

Water-Data Report 2007

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

GAGE.--Water-stage recorder. Elevation of gage is 105 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurs periodically.

REVISIONS.--Revised figures of discharge for the water year 1998, superseding those published in the report for 1998 are given below. The maximum discharge for the water year 1998 has been revised to 2,150 ft³/s, March 11, 1998, gage height 13.10 ft.

02134480 BIG SWAMP NEAR TARHEEL, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13	173	176	517	994	487	379	275	123	13	20	55
2	11	176	223	467	833	457	356	255	74	15	43	42
3	8.9	173	283	422	743	430	347	238	49	13	62	37
4	14	164	336	381	1,210	407	371	230	36	9.5	76	80
5	8.7	151	356	346	1,930	383	375	218	40	17	82	107
6	7.8	133	342	330	2,120	357	372	203	49	23	76	119
7	7.6	117	317	423	1,910	338	386	192	52	17	58	124
8	6.8	99	288	590	1,530	348	394	191	47	12	49	125
9	7.4	84	265	805	1,200	909	450	189	41	9.0	52	105
10	6.9	73	245	939	962	1,930	499	185	35	7.9	52	73
11	6.2	64	233	888	812	2,100	560	193	37	6.8	47	52
12	6.6	58	234	801	719	1,800	592	198	37	5.0	42	40
13	5.6	79	241	690	645	1,450	567	200	32	4.7	34	31
14	5.1	143	248	599	585	1,100	509	204	31	4.0	27	25
15	4.3	188	251	534	534	860	459	204	28	2.9	21	21
16	5.4	240	248	516	505	706	413	199	25	3.0	20	16
17	8.6	304	238	508	737	608	411	189	20	6.3	22	13
18	11	330	224	512	1,170	570	430	173	16	16	28	12
19	17	308	211	547	1,330	642	444	150	13	17	29	11
20	29	263	198	601	1,270	949	499	121	14	12	22	9.7
21	46	218	187	627	1,090	1,390	524	90	16	8.4	17	8.8
22	60	186	186	629	925	1,510	509	69	18	5.9	14	8.0
23	57	161	203	706	803	1,300	486	53	15	4.4	11	7.6
24	45	140	237	924	710	1,050	452	42	12	3.4	8.5	6.9
25	35	129	341	1,070	646	855	415	39	9.8	2.3	7.4	6.5
26	33	122	481	1,090	594	727	383	38	8.3	1.8	8.2	5.2
27	77	115	589	1,030	548	636	356	44	9.1	1.5	36	4.7
28	115	108	615	1,210	517	563	337	145	8.6	1.4	71	4.3
29	133	103	629	1,390	---	504	316	171	7.7	1.8	91	3.9
30	151	133	612	1,370	---	455	292	175	8.0	4.1	96	5.0
31	166	---	567	1,200	---	412	---	162	---	8.5	74	---
Total	1,108.9	4,735	9,804	22,662	27,572	26,233	12,883	5,035	911.5	257.6	1,296.1	1,158.6
Mean	35.8	158	316	731	985	846	429	162	30.4	8.31	41.8	38.6
Max	166	330	629	1,390	2,120	2,100	592	275	123	23	96	125
Min	4.3	58	176	330	505	338	292	38	7.7	1.4	7.4	3.9
Cfsm	0.16	0.69	1.38	3.19	4.30	3.70	1.88	0.71	0.13	0.04	0.18	0.17
In.	0.18	0.77	1.59	3.68	4.48	4.26	2.09	0.82	0.15	0.04	0.21	0.19

