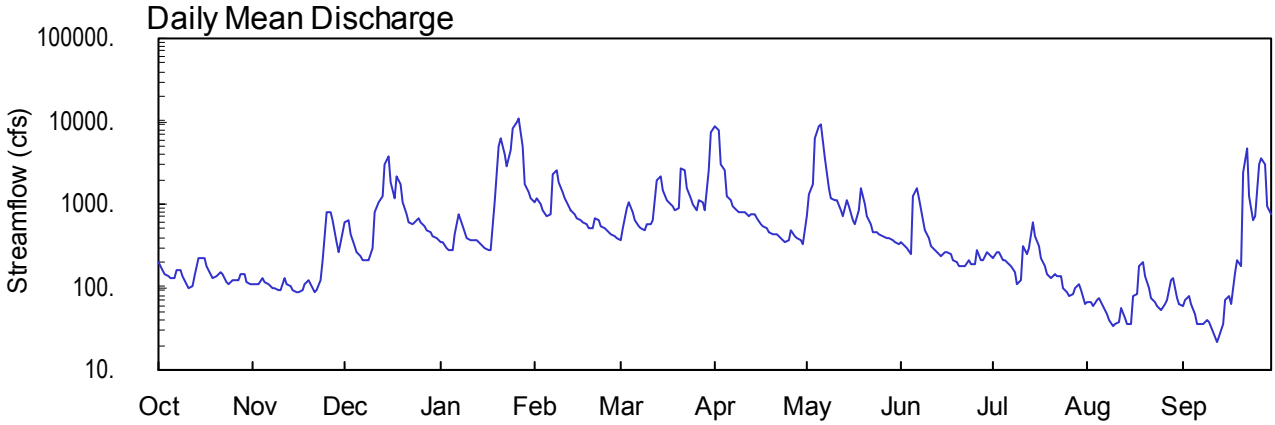
MOBILE RIVER BASIN

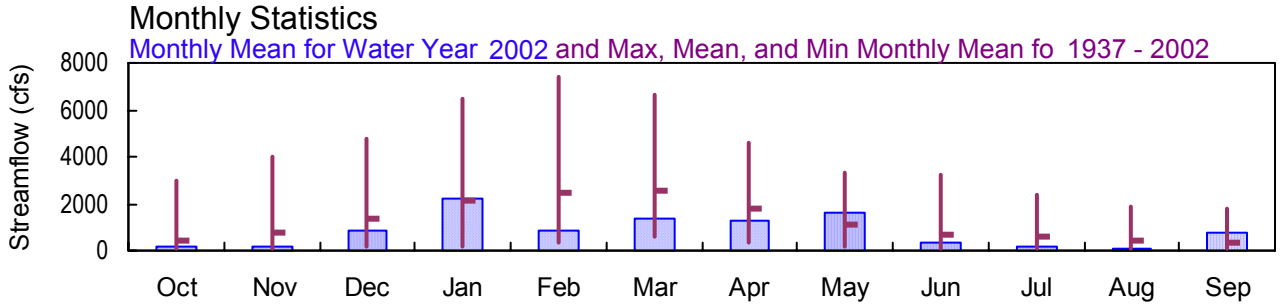
2002 Water Year

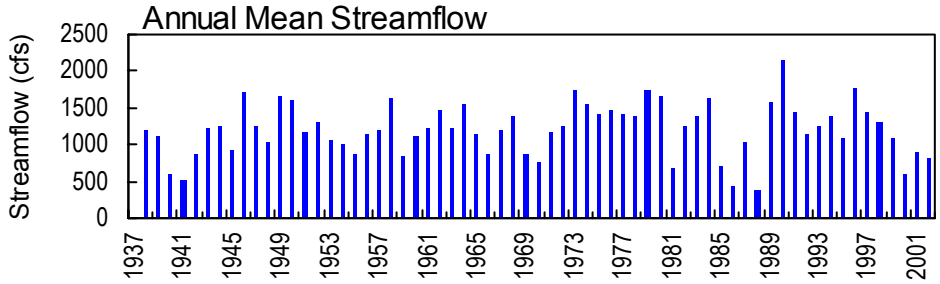
02387000 CONASAUGA RIVER AT TILTON, GA

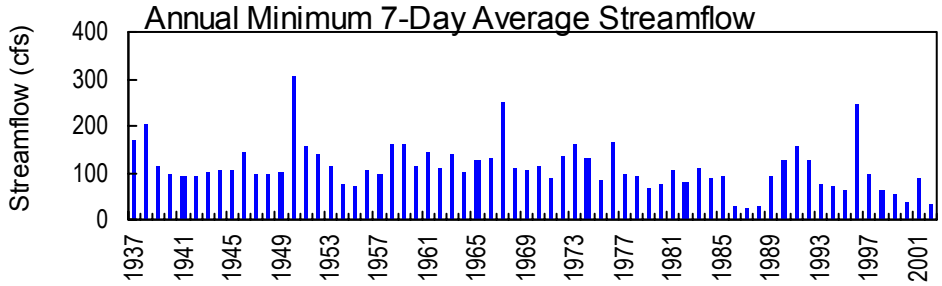
Latitude: 34°40'00" Longitude: 84°55'42" Hydrologic Unit Code: 03150101 Whitfield County

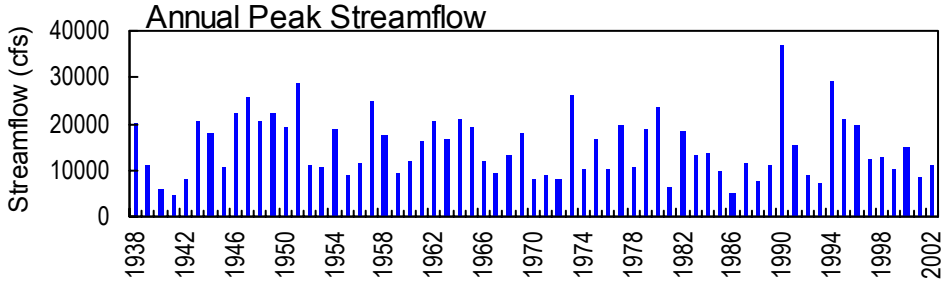
Drainage Area: 687. mi^2 Datum: 622.28 feet











USGS 02387000 Conasauga River at Tilton, GA

02387000 CONASAUGA RIVER AT TILTON, GA

LOCATION.—Lat 34°40'00", long 84°55'42" referenced to North American Datum (NAD) of 1927, Whitfield-Murray County line, Hydrologic Unit 03150101, on left bank 250.0 feet downstream from Tilton Road Bridge, 0.2 miles downstream from Swamp Creek, 0.5 miles northeast of Tilton, and 12.0 miles upstream from confluence with Coosawattee River.

DRAINAGE AREA.—687 mi^2.

COOPERATION.—U.S. Army Corps of Engineers, Mobile District; Georgia Environmental Protection Division.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—June 1937 to current year.

REVISED RECORDS.—WRD GA-80-1: Drainage area.

GAGE.—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 622.28 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by Corps of Engineers). Prior to August 24, 1940, a non-recording gage was located at site 150 feet upstream at same