



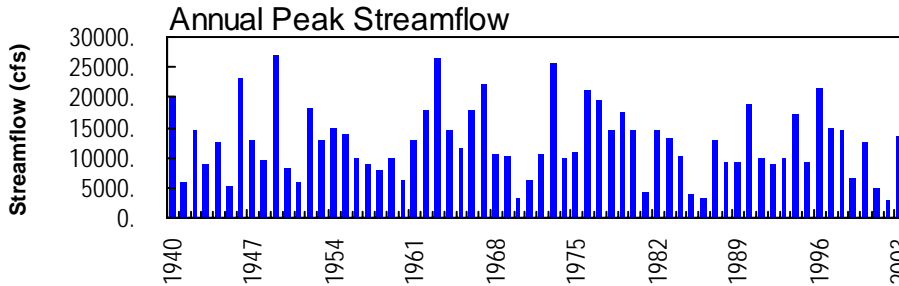
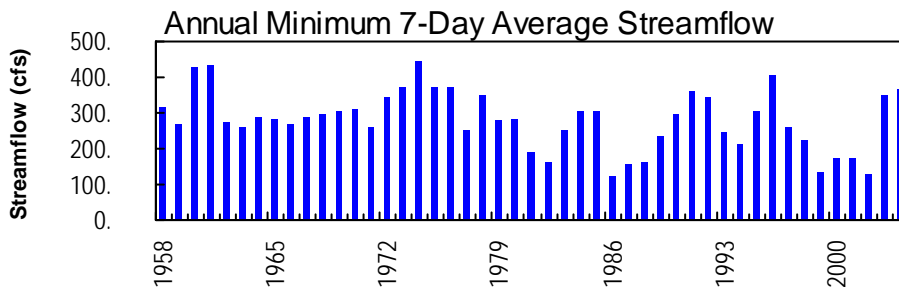
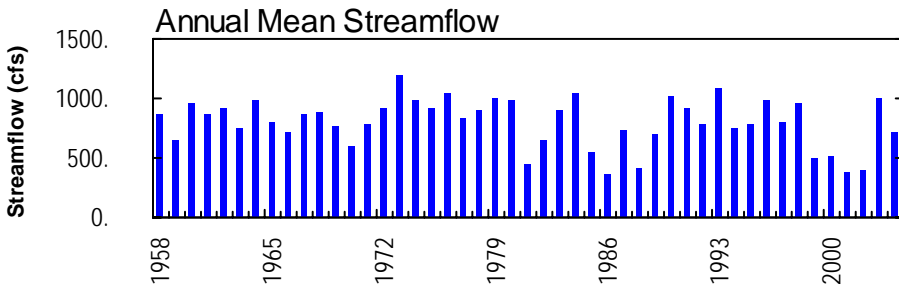
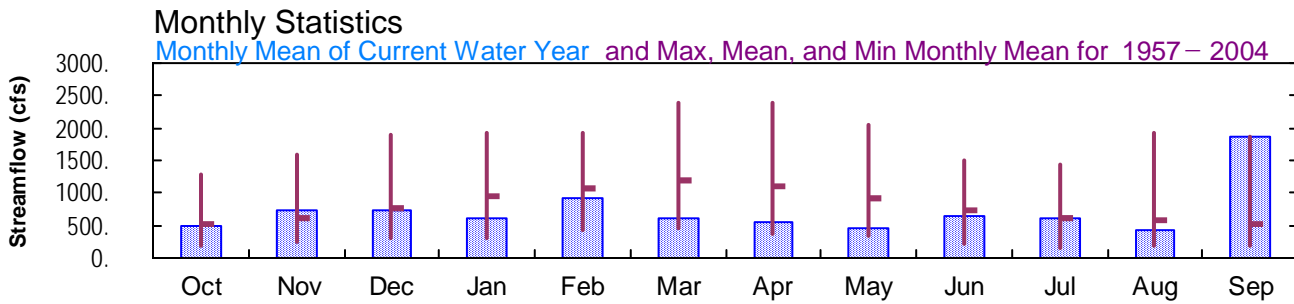
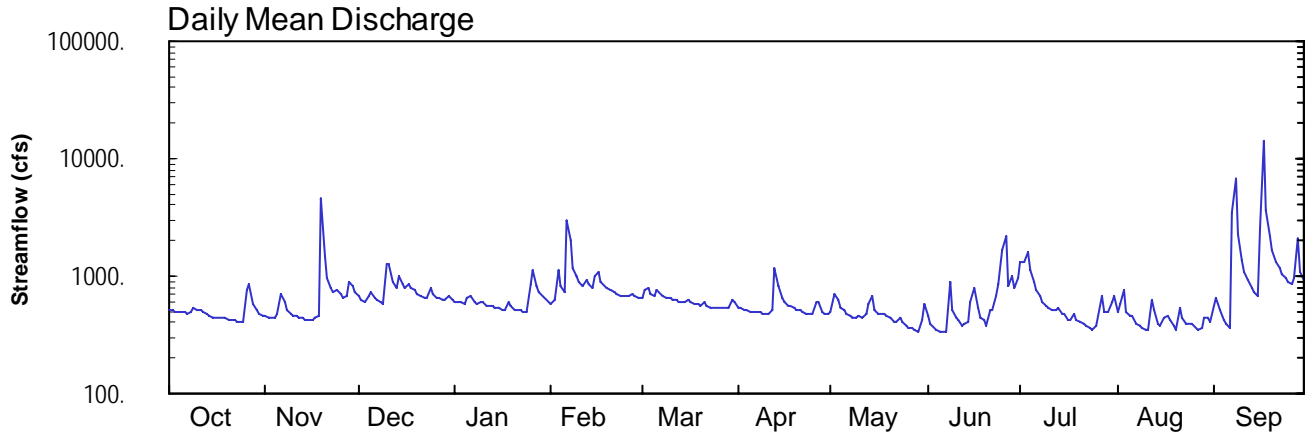
# 2004 Water Year APALACHICOLA RIVER BASIN

