Water-Data Report 2008

06933500 GASCONADE RIVER AT JEROME, MO

Lower Missouri Basin
Gasconade Subbasin

LOCATION.--Lat 37°55'47.7", long 91°58'38.4" referenced to North American Datum of 1983, in NE ¼ NE ¼ SE ¼ sec.13, T.37 N., R.10 W., Phelps County, MO, Hydrologic Unit 10290203, on left bank at Jerome, 0.5 mi downstream from Little Piney Creek, and at mile 107.

DRAINAGE AREA.--2,840 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1903 to July 1906, January 1923 to current year. April 1903 to July 1906 published as "at Arlington". October to December 1922 monthly discharge only, published in WSP 1310. Gage-height records collected intermittently in the vicinity 1885-1926 and at same site since 1938 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 172: 1904. WSP 566: Drainage area. WSP 1340: 1903-04, 1928(M).

GAGE.--Water-stage recorder. Datum of gage is 657.64 ft above National Geodetic Vertical Datum of 1929. Prior to July 26, 1904, nonrecording gage at site 0.8 mi downstream at different datum; July 26, 1904, to July 21, 1906, nonrecording gage at site 0.5 mi upstream from present site at datum about 0.85 ft higher than present gage; Jan. 3, 1923, to Sept. 29, 1928, nonrecording gage at site 400 ft downstream from present site at datum 0.14 ft lower than present datum; Sept. 30, 1928, to Jan. 17, 1939, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1897, reached a stage of about 29.0 ft, discharge, 120,000 ft³/s. A stage of 28.6 ft was reached on Aug. 20 and 22, 1915, discharge, 114,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb 19	0300	32,500	15.66
Mar 5	1730	18,900	11.34
Mar 20	2115	*118,000	*30.43
Apr 1	0030	24,400	13.21
Apr 12	0330	47,400	19.97
Sep 16	0545	46,300	19.69

Minimum discharge, 446 ft³/s, Oct. 21, 22, gage height, 1.39 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	592	452	510	687	738	3,960	21,900	3,820	2,600	2,520	846	726
2	584	452	515	663	717	3,420	20,600	3,530	2,350	2,290	1,070	719
3	574	452	517	642	703	4,180	18,500	3,260	2,250	2,300	1,050	854
4	563	456	511	631	691	7,580	13,000	3,000	3,650	3,340	968	8,040
5	550	456	510	626	1,230	16,500	12,500	2,810	3,580	4,170	920	9,680
6	543	454	512	622	6,110	17,500	11,600	2,640	4,960	5,770	1,140	10,200
7	532	454	517	620	8,800	9,720	8,790	3,250	6,780	4,030	1,030	6,510
8	528	458	517	2,800	8,810	6,900	7,130	8,790	7,020	2,980	1,010	4,230
9	518	462	546	6,610	6,110	5,560	6,150	12,900	4,380	2,770	1,090	3,150
10	503	463	595	9,190	4,390	4,610	18,200	10,400	3,130	2,640	1,010	2,670
11	494	471	632	12,300	3,410	3,840	36,500	9,610	2,640	2,370	906	2,440
12	484	487	657	5,580	2,830	3,310	44,500	8,350	2,310	2,080	839	2,140
13	486	555	673	3,910	2,400	2,930	39,600	6,800	2,200	1,860	800	1,900
14	480	540	661	2,960	2,250	2,650	13,000	5,760	2,320	1,680	763	21,100
15	476	513	713	2,380	2,510	2,430	8,680	5,700	3,210	1,530	741	35,300
16	477	495	815	2,010	2,980	2,230	7,060	6,110	8,750	1,400	747	40,800
17	477	493	868	1,740	13,200	2,080	6,010	10,100	4,800	1,290	718	31,300
18	484	489	914	1,540	25,700	14,400	5,380	9,100	3,550	1,200	704	13,200
19	470	487	905	1,380	29,000	68,300	5,040	6,690	2,930	1,150	688	5,870
20	462	492	912	1,250	26,500	104,000	4,730	5,390	2,700	1,090	680	4,530
21	453	510	907	1,150	9,100	89,300	4,440	4,480	2,460	1,050	716	3,730
22	454	504	894	1,080	6,530	40,900	4,630	3,800	2,320	996	706	3,120
23	470	496	886	1,010	5,320	13,800	4,840	3,330	2,140	967	690	2,720
24	459	497	854	949	4,890	9,600	5,730	3,040	1,910	936	676	2,590
25	455	504	817	898	4,900	7,760	6,470	2,880	1,730	914	658	2,490
26	463	534	794	865	5,660	6,590	7,090	3,330	1,600	1,010	665	2,240
27	465	526	779	836	6,080	5,800	6,800	2,880	1,820	921	656	2,000
28	456	518	756	807	5,680	5,330	5,660	2,650	2,530	919	634	1,800
29	454	514	742	793	4,790	4,800	4,820	2,640	2,910	940	758	1,650
30	453	510	730	765	---	5,990	4,240	2,490	2,690	885	834	1,520
31	453	---	708	744	---	10,300	---	2,340	---	862	749	---
Mean	494	490	705	2,195	6,967	15,690	12,120	5,222	3,274	1,899	821	7,641
Max	592	555	914	12,300	29,000	104,000	44,500	12,900	8,750	5,770	1,140	40,800
Min	453	452	510	620	691	2,080	4,240	2,340	1,600	862	634	719
In.	0.20	0.19	0.29	0.89	2.65	6.37	4.76	2.12	1.29	0.77	0.33	3.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2008[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,314	2,249	2,446	2,483	3,004	4,095	4,605	4,364	2,908	1,494	1,138	1,310
Max	10,390	10,400	17,740	10,980	11,540	15,690	20,450	15,390	18,500	10,730	9,244	12,580
(WY)	(1950)	(1994)	(1983)	(1950)	(1985)	(2008)	(1945)	(1990)	(1935)	(1951)	(1927)	(1993)
Min	289	368	392	368	491	597	504	532	518	339	324	293
(WY)	(1957)	(1957)	(1956)	(1956)	(1964)	(1956)	(1956)	(2000)	(1934)	(1934)	(1936)	(1956)