datum. Since October 1, 1979, an auxiliary water-stage recorder was located at Sloan Road Bridge, 3.2 miles downstream. A water-stage recorder on Oostanaula River at Resaca was used as auxiliary gage during 1961-79 water years.

REMARKS.—Records good, except for periods of estimated data, which are fair. Flow affected by withdrawals and return flow by the City of Dalton.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 14,000 ft^3/s and maximum (*):

DATE	TIME	DISCHARGE (ft^3/s)	GAGE-HEIGHT (ft)
Jan. 21	1200	6,720	13.53
Jan. 27	0400	11,000*	18.77*
Apr. 1	1530	9,020	16.89
May 6	1030	9.480	17.20
Sep. 22	1000	5,450	11.81

02387000 CONASAUGA RIVER AT TILTON, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.—June 1937 to current year.

GAGE.—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 622.28 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by Corps of Engineers). Prior to August 24, 1940, a non-recording gage was located at site 150 feet upstream at same datum. Since October 1, 1979, an auxiliary water-stage recorder was located at Sloan Road Bridge, 3.2 miles downstream. A water-stage recorder on Oostanaula River at Resaca was used as auxiliary gage during 1961-79 water years.

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 18.89 feet, January 27; minimum gage-height recorded, 2.08 feet, September 12.