## 02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA

Latitude: 34° 32' 26"  
Habersham County

Longitude: 083° 37' 21"  
Datum: 1128.53 feet

Hydrologic Unit Code: 03130001  
Drainage Area: 315. mi<sup>2</sup>



**APALACHICOLA RIVER BASIN  
2004 Water Year**

**02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA**

**LOCATION.**—Lat 34°32'27", long 83°37'14" referenced to North American Datum (NAD) of 1983, Habersham-White County line, Hydrologic Unit 03130001, on downstream side of bridge on Duncan Bridge Road (GA 384), 1.0 mile downstream from Soque River, 6.0 miles northwest of Cornelia, and at mile 401.4.

**DRAINAGE AREA.**—315 square miles.

**COOPERATION.**—U.S. Army Corps of Engineers, Mobile District.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—August 1957 to current year.

**REVISED RECORDS.**—WSP 2106: 1963(M).

**GAGE.**—Satellite telemetry with a water-stage recorder. Datum of gage is 1,128.53 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by U.S. Army Corps of Engineers). Prior to June 28, 1977 and after June 16, 1992 to October 25, 1994, located at a site 1,000 feet upstream at same datum.

**REMARKS.**—Records good, except for periods of estimated discharge, which are poor. Some regulation at low flow occurs from Habersham Mill power plant.

**PEAK DISCHARGES FOR CURRENT YEAR.**—Peak discharges greater than base discharge of 6,200 cfs and maximum (\*):

DATE	TIME	DISCHARGE (cfs)	GAGE-HEIGHT (feet)
11/19	0830	8,740	8.32
02/06	1645	6,720	6.86
06/25	2245	7,140	7.18
09/08	0745	8,520	8.17
09/17	0500	19,900*	15.72*

**APALACHICOLA RIVER BASIN  
2004 Water Year**

**02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA—continued.**

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—August 1957 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder. Datum of gage is 1,128.53 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by U.S. Army Corps of Engineers). Prior to June 28, 1977 and from June 16, 1992 to October 25, 1994, located at a site 1,000 feet upstream at same datum.

