Water-Data Report 2013

03586500 BIG NANCE CREEK AT COURTLAND, AL

Middle Tennessee-Elk Basin
Pickwick Lake Subbasin

LOCATION.--Lat 34°40′12″, long 87°19′02″ referenced to North American Datum of 1927, Lawrence County, AL, Hydrologic Unit 06030005, near right bank on downstream side of bridge on County Road 25 at Courtland, and at mile 12.9.

DRAINAGE AREA.--166 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1935 to September 1940, April 1945 to September 1981, March 1988 to current year.

REVISED RECORDS.-- WSP 1033: 1939, 1940(M). WSP 1053: 1939(M). WSP 1306: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 537.60 ft above NGVD of 1929. July 25, 1935 to Sept. 30, 1940, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharge. Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,800 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 17	0830	4,380	15.94
Jul 7	0500	*6,770	*19.58

Minimum discharge, 11 ft^3/s, Sept. 20, gage height, 1.34 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 03586500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/03586500.2013.pdf

03586500 BIG NANCE CREEK AT COURTLAND, AL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	350	19	18	673	587	229	626	412	58	32	1,310	45
2	1,320	18	17	2,080	371	208	433	308	59	30	317	48
3	445	17	16	1,300	366	198	330	246	61	26	138	97
4	159	17	18	462	330	184	458	1,420	56	231	105	68
5	105	18	25	326	269	297	745	2,210	54	2,570	92	51
6	79	23	50	264	238	799	420	1,070	198	5,760	81	41
7	88	21	37	228	213	435	299	1,350	143	6,240	77	36
8	80	22	30	191	242	301	246	779	119	3,120	979	31
9	71	21	26	177	488	256	217	459	118	603	2,470	28
10	68	17	266	430	358	223	193	393	211	416	2,210	26
11	57	15	537	480	748	643	368	443	281	396	1,950	24
12	48	19	195	423	504	1,460	1,740	303	121	467	1,410	26
13	42	61	114	436	491	614	1,100	220	81	271	373	26
14	37	67	85	1,260	445	389	453	179	68	216	241	22
15	50	45	71	2,120	317	308	343	157	61	209	178	21
16	115	34	406	3,450	258	288	272	136	53	147	142	19
17	65	28	1,550	4,090	221	254	222	145	85	120	120	17
18	102	24	850	2,020	199	298	192	1,060	541	105	107	15
19	268	22	346	733	268	892	1,040	516	277	95	103	13
20	114	19	333	575	355	480	1,530	266	130	85	124	12
21	76	19	675	491	241	320	506	192	88	83	114	69
22	60	18	308	419	833	275	324	151	68	363	483	208
23	50	17	203	358	655	502	249	130	60	254	439	82
24	41	16	188	307	398	1,820	222	121	52	237	190	46
25	37	16	257	258	299	2,090	345	101	47	159	108	34
26	36	15	1,370	236	303	721	246	88	41	108	84	31
27	30	15	1,400	221	354	506	187	80	40	85	73	28
28	27	15	453	200	270	408	899	75	39	76	65	24
29	25	17	460	188	---	360	1,900	70	39	69	59	20
30	22	19	419	608	---	329	864	65	35	65	54	16
31	20	---	267	1,410	---	739	---	61	---	442	49	---
Total	4,087	694	10,990	26,414	10,621	16,826	16,969	13,206	3,284	23,080	14,245	1,224
Mean	132	23.1	355	852	379	543	566	426	109	745	460	40.8
Max	1,320	67	1,550	4,090	833	2,090	1,900	2,210	541	6,240	2,470	208
Min	20	15	16	177	199	184	187	61	35	26	49	12
Cfsm	0.79	0.14	2.14	5.13	2.29	3.27	3.41	2.57	0.66	4.49	2.77	0.25
In.	0.92	0.16	2.46	5.92	2.38	3.77	3.80	2.96	0.74	5.17	3.19	0.27