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 02387000 CONASAUGA RIVER AT TILTON, GA SOURCE AGENCY USGS STATE 13 COUNTY 313
LATITUDE 344000 LONGITUDE 0845542 NAD27 DRAINAGE AREA 687.00 CONTRIBUTING DRAINAGE AREA 687* DATUM 622.28 NGVD29
Date Processed: 2003-03-11 13:19 By acday
APPROVED
DD #2, DCP

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	203	108	613	357	1080	370	e8700	721	357	227	66	59
2	160	106	639	343	1200	514	e8000	1350	316	266	66	68
3	146	108	435	302	999	899	e3000	1710	292	267	60	77
4	133	e127	314	282	830	1040	e2500	6070	252	211	70	62
5	127	e118	264	276	735	810	e1270	8570	1230	215	73	47
6	129	e109	236	426	772	635	1110	9150	1580	187	59	35
7	163	e100	214	757	2250	558	965	3680	1170	178	47	36
8	156	97	206	635	2560	509	853	1530	653	151	41	35
9	133	94	209	464	1820	496	804	1170	482	111	34	41
10	108	92	293	389	1390	587	817	1100	379	124	35	38
11	97	125	812	372	1160	568	808	1100	317	316	38	28
12	102	110	1080	363	967	638	734	859	281	248	57	22
13	139	103	1230	368	835	1930	771	736	255	293	43	26
14	225	94	3040	351	743	2120	742	1120	240	617	35	35
15	224	88	3760	309	672	1510	664	922	271	409	35	71
16	224	85	1880	290	641	1110	581	e650	267	306	80	80
17	181	92	1160	282	612	1050	529	559	247	223	81	63
18	142	111	e2160	274	560	970	505	830	213	176	176	149
19	129	123	1710	1030	501	856	467	e1550	195	141	198	211
20	137	106	1040	5080	526	911	445	1010	180	131	138	183
21	152	88	749	6300	680	e2680	447	702	178	142	98	2380
22	146	94	613	3930	631	2630	415	581	184	135	74	4840
23	117	122	562	2840	540	1600	366	e470	208	132	66	1260
24	107	213	615	4520	502	1190	341	e453	194	97	58	638
25	119	816	672	8220	466	984	360	e430	192	86	52	707
26	124	801	605	9780	427	857	486	e420	275	79	63	e3000
27	120	626	533	10700	415	1120	419	394	215	81	68	e3500
28	147	357	482	5010	397	1050	389	396	215	100	122	e3000
29	145	268	453	1780	---	831	375	376	271	106	129	e930
30	114	470	421	1420	---	2540	329	356	245	94	74	e738
31	106	---	390	1170	---	e7500	---	325	---	62	64	---
TOTAL	4455	5951	27390	68620	24911	41063	38192	49290	11354	5911	2300	22359
MEAN	144	198	884	2214	890	1325	1273	1590	378	191	74.2	745
MAX	225	816	3760	10700	2560	7500	8700	9150	1580	617	198	4840
MIN	97	85	206	274	397	370	329	325	178	62	34	22
CFSM	0.21	0.29	1.29	3.22	1.30	1.93	1.85	2.31	0.55	0.28	0.11	1.08
IN.	0.24	0.32	1.48	3.72	1.35	2.22	2.07	2.67	0.61	0.32	0.12	1.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2002, BY WATER YEAR (WY)

MEAN	419	792	1328	2115	2476	2529	1758	1064	671	591	390	381
MAX	2996	4022	4761	6499	7419	6672	4596	3308	3203	2347	1899	1763
(WY)	1990	1958	1962	1947	1990	1980	1977	1984	1989	1967	1967	1975
MIN	77.3	112	141	176	356	592	308	211	54.0	111	57.1	66.3
(WY)	1988	1979	2000	1981	1941	1988	1986	1986	1988	1988	2000	1987

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1937 - 2002	
ANNUAL TOTAL	324385		301796			
ANNUAL MEAN	889		827		1203	
HIGHEST ANNUAL MEAN					2147	1990
LOWEST ANNUAL MEAN					392	1988
HIGHEST DAILY MEAN	8330	Mar 22	10700	Jan 27	32800	Feb 18 1990
LOWEST DAILY MEAN	85	Nov 16	22	Sep 12	12	Jul 24 1986
ANNUAL SEVEN-DAY MINIMUM	98	Nov 12	32	Sep 8	24	Aug 29 1987
MAXIMUM PEAK FLOW			11000	Jan 27	36800	Feb 17 1990
MAXIMUM PEAK STAGE			18.89	Jan 27	30.20	Mar 30 1951
ANNUAL RUNOFF (CFSM)	1.29		1.20		1.75	
ANNUAL RUNOFF (INCHES)	17.56		16.34		23.80	
10 PERCENT EXCEEDS	1890		1740		2790	
50 PERCENT EXCEEDS	478		360		541	
90 PERCENT EXCEEDS	131		72		142	

