

APALACHICOLA RIVER BASIN

02354500

CHICKSAWHATCHEE CREEK AT ELMODEL, GA.

Latitude: 31° 21' 02"

Longitude: 84° 28' 57"

Hydrologic Unit Code: 03130009

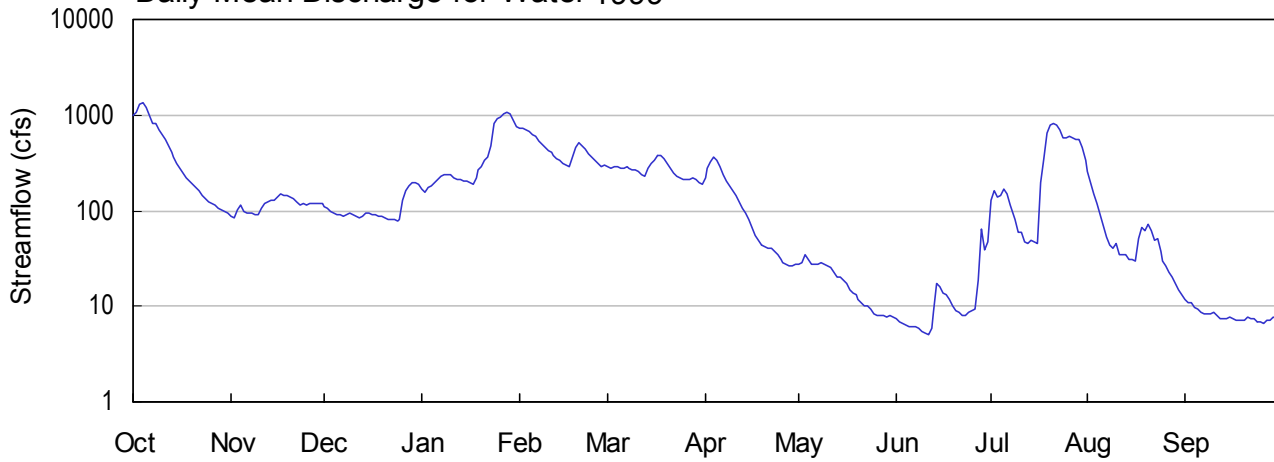
Baker County

Drainage Area: 320.00 mi²

Datum: 137.7 feet

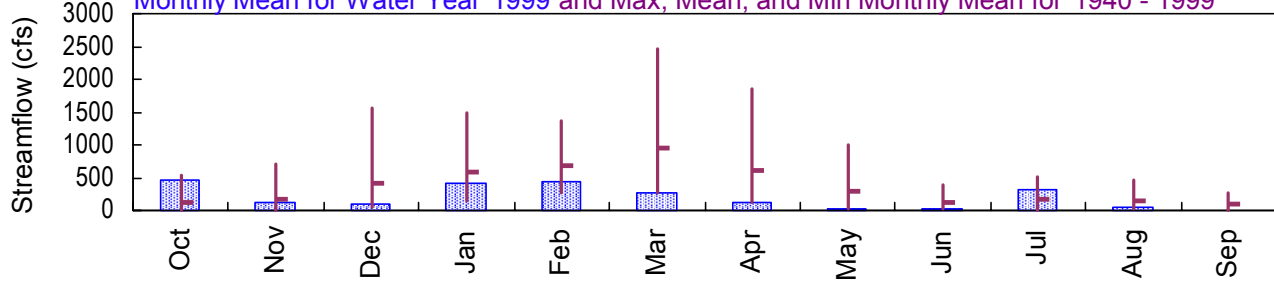
Period of Record: 1940 - 1999

Daily Mean Discharge for Water 1999

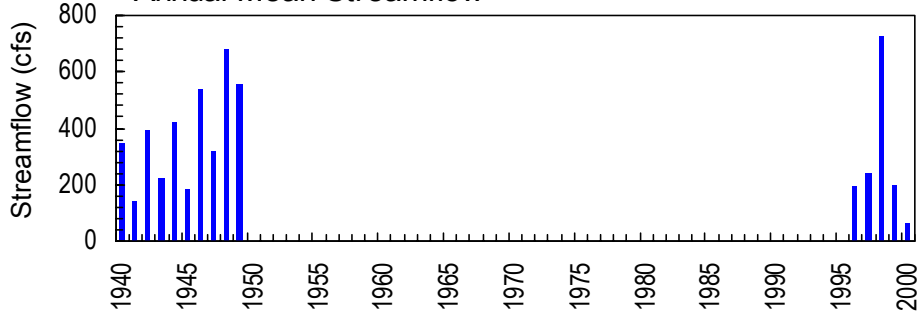


Monthly Statistics

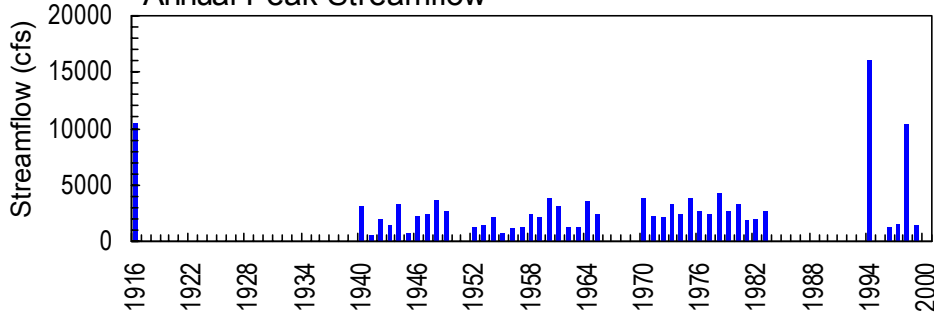
Monthly Mean for Water Year 1999 and Max, Mean, and Min Monthly Mean for 1940 - 1999



Annual Mean Streamflow



Annual Peak Streamflow



**APALACHICOLA RIVER BASIN
1999 Water Year**

02354500 CHICKASAWHATCHEE CREEK AT ELMODEL, GA

LOCATION.--Lat 31°21'02", long 84°28'57", Baker County, Hydrologic Unit 03130009, at bridge on State Highway 37 at Elmodel, 2.0 miles upstream from confluence with Ichawaynochaway Creek.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--October 1939 to December 1949, water years 1952-65 and 1970-83 (annual maximum), July 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 137.7 feet above sea level (levels by the Georgia Department of Transportation). From October 1, 1939 to October 30, 1941, non-recording gage was located at site approximately 100 feet upstream at present datum. From October 31, 1941 to December 31, 1949, recording gage was located at present datum. From September 25, 1951 to September 1965 and October 1970 to September 1983, non-recording gage was located at site 100 feet upstream and present datum.

REMARKS.--Records good, except those for the period of estimated daily discharge which are fair. Discharge during growing season affected by undetermined amount of irrigation withdrawal.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1994 reached a stage of 20.0 feet, discharge 16,000 ft³/s from rating curve extended above 9,400 ft³/s. Minimum discharge observed 1.2 ft³/s, Oct. 21, 1954.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1500 ft³/s and maximum (*):

DATE	TIME	DISCHARGE (ft ³ /s)	GAGE HEIGHT (ft)
Oct. 4	0500	1,380*	6.59*

No other peaks greater than base discharge

STATION NUMBER 02354500 CHICKASAWHATCHEE CREEK AT ELMODEL, GA. STREAM SOURCE AGENCY USGS
 LATITUDE 312102 LONGITUDE 0842857 DRAINAGE AREA 320.00 DATUM 137.73 STATE 13 COUNTY 007