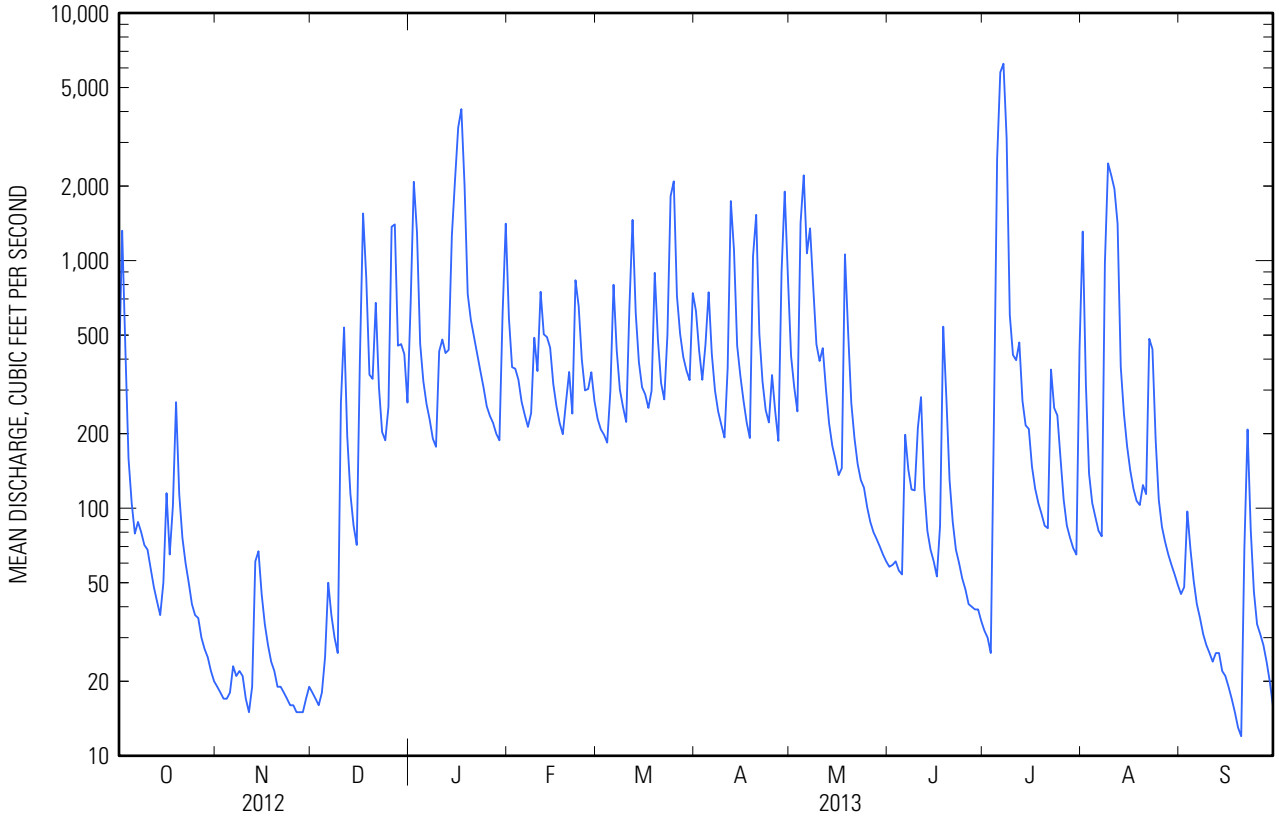
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	83.1	150	369	569	591	597	402	225	121	94.4	54.8	65.1
Max	1,481	1,170	1,704	1,702	1,523	1,775	1,548	1,123	1,202	745	460	569
(WY)	(1976)	(1958)	(1991)	(1949)	(1991)	(1973)	(2011)	(2003)	(1997)	(2013)	(2013)	(1979)
Min	0.52	1.87	2.96	8.56	103	69.1	88.0	18.2	3.57	1.68	1.65	1.03
(WY)	(1956)	(1940)	(1940)	(1956)	(1968)	(1988)	(1978)	(1988)	(2007)	(1954)	(1988)	(1947)