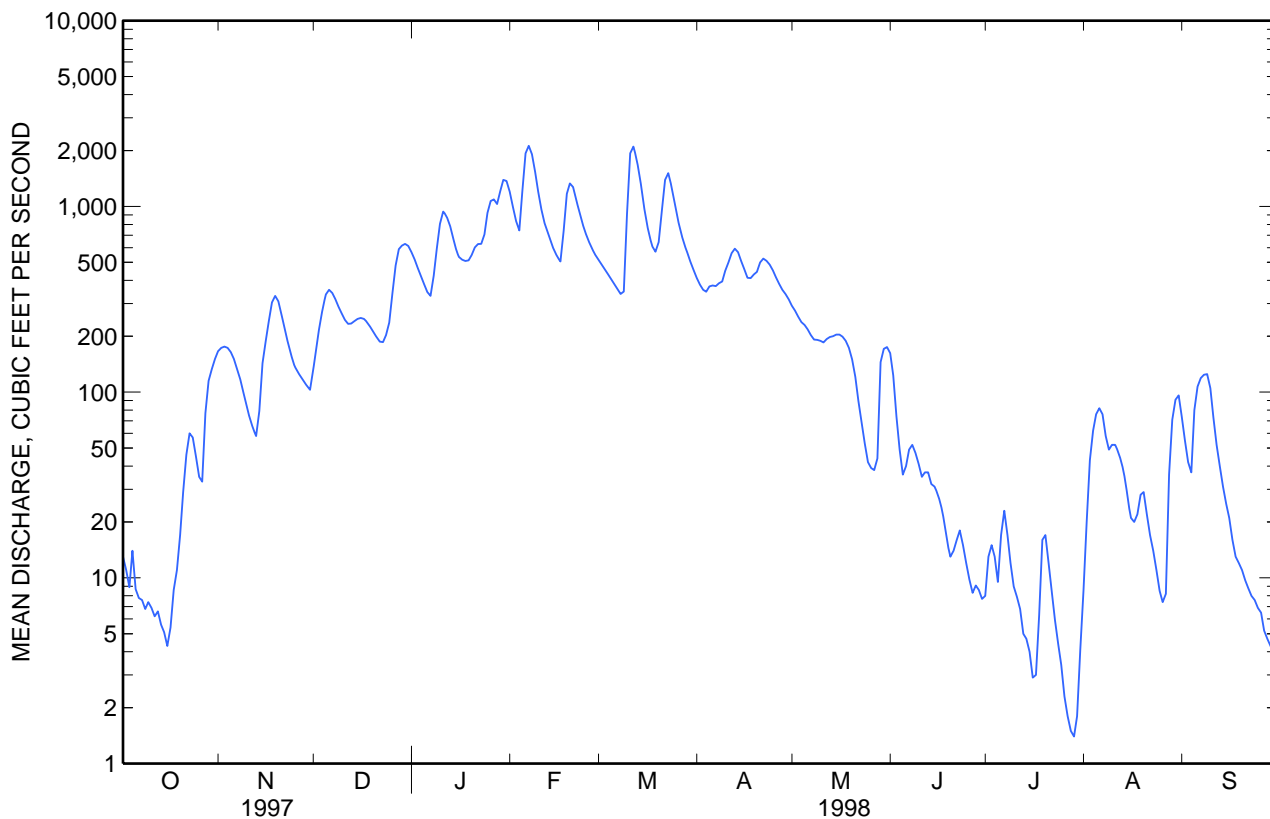
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1998, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	150	169	241	435	379	440	275	113	97.0	97.2	140	168
Max	741	382	396	1,001	985	856	571	358	474	407	358	836
(WY)	(1997)	(1993)	(1990)	(1993)	(1998)	(1987)	(1993)	(1989)	(1995)	(1995)	(1991)	(1996)
Min	5.05	33.5	68.8	92.9	127	138	66.8	17.1	15.0	8.31	17.6	6.98
(WY)	(1988)	(1988)	(1988)	(1986)	(1986)	(1988)	(1986)	(1986)	(1986)	(1998)	(1987)	(1997)

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SUMMARY STATISTICS

	Calendar Year 1997		Water Year 1998		Water Years 1986 - 1998	
Annual total	71,766.3		113,656.7			
Annual mean	197		311		225	
Highest annual mean					343	1995
Lowest annual mean					101	1986
Highest daily mean	866	Feb 17	2,120	Feb 6	2,810	Jan 10, 1993
Lowest daily mean	1.8	Sep 10	1.4	Jul 28	0.00	Aug 31, 1993
Annual seven-day minimum	2.9	Aug 23	2.3	Jul 24	0.01	Aug 29, 1993
Maximum peak flow			2,150	Mar 11	2,840	Jan 9, 1993
Maximum peak stage			13.10	Mar 11	13.34	Jan 9, 1993
Instantaneous low flow			1.2	Jul 28	0.00	Aug 31, 1993
Annual runoff (cfsm)	0.859		1.36		0.981	
Annual runoff (inches)	11.66		18.46		13.33	
10 percent exceeds	460		842		508	
50 percent exceeds	143		166		137	
90 percent exceeds	5.0		7.8		15	



