Water-Data Report 2008

07176000 VERDIGRIS RIVER NEAR CLAREMORE, OK

Verdigris Basin
Lower Verdigris Subbasin

LOCATION.--Lat 36°18′26″, long 95°41′52″ referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.15, T.21 N., R.15 E., Rogers County, OK, Hydrologic Unit 11070105, on left bank on downstream side of bridge on State Highway 20, 2.3 mi downstream from Caney River, 4.5 mi west of Claremore,12.4 mi upstream from Bird Creek, and at mile 76.0.

DRAINAGE AREA.--6,534 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1935 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 538.62 ft above NGVD of 1929. Prior to Feb. 24, 1939, and May 17 to Aug. 24, 1967, non-recording gage at same site and datum.

REMARKS.--Records fair except for estimated periods which are poor. Some regulation since 1949 by dams in Kansas, and since February 1950 by Hulah Lake (station 07172500). Flow regulated since May 1963 by Oologah Lake (station 07171300), 14.3 mi upstream from station, and since April 1983 by Copan Lake (station 07174300). U.S. Army Corps of Engineers' satellite telemeter at station.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	181	282	95	222	4,640	13,200	10,400	22,800	28,000	15,500	5,610	9,650
2	203	143	102	199	4,900	12,600	11,800	22,800	27,000	30,800	5,410	5,840
3	1,160	99	93	e190	4,960	9,220	14,100	22,600	34,200	36,300	5,300	1,210
4	982	95	91	166	4,960	6,960	13,400	22,100	31,200	35,700	5,510	1,170
5	570	75	86	158	5,040	10,500	23,400	21,800	30,200	35,000	5,460	1,130
6	341	71	81	160	5,650	14,200	24,000	21,700	30,400	34,300	5,400	1,120
7	265	76	82	893	6,670	14,000	23,900	21,700	32,300	33,500	5,380	1,150
8	237	70	85	2,680	5,820	13,700	21,700	22,500	32,900	32,800	5,370	1,110
9	205	81	389	2,950	6,260	13,700	7,690	18,700	34,600	34,900	5,440	598
10	168	135	919	3,150	6,430	9,030	20,200	25,300	24,700	32,100	9,220	1,150
11	139	151	2,220	1,260	6,380	2,300	19,100	24,800	25,100	27,200	12,600	3,290
12	106	145	3,840	1,200	6,310	2,210	19,100	27,500	28,500	17,800	11,600	3,700
13	76	134	1,690	1,170	6,270	3,150	12,100	29,900	28,500	21,400	11,200	3,700
14	56	134	827	2,110	6,250	7,830	2,640	28,200	31,800	18,100	11,500	8,960
15	122	130	637	3,540	5,450	6,980	2,620	28,100	33,200	15,600	11,500	15,700
16	147	128	733	3,520	2,180	6,570	3,180	28,300	41,000	14,800	11,900	18,100
17	180	128	536	3,300	3,920	5,230	3,060	27,100	29,700	14,500	11,700	18,300
18	320	134	410	2,040	4,670	6,290	3,260	23,000	37,400	13,100	12,200	18,200
19	523	141	330	355	5,360	12,100	3,020	21,100	32,600	11,900	13,700	13,900
20	829	157	283	305	7,620	6,720	2,870	19,000	30,900	11,100	13,900	9,490
21	746	159	247	240	8,230	2,550	5,630	17,800	29,500	10,600	14,600	8,880
22	639	152	227	206	8,690	1,720	15,300	12,500	28,400	10,500	14,600	7,840
23	677	155	221	198	8,670	2,000	16,500	8,420	27,900	10,400	15,000	6,520
24	835	153	227	1,120	8,610	2,100	20,400	8,160	26,600	8,330	14,600	6,380
25	1,260	150	238	3,020	11,100	2,020	22,700	6,900	30,300	5,230	14,800	5,490
26	1,600	159	236	3,000	13,000	1,970	17,800	6,660	34,400	5,150	14,800	6,640
27	1,570	125	224	2,990	4,800	1,940	19,700	6,890	37,100	5,170	14,500	9,130
28	1,530	103	219	3,710	2,620	1,900	21,300	10,600	37,000	5,150	14,100	9,070
29	1,480	99	215	4,650	9,710	1,850	23,100	16,900	33,600	5,390	12,300	9,470
30	1,430	88	235	4,650	---	1,820	22,900	23,400	21,200	5,230	9,450	10,900
31	870	---	241	4,660	---	2,240	---	25,900	---	5,210	10,200	---
Total	19,447	3,852	16,059	58,012	185,170	198,600	426,870	623,130	930,200	562,760	328,850	217,788
Mean	627	128	518	1,871	6,385	6,406	14,230	20,100	31,010	18,150	10,610	7,260
Max	1,600	282	3,840	4,660	13,000	14,200	24,000	29,900	41,000	36,300	15,000	18,300
Min	56	70	81	158	2,180	1,720	2,620	6,660	21,200	5,150	5,300	598
Ac-ft	38,570	7,640	31,850	115,100	367,300	393,900	846,700	1,236,000	1,845,000	1,116,000	652,300	432,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,858	3,959	3,371	3,272	3,414	6,673	7,543	7,977	8,599	5,657	1,659	1,524
Max	47,570	23,150	16,250	15,850	11,470	23,920	25,200	23,480	31,010	39,900	13,150	7,538
(WY)	(1987)	(1975)	(1993)	(1993)	(1975)	(1985)	(1988)	(1973)	(2008)	(2007)	(2007)	(1989)
Min	24.1	18.0	44.3	29.8	31.3	23.2	107	87.2	84.0	42.5	52.7	53.3
(WY)	(1967)	(1967)	(2006)	(2006)	(1967)	(1967)	(1971)	(1971)	(1972)	(1966)	(1965)	(2000)