03586500 BIG NANCE CREEK AT COURTLAND, AL—Continued

SUMMARY STATISTICS

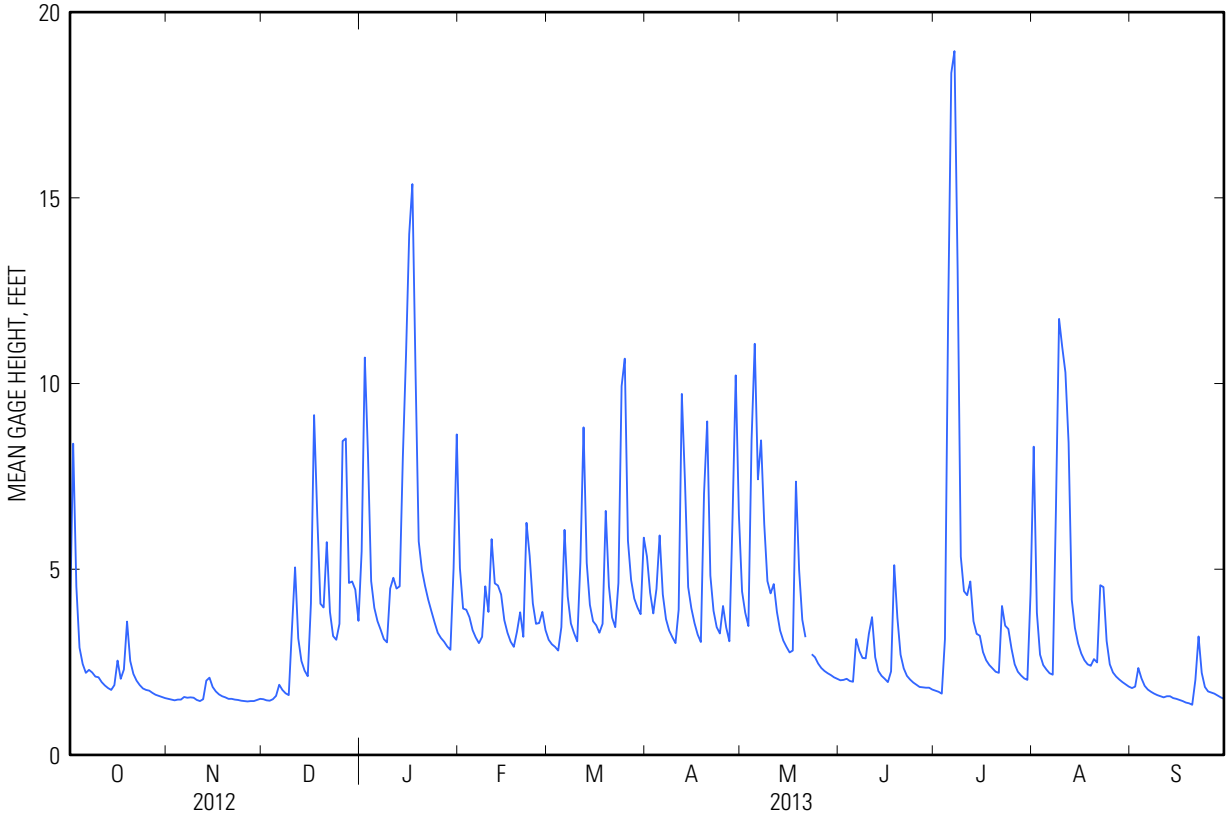
	Calendar Year 2012		Water Year 2013		Water Years 1935 - 2013	
Annual total	67,253.3		141,640			
Annual mean	184		388		278	
Highest annual mean					580	1991
Lowest annual mean					93.2	2007
Highest daily mean	3,590	Jan 24	6,240	Jul 7	18,400	Dec 23, 1990
Lowest daily mean	2.7	Jul 1,3,4	12	Sep 20	0.40	Sep 15, 1954
Annual seven-day minimum	2.8	Jun 28	16	Nov 23	0.41	Oct 11, 1955
Maximum peak flow			6,770	Jul 7	27,200	Mar 16, 1973
Maximum peak stage			19.58	Jul 7	24.97	Mar 16, 1973
Annual runoff (cfsm)	1.11		2.34		1.67	
Annual runoff (inches)	15.07		31.74		22.72	
10 percent exceeds	453		895		621	
50 percent exceeds	46		198		74	
90 percent exceeds	7.6		22		5.1	