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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	37	105	619	679	338	200	118	112	9.8	5.7	0.00	0.00
2	35	99	527	565	412	221	113	98	12	9.0	0.00	0.00
3	31	85	464	472	584	242	108	83	18	13	0.00	0.00
4	27	71	422	410	751	264	104	72	25	11	0.00	0.00
5	24	60	392	374	733	295	117	64	36	8.9	0.00	0.00
6	22	52	365	364	657	308	149	61	50	6.9	0.00	0.00
7	20	74	345	353	553	298	189	58	53	6.6	0.00	0.00
8	20	143	328	368	467	280	189	53	41	8.8	0.00	0.00
9	26	161	313	417	407	261	156	48	27	9.4	0.00	0.00
10	35	181	300	471	366	240	116	47	18	10	0.00	0.00
11	40	211	288	473	338	222	95	48	16	8.8	0.00	0.00
12	39	252	277	449	315	202	96	49	15	8.0	0.00	0.00
13	35	271	266	416	299	186	103	56	12	6.3	0.00	0.00
14	30	266	254	386	297	172	115	54	11	4.7	0.00	0.00
15	27	251	243	359	292	161	173	48	9.4	4.4	0.00	0.00
16	25	320	235	339	290	159	275	42	8.0	4.4	0.00	0.00
17	24	397	228	321	294	162	355	46	6.7	3.9	0.00	0.00
18	29	558	221	310	295	167	571	66	7.0	3.5	0.00	0.00
19	41	677	214	309	289	182	610	80	6.9	2.7	0.00	0.00
20	50	607	205	303	280	203	516	75	7.9	2.0	0.00	0.00
21	51	560	195	301	272	218	416	60	8.2	1.4	0.00	0.00
22	51	983	198	333	263	219	348	47	6.3	0.86	0.00	0.00
23	53	1,720	262	364	248	217	305	39	4.8	0.55	0.00	0.00
24	54	1,960	291	424	231	212	270	33	3.8	0.34	0.00	0.00
25	53	1,960	413	492	220	201	234	26	3.0	0.15	0.00	0.00
26	50	1,720	859	490	218	186	198	22	3.8	0.00	0.00	0.00
27	50	1,410	1,180	448	211	171	172	18	4.0	0.00	0.00	0.00
28	76	1,130	1,160	413	205	155	164	15	4.6	0.00	0.00	0.00
29	84	912	1,060	384	---	140	146	13	5.4	0.00	0.00	0.00
30	96	743	929	355	---	131	127	11	5.5	0.00	0.00	0.00
31	104	---	793	335	---	123	---	9.1	---	0.00	0.00	---
Total	1,339	17,939	13,846	12,477	10,125	6,398	6,648	1,553.1	439.1	141.30	0.00	0.00
Mean	43.2	598	447	402	362	206	222	50.1	14.6	4.56	0.00	0.00
Max	104	1,960	1,180	679	751	308	610	112	53	13	0.00	0.00
Min	20	52	195	301	205	123	95	9.1	3.0	0.00	0.00	0.00
Cfsm	0.19	2.61	1.95	1.76	1.58	0.90	0.97	0.22	0.06	0.02	0.00	0.00
In.	0.22	2.91	2.25	2.03	1.64	1.04	1.08	0.25	0.07	0.02	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	168	179	231	370	346	370	256	118	104	96.7	126	209
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	3.43	15.3	30.1	92.9	127	121	66.6	11.5	2.05	0.07	0.00	0.00
(WY)	(1999)	(1999)	(2002)	(1986)	(1986)	(2002)	(2006)	(2002)	(2002)	(2002)	(2007)	(2007)

02134480 BIG SWAMP NEAR TARHEEL, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1986 - 2007	
Annual total	75,158.5		70,905.50			
Annual mean	206		194		214	
Highest annual mean					343	1995
Lowest annual mean					62.9	2002
Highest daily mean	1,960	Nov 24	1,960	Nov 24	3,300	Sep 17, 1999
Lowest daily mean	7.9	Aug 21	0.00	Jul 26	0.00	Aug 31, 1993
Annual seven-day minimum	10	Aug 18	0.00	Jul 26	0.00	Jul 3, 2002
Maximum peak flow			2,000	Nov 25	3,570	Sep 17, 1999
Maximum peak stage			12.72	Nov 25	14.34	Sep 17, 1999
Instantaneous low flow			0.00	Jul 25	0.00	Aug 31, 1993
Annual runoff (cfsm)	0.899		0.848		0.933	
Annual runoff (inches)	12.21		11.52		12.68	
10 percent exceeds	371		469		477	
50 percent exceeds	137		83		137	
90 percent exceeds	24		0.00		12	

