

Water-Data Report 2013

02411000 COOSA RIVER AT JORDAN DAM NEAR WETUMPKA, AL

Coosa-Tallapoosa Basin
Lower Coosa Subbasin

LOCATION.--Lat 32°36'50", long 86°15'18" referenced to North American Datum of 1927, Elmore County, AL, Hydrologic Unit 03150107, on right bank 0.5 mi downstream of Jordan Dam, 4 mi upstream of Corn Creek, 5.5 mi northwest of Wetumpka, and at river mile 18.6.

DRAINAGE AREA.--10,102 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1912 to September 1914, December 1925 to current year. Prior to October 1936 published as "at Lock 18, near Wetumpka."

REVISED RECORDS.-- WDR AL-84-1: Drainage area. WDR AL-92-1: 1991. WRD AL-01-1: 2000.

GAGE.--Nonrecording gage since April 1975. Datum of gage is 141.6 ft above NGVD of 1929 (levels by Alabama Power Company). February 1926 to March 1975, water-stage recorder. July 1912 to September 1914, nonrecording gage at site 0.2 mi upstream at different elevation.

COOPERATION.--Records collected by Alabama Power Company, under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

REMARKS.--No estimated daily discharges. Records good. Prior to June 30, 1967, and Feb. 10, 1975 to Aug. 14, 1980, daily discharge above 100 ft³/s, computed on basis of powerplant records and flow over spillway at Jordan Dam; July 1, 1967 to Feb. 9, 1975 and Aug. 15, 1980 to current year on the combined flow through turbines at Jordan and Bouldin Dams (on diversion channel from Jordan Lake about 1 mi upstream from Jordan Dam) and flow over spillway at Jordan Dam. Flow regulated by several upstream reservoirs and hydroelectric plants.

