

NEUSE RIVER BASIN

0208925200 BEAR CREEK AT MAYS STORE, NC

LOCATION.--Lat 35°16'28", long 77°47'40", Lenoir County, Hydrologic Unit 03020202, at downstream side of bridge on Secondary Road 1326, 0.7 mi west of Mays Store, and 1.0 mi downstream of Secondary Road 1002.

DRAINAGE AREA.--57.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above sea level, from topographic map. Satellite telemetry at site.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating extension above 3,000 ft³/s on basis of slope conveyance of peak flow. Maximum gage height for period of record from floodmark. Minimum discharge for current water year also occurred May 15, 25, 26, July 16, 17, 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	28	27	28	29	48	110	23	41	29	49	52
2	60	28	26	28	29	45	102	22	172	27	38	76
3	51	27	28	28	29	44	85	21	103	25	33	68
4	45	26	30	28	32	76	74	21	75	28	29	58
5	41	27	32	28	39	89	66	20	49	e50	26	53
6	39	28	33	29	40	77	59	20	38	e36	27	46
7	39	27	33	28	37	65	55	20	33	29	29	40
8	37	27	35	29	35	56	57	19	28	27	28	e37
9	35	29	42	30	33	52	46	19	26	28	26	34
10	34	31	44	29	32	47	42	18	24	28	e25	33
11	34	29	36	28	31	44	39	18	22	26	24	43
12	32	28	38	28	32	42	36	17	20	23	111	35
13	32	28	35	29	35	42	36	17	19	22	66	31
14	31	28	35	29	35	44	36	17	125	21	159	29
15	31	29	34	31	35	44	34	17	357	20	107	28
16	31	26	33	30	34	52	32	20	377	18	63	26
17	31	26	33	29	44	48	31	20	231	18	47	25
18	31	25	33	28	49	43	31	20	145	18	144	24
19	31	27	32	28	42	40	30	19	101	21	331	23
20	30	34	32	31	39	41	29	18	73	21	157	23
21	30	30	31	32	37	455	28	21	60	19	231	23
22	30	28	32	31	45	367	27	21	51	18	123	22
23	32	27	30	30	66	238	27	19	48	19	84	22
24	32	26	29	29	53	177	26	18	46	21	68	23
25	31	27	29	29	53	147	27	17	61	22	59	33
26	31	47	29	28	e54	116	32	27	46	e20	51	28
27	32	42	29	28	54	97	29	52	41	29	46	26
28	32	35	31	28	50	78	27	63	36	34	44	24
29	30	31	30	28	---	80	25	75	32	29	45	22
30	30	29	30	29	---	185	24	60	30	156	45	22
31	31	---	29	30	---	136	---	43	---	73	43	---
TOTAL	1106	880	1000	898	1123	3115	1302	802	2510	955	2358	1029
MEAN	35.7	29.3	32.3	29.0	40.1	100	43.4	25.9	83.7	30.8	76.1	34.3
MAX	70	47	44	32	66	455	110	75	377	156	331	76
MIN	30	25	26	28	29	40	24	17	19	18	24	22
CFSM	.62	.51	.56	.50	.70	1.74	.75	.45	1.45	.53	1.32	.59
IN.	.71	.57	.64	.58	.72	2.01	.84	.52	1.62	.62	1.52	.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	67.6	48.8	55.9	102	89.5	104	72.2	57.8	57.6	43.2	60.1	153		
MAX	316	119	133	266	306	230	204	216	201	98.5	231	1401		
(WY)	2000	1993	1993	1993	1998	1998	1998	1989	1995	1989	1992	1999		
MIN	17.2	15.8	21.5	29.0	40.1	35.3	26.5	19.8	13.2	12.5	12.8	17.6		
(WY)	1995	1995	1995	1995	2001	1988	1995	1994	1994	1993	1993	1994		

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1988 - 2001

ANNUAL TOTAL	22155	17078	
ANNUAL MEAN	60.5	46.8	75.9
HIGHEST ANNUAL MEAN			169
LOWEST ANNUAL MEAN			31.7
HIGHEST DAILY MEAN	403	Jan 31	8000
LOWEST DAILY MEAN	17	Aug 23	8.4
ANNUAL SEVEN-DAY MINIMUM	20	Aug 21	9.2
MAXIMUM PEAK FLOW			11000*
MAXIMUM PEAK STAGE		7.95	16.04*
INSTANTANEOUS LOW FLOW		16*	7.7
ANNUAL RUNOFF (CFSM)	1.05	.81	1.31
ANNUAL RUNOFF (INCHES)	14.28	11.01	17.87
10 PERCENT EXCEEDS	121	75	147
50 PERCENT EXCEEDS	37	31	40
90 PERCENT EXCEEDS	24	21	17

e Estimated.

* See REMARKS.

0208925200 BEAR CREEK AT MAYS STORE, NC--Continued

