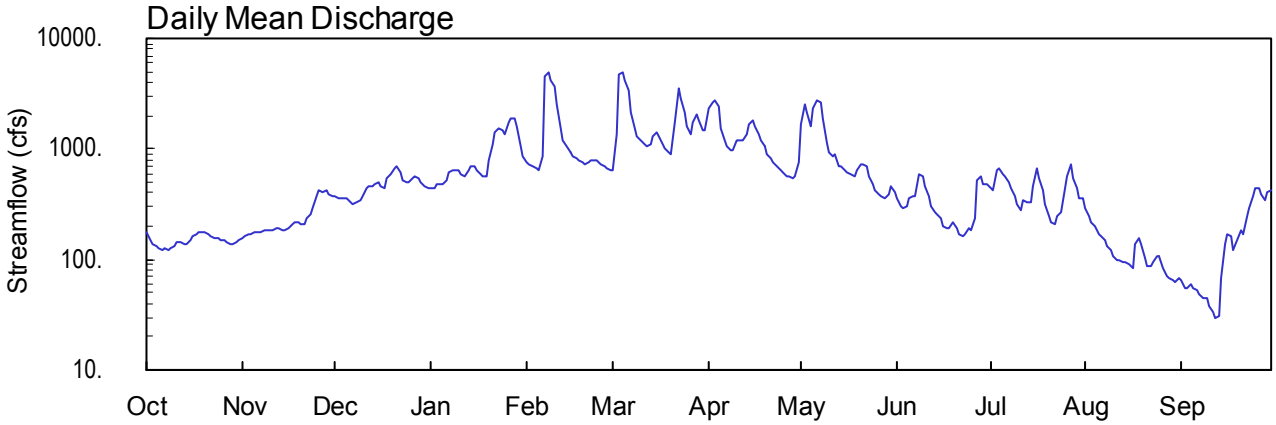
APALACHICOLA RIVER BASIN

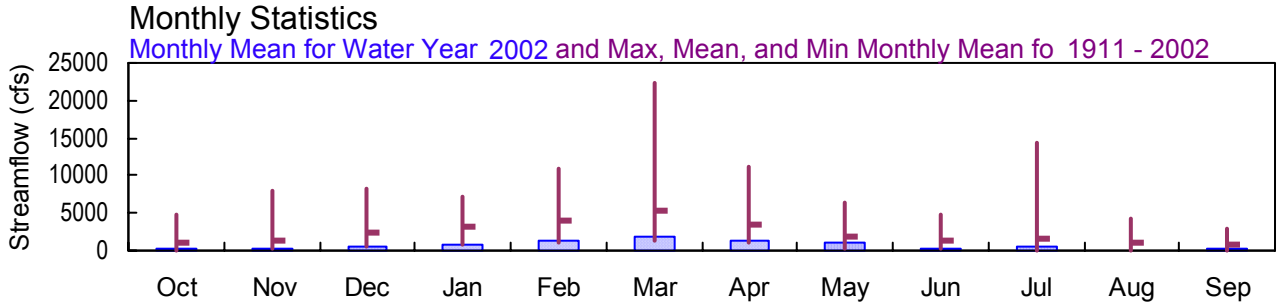
2002 Water Year

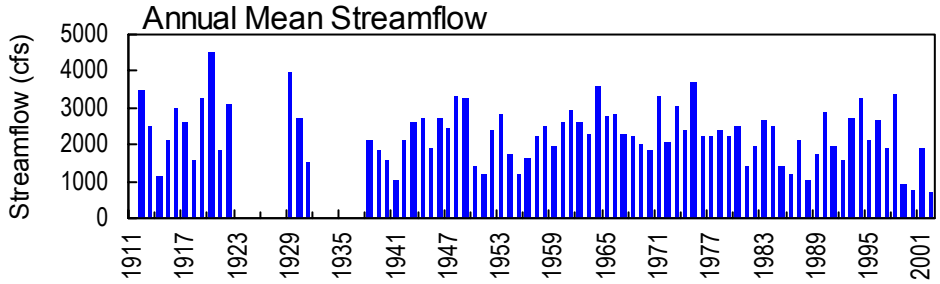
02347500 FLINT RIVER NEAR CULLODEN, GA

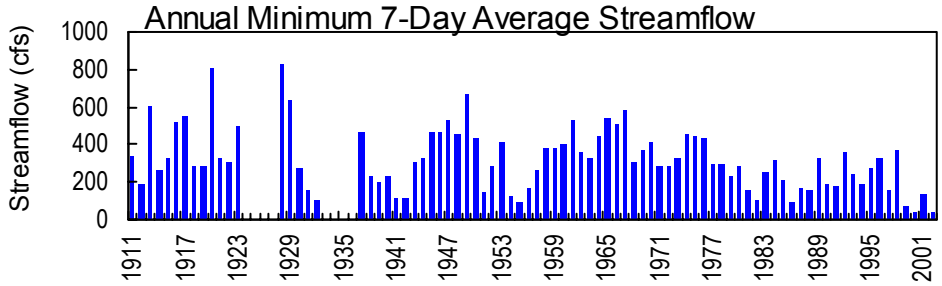
Latitude: 32°43'17" Longitude: 84°13'57" Hydrologic Unit Code: 03130005 Upson County

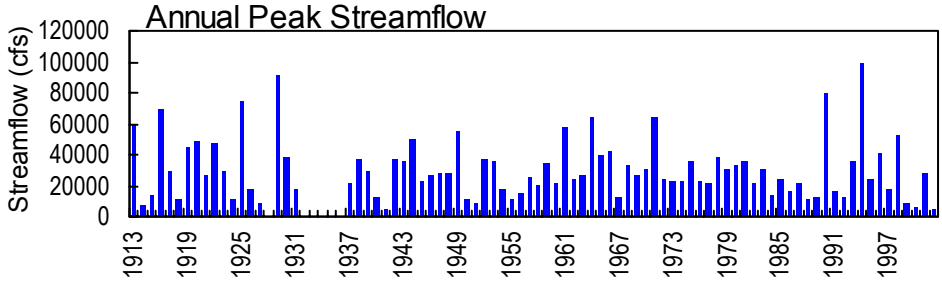
Drainage Area: 1,850. mi^2 Datum: 334.54 feet











APALACHICOLA RIVER BASIN
2002 Water Year

02347500 FLINT RIVER NEAR CULLODEN, GA

LOCATION.—Lat 32°43'17", long 84°13'57" referenced to North American Datum (NAD) of 1927, Taylor-Upson County line, Hydrologic Unit 03130005, on left bank underneath bridge on US 19, 4.0 miles upstream from Auchumpkee Creek, 5.0 miles downstream from Swift Creek, 13.0 miles southwest of Culloden, and at mile 238.4.

DRAINAGE AREA.—1,850 mi^2, approximately.

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1911 to May 1923, July 1928 to December 1931, March 1937 to current year.

REVISED RECORDS.—WSP 697: 1911-23. WSP 1002: 1943. WSP 1504: 1913, 1916-17, 1918(M), 1919-22, 1923(M), drainage area.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 334.54 feet above National Geodetic Vertical Datum (NGVD) of 1929. From July 1, 1911 to October 11, 1918, a non-recording gage was installed. From October 12, 1918 to May 31, 1923, a water-stage recorder was located at a site 2.5 miles downstream at different datum. From July 21, 1928 to December 31, 1931, and from March 18, 1937 to May 3, 1939, a non-recording gage was located at present site and datum.

REMARKS.—Records good, except those below 100 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 11,000 ft^3/s and maximum (*):

DATE	TIME	DISCHARGE (ft^3/s)	GAGE-HEIGHT (ft)
Mar. 3	2130	5,530*	8.42*

02347500 FLINT RIVER NEAR CULLODEN, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.—July 1911 to May 1923, July 1928 to December 1931, March 1937 to current year.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 334.54 feet above National Geodetic Vertical Datum (NGVD) of 1929. From July 1, 1911 to October 11, 1918, a non-recording gage was installed. From October 12, 1918 to May 31, 1923, a water-stage recorder was located at a site 2.5 miles downstream at different datum. From July 21, 1928 to December 31, 1931, and from March 18, 1937 to May 3, 1939, a non-recording gage was located at present site and datum.

REMARKS.—Records good.