03586500 BIG NANCE CREEK AT COURTLAND, AL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.57	1.51	1.50	5.48	5.03	3.10	5.34	4.40	2.01	1.73	8.30	1.80
2	8.38	1.49	1.47	10.70	3.94	2.98	4.37	3.83	2.02	1.70	3.83	1.84
3	4.54	1.47	1.46	8.08	3.91	2.91	3.81	3.47	2.05	1.65	2.70	2.34
4	2.89	1.49	1.50	4.68	3.71	2.81	4.47	8.48	1.99	3.12	2.42	2.06
5	2.45	1.49	1.59	3.96	3.36	3.44	5.91	11.07	1.97	11.79	2.30	1.86
6	2.21	1.56	1.89	3.60	3.16	6.06	4.32	7.42	3.12	18.36	2.20	1.76
7	2.29	1.54	1.75	3.37	3.01	4.27	3.66	8.47	2.80	18.95	2.16	1.70
8	2.22	1.55	1.66	3.12	3.18	3.54	3.35	6.21	2.61	13.07	6.56	1.65
9	2.11	1.54	1.61	3.03	4.54	3.28	3.17	4.68	2.60	5.34	11.74	1.61
10	2.09	1.48	3.37	4.48	3.85	3.06	3.01	4.35	3.26	4.41	10.98	1.58
11	1.96	1.45	5.05	4.77	5.81	5.19	3.91	4.60	3.71	4.30	10.30	1.55
12	1.87	1.50	3.14	4.48	4.62	8.82	9.72	3.85	2.63	4.67	8.41	1.58
13	1.80	2.00	2.53	4.54	4.56	5.17	7.34	3.35	2.26	3.60	4.18	1.58
14	1.75	2.08	2.27	8.03	4.32	4.04	4.52	3.08	2.13	3.26	3.42	1.53
15	1.88	1.83	2.12	10.78	3.63	3.60	3.95	2.91	2.05	3.21	3.00	1.51
16	2.54	1.71	4.08	14.02	3.29	3.49	3.55	2.76	1.96	2.77	2.73	1.48
17	2.05	1.63	9.15	15.37	3.05	3.29	3.24	2.81	2.25	2.55	2.55	1.45
18	2.30	1.58	6.43	10.30	2.91	3.53	3.04	7.36	5.11	2.42	2.44	1.41
19	3.59	1.55	4.07	5.75	3.32	6.57	7.03	4.98	3.69	2.33	2.40	1.39
20	2.53	1.51	3.97	4.99	3.84	4.54	8.98	3.64	2.70	2.24	2.58	1.35
21	2.18	1.51	5.73	4.55	3.18	3.70	4.83	3.17	2.33	2.21	2.49	2.02
22	2.00	1.49	3.85	4.18	6.25	3.44	3.88	---	2.13	4.01	4.57	3.19
23	1.88	1.48	3.20	3.87	5.36	4.63	3.44	2.71	2.03	3.48	4.52	2.21
24	1.79	1.46	3.10	3.57	4.08	9.93	3.27	2.63	1.95	3.39	3.07	1.83
25	1.75	1.45	3.53	3.29	3.53	10.67	4.01	2.46	1.89	2.86	2.44	1.71
26	1.73	1.44	8.45	3.15	3.55	5.77	3.43	2.34	1.83	2.44	2.22	1.68
27	1.67	1.45	8.52	3.05	3.85	4.71	3.06	2.26	1.82	2.24	2.11	1.65
28	1.62	1.45	4.63	2.92	3.36	4.21	6.39	2.20	1.81	2.14	2.03	1.60
29	1.59	1.48	4.67	2.83	---	3.97	10.22	2.15	1.81	2.06	1.96	1.55
30	1.56	1.51	4.45	5.02	---	3.79	6.47	2.09	1.76	2.02	1.90	1.51
31	1.53	---	3.61	8.63	---	5.85	---	2.05	---	4.35	1.84	---
Mean	2.40	1.56	3.69	5.76	3.94	4.66	4.86	---	2.41	4.60	4.01	1.73
Max	8.38	2.08	9.15	15.37	6.25	10.67	10.22	---	5.11	18.95	11.74	3.19
Min	1.53	1.44	1.46	2.83	2.91	2.81	3.01	---	1.76	1.65	1.84	1.35

	Calendar Year 2012
Mean	2.58
Max	14.33
Min	1.00

03586500 BIG NANCE CREEK AT COURTLAND, AL—Continued