**REMARKS.**—Records good.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 15.72 feet, September 17; minimum gage-height recorded, 0.73 feet, July 24, August 27.

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—April 16, 2001 to current year.

**GAGE.**—Tipping-bucket raingage.

**REMARKS.**—Records good.

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

STATION NUMBER 02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 137  
 LATITUDE 343226.6 LONGITUDE 0833721.99 NAD83 DRAINAGE AREA 315 CONTRIBUTING DRAINAGE AREA 315\* DATUM 1128.53 NGVD29

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	525	453	679	607	586	645	544	502	467	1320	495	553
2	514	446	637	599	625	771	526	691	387	1310	574	654
3	493	437	610	594	1140	791	521	631	359	1620	772	510
4	496	434	e680	589	812	711	508	535	351	1130	501	430
5	493	473	e720	657	733	682	493	507	334	904	465	391
6	489	698	653	672	2980	747	488	482	329	747	453	366
7	477	591	616	600	2000	717	490	461	330	667	391	3430
8	498	513	595	589	1190	669	489	444	893	612	373	6710
9	536	482	580	603	982	651	483	438	515	564	358	2260
10	517	458	1270	590	883	653	470	451	436	533	354	1390
11	507	452	1260	567	822	629	485	444	424	512	351	1070
12	500	447	890	559	923	618	512	472	e380	524	632	916
13	475	438	788	552	842	606	1160	570	e390	544	506	797
14	464	418	990	543	795	603	811	670	e400	467	399	731
15	449	421	858	538	990	604	652	516	596	469	372	678
16	435	422	778	524	1070	626	599	470	791	432	449	2540
17	439	442	869	519	876	600	566	484	539	426	456	14100
18	442	457	789	601	817	579	548	471	448	485	428	3580
19	436	4650	754	562	777	577	528	461	420	427	373	2170
20	428	1460	703	524	751	560	519	446	381	401	355	1630
21	426	975	674	513	738	593	506	414	520	385	536	1310
22	418	797	663	508	704	550	493	406	519	373	433	1160
23	410	719	659	497	689	537	480	433	671	360	394	1050
24	410	755	799	497	685	536	475	414	840	349	395	975
25	408	717	696	865	673	535	471	379	1680	382	400	907
26	770	649	661	1120	681	534	611	368	2160	459	361	860
27	840	664	639	831	698	532	601	356	830	684	347	963
28	579	906	628	731	672	531	498	345	985	488	369	2080
29	518	837	615	669	652	527	477	341	782	490	442	1090
30	481	728	679	639	---	634	479	419	955	612	441	934
31	461	---	627	607	---	596	---	577	---	672	400	---
TOTAL	15334	22339	23059	19066	26786	19144	16483	14598	19112	19348	13575	56235
MEAN	495	745	744	615	924	618	549	471	637	624	438	1874
MAX	840	4650	1270	1120	2980	791	1160	691	2160	1620	772	14100
MIN	408	418	580	497	586	527	470	341	329	349	347	366
CFSM	1.57	2.36	2.36	1.95	2.93	1.96	1.74	1.49	2.02	1.98	1.39	5.95
IN.	1.81	2.64	2.72	2.25	3.16	2.26	1.95	1.72	2.26	2.28	1.60	6.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

	536	607	777	951	1072	1207	1116	913	729	611	582	515
MEAN	536	607	777	951	1072	1207	1116	913	729	611	582	515
MAX	1287	1602	1909	1938	1917	2376	2385	2043	1487	1426	1926	1874
(WY)	1990	1993	1962	1993	1998	1980	1964	1973	1973	2003	1967	2004
MIN	184	243	310	293	426	449	368	324	227	166	179	184
(WY)	2001	2002	1966	1981	1986	1988	1986	1986	1986	1986	1986	1999