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	973	89	111	167	736	293	222	28	7.4	129	257	12
2	1080	85	104	154	721	282	282	29	7.0	164	194	11
3	1300	101	99	178	693	289	329	34	6.6	141	152	11
4	1360	114	95	181	663	287	363	31	6.3	146	120	9.9
5	1200	100	92	193	633	278	341	27	6.2	168	92	9.2
6	990	95	90	214	591	281	291	27	6.2	148	69	8.5
7	804	94	89	230	545	294	241	28	6.1	114	53	8.4
8	814	93	91	236	501	281	206	29	5.9	102	43	8.2
9	698	92	93	241	461	269	180	28	5.4	82	40	8.3
10	633	90	90	242	428	272	159	26	5.3	59	45	8.5
11	555	104	87	223	403	256	143	25	5.0	60	34	8.1
12	472	120	85	214	379	241	126	23	5.9	48	34	7.5
13	406	126	88	209	355	231	108	20	8.7	46	35	7.3
14	357	127	94	203	334	282	94	20	17	49	31	7.5
15	314	129	93	205	317	314	82	19	16	47	31	7.8
16	277	140	91	197	300	342	67	17	14	46	30	7.5
17	244	148	90	189	291	373	56	15	13	197	50	7.2
18	220	146	88	223	369	376	49	14	12	e350	66	7.1
19	202	144	87	266	464	350	44	13	10	e650	62	7.1
20	187	141	84	292	507	310	42	12	9.0	e800	71	7.1
21	173	134	82	341	477	278	41	11	8.5	e820	61	7.6
22	159	123	81	358	434	252	40	10	8.0	e800	49	7.5
23	145	114	80	481	393	233	38	10	8.0	e700	51	7.3
24	134	119	77	808	364	219	34	9.2	8.6	e570	38	7.0
25	126	116	80	901	334	209	31	8.4	8.9	e580	30	6.8
26	119	118	129	958	310	211	29	8.0	9.5	e600	26	6.7
27	113	117	161	1030	292	215	27	8.0	19	e580	23	7.1
28	107	117	180	1090	296	217	26	7.9	65	e565	20	7.2
29	102	119	196	1040	---	209	26	7.6	39	e550	17	7.8
30	97	117	199	897	---	197	27	8.0	47	451	15	7.5
31	93	---	188	761	---	186	---	7.7	---	342	13	---

TOTAL	14454	3472	3294	12922	12591	8327	3744	560.8	394.5	10104	1852	241.7
MEAN	466	116	106	417	450	269	125	18.1	13.1	326	59.7	8.06
MAX	1360	148	199	1090	736	376	363	34	65	820	257	12
MIN	93	85	77	154	291	186	26	7.6	5.0	46	13	6.7
CFSM	1.46	.36	.33	1.30	1.41	.84	.39	.06	.04	1.02	.19	.03
IN.	1.68	.40	.38	1.50	1.46	.97	.44	.07	.05	1.17	.22	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	131	160	405	592	681	940	621	292	121	182	158	89.5
MAX	540	714	1571	1479	1370	2470	1848	1004	401	507	472	275
(WY)	1949	1948	1998	1998	1998	1998	1944	1946	1946	1940	1946	1945
MIN	7.22	10.7	40.5	156	261	260	125	18.1	13.1	8.00	15.5	4.32
(WY)	1944	1944	1944	1945	1947	1945	1999	1999	1999	1996	1995	1995

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1940 - 1999

ANNUAL TOTAL	215086.1	71957.0	
ANNUAL MEAN	589	197	368
HIGHEST ANNUAL MEAN			723
LOWEST ANNUAL MEAN			144
HIGHEST DAILY MEAN	9850 Mar 11	1360 Oct 4	9850 Mar 11 1998
LOWEST DAILY MEAN	6.6 Jul 12	5.0 Jun 11	3.5 Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	7.0 Jul 6	5.7 Jun 6	3.7 Sep 6 1995
INSTANTANEOUS PEAK FLOW		1380 Oct 4	10400 Mar 11 1998
INSTANTANEOUS PEAK STAGE		6.59 Oct 4	17.09 Mar 11 1998
INSTANTANEOUS LOW FLOW		5.0 Jun 10	3.5 Sep 8 1995
ANNUAL RUNOFF (CFSM)	1.84	.62	1.15
ANNUAL RUNOFF (INCHES)	25.00	8.37	15.62
10 PERCENT EXCEEDS	1500	547	975
50 PERCENT EXCEEDS	144	108	157
90 PERCENT EXCEEDS	9.5	8.0	23

STATISTICS COMPUTED BY: gabailey

DATE: 01/02/2001 AT: 15:55:56

e Estimated