EXTREMES FOR THE CURRENT YEAR.—Maximum gage-height recorded, 8.42 feet, March 3; minimum gage-height recorded, 0.33 feet, September 13.

PRECIPITATION RECORDS

PERIOD OF RECORD.—May 20, 2001 to current year.

GAGE.—Tipping-bucket raingage.

REMARKS.—Records fair.

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

STATION NUMBER 02347500 FLINT RIVER NEAR CULLODEN, GA SOURCE AGENCY USGS STATE 13 COUNTY 293
LATITUDE 324317 LONGITUDE 0841357 NAD83 DRAINAGE AREA 1850.00* CONTRIBUTING DRAINAGE AREA DATUM 334.54 NGVD29
Date Processed: 2003-03-10 09:47 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	177	157	366	441	772	633	2370	1660	361	434	297	65
2	149	162	354	444	734	1360	2650	2530	306	428	247	56
3	139	170	357	473	699	4670	2800	2130	287	630	221	56
4	131	172	351	478	671	5020	2410	1590	309	658	197	61
5	126	175	354	481	644	4140	1530	2340	360	584	171	56
6	121	177	327	521	871	3400	1220	2720	368	574	160	52
7	124	178	318	605	4470	2180	1070	2670	372	498	152	48
8	123	183	327	640	4860	1560	983	1930	598	449	133	45
9	125	181	344	643	4190	1320	978	1170	565	372	120	44
10	134	181	378	639	3660	1200	1180	920	469	315	106	38
11	141	182	446	588	2570	1120	1190	858	368	280	100	33
12	144	191	451	561	1540	1050	1180	889	300	346	97	29
13	140	193	456	641	1200	1100	1340	711	263	329	93	31
14	136	186	482	704	1040	1320	1660	699	259	329	94	68
15	152	186	501	697	943	1400	1800	652	241	467	90	136
16	164	193	468	652	870	1300	1620	621	202	659	85	167
17	166	209	445	596	821	1120	1370	599	191	550	139	162
18	174	216	533	559	781	1010	1210	572	191	426	155	123
19	175	217	598	559	746	947	1050	638	213	315	138	149
20	180	206	656	802	730	904	913	730	193	248	102	181
21	169	209	685	1110	751	1710	825	736	170	214	88	166
22	160	239	614	1430	788	3470	754	689	160	206	88	249
23	155	256	515	1550	800	2920	689	556	170	245	94	295
24	154	295	498	1470	781	2150	639	479	190	271	107	371
25	152	374	508	1340	726	1600	603	424	187	441	106	434
26	148	421	538	1740	695	1350	572	394	241	558	83	447
27	141	404	562	1910	669	1740	556	370	519	732	70	383
28	136	415	540	1930	649	2030	547	352	562	545	67	344
29	135	391	490	1630	---	1820	570	395	488	435	64	403
30	141	368	461	1040	---	1490	767	457	482	365	63	420
31	147	---	442	844	---	1490	---	403	---	356	67	---
TOTAL	4559	7087	14365	27718	38671	58524	37046	31884	9585	13259	3794	5112
MEAN	147	236	463	894	1381	1888	1235	1029	320	428	122	170
MAX	180	421	685	1930	4860	5020	2800	2720	598	732	297	447
MIN	121	157	318	441	644	633	547	352	160	206	63	29
CFSM	0.08	0.13	0.25	0.48	0.75	1.02	0.67	0.56	0.17	0.23	0.07	0.09
IN.	0.09	0.14	0.29	0.56	0.78	1.18	0.74	0.64	0.19	0.27	0.08	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

MEAN	951	1358	2401	3173	4047	5207	3472	1988	1389	1670	1162	835
MAX	4691	7856	8151	7256	10960	22290	11240	6350	4773	14430	4371	2908
(WY)	1930	1949	1920	1946	1961	1929	1964	1920	1922	1994	1928	1953
MIN	108	236	463	715	1049	1303	933	392	144	77.5	122	121
(WY)	1955	2002	2002	1956	1938	1918	1999	2000	2000	2000	2002	1999