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1957 - 2004

ANNUAL TOTAL	349788	265079	
ANNUAL MEAN	958	724	800
HIGHEST ANNUAL MEAN			1198
LOWEST ANNUAL MEAN			370
HIGHEST DAILY MEAN	7660	Jul 2	14100
LOWEST DAILY MEAN	408	Oct 25	329
ANNUAL SEVEN-DAY MINIMUM	419	Oct 19	365
MAXIMUM PEAK FLOW			19900
MAXIMUM PEAK STAGE			15.72
ANNUAL RUNOFF (CFSM)	3.04		2.30
ANNUAL RUNOFF (INCHES)	41.31		31.30
10 PERCENT EXCEEDS	1310		977
50 PERCENT EXCEEDS	886		560
90 PERCENT EXCEEDS	499		400

e Estimated

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

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 LATITUDE 343226.6 LONGITUDE 0833721.99 NAD83 DRAINAGE AREA 315 CONTRIBUTING DRAINAGE AREA 315\* DATUM 1128.53 NGVD29

Gage height, feet  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.15	1.03	1.38	1.28	1.24	1.33	1.18	1.11	1.05	2.06	1.03	1.09
2	1.13	1.02	1.32	1.26	1.29	1.49	1.15	1.39	0.90	2.05	1.15	1.27
3	1.10	1.00	1.28	1.26	1.92	1.53	1.14	1.31	0.85	2.35	1.42	1.05
4	1.10	0.99	---	1.25	1.55	1.42	1.12	1.17	0.83	1.85	1.04	0.91
5	1.10	1.06	---	1.34	1.45	1.38	1.10	1.12	0.79	1.59	0.98	0.84
6	1.09	1.40	1.34	1.37	3.55	1.47	1.09	1.08	0.78	1.40	0.96	0.79
7	1.07	1.25	1.29	1.26	2.76	1.43	1.09	1.04	0.78	1.29	0.84	3.78
8	1.11	1.13	1.26	1.25	1.98	1.36	1.09	1.01	1.63	1.21	0.81	6.77
9	1.17	1.08	1.24	1.27	1.75	1.34	1.08	1.00	1.13	1.14	0.78	2.98
10	1.14	1.04	1.98	1.25	1.64	1.34	1.06	1.02	1.00	1.09	0.77	2.13
11	1.12	1.03	2.05	1.21	1.56	1.31	1.08	1.01	0.97	1.06	0.76	1.78
12	1.11	1.02	1.65	1.20	1.68	1.29	1.13	1.06	---	1.07	1.22	1.61
13	1.07	1.00	1.52	1.19	1.59	1.27	1.93	1.22	---	1.11	1.04	1.46
14	1.05	0.96	1.76	1.18	1.53	1.27	1.55	1.36	---	0.98	0.86	1.38
15	1.02	0.97	1.61	1.17	1.75	1.27	1.34	1.13	1.25	0.99	0.80	1.31
16	1.00	0.97	1.51	1.15	1.85	1.30	1.26	1.06	1.52	0.92	0.94	2.86
17	1.00	1.01	1.62	1.14	1.63	1.27	1.21	1.08	1.17	0.91	0.96	11.85
18	1.01	1.03	1.52	1.27	1.56	1.23	1.19	1.06	1.02	1.01	0.91	4.20
19	1.00	5.04	1.48	1.21	1.51	1.23	1.16	1.04	0.97	0.91	0.81	2.90
20	0.98	2.25	1.41	1.15	1.48	1.20	1.14	1.01	0.89	0.86	0.77	2.44
21	0.98	1.74	1.37	1.13	1.46	1.25	1.12	0.95	1.12	0.83	1.09	2.14
22	0.96	1.53	1.35	1.12	1.41	1.19	1.10	0.94	1.14	0.81	0.92	1.98
23	0.95	1.43	1.35	1.10	1.39	1.17	1.08	0.99	1.36	0.78	0.85	1.86
24	0.95	1.47	1.54	1.10	1.39	1.17	1.07	0.95	1.58	0.76	0.85	1.77
25	0.94	1.43	1.40	1.57	1.37	1.17	1.06	0.89	2.32	0.82	0.86	1.70
26	1.42	1.33	1.35	1.90	1.38	1.16	1.27	0.87	2.84	0.97	0.78	1.64
27	1.58	1.35	1.32	1.58	1.40	1.16	1.26	0.84	1.50	1.31	0.75	1.74
28	1.23	1.66	1.31	1.45	1.37	1.16	1.11	0.82	1.69	1.02	0.80	2.84
29	1.14	1.58	1.29	1.36	1.34	1.15	1.07	0.81	1.44	1.01	0.93	1.90
30	1.08	1.45	1.38	1.32	---	1.31	1.07	0.95	1.63	1.21	0.93	1.73
31	1.04	---	1.30	1.27	---	1.26	---	1.22	---	1.29	0.86	---
MEAN	1.09	1.38	---	1.28	1.65	1.29	1.18	1.05	---	1.18	0.92	2.42