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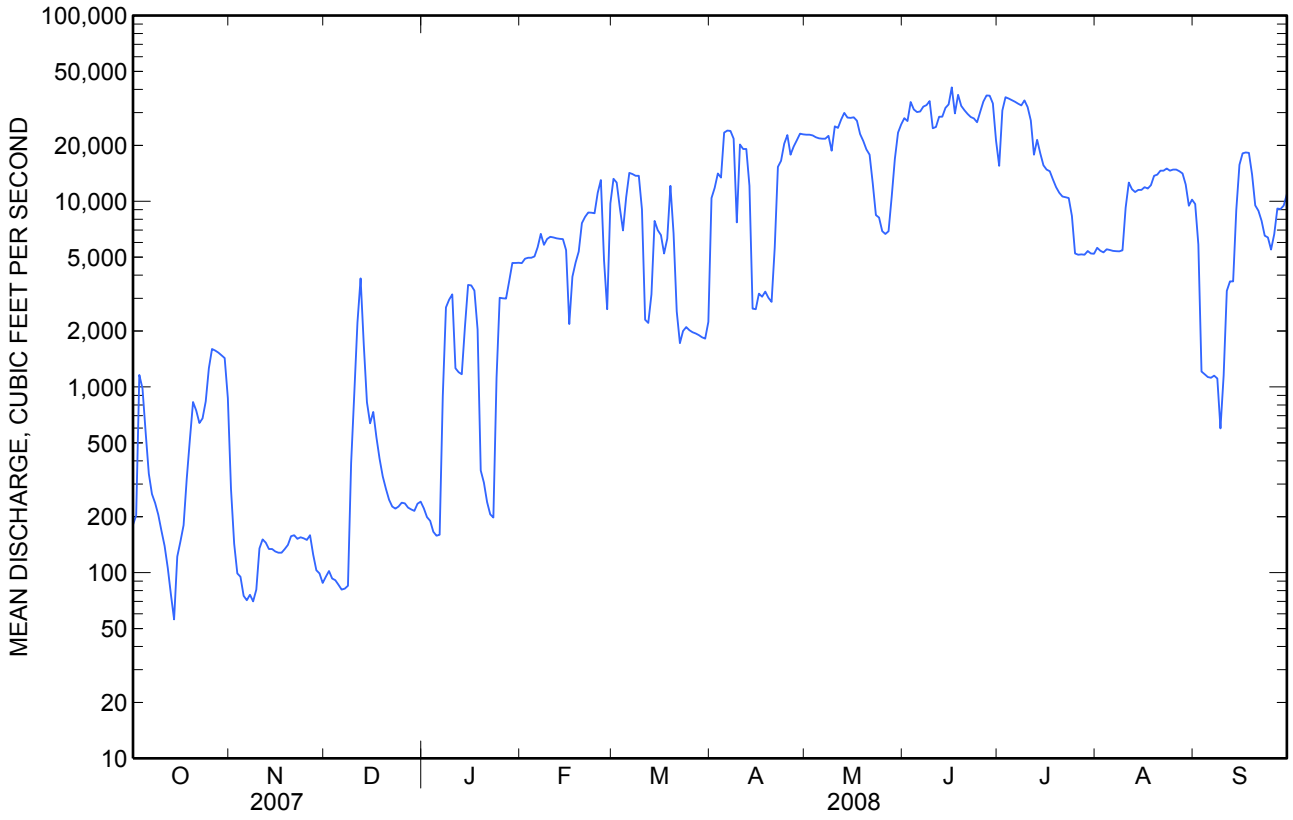
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1965 - 2008	
Annual total	3,233,701		3,570,738			
Annual mean	8,859		9,756		[a]4,711	
Highest annual mean					10,940	1999
Lowest annual mean					234	1996
Highest daily mean	58,600	Jul 6	41,000	Jun 16	77,700	Oct 13, 1986
Lowest daily mean	40	Jan 11	56	Oct 14	[b]3.4	Aug 9, 1997
Annual seven-day minimum	51	Jan 8	81	Nov 3	8.6	Jul 12, 1966
Maximum peak flow			50,400	Jun 16	[c]78,400	Oct 12, 1986
Maximum peak stage			34.09	Jun 16	[d]44.99	Oct 12, 1986
Annual runoff (ac-ft)	6,414,000		7,083,000		3,413,000	
10 percent exceeds	31,900		28,000		14,300	
50 percent exceeds	733		5,500		1,030	
90 percent exceeds	81		151		60	

[a] Prior to regulation by Oologah Lake, water years 1936-62, 3,723 ft³/s.

[b] No flow at times in 1936, 1939, 1940, 1956.

[c] Maximum discharge for period of record, 182,000 ft³/s, May 21, 1943.

[d] Maximum gage height for period of record, 55.05 ft, May 21, 1943.