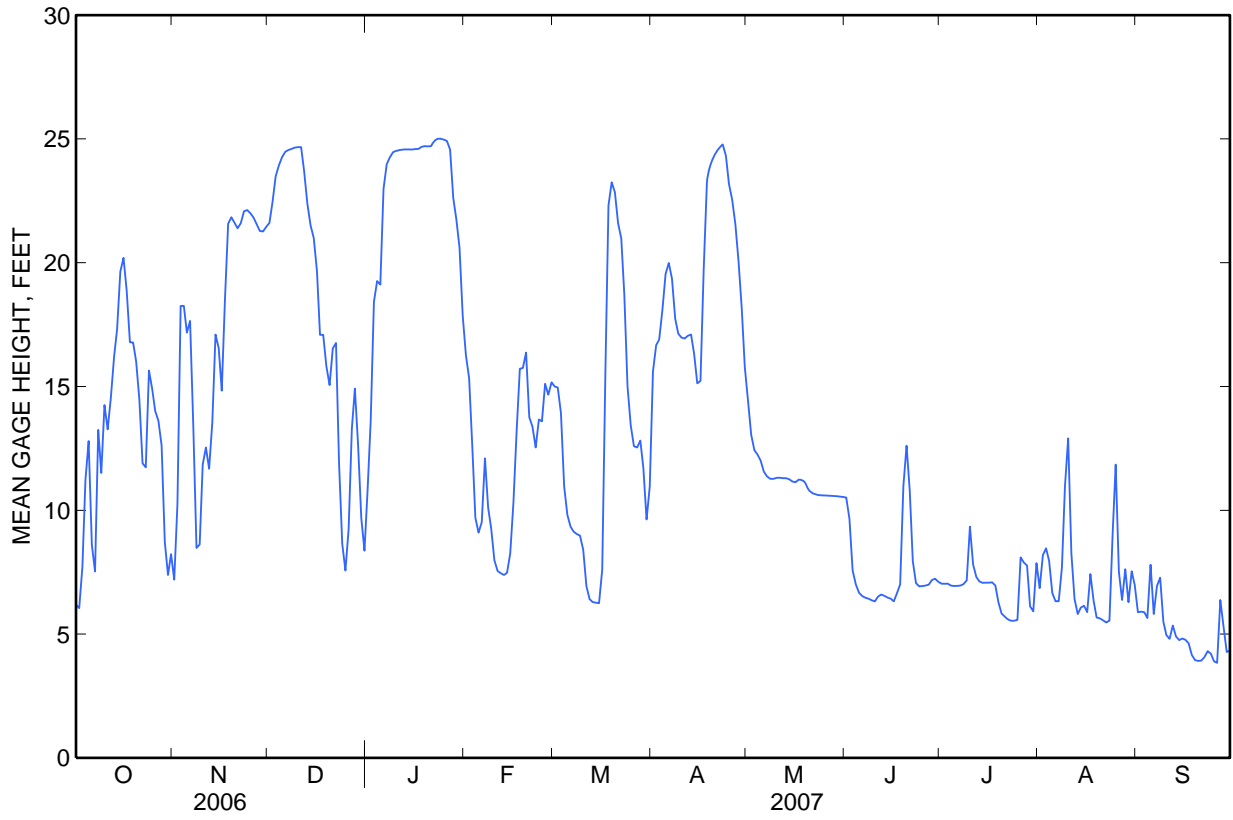
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.03 ft, January 24; minimum gage height, 3.79 ft, September 26.

