

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC

LOCATION.--Lat 35°25'36", long 82°55'11", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on State Highway 215, and 1.6 mi southwest of Retreat.

DRAINAGE AREA.--33.5 mi².

PERIOD OF RECORD.--March 1988 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994(M).

GAGE.--Water-stage recorder and crest-stage gages. Elevation of gage is 2,839 ft above NGVD of 1929, from topographic map. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some low flow regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for current water year and period of record from rating curve extended above 4,000 ft³/s on basis of computation of peak flow over dam at Lake Logan. Maximum gage-height for current water year and period of record from high-water mark at gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0015	10,400	12.13	Sep 17	0130	15,600	14.15

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supercede figures published in the reports for 1990, 1991, 1992, 1993, 1994, and 1996.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)	Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
1990	Feb. 16, 1990	4,360	6.73	1993	Nov. 22, 1992	2,820	5.44
1991	Mar. 29, 1991	4,060	6.48	1994	Aug. 17, 1994	7,020	8.97
1992	Nov. 22, 1991	3,590	6.08	1996	Oct. 10, 1995	6,560	8.58

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	62	123	91	61	83	76	87	67	88	151	59
2	43	60	112	89	79	147	69	187	55	72	120	184
3	41	57	107	88	143	143	68	126	50	98	108	80
4	40	55	117	87	90	110	71	102	52	93	89	58
5	39	195	124	148	85	109	62	94	47	69	86	49
6	39	328	102	118	830	275	61	87	45	71	85	55
7	38	154	93	93	299	160	60	81	44	55	69	3,030
8	42	117	93	93	193	130	58	78	47	48	63	3,630
9	77	100	94	92	161	120	57	111	49	52	59	869
10	104	91	533	81	144	112	54	93	46	59	56	629
11	106	85	242	78	128	105	56	76	41	89	52	538
12	77	81	172	76	167	99	76	76	44	75	64	469
13	62	77	152	74	140	94	477	278	51	82	59	425
14	59	69	228	72	127	90	160	181	45	55	50	400
15	67	68	169	70	129	102	120	122	144	46	48	380
16	55	65	149	66	118	129	106	117	88	42	48	924
17	52	64	176	66	113	101	95	122	54	47	41	3,570
18	49	137	143	124	104	105	89	107	45	66	42	e900
19	47	1,940	130	86	101	103	83	98	41	43	36	e620
20	45	352	116	70	101	95	79	117	38	38	43	e480
21	44	237	112	70	124	106	75	93	45	35	48	e400
22	42	194	109	67	100	88	71	89	54	37	37	e340
23	40	166	107	62	94	84	67	81	53	39	34	e300
24	40	204	201	62	93	83	65	77	48	39	46	e280
25	39	156	124	85	90	80	63	71	99	236	42	e250
26	140	133	113	108	88	78	186	68	124	134	35	e220
27	193	131	106	92	85	74	113	65	70	227	32	e420
28	99	255	102	72	80	73	88	59	71	94	64	e1,400
29	80	165	102	72	82	69	81	57	57	119	91	e550
30	71	138	115	69	---	76	80	78	72	484	58	e450
31	66	---	96	63	---	86	---	108	---	217	58	---
TOTAL	1,982	5,936	4,462	2,584	4,149	3,309	2,866	3,186	1,786	2,949	1,914	21,959
MEAN	63.9	198	144	83.4	143	107	95.5	103	59.5	95.1	61.7	732
MAX	193	1,940	533	148	830	275	477	278	144	484	151	3,630
MIN	38	55	93	62	61	69	54	57	38	35	32	49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	81.3	106	119	166	186	191	151	120	94.1	67.7	73.6	104					
MAX	262	265	239	314	360	309	268	244	210	209	220	732					
(WY)	(1996)	(1993)	(1993)	(1996)	(1990)	(1990)	(1994)	(2003)	(1989)	(1989)	(1994)	(2004)					
MIN	18.5	34.7	52.1	83.4	81.1	62.6	72.2	48.1	40.0	31.3	24.7	17.3					
(WY)	(1999)	(1999)	(1989)	(2004)	(2002)	(1988)	(1995)	(2001)	(1988)	(1993)	(1998)	(1998)					

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004	
ANNUAL TOTAL	50,545		57,082		123	
ANNUAL MEAN	138		156		69.4	
HIGHEST ANNUAL MEAN					157	1996
LOWEST ANNUAL MEAN					69.4	2001
HIGHEST DAILY MEAN	1,940	Nov 19	3,630	Sep 8	3,630	Sep 8, 2004
LOWEST DAILY MEAN	25	Sep 20	32	Aug 27	15	Sep 27, 1998
ANNUAL SEVEN-DAY MINIMUM	31	Sep 8	39	Aug 21	16	Sep 11, 1998
MAXIMUM PEAK FLOW			15,600*	Sep 17	15,600*	Sep 17, 2004
MAXIMUM PEAK STAGE			14.15*	Sep 17	14.15*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			20	Mar 18	12	Jul 19, 2001
10 PERCENT EXCEEDS	245		236		231	
50 PERCENT EXCEEDS	100		87		84	
90 PERCENT EXCEEDS	43		45		30	

* See REMARKS.
e Estimated.