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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	7,780	3,680	2,220	17,800	44,200	26,600	11,300	45,600	5,180	6,500	26,800	6,270
2	15,800	5,890	2,200	30,900	36,800	23,000	15,300	36,400	16,600	6,780	14,500	18,400
3	3,220	2,370	3,790	27,500	37,800	19,500	19,300	40,500	6,750	21,100	10,300	21,300
4	2,360	2,360	4,360	28,600	34,400	23,400	24,800	56,300	6,560	20,300	6,560	15,200
5	4,940	4,170	5,260	22,500	33,500	20,500	29,100	66,000	11,700	17,000	14,200	7,910
6	3,560	3,560	4,740	23,100	34,500	19,200	22,100	56,600	18,000	24,900	15,300	7,290
7	3,890	4,190	3,480	19,400	31,900	18,100	19,400	68,000	19,500	30,800	14,900	4,890
8	6,630	5,860	2,180	14,600	30,700	18,700	22,400	66,500	17,700	46,100	16,600	7,020
9	9,290	5,610	4,240	9,210	22,100	18,400	9,410	66,800	13,900	40,700	19,000	6,180
10	8,020	2,420	9,370	10,500	21,300	16,100	15,600	63,600	20,400	39,500	21,400	5,930
11	7,840	2,410	7,330	10,900	68,700	26,600	19,900	42,000	14,600	36,800	18,000	5,320
12	6,260	3,810	5,730	11,000	65,200	18,800	51,500	38,600	13,200	40,200	15,100	6,980
13	3,900	4,910	7,210	13,200	59,400	23,900	42,400	32,500	11,600	37,400	16,500	4,940
14	3,060	5,180	9,440	33,300	40,500	15,400	45,300	33,900	11,400	29,400	19,600	5,010
15	5,310	4,170	5,340	59,200	34,600	17,200	41,700	27,200	10,200	26,600	17,600	4,200
16	2,400	3,100	13,000	77,400	26,600	14,800	22,300	18,800	10,500	23,700	10,400	5,050
17	3,610	2,340	13,900	66,300	25,900	16,500	24,800	24,100	18,100	17,900	10,900	7,470
18	4,360	2,340	11,300	59,400	21,400	16,600	25,400	38,500	21,400	3,660	12,200	9,200
19	5,560	4,900	13,300	57,000	21,200	11,500	27,200	65,500	23,200	5,330	12,200	7,410
20	2,940	4,030	10,800	54,400	18,200	9,160	31,600	60,200	22,100	8,520	16,700	7,630
21	3,450	4,530	16,500	38,500	18,200	9,220	27,400	36,900	18,100	10,200	15,500	9,040
22	3,740	2,340	14,200	35,200	31,100	14,000	22,900	37,900	15,100	16,600	14,900	8,960
23	2,420	2,340	14,100	36,300	58,700	24,100	19,100	37,900	12,300	18,500	13,100	6,590
24	4,270	2,340	17,900	36,000	43,500	44,700	9,330	33,200	2,810	34,000	12,600	6,640
25	4,610	2,410	23,000	35,700	44,200	43,000	16,400	26,900	7,720	19,900	10,100	5,560
26	3,930	4,040	43,800	33,800	66,500	37,900	17,500	19,100	13,100	16,000	4,920	7,910
27	3,480	3,880	29,400	25,600	49,800	37,000	13,900	19,800	5,370	13,600	6,930	6,200
28	4,110	3,200	36,200	17,800	33,500	34,100	21,600	15,600	11,300	6,830	5,790	3,800
29	4,580	5,550	34,000	16,300	---	29,700	40,500	17,600	7,200	8,420	8,040	4,150
30	2,450	3,880	21,600	37,500	---	25,000	53,000	13,200	6,470	5,640	8,460	4,410
31	2,440	---	15,500	68,400	---	28,000	---	5,510	---	12,000	6,580	---
Total	150,210	111,810	405,390	1,027,310	1,054,400	700,680	762,440	1,211,210	392,060	644,880	415,680	226,860
Mean	4,845	3,727	13,080	33,140	37,660	22,600	25,410	39,070	13,070	20,800	13,410	7,562
Max	15,800	5,890	43,800	77,400	68,700	44,700	53,000	68,000	23,200	46,100	26,800	21,300
Min	2,360	2,340	2,180	9,210	18,200	9,160	9,330	5,510	2,810	3,660	4,920	3,800
Cfsm	0.48	0.37	1.29	3.28	3.73	2.24	2.52	3.87	1.29	2.06	1.33	0.75
In.	0.55	0.41	1.49	3.78	3.88	2.58	2.81	4.46	1.44	2.37	1.53	0.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,948	10,400	17,010	24,400	28,200	31,690	25,690	15,390	9,423	8,841	7,022	6,318
Max	32,870	57,080	72,980	66,360	75,180	82,160	82,520	57,920	30,790	29,400	20,680	21,700
(WY)	(2010)	(1930)	(1933)	(1937)	(1990)	(1929)	(1979)	(2003)	(1989)	(2003)	(1984)	(2009)
Min	1,657	1,843	1,634	4,237	7,437	6,563	4,452	2,384	2,353	2,071	2,577	2,307
(WY)	(2008)	(2008)	(2008)	(1956)	(2000)	(2007)	(1986)	(1986)	(2007)	(1988)	(1986)	(1931)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1913 - 2013	
Annual total	3,207,150		7,102,930			
Annual mean	8,763		19,460		15,920	
Highest annual mean					25,910	1949
Lowest annual mean					5,402	1986
Highest daily mean	60,200	Mar 3	77,400	Jan 16	256,000	Apr 8, 1938
Lowest daily mean	2,180	Jun 26	2,180	Dec 8	54	Oct 15, 1938
Annual seven-day minimum	2,200	Jun 25	2,940	Nov 22	1,270	Oct 7, 1971
Maximum peak flow					316,000	Apr 13, 1979
Maximum peak stage					47.67	Apr 13, 1979
Annual runoff (cfsm)	0.867		1.93		1.58	
Annual runoff (inches)	11.81		26.16		21.42	
10 percent exceeds	19,600		41,100		37,900	
50 percent exceeds	5,220		15,500		9,540	
90 percent exceeds	2,620		3,850		2,960	

