

Water-Data Report 2010

02134480 BIG SWAMP NEAR TARHEEL, NC

Lower Pee Dee Basin
Lumber Subbasin

LOCATION.--Lat 34°42'37", long 78°50'11" referenced to North American Datum of 1983, Robeson County, NC, Hydrologic Unit 03040203, on left bank downstream of bridge on Secondary Road 1004, and 2.8 mi southwest of Tarheel.

DRAINAGE AREA.--229 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1985 to current year. Occasional low-flow measurements, water years 1949-54, 1957-58, 1962-68.

REVISED RECORDS.--WDR-US-2007: 1998 (annual maximum discharge and gage height)

GAGE.--Water-stage recorder. Elevation of gage is 105 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurs at times most years.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	36	22	168	311	382	327	520	33	274	203	124	23
2	28	24	161	294	366	316	499	30	246	229	123	15
3	25	24	189	279	373	315	406	26	209	215	108	12
4	20	23	199	266	386	310	347	23	199	173	86	9.6
5	21	22	231	253	448	318	310	22	254	125	62	7.4
6	30	21	271	238	744	327	281	22	327	92	42	6.7
7	37	21	294	224	1,080	330	253	20	336	69	31	5.8
8	37	20	301	211	1,130	327	224	18	310	51	25	e4.8
9	34	21	398	197	1,110	317	196	15	278	59	21	e4.0
10	31	25	602	187	1,050	303	171	13	241	50	17	3.5
11	27	86	738	178	964	296	150	11	199	43	15	3.2
12	24	194	611	171	871	299	133	10	156	41	13	3.2
13	24	407	504	165	797	313	123	9.8	116	51	12	3.3
14	23	675	429	158	717	331	113	9.0	82	60	12	2.8
15	27	669	378	153	635	399	104	8.3	57	62	12	2.0
16	30	549	336	148	564	508	95	7.4	50	52	12	1.5
17	32	429	305	167	496	532	86	31	44	38	11	1.0
18	31	350	285	195	436	478	78	69	39	38	12	e1.0
19	28	302	295	226	393	413	70	100	38	66	73	e0.79
20	26	263	293	269	358	366	61	144	35	45	144	0.56
21	23	223	305	305	334	333	54	175	30	30	189	0.16
22	21	188	319	337	325	312	51	169	23	21	246	0.00
23	19	186	310	356	329	290	48	136	18	16	314	0.00
24	18	175	294	376	325	269	46	129	15	12	318	0.00
25	18	180	289	426	333	248	46	165	12	9.7	283	0.00
26	16	202	311	443	339	227	46	215	19	9.5	234	0.03
27	16	214	322	458	339	208	44	277	42	12	183	18
28	18	211	358	451	335	192	42	321	64	16	135	58
29	19	199	361	438	---	202	38	324	87	25	93	104
30	18	183	342	441	---	230	35	305	139	62	59	390
31	19	---	326	413	---	323	---	289	---	98	36	---
Total	776	6,108	10,525	8,734	15,959	9,959	4,670	3,126.5	3,939	2,073.2	3,045	681.34
Mean	25.0	204	340	282	570	321	156	101	131	66.9	98.2	22.7
Max	37	675	738	458	1,130	532	520	324	336	229	318	390
Min	16	20	161	148	325	192	35	7.4	12	9.5	11	0.00
Cfsm	0.11	0.89	1.48	1.23	2.49	1.40	0.68	0.44	0.57	0.29	0.43	0.10
In.	0.13	0.99	1.71	1.42	2.59	1.62	0.76	0.51	0.64	0.34	0.49	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	153	177	234	351	344	365	261	117	98.7	89.9	121	206
Max	1,094	598	447	1,001	985	856	571	362	474	469	551	923
(WY)	(2000)	(2007)	(2007)	(1993)	(1998)	(1987)	(1993)	(1999)	(1995)	(2003)	(2003)	(1999)
Min	3.31	15.3	30.1	92.9	127	121	66.6	11.5	2.05	0.07	0.00	0.00
(WY)	(2008)	(1999)	(2002)	(1986)	(1986)	(2002)	(2006)	(2002)	(2002)	(2002)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1986 - 2010	
Annual total	55,808.27		69,596.04			
Annual mean	153		191		209	
Highest annual mean					343	1995
Lowest annual mean					62.9	2002
Highest daily mean	900	Mar 4	1,130	Feb 8	3,300	Sep 17, 1999
Lowest daily mean	0.00	Jul 15	0.00	Sep 22	0.00	Aug 31, 1993
Annual seven-day minimum	0.00	Jul 24	0.11	Sep 20	0.00	Jul 3, 2002
Maximum peak flow			1,180	Feb 8	3,570	Sep 17, 1999
Maximum peak stage			11.75	Feb 8	14.34	Sep 17, 1999
Instantaneous low flow			^a 0.00	Sep 21	^a 0.00	Aug 31, 1993
Annual runoff (cfsm)	0.668		0.833		0.913	
Annual runoff (inches)	9.07		11.31		12.41	
10 percent exceeds	344		409		462	
50 percent exceeds	102		150		133	
90 percent exceeds	1.6		12		11	

^a See Remarks.

