

## TENNESSEE RIVER BASIN

03475000 MIDDLE FORK HOLSTON RIVER NEAR MEADOWVIEW, VA

LOCATION.--Lat 36°42'47", long 81°49'08", Washington County, Hydrologic Unit 06010102, on left bank 48 ft downstream from bridge on State Highway 803, 0.9 mi upstream from Cedar Creek, 4.1 mi southeast of Meadowview, and at mile 13.2.

DRAINAGE AREA.--211 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1931 to September 1953, May 1976 to current year. Monthly discharge only for October 1931, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1276: 1932-34.

GAGE.--Water-stage recorder. Datum of gage is 1,820.22 ft above sea level.

REMARKS.--Records good except for period with ice effect, Jan. 6, which is fair. Prior to 1954, flow regulated by powerplant 0.9 mi upstream from station. Maximum discharge, 12,500 ft<sup>3</sup>/s, from rating curve extended above 12,000 ft<sup>3</sup>/s. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 29, 1957, reached a stage of 11.8 ft, from floodmark, discharge, 10,000 ft<sup>3</sup>/s, and flood of Dec. 10, 1972, reached a stage of 11.0 ft, from floodmark, discharge, 8,540 ft<sup>3</sup>/s, from information by Tennessee Valley Authority. Flood of Mar. 30, 1975, reached a stage of 10.37 ft, discharge, 7,410 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 15	1415	*1,380	*4.84	No peak greater than base discharge.			

Minimum discharge, 53 ft<sup>3</sup>/s, Sep 16-17, 24-26, gage height, 1.95 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	71	63	83	164	542	173	390	101	79	228	58
2	73	70	60	80	169	417	168	305	97	73	187	57
3	70	71	60	168	170	377	157	250	101	71	140	56
4	89	76	60	203	166	456	151	215	95	70	118	55
5	96	74	62	164	160	400	145	192	92	69	108	64
6	77	71	67	e130	149	486	138	191	88	64	98	116
7	73	70	65	117	148	552	135	180	87	62	90	89
8	96	71	79	104	160	457	133	509	85	62	87	71
9	103	71	166	178	151	379	133	539	83	60	87	66
10	84	71	113	336	149	351	132	356	81	69	82	67
11	77	74	86	208	140	302	172	269	80	136	78	64
12	74	78	78	157	137	270	233	221	78	173	76	60
13	71	73	154	134	142	251	210	199	76	202	73	60
14	71	72	187	130	130	254	190	534	76	119	129	58
15	70	72	124	844	123	329	194	728	75	97	112	57
16	70	70	97	577	122	411	221	401	79	85	88	55
17	69	69	88	312	127	585	208	288	87	96	77	55
18	69	67	82	252	260	545	194	232	81	85	73	55
19	70	66	75	250	387	460	178	216	75	83	70	56
20	70	68	73	219	377	375	167	187	73	93	79	57
21	70	70	71	192	308	329	156	161	72	108	78	56
22	69	69	84	169	261	295	147	153	72	120	71	57
23	68	67	118	212	228	258	143	155	72	111	70	56
24	69	65	159	817	206	239	143	142	76	176	67	55
25	70	64	157	738	194	224	138	136	77	340	71	55
26	70	74	121	424	185	207	142	128	77	220	79	55
27	69	78	102	303	186	195	169	122	75	147	73	57
28	70	67	93	249	297	185	412	117	85	124	68	62
29	77	65	87	213	---	177	525	112	94	143	65	68
30	75	64	90	186	---	167	463	107	93	200	63	117
31	73	---	89	166	---	160	---	103	---	203	59	---
TOTAL	2334	2108	3010	8315	5396	10635	5870	7838	2483	3740	2844	1914
MEAN	75.3	70.3	97.1	268	193	343	196	253	82.8	121	91.7	63.8
MAX	103	78	187	844	387	585	525	728	101	340	228	117
MIN	68	64	60	80	122	160	132	103	72	60	59	55
CFSM	.36	.33	.46	1.27	.91	1.63	.93	1.20	.39	.57	.43	.30
IN.	.41	.37	.53	1.47	.95	1.87	1.03	1.38	.44	.66	.50	.34

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1953, 1976 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	112	131	211	350	457	458	355	302	192	143	144	97.1
MAX	479	739	526	731	1050	899	1158	677	485	420	649	357
(WY)	1977	1978	1943	1996	1994	1993	1987	1990	1981	1938	1940	1989
MIN	45.3	44.3	49.9	52.6	64.0	114	98.3	74.2	61.5	55.5	50.5	50.0
(WY)	1934	1942	1940	1940	1934	1988	1942	1941	1988	1988	1988	1952

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1932 - 1953  
1976 - 1999

ANNUAL TOTAL		106212		56487								
ANNUAL MEAN		291		155						245		
HIGHEST ANNUAL MEAN										356		1990
LOWEST ANNUAL MEAN										105		1941
HIGHEST DAILY MEAN			2600	Mar 21		844	Jan 15		8220	Apr 5		1977
LOWEST DAILY MEAN			60	aDec 2		55	bSep 4		c7.0	Nov 19		1950
ANNUAL SEVEN-DAY MINIMUM			62	Nov 29		56	Sep 15		38	Oct 25		1952
INSTANTANEOUS PEAK FLOW						1380	Jan 15		12500	Nov 7		1977
INSTANTANEOUS PEAK STAGE						4.84	Jan 15		13.41	Nov 7		1977
INSTANTANEOUS LOW FLOW						53	dSep 16		c6.0	fNov 10		1933
ANNUAL RUNOFF (CFSM)		1.38				.73			1.16			
ANNUAL RUNOFF (INCHES)		18.73				9.96			15.80			
10 PERCENT EXCEEDS		624				319			496			
50 PERCENT EXCEEDS		172				103			146			
90 PERCENT EXCEEDS		70				65			62			

- a Also Dec 3, 4, 1998.
- b Also Sep 16-18, 24-26, 1999.
- c Flow was regulated by powerplant.
- d Also Sep 17, 24-26, 1999.
- e Estimated.
- f Also Dec 4, 1936, Jan 21, 22, Feb 1, 1940, Jan 8, 1942, and Oct 15, 16, 31, 1943.

