

Water-Data Report 2007

**02070500 MAYO RIVER NEAR PRICE, NC**

Roanoke Basin  
Upper Dan Subbasin

LOCATION.--Lat 36°32'02", long 79°59'29" referenced to North American Datum of 1983, Rockingham County, NC, Hydrologic Unit 03010103, on right bank 350 ft downstream from Anglins Bridge on Secondary Road 1358, 0.5 mi downstream from confluence of North and South Mayo Rivers, 0.8 mi downstream from Virginia-North Carolina state line, and 4.0 mi west of Price.

DRAINAGE AREA.--242 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1929 to September 1971, October 1993 to current year.

REVISED RECORDS.--WRIR 96-4154: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 689.95 ft above NGVD of 1929. Prior to Oct. 29, 1929, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for current water year also occurred on August 21.

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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	151	229	266	3,640	253	272	319	253	242	210	152	752
2	153	244	256	1,140	258	3,110	331	248	187	149	135	277
3	141	231	241	606	253	949	310	249	264	135	125	163
4	138	205	237	473	243	571	302	256	401	128	120	132
5	138	197	228	587	238	460	291	263	224	130	115	117
6	176	193	226	581	224	405	284	247	187	226	114	109
7	180	208	224	479	256	374	283	230	171	154	113	101
8	186	445	214	2,180	240	354	279	223	164	134	108	97
9	186	380	208	965	232	336	276	223	189	124	101	91
10	160	291	213	624	231	325	275	222	158	119	92	87
11	148	259	212	501	224	318	287	217	153	208	87	86
12	175	266	209	445	230	307	588	233	186	175	85	83
13	175	244	213	410	243	302	406	256	157	140	83	79
14	145	231	217	387	1,340	299	343	213	157	135	78	682
15	139	223	209	368	522	296	474	203	165	127	72	1,470
16	139	2,610	204	353	375	972	985	199	173	157	70	323
17	172	1,150	199	327	326	985	524	216	161	211	70	221
18	283	539	199	315	307	543	421	232	147	212	76	182
19	201	408	197	316	284	442	382	208	138	158	67	163
20	198	347	194	303	280	402	373	195	249	134	65	151
21	210	309	192	298	282	385	340	189	182	127	67	143
22	179	426	230	327	273	363	325	183	146	116	93	140
23	168	610	532	316	255	349	311	181	139	113	113	150
24	158	422	344	295	252	339	302	178	133	137	94	134
25	154	353	474	286	278	330	297	173	138	367	87	126
26	153	320	734	274	344	321	284	170	149	280	78	122
27	172	299	437	272	289	314	311	185	137	186	82	117
28	813	284	350	271	271	313	298	167	141	180	82	110
29	434	272	312	261	---	377	274	162	145	162	73	99
30	293	266	291	256	---	362	262	159	166	197	97	95
31	250	---	285	256	---	327	---	158	---	184	156	---
<b>Total</b>	6,368	12,461	8,547	18,112	8,803	15,802	10,737	6,491	5,349	5,215	2,950	6,602
<b>Mean</b>	205	415	276	584	314	510	358	209	178	168	95.2	220
<b>Max</b>	813	2,610	734	3,640	1,340	3,110	985	263	401	367	156	1,470
<b>Min</b>	138	193	192	256	224	272	262	158	133	113	65	79
<b>Cfsm</b>	0.85	1.72	1.14	2.41	1.30	2.11	1.48	0.87	0.74	0.70	0.39	0.91
<b>In.</b>	0.98	1.92	1.31	2.78	1.35	2.43	1.65	1.00	0.82	0.80	0.45	1.01

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2007<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	269	252	296	360	387	425	394	318	298	259	256	254
<b>Max</b>	1,250	578	661	1,022	900	982	764	659	1,018	799	943	1,002
<b>(WY)</b>	(1938)	(1958)	(1997)	(1936)	(1960)	(1994)	(2003)	(1949)	(2003)	(2003)	(1940)	(1945)
<b>Min</b>	84.5	95.9	118	112	139	221	164	157	78.6	77.3	47.5	62.0
<b>(WY)</b>	(1932)	(1932)	(1956)	(1956)	(1931)	(1940)	(2002)	(1956)	(2002)	(2002)	(2002)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1929 - 2007 <sup>a</sup>	
<b>Annual total</b>	92,752		107,437			
<b>Annual mean</b>	254		294		314	
<b>Highest annual mean</b>					547	2003
<b>Lowest annual mean</b>					136	2002
<b>Highest daily mean</b>	2,610	Nov 16	3,640	Jan 1	11,400	Sep 18, 1945
<b>Lowest daily mean</b>	72	Aug 28	65	Aug 20	33	Aug 11, 2002
<b>Annual seven-day minimum</b>	87	Aug 23	70	Aug 15	33	Aug 10, 2002
<b>Maximum peak flow</b>			6,890	Jan 1	30,000	Oct 19, 1937
<b>Maximum peak stage</b>			7.28	Jan 1	14.00	Oct 19, 1937
<b>Instantaneous low flow</b>			<sup>b</sup> 63	Aug 20	32	Oct 8, 1954
<b>Annual runoff (cfsm)</b>	1.05		1.22		1.30	
<b>Annual runoff (inches)</b>	14.26		16.52		17.61	
<b>10 percent exceeds</b>	396		445		500	
<b>50 percent exceeds</b>	207		229		236	
<b>90 percent exceeds</b>	119		114		124	

<sup>a</sup> See Period of Record.

<sup>b</sup> See Remarks.

