

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.

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

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	16	21	22	56	40	367	27	18	14	12	26
2	21	16	20	22	52	51	246	26	17	12	11	23
3	20	15	19	27	48	137	179	25	16	12	11	22
4	20	16	19	31	47	106	149	27	16	11	11	20
5	19	17	18	30	46	85	105	36	15	13	11	19
6	21	17	18	51	44	73	81	31	16	30	e10	18
7	26	17	18	99	112	67	69	29	24	16	e10	17
8	22	17	17	78	143	62	60	26	24	14	e10	17
9	22	18	17	62	111	58	54	25	21	14	e11	17
10	21	19	17	57	91	52	96	23	18	15	11	19
11	21	19	21	54	134	43	102	22	19	24	11	22
12	20	19	20	48	121	42	77	21	16	19	12	21
13	20	20	20	109	89	61	68	21	14	17	12	20
14	20	19	19	92	80	78	61	33	18	22	12	21
15	21	18	23	83	74	66	110	25	33	29	13	24
16	20	18	27	71	69	56	94	28	19	22	16	23
17	20	17	27	60	65	52	73	25	16	18	13	22
18	20	20	27	50	60	50	56	24	15	16	13	21
19	19	19	32	44	57	47	51	34	15	15	12	19
20	20	20	31	85	56	46	72	28	15	14	14	18
21	19	20	29	81	59	48	57	25	15	14	14	17
22	19	20	25	89	58	52	49	24	16	13	14	16
23	18	20	24	133	60	47	43	22	14	14	13	16
24	19	27	24	242	52	44	39	21	13	15	13	15
25	23	31	24	174	46	41	38	20	14	18	14	14
26	22	26	24	138	44	40	45	19	13	63	14	16
27	21	23	24	114	43	45	42	18	16	29	28	17
28	19	23	23	88	41	45	41	17	17	20	20	16
29	19	22	23	74	---	42	35	17	16	16	22	15
30	18	21	22	64	---	42	29	19	14	14	22	15
31	16	---	22	59	---	74	---	20	---	13	23	---
TOTAL	627	590	695	2431	1958	1792	2588	758	513	576	433	566
MEAN	20.23	19.67	22.42	78.42	69.93	57.81	86.27	24.45	17.10	18.58	13.97	18.87
MAX	26	31	32	242	143	137	367	36	33	63	28	26
MIN	16	15	17	22	41	40	29	17	13	11	10	14
CFSM	0.35	0.34	0.39	1.36	1.21	1.00	1.50	0.42	0.30	0.32	0.24	0.33
IN.	0.40	0.38	0.45	1.57	1.26	1.16	1.67	0.49	0.33	0.37	0.28	0.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	64.48	46.90	53.71	100.8	88.19	101.1	73.17	55.55	54.89	41.55	57.06	144.1			
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 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1988 - 2002

ANNUAL TOTAL	16004	13527	
ANNUAL MEAN	43.85	37.06	73.28
HIGHEST ANNUAL MEAN			169 1999
LOWEST ANNUAL MEAN			31.7 1988
HIGHEST DAILY MEAN	455	367	8000
LOWEST DAILY MEAN	15	10	8.4
ANNUAL SEVEN-DAY MINIMUM	16	11	9.2
MAXIMUM PEAK FLOW		427	11000*
MAXIMUM PEAK STAGE		7.18	16.04*
INSTANTANEOUS LOW FLOW		NOT DETERMINED	7.7
ANNUAL RUNOFF (CFSM)	0.76	0.64	1.27
ANNUAL RUNOFF (INCHES)	10.32	8.72	17.26
10 PERCENT EXCEEDS	75	77	141
50 PERCENT EXCEEDS	28	22	38
90 PERCENT EXCEEDS	19	14	17

e Estimated.

0208925200 BEAR CREEK AT MAYS STORE, NC--Continued