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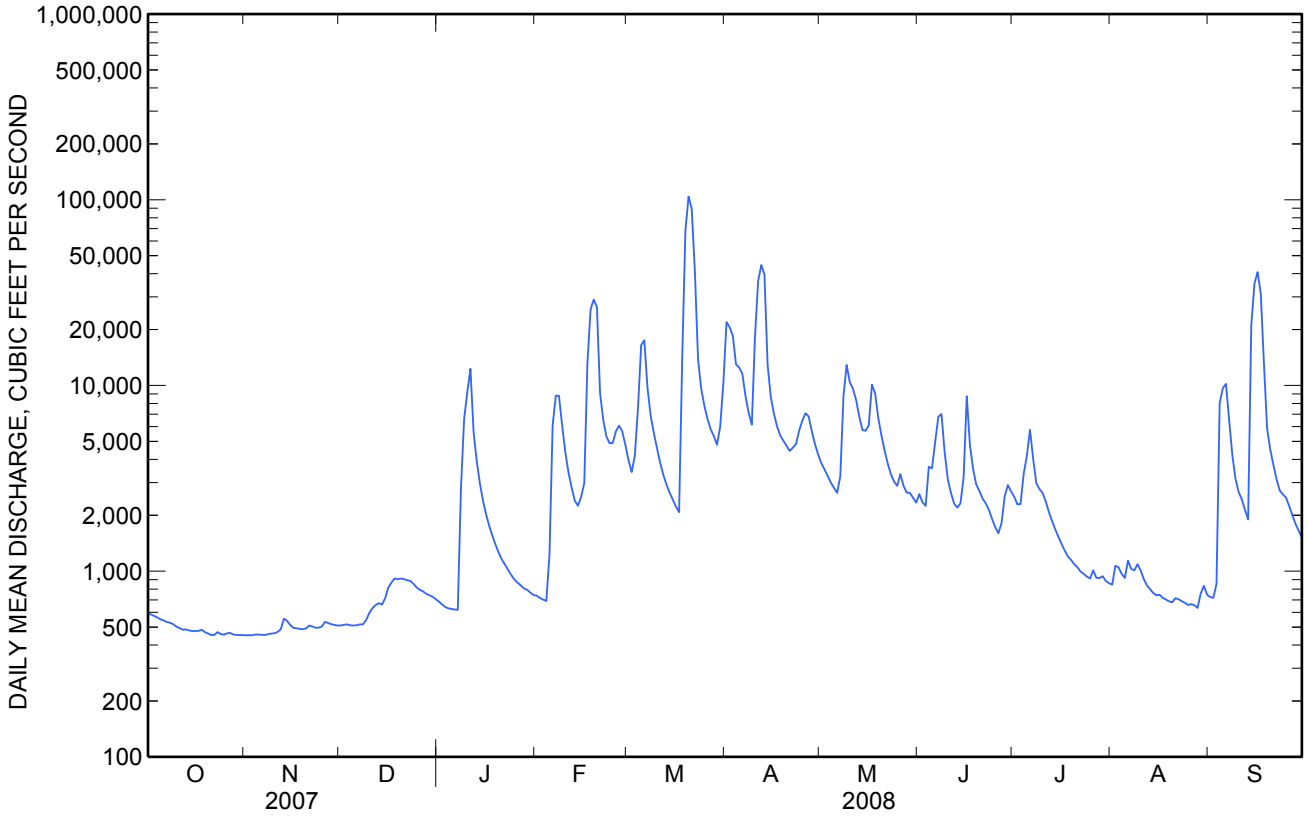
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1903 - 2008[a]	
Annual mean	1,807		4,769		2,605	
Highest annual mean					6,491	1985
Lowest annual mean					544	1954
Highest daily mean	14,100	Apr 16	104,000	Mar 20	121,000	Dec 5, 1982
Lowest daily mean	410	Aug 18	452	Nov 1[b]	259	Sep 21, 1956
Annual seven-day minimum	422	Aug 13	453	Oct 28	266	Sep 16, 1956
Maximum peak flow			118,000	Mar 20	136,000	Dec 5, 1982
Maximum peak stage			30.43	Mar 20	31.34	Dec 5, 1982
Instantaneous low flow			446	Oct 21[c]	254	Sep 21, 1956
Annual runoff (inches)	8.64		22.86		12.46	
10 percent exceeds	3,820		9,630		5,460	
50 percent exceeds	1,170		2,080		1,220	
90 percent exceeds	472		494		511	

[a]For Period of Record
[b]Also Nov 2, 3
[c]Also Oct 22