

Water-Data Report 2008

02089000 NEUSE RIVER NEAR GOLDSBORO, NC

Neuse Basin
Middle Neuse Subbasin

LOCATION.--Lat 35°20'15", long 77°59'51" referenced to North American Datum of 1983, Wayne County, NC, Hydrologic Unit 03020202, on left bank at downstream side of bridge on Secondary Road 1915, 0.2 mi upstream from Stony Creek, 1.5 mi downstream of Seaboard Coast Line Railroad bridge, 3.2 mi south of Wayne County courthouse in Goldsboro, 4.3 mi downstream of Little River, and 135 mi upstream from mouth.

DRAINAGE AREA.--2,399 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1930 to current year.

REVISED RECORDS.--WSP 1333: 1931, 1935. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 42.95 ft above NGVD of 1929. Prior to July 24, 1931, nonrecording gage at railroad bridge 1.5 mi upstream at 44.95 ft. July 24, 1931, to August 31, 1948, water-stage recorder at site 2.3 mi upstream at 44.66 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Falls Lake (station 02087182). Prior to regulation, maximum discharge: 30,700 ft³/s, September 27, 1945; gage height: 26.72 ft at site and datum then in use; minimum discharge: 76 ft³/s, September 26, 1968. Minimum discharge during regulation also occurred October 3, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1866 and July 1919, reached stages of about 29 and 28 ft, respectively, at site 2.3 mi upstream at present datum, from flood profiles of U.S. Army Corps of Engineers. Flood of October 5, 1929, reached a stage of 27.3 ft at railroad bridge at present datum; discharge, 38,600 ft³/s.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	221	1,160	285	3,100	790	1,750	991	4,460	630	277	353	1,020
2	200	829	311	3,710	990	1,460	2,040	4,530	532	432	323	1,180
3	232	667	295	3,560	1,550	1,260	2,620	3,430	475	564	351	1,010
4	266	563	256	2,440	1,720	1,170	2,300	2,600	463	391	293	758
5	233	465	251	1,630	1,500	2,300	2,750	2,190	441	302	262	616
6	211	402	252	1,290	1,280	2,760	4,570	1,940	395	259	233	1,680
7	233	361	251	1,090	1,120	3,790	5,960	1,740	355	304	225	2,800
8	249	356	236	965	999	4,250	6,580	1,580	309	867	230	4,270
9	265	340	233	895	875	4,920	7,010	1,510	282	1,250	243	5,280
10	255	325	264	837	792	5,590	6,270	1,510	295	1,030	270	6,210
11	238	304	297	790	725	5,480	4,380	1,600	284	918	329	6,100
12	221	270	297	756	661	3,760	3,070	1,380	386	1,330	261	5,860
13	184	288	298	724	782	2,640	2,680	1,280	297	1,380	368	5,040
14	171	289	298	682	985	2,100	2,640	1,520	267	1,060	362	4,100
15	186	289	324	654	1,510	1,760	2,620	1,320	343	793	399	3,780
16	201	290	750	627	1,830	1,970	2,440	1,170	344	834	434	3,460
17	208	286	786	631	1,600	2,700	2,250	1,100	460	958	461	3,330
18	215	362	1,440	653	2,560	3,090	2,010	1,110	486	647	530	3,260
19	229	336	1,240	718	2,630	2,770	1,810	1,150	389	467	500	3,370
20	211	294	942	1,030	2,830	2,250	1,620	1,120	356	401	441	3,220
21	289	257	792	1,190	2,560	1,850	1,700	1,290	278	467	387	2,950
22	341	237	693	1,310	2,290	1,610	1,950	1,180	247	458	332	2,730
23	338	229	631	1,190	2,150	1,430	1,820	1,210	288	440	315	2,580
24	337	252	599	1,070	2,080	1,260	1,660	1,040	670	469	313	2,470
25	577	261	599	1,000	1,970	1,150	1,590	935	700	600	250	2,450
26	784	251	1,160	940	1,790	1,050	1,430	839	561	653	347	2,800
27	1,550	264	1,280	874	1,730	970	1,360	773	438	662	461	2,750
28	2,020	278	1,680	816	1,770	914	1,800	714	369	647	389	3,360
29	2,980	307	1,890	770	1,960	866	2,700	705	278	554	1,030	3,880
30	3,070	328	1,620	741	---	840	4,040	684	268	472	1,640	3,950
31	2,000	---	1,580	716	---	864	---	682	---	390	1,780	---
Total	18,715	11,140	21,830	37,399	46,029	70,574	86,661	48,292	11,886	20,276	14,112	96,264
Mean	604	371	704	1,206	1,587	2,277	2,889	1,558	396	654	455	3,209
Max	3,070	1,160	1,890	3,710	2,830	5,590	7,010	4,530	700	1,380	1,780	6,210
Min	171	229	233	627	661	840	991	682	247	259	225	616

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,680	1,606	2,160	3,174	3,790	4,647	3,678	1,892	1,542	1,387	1,502	2,182
Max	11,750	5,770	4,720	6,644	12,080	11,400	7,850	7,276	5,530	4,668	4,761	14,650
(WY)	(2000)	(2007)	(2007)	(1993)	(1998)	(1998)	(1989)	(1989)	(1995)	(1989)	(2003)	(1999)
Min	310	326	615	884	1,297	933	631	433	342	394	264	246
(WY)	(1984)	(1988)	(2002)	(1986)	(2006)	(2006)	(1986)	(1986)	(1986)	(1987)	(1983)	(1985)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1983 - 2008 ^a	
Annual total	506,491		483,178			
Annual mean	1,388		1,320		2,485	
Highest annual mean					4,018	
Lowest annual mean					1,040	
Highest daily mean	6,360	Jan 1	7,010	Apr 9	38,200	Sep 20, 1999
Lowest daily mean	171	Oct 14	171	Oct 14	162	Sep 10, 1983
Annual seven-day minimum	198	Oct 12	198	Oct 12	172	Sep 15, 1985
Maximum peak flow			7,060	Apr 9	38,500	Sep 20, 1999
Maximum peak stage			15.38	Apr 9	28.85	Sep 20, 1999
Instantaneous low flow			167	Oct 14	^b 157	Sep 19, 1985
10 percent exceeds	4,020		3,080		6,220	
50 percent exceeds	563		836		1,380	
90 percent exceeds	251		260		396	

^aRegulated period only (1983-2008). See Remarks.^bSee Remarks.