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1911 - 2002	
ANNUAL TOTAL	642710		251392			
ANNUAL MEAN	1761		689		2288	
HIGHEST ANNUAL MEAN					4500	1920
LOWEST ANNUAL MEAN					689	2002
HIGHEST DAILY MEAN	25900	Mar 4	5020	Mar 4	92000	Jul 6 1994
LOWEST DAILY MEAN	121	Oct 6	29	Sep 12	29	Sep 12 2002
ANNUAL SEVEN-DAY MINIMUM	126	Oct 4	38	Sep 7	38	Sep 7 2002
MAXIMUM PEAK FLOW			5530	Mar 3	100000	Jul 6 1994
MAXIMUM PEAK STAGE			8.42	Mar 3	45.73	Jul 6 1994
INSTANTANEOUS LOW FLOW			26	Sep 13	26	Sep 13 2002
ANNUAL RUNOFF (CFSM)	0.95		0.37		1.24	
ANNUAL RUNOFF (INCHES)	12.92		5.06		16.81	
10 PERCENT EXCEEDS	3480		1590		4740	
50 PERCENT EXCEEDS	826		445		1300	
90 PERCENT EXCEEDS	177		123		422	

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

STATION NUMBER 02347500 FLINT RIVER NEAR CULLODEN, GA SOURCE AGENCY USGS STATE 13 COUNTY 293
LATITUDE 324317 LONGITUDE 0841357 NAD83 DRAINAGE AREA 1850.00* CONTRIBUTING DRAINAGE AREA DATUM 334.54 NGVD29
Date Processed: 2003-03-10 08:44 By acday
APPROVED
DD #6, 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	1.06	0.99	1.59	1.76	2.48	2.20	4.83	3.86	1.61	1.78	1.45	0.61
2	0.95	1.00	1.56	1.77	2.41	3.34	5.19	5.03	1.47	1.76	1.31	0.55
3	0.92	1.03	1.57	1.84	2.34	7.50	5.37	4.52	1.42	2.20	1.23	0.56
4	0.89	1.04	1.55	1.85	2.28	7.91	4.88	3.78	1.48	2.27	1.15	0.58
5	0.86	1.05	1.56	1.86	2.22	6.94	3.69	4.79	1.61	2.12	1.07	0.55
6	0.85	1.06	1.49	1.95	2.61	6.08	3.25	5.28	1.63	2.10	1.03	0.53
7	0.86	1.06	1.47	2.14	7.30	4.57	3.03	5.21	1.63	1.93	1.00	0.50
8	0.85	1.08	1.50	2.22	7.74	3.73	2.89	4.24	2.15	1.81	0.92	0.48
9	0.86	1.07	1.54	2.22	6.99	3.40	2.88	3.18	2.08	1.64	0.87	0.47
10	0.90	1.07	1.62	2.21	6.39	3.23	3.20	2.77	1.86	1.49	0.81	0.43
11	0.93	1.07	1.77	2.10	5.07	3.10	3.20	2.66	1.62	1.40	0.78	0.39
12	0.94	1.10	1.78	2.04	3.71	2.99	3.19	2.71	1.45	1.57	0.77	0.36
13	0.92	1.11	1.79	2.22	3.22	3.07	3.42	2.38	1.35	1.53	0.75	0.37
14	0.90	1.09	1.86	2.35	2.98	3.39	3.87	2.35	1.34	1.53	0.75	0.61
15	0.97	1.09	1.90	2.33	2.81	3.50	4.07	2.26	1.29	1.85	0.74	0.93
16	1.01	1.11	1.82	2.24	2.67	3.37	3.81	2.20	1.17	2.28	0.71	1.05
17	1.02	1.16	1.77	2.12	2.58	3.10	3.47	2.15	1.13	2.05	0.93	1.03
18	1.05	1.18	1.98	2.04	2.50	2.93	3.24	2.09	1.13	1.76	1.01	0.88
19	1.05	1.19	2.13	2.04	2.43	2.82	2.99	2.23	1.20	1.49	0.94	0.98
20	1.07	1.15	2.25	2.54	2.40	2.75	2.76	2.41	1.14	1.31	0.79	1.10
21	1.03	1.16	2.31	3.07	2.44	3.90	2.60	2.42	1.06	1.21	0.72	1.05
22	1.00	1.25	2.16	3.55	2.51	6.17	2.46	2.33	1.03	1.18	0.73	1.30
23	0.98	1.30	1.94	3.73	2.53	5.51	2.34	2.06	1.06	1.30	0.76	1.44
24	0.98	1.41	1.89	3.60	2.50	4.54	2.23	1.88	1.13	1.36	0.82	1.63
25	0.97	1.61	1.92	3.42	2.39	3.79	2.16	1.76	1.12	1.80	0.81	1.78
26	0.95	1.72	1.99	3.99	2.33	3.43	2.10	1.69	1.29	2.05	0.70	1.80
27	0.93	1.68	2.05	4.22	2.28	3.98	2.06	1.63	1.96	2.42	0.64	1.66
28	0.91	1.70	1.99	4.25	2.23	4.38	2.04	1.59	2.07	2.03	0.62	1.57
29	0.90	1.65	1.88	3.82	---	4.10	2.09	1.69	1.90	1.78	0.60	1.71
30	0.93	1.59	1.81	2.96	---	3.63	2.47	1.83	1.89	1.62	0.59	1.75
31	0.95	---	1.76	2.62	---	3.63	---	1.71	---	1.60	0.62	---
MEAN	0.95	1.23	1.81	2.62	3.30	4.10	3.19	2.80	1.48	1.75	0.86	0.95
MAX	1.07	1.72	2.31	4.25	7.74	7.91	5.37	5.28	2.15	2.42	1.45	1.80
MIN	0.85	0.99	1.47	1.76	2.22	2.20	2.04	1.59	1.03	1.18	0.59	0.36

