

KANAWHA RIVER BASIN

03164000 NEW RIVER NEAR GALAX, VA

LOCATION.--Lat 36°38'50", long 80°58'45", Grayson County, Hydrologic Unit 05050001, on left bank at upstream side of bridge on State Highway 94, 500 ft downstream from Meadow Creek, 1.2 mi southwest of Old Town, 3.1 mi southwest of Galax, and 3.6 mi downstream from Elk Creek.

DRAINAGE AREA.--1,131 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 758: Drainage area, 1933(M). WSP 893: 1930(M), 1935(M).

GAGE.--Water-stage recorder. Datum of gage is 2,208.04 ft above sea level.

REMARKS.--Records good except for period with ice effect, Jan. 1-16, which is fair. American Electric Power gage-height transmitter at station, recorder at Roanoke. National Weather Service gage-height telemeter at station. U.S. Army Corps of Engineers satellite precipitation and gage-height telemeter at station. Maximum discharge, 141,000 ft<sup>3</sup>/s, from rating curve extended above 32,000 ft<sup>3</sup>/s on basis of computation of peak flow over dam at Fries 6 mi downstream and slope-area measurement of peak flow. Minimum discharge, 193 ft<sup>3</sup>/s, Jan. 9, 1956, gage height, 0.52 ft, result of freezeup. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 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 5	0300	9,190	3.97	Jan 10	1830	*13,400	*4.97

Minimum discharge, 399 ft<sup>3</sup>/s, Aug 19-20, gage height, 0.69 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	676	606	594	e720	1310	2320	1320	3830	802	944	899	503
2	639	601	598	e600	2050	2310	1710	2900	794	823	841	485
3	591	607	597	e900	2370	2080	1560	2220	795	780	785	470
4	597	615	602	e1300	1940	2580	1310	1830	876	934	713	457
5	624	622	610	e1100	1640	2330	1190	1610	814	864	632	555
6	648	613	624	e960	1450	2210	1120	1500	763	737	565	1190
7	663	599	624	e900	1340	2410	1090	1520	734	673	529	1130
8	1910	587	650	e940	1300	2340	1040	1850	715	994	504	770
9	1510	600	816	e1200	1250	2100	1020	2400	697	1020	493	668
10	1140	614	828	e1900	1190	1980	1020	1910	673	794	498	589
11	823	708	728	e2000	1170	1850	1090	1600	705	816	509	533
12	732	838	685	e1500	1100	1700	1260	1430	740	1200	480	505
13	690	841	2010	e1450	1090	1570	1120	1360	819	2280	462	487
14	663	733	3850	e1400	1010	1620	1030	2270	722	2110	463	473
15	648	671	1660	e1700	951	2050	1110	2220	663	1320	471	472
16	635	644	1050	e3500	950	2260	1610	1780	661	1080	492	471
17	629	640	882	2440	973	2160	1500	1460	776	993	482	460
18	623	628	807	1850	1570	2180	1290	1360	957	951	435	455
19	624	623	761	1810	2100	2280	1180	2540	836	951	410	450
20	622	618	754	1640	1900	2180	1130	1900	712	914	632	449
21	615	617	775	1420	1660	2120	1090	1530	692	790	1160	456
22	609	613	782	1270	1510	2100	1030	1280	704	790	704	473
23	594	619	743	1750	1330	1900	971	1190	679	836	556	492
24	595	617	866	6830	1270	1740	953	1120	659	746	550	465
25	603	609	1190	5610	1240	1640	968	1060	660	859	633	446
26	603	617	1190	3500	1220	1520	955	1020	844	971	1670	436
27	610	625	972	2490	1180	1420	1110	971	983	842	1330	461
28	610	627	876	1970	1320	1330	1790	925	1090	724	826	691
29	615	616	848	1670	---	1250	2880	887	1120	755	650	1150
30	614	602	820	1470	---	1180	3620	853	877	805	577	1930
31	612	---	792	1310	---	1120	---	831	---	824	533	---
TOTAL	22367	19170	29584	59100	39384	59830	40067	51157	23562	30120	20484	18572
MEAN	722	639	954	1906	1407	1930	1336	1650	785	972	661	619
MAX	1910	841	3850	6830	2370	2580	3620	3830	1120	2280	1670	1930
MIN	591	587	594	600	950	1120	953	831	659	673	410	436
CFSM	.64	.56	.84	1.69	1.24	1.71	1.18	1.46	.69	.86	.58	.55
IN.	.74	.63	.97	1.94	1.30	1.97	1.32	1.68	.77	.99	.67	.61

03164000 NEW RIVER NEAR GALAX, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1398	1628	1822	2245	2612	2917	2640	2157	1706	1375	1372	1235
MAX	3625	7189	4005	5744	5566	5827	6345	4469	5280	4017	8148	4827
(WY)	1977	1978	1962	1995	1998	1993	1987	1973	1992	1949	1940	1989
MIN	435	504	592	568	630	958	1017	811	614	426	453	381
(WY)	1954	1954	1956	1956	1934	1988	1942	1941	1988	1930	1988	1954

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1930 - 1999
ANNUAL TOTAL	889710	413397	
ANNUAL MEAN	2438	1133	1922
HIGHEST ANNUAL MEAN			2807
LOWEST ANNUAL MEAN			1034
HIGHEST DAILY MEAN	18300	Apr 20	6830
LOWEST DAILY MEAN	587	aSep 29	410
ANNUAL SEVEN-DAY MINIMUM	603	Nov 29	459
INSTANTANEOUS PEAK FLOW			8040
INSTANTANEOUS PEAK STAGE			3.66
INSTANTANEOUS LOW FLOW			399
ANNUAL RUNOFF (CFSM)	2.16	1.00	1.70
ANNUAL RUNOFF (INCHES)	29.26	13.60	23.09
10 PERCENT EXCEEDS	4920	2060	3460
50 PERCENT EXCEEDS	1540	887	1460
90 PERCENT EXCEEDS	616	553	670

- a Also Nov 8, 1998.
- b From floodmark.
- c Also Aug 20, 1999.
- d Result of freezeup.
- e Estimated.

