Water-Data Report 2009

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 mile18.6.

DRAINAGE AREA.--10,102 mi^2.

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 ft^3/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 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,280	2,260	4,180	7,570	2,260	76,000	31,100	8,280	8,910	3,330	4,370	5,280
2	2,150	2,230	4,740	8,090	11,700	62,900	33,100	23,900	9,740	2,880	7,790	3,620
3	3,160	2,940	6,430	17,100	5,600	46,600	34,000	33,000	7,370	3,190	6,800	3,330
4	3,160	2,910	5,410	9,330	9,270	30,400	35,400	34,000	6,400	4,880	7,210	3,000
5	3,660	3,040	6,630	22,000	8,300	14,300	37,200	48,700	12,800	2,930	7,420	6,070
6	2,680	2,920	3,300	55,500	10,500	13,700	34,300	51,300	5,180	4,750	5,050	4,040
7	3,200	3,690	4,330	83,100	4,710	12,900	24,300	60,600	4,900	4,240	4,660	5,220
8	2,150	2,840	5,330	73,300	4,600	9,230	17,300	59,100	6,120	3,050	4,250	4,160
9	3,890	2,640	13,400	71,900	7,310	15,600	16,000	44,900	6,630	2,760	3,850	3,840
10	5,780	3,760	27,500	66,100	11,200	13,100	17,400	38,500	6,280	3,440	5,130	3,520
11	3,770	3,070	41,900	70,000	6,040	10,400	21,200	33,400	9,560	2,860	2,720	15,600
12	2,760	3,420	52,400	66,600	7,130	18,100	20,200	24,000	7,240	2,790	2,760	8,810
13	2,120	3,610	34,500	47,900	8,280	10,500	38,000	22,900	7,690	12,500	5,540	8,580
14	4,540	3,020	29,300	38,300	5,040	7,240	40,100	19,100	13,200	6,740	3,700	5,500
15	3,840	2,220	25,700	37,600	6,010	29,800	31,300	17,800	7,580	4,550	4,080	7,030
16	3,160	2,250	13,500	36,700	9,150	35,100	25,800	17,800	7,140	8,330	5,910	16,600
17	2,100	3,030	12,400	22,200	6,520	37,000	22,200	13,600	11,200	6,960	4,050	13,200
18	2,680	2,270	18,600	19,900	2,990	29,400	15,100	21,100	7,230	3,360	6,940	24,000
19	3,220	4,270	24,000	19,900	6,610	35,600	20,500	22,200	8,060	3,150	4,220	66,800
20	3,770	3,950	22,900	21,600	7,570	19,800	15,000	20,600	3,180	2,320	3,250	58,700
21	2,210	4,500	23,300	20,200	6,170	13,300	26,000	15,000	3,590	4,370	3,420	65,000
22	2,200	4,840	26,700	17,800	5,190	10,600	23,900	14,400	2,670	3,470	2,950	64,200
23	4,430	2,180	19,900	18,000	9,840	27,300	15,000	11,300	3,410	3,360	3,480	35,900
24	4,040	3,890	17,500	18,800	5,310	28,600	15,600	11,700	2,560	2,340	3,770	35,100
25	4,330	3,690	14,500	12,900	6,320	36,100	8,170	17,400	2,490	3,750	2,460	32,700
26	3,900	5,710	20,400	9,780	12,100	41,200	8,540	17,700	2,440	2,830	7,350	33,200
27	2,250	3,960	21,100	12,400	28,000	71,200	15,000	30,600	3,390	2,300	4,810	31,600
28	3,600	3,670	17,400	9,500	93,200	64,500	11,600	26,700	3,780	4,160	5,720	29,800
29	3,710	7,830	11,500	9,860	---	49,700	12,000	19,000	2,860	10,800	4,070	27,000
30	3,970	6,400	13,000	10,000	---	40,600	9,830	12,900	2,940	8,430	3,870	29,600
31	4,440	---	14,000	4,990	---	38,200	---	12,200	---	3,100	4,520	---
Total	105,150	107,010	555,750	938,920	306,920	948,970	675,140	803,680	186,540	137,920	146,120	651,000
Mean	3,392	3,567	17,930	30,290	10,960	30,610	22,500	25,930	6,218	4,449	4,714	21,700
Max	5,780	7,830	52,400	83,100	93,200	76,000	40,100	60,600	13,200	12,500	7,790	66,800
Min	2,100	2,180	3,300	4,990	2,260	7,240	8,170	8,280	2,440	2,300	2,460	3,000
Cfsm	0.34	0.35	1.77	3.00	1.09	3.03	2.23	2.57	0.62	0.44	0.47	2.15
In.	0.39	0.39	2.05	3.46	1.13	3.49	2.49	2.96	0.69	0.51	0.54	2.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,746	10,310	16,800	24,450	28,350	31,790	26,030	15,330	9,536	8,862	7,039	6,366
Max	29,100	57,080	72,980	66,360	75,180	82,160	82,520	57,920	30,790	29,400	20,680	21,700
(WY)	(1996)	(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 2008		Water Year 2009		Water Years 1913 - 2009	
Annual total	2,971,470		5,563,120			
Annual mean	8,119		15,240		15,950	
Highest annual mean					25,910	1949
Lowest annual mean					5,402	1986
Highest daily mean	52,400	Dec 12	93,200	Feb 28	256,000	Apr 8, 1938
Lowest daily mean	1,590	Jan 8	2,100	Oct 17	54	Oct 15, 1938
Annual seven-day minimum	1,620	Jan 3	2,760	Oct 16	1,270	Oct 7, 1971
Maximum peak flow					316,000	Apr 13, 1979
Maximum peak stage					47.67	Apr 13, 1979
Annual runoff (cfsm)	0.804		1.51		1.58	
Annual runoff (inches)	10.94		20.49		21.45	
10 percent exceeds	18,700		36,800		37,900	
50 percent exceeds	4,800		8,060		9,570	
90 percent exceeds	2,320		2,920		2,960