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STATION NUMBER 02347500 FLINT RIVER NEAR CULLODEN, GA SOURCE AGENCY USGS STATE 13 COUNTY 293
LATITUDE 324317 LONGITUDE 0841357 NAD83 DRAINAGE AREA 1850.00* CONTRIBUTING DRAINAGE AREA DATUM 334.54 NGVD29
Date Processed: 2003-03-10 08:44 By acday
APPROVED
DD #7, DCP
PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.01	0.00	0.00	0.02	---	0.00	0.00	0.00	0.11	0.00
2	0.00	0.00	0.00	---	0.00	2.14	0.00	0.00	0.00	0.80	0.00	0.00
3	0.00	0.00	0.00	---	---	0.32	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	---	---	0.00	0.00	0.27	0.38	1.46	0.00	0.00
5	0.00	0.00	0.00	---	0.05	0.00	0.00	0.01	0.01	0.01	0.00	0.00
6	0.00	0.00	0.00	0.23	---	0.00	0.00	0.00	0.00	0.00	0.00	0.22
7	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.27	0.00	0.01
8	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.01	0.21	1.44	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.85	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39	0.00	0.50	0.00	0.00
12	0.00	0.00	0.02	---	0.00	0.16	0.41	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.11	---	0.00	0.01	0.34	0.46	0.00	0.01	0.00	1.19
14	0.03	0.00	0.02	---	0.00	0.00	0.16	0.00	0.06	0.01	0.04	1.03
15	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.71
16	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.02	0.00	0.00	0.00
17	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.17	0.00	0.11	0.00
19	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.02	0.00	0.00	0.09	0.63	0.00	0.00	0.00	0.00	0.00	0.46
21	0.00	0.00	0.00	0.07	0.00	0.88	0.00	0.00	0.00	0.02	0.01	0.00
22	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.12	0.82	0.00	0.00
23	0.00	0.42	0.24	0.08	0.00	0.00	0.00	0.00	0.02	1.18	0.00	0.00
24	0.00	0.23	0.00	0.19	0.00	0.00	0.00	0.00	0.00	2.27	0.00	0.00
25	0.00	1.09	0.00	0.27	0.00	0.00	0.00	0.00	1.36	0.01	0.00	0.16
26	0.00	0.00	0.00	0.00	0.01	0.52	0.00	0.00	0.41	1.12	0.52	0.21
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.26
28	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
29	0.00	0.00	0.00	0.01	---	0.00	0.18	0.00	0.02	0.23	0.00	0.00
30	0.00	0.24	0.00	0.01	---	0.01	1.44	0.00	0.00	0.03	0.93	0.00
31	0.00	---	0.00	0.00	---	---	---	0.00	---	0.00	0.00	---
TOTAL	0.03	2.00	1.74	---	---	---	---	3.81	2.62	8.74	2.78	4.25