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Precipitation, total, inches  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.37	0.00	2.24
2	0.00	0.00	0.00	0.00	0.93	0.54	0.00	0.84	0.00	0.07	0.00	0.53
3	0.00	0.00	0.03	0.00	0.08	0.01	0.00	0.00	0.00	0.46	0.00	0.00
4	0.00	0.03	---	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00
5	0.00	0.26	---	0.44	0.17	0.00	0.00	0.00	0.00	0.00	0.26	0.00
6	0.00	0.05	0.00	0.00	1.60	0.22	0.00	0.00	0.00	0.02	0.00	0.08
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09	0.00	0.00	4.28
8	0.28	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.44
9	0.10	0.00	0.00	0.14	0.00	0.07	0.00	0.18	0.51	0.00	0.00	0.00
10	0.33	0.00	1.27	0.07	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
11	0.08	0.00	0.00	0.00	0.04	0.00	0.07	1.76	0.00	0.00	0.00	0.00
12	0.00	0.01	0.00	0.00	0.58	0.00	0.84	0.01	---	0.12	1.76	0.00
13	0.00	0.00	0.44	0.00	0.00	0.00	0.65	1.25	---	0.00	0.00	0.00
14	0.03	0.00	0.25	0.00	0.17	0.00	0.01	0.00	---	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	---	0.00	0.00	0.00
16	0.00	0.04	0.10	0.00	0.00	0.12	0.00	0.03	---	0.00	0.00	3.90
17	0.00	0.23	0.19	0.18	0.01	0.00	0.00	0.00	---	0.19	0.08	1.25
18	0.00	1.87	0.01	0.21	0.00	0.01	0.00	0.40	0.00	0.01	0.00	0.00
19	0.00	1.95	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.46	0.00
21	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.38	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00
23	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00
24	0.00	0.40	0.08	0.00	0.03	0.00	0.00	0.00	0.30	0.00	0.20	0.00
25	0.00	0.00	0.00	1.63	0.01	0.00	0.00	0.00	2.02	0.00	0.00	0.00
26	1.48	0.00	0.00	0.02	0.03	0.00	0.60	0.00	0.01	1.24	0.00	0.00
27	0.00	0.49	0.00	0.01	0.33	0.00	0.00	0.00	0.38	0.06	0.00	2.68
28	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.05
29	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.02	0.00
30	0.00	0.00	0.06	0.00	---	0.74	0.06	0.07	0.36	0.05	0.06	0.00
31	0.00	---	0.00	0.00	---	0.02	---	0.42	---	0.00	0.00	---
TOTAL	2.30	5.58	---	2.73	4.67	1.93	2.23	5.14	---	3.49	2.84	15.45