e Estimated

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LATITUDE 344000 LONGITUDE 0845542 NAD27 DRAINAGE AREA 687.00 CONTRIBUTING DRAINAGE AREA 687* DATUM 622.28 NGVD29
Date Processed: 2003-03-11 13:19 By acday
APPROVED
DD #8, DCP
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.80	2.50	3.83	3.23	4.77	3.27	---	4.03	3.23	2.88	2.33	2.30
2	2.67	2.49	3.89	3.20	5.00	3.60	---	5.28	3.13	2.99	2.33	2.34
3	2.63	2.50	3.43	3.09	4.62	4.43	---	5.92	3.06	2.99	2.31	2.38
4	2.58	---	3.12	3.03	4.29	4.70	---	12.57	2.95	2.83	2.35	2.31
5	2.56	---	2.98	3.02	4.10	4.25	---	16.08	4.96	2.84	2.37	2.23
6	2.57	---	2.90	3.39	4.16	3.88	4.84	16.95	5.70	2.76	2.30	2.16
7	2.68	---	2.84	4.14	6.87	3.71	4.56	9.75	4.93	2.73	2.23	2.17
8	2.66	2.46	2.81	3.88	7.40	3.60	4.34	5.63	3.92	2.64	2.20	2.16
9	2.58	2.45	2.82	3.50	6.13	3.57	4.24	4.95	3.54	2.51	2.16	2.20
10	2.50	2.44	3.05	3.32	5.36	3.78	4.26	4.82	3.29	2.55	2.16	2.19
11	2.46	2.56	4.25	3.27	4.93	3.74	4.24	4.81	3.13	3.12	2.18	2.12
12	2.48	2.51	4.78	3.25	4.56	3.88	4.09	4.35	3.03	2.93	2.29	2.08
13	2.60	2.48	5.03	3.26	4.30	6.32	4.17	4.10	2.96	3.04	2.21	2.11
14	2.87	2.45	8.16	3.22	4.11	6.66	4.11	4.85	2.92	3.84	2.16	2.16
15	2.87	2.43	9.31	3.11	3.96	5.58	3.94	4.47	3.00	3.36	2.14	2.35
16	2.87	2.42	6.23	3.05	3.90	4.83	3.77	---	2.99	3.10	2.40	2.39
17	2.74	2.44	4.92	3.03	3.83	4.72	3.65	3.72	2.94	2.86	2.40	2.32
18	2.61	2.51	---	3.01	3.72	4.57	3.59	4.28	2.83	2.72	2.71	2.63
19	2.57	2.55	5.94	4.49	3.58	4.34	3.51	---	2.78	2.61	2.79	2.83
20	2.60	2.49	4.70	11.27	3.64	4.45	3.45	4.64	2.73	2.58	2.60	2.74
21	2.65	2.43	4.12	13.08	3.98	---	3.46	4.02	2.73	2.61	2.46	6.91
22	2.63	2.45	3.84	9.67	3.87	7.52	3.38	3.76	2.75	2.59	2.37	10.91
23	2.53	2.55	3.72	7.86	3.67	5.74	3.26	---	2.82	2.58	2.33	5.10
24	2.50	2.83	3.84	10.42	3.59	4.97	3.19	---	2.78	2.46	2.29	3.88
25	2.54	4.24	3.96	15.95	3.50	4.59	3.24	---	2.77	2.42	2.26	3.98
26	2.55	4.23	3.82	17.82	3.41	4.34	3.55	---	3.01	2.39	2.32	---
27	2.54	3.86	3.66	18.69	3.38	4.86	3.39	3.33	2.88	2.40	2.34	---
28	2.63	3.23	3.54	12.38	3.34	4.72	3.31	3.33	2.84	2.47	2.53	---
29	2.62	2.99	3.47	6.08	---	4.29	3.28	3.28	3.00	2.49	2.57	---
30	2.52	3.50	3.39	5.41	---	7.18	3.16	3.23	2.93	2.45	2.37	---
31	2.49	---	3.32	4.95	---	---	---	3.15	---	2.31	2.33	---
MEAN	2.62	---	---	6.36	4.36	---	---	---	3.22	2.74	2.35	---
MAX	2.87	---	---	18.69	7.40	---	---	---	5.70	3.84	2.79	---
MIN	2.46	---	---	3.01	3.34	---	---	---	2.73	2.31	2.14	---