02081000 ROANOKE RIVER NEAR SCOTLAND NECK, NC—Continued

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	6.18	7.20	21.61	10.90	16.26	15.00	15.61	14.43	10.52	7.04	6.86	5.88
2	6.05	10.26	22.44	13.63	15.34	14.96	16.67	13.05	9.66	7.03	8.19	5.91
3	7.72	18.25	23.49	18.42	12.56	13.92	16.90	12.43	7.57	7.04	8.47	5.88
4	11.23	18.26	23.93	19.26	9.70	10.96	18.09	12.25	7.01	6.96	7.96	5.65
5	12.80	17.18	24.27	19.12	9.10	9.82	19.55	12.01	6.67	6.94	6.66	7.80
6	8.61	17.65	24.48	22.98	9.52	9.34	19.99	11.56	6.54	6.95	6.33	5.81
7	7.53	13.43	24.55	23.98	12.10	9.14	19.35	11.37	6.47	6.96	6.33	6.94
8	13.25	8.48	24.60	24.25	10.10	9.04	17.74	11.27	6.43	7.02	7.69	7.28
9	11.51	8.62	24.65	24.46	9.26	8.98	17.14	11.27	6.37	7.17	10.97	5.50
10	14.25	11.85	24.67	24.53	7.98	8.41	16.98	11.31	6.32	9.34	12.91	4.96
11	13.27	12.54	24.67	24.54	7.55	6.94	16.94	11.32	6.51	7.81	8.27	4.81
12	14.56	11.68	23.69	24.57	7.46	6.41	17.05	11.30	6.60	7.31	6.41	5.35
13	16.20	13.56	22.39	24.58	7.39	6.30	17.10	11.30	6.55	7.13	5.81	4.91
14	17.33	17.10	21.51	24.58	7.48	6.27	16.33	11.25	6.48	7.07	6.07	4.76
15	19.64	16.55	21.00	24.57	8.26	6.25	15.13	11.16	6.43	7.08	6.15	4.82
16	20.20	14.83	19.67	24.59	10.32	7.61	15.23	11.14	6.32	7.08	5.89	4.77
17	18.86	18.52	17.09	24.60	13.21	15.70	19.71	11.24	6.65	7.09	7.43	4.63
18	16.79	21.58	17.09	24.68	15.72	22.32	23.21	11.22	7.01	6.96	6.35	4.16
19	16.78	21.84	15.81	24.71	15.75	23.25	23.88	11.11	10.97	6.29	5.67	3.95
20	16.01	21.61	15.06	24.70	16.37	22.85	24.23	10.86	12.61	5.83	5.64	3.92
21	14.48	21.39	16.54	24.71	13.76	21.60	24.47	10.72	10.79	5.71	5.56	3.93
22	11.90	21.60	16.76	24.91	13.38	20.98	24.65	10.66	7.95	5.59	5.47	4.07
23	11.74	22.08	11.91	25.00	12.54	18.71	24.78	10.63	7.06	5.55	5.55	4.31
24	15.65	22.13	8.65	25.01	13.67	15.01	24.32	10.61	6.93	5.54	9.05	4.21
25	14.91	22.00	7.57	24.97	13.59	13.44	23.18	10.60	6.94	5.58	11.85	3.90
26	14.01	21.83	9.25	24.92	15.11	12.59	22.55	10.60	6.96	8.10	7.52	3.84
27	13.62	21.56	13.29	24.57	14.67	12.54	21.56	10.59	7.00	7.89	6.38	6.38
28	12.62	21.28	14.92	22.61	15.17	12.82	20.05	10.58	7.18	7.77	7.62	5.31
29	8.72	21.26	12.64	21.76	---	11.71	18.14	10.56	7.24	6.12	6.29	4.28
30	7.39	21.45	9.69	20.61	---	9.63	15.79	10.56	7.12	5.92	7.54	4.33
31	8.23	---	8.37	17.86	---	10.96	---	10.54	---	7.87	6.99	---
Mean	12.97	17.25	18.27	22.73	11.90	12.69	19.54	11.27	7.50	6.89	7.29	5.08
Max	20.20	22.13	24.67	25.01	16.37	23.25	24.78	14.43	12.61	9.34	12.91	7.80
Min	6.05	7.20	7.57	10.90	7.39	6.25	15.13	10.54	6.32	5.54	5.47	3.84

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02081000 ROANOKE RIVER NEAR SCOTLAND NECK, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955, 1960-61, 1966-77, 2006-08.

REMARKS.--Station operated in cooperation with the U.S. Army Corps of Engineers. Water-quality measurements and samples were collected by the U.S. Geological Survey and the North Carolina Department of Environment and Natural Resources, Division of Water Quality.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

[Remark codes: <, less than.]

Date	Time	Sample type	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Sus- pended sedi- ment concen- tration mg/L (80154)
Oct									
16...	1210	Environmental	--	7.6	6.5	115	19.7	.6	--
Nov									
06...	1715	Environmental	12,300	--	7.5	115	14.6	.4	16
06...	1716	Replicate	12,300	--	--	--	--	.4	--
Apr									
03...	1345	Environmental	11,500	10.6	7.1	98	14.9	<1.0	--
17...	1325	Environmental	--	--	7.0	98	13.5	1.0	--
May									
01...	1730	Environmental	6,950	9.8	7.2	106	19.5	<1.0	22
16...	1230	Environmental	--	8.5	7.3	104	20.9	<1.0	--
29...	1700	Environmental	5,560	9.3	7.9	107	25.4	<2.0	19
Jun									
14...	1035	Environmental	--	6.3	6.8	118	23.9	<1.0	--
26...	1400	Environmental	3,000	7.0	7.3	116	26.2	<1.0	16
Jul									
18...	1100	Environmental	--	6.0	6.8	117	27.7	<1.0	--
31...	1230	Environmental	3,560	6.9	7.2	122	26.6	<1.0	50
Sep									
04...	1845	Environmental	2,190	7.7	7.5	130	27.7	<1.0	11

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

[Remark codes: <, less than.]

Date	Time	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Sus- pended sedi- ment concen- tration mg/L (80154)
Oct								
02...	1445	2,030	7.6	7.0	145	23.7	<1.0	16
Nov								
05...	1310	1,800	9.0	6.8	127	16.6	<1.0	10