08168500 Guadalupe River above Comal River at New Braunfels, TX

Guadalupe River Basin

LOCATION.--Lat 29°42′53″, long 98°06′35″ referenced to North American Datum of 1927, Comal County, Hydrologic Unit 12100202, on right bank at New Braunfels, 1.1 mi upstream from Comal River, 21.9 mi downstream from Canyon Lake, and at mile 281.1.

DRAINAGE AREA.--1518 mi^2.

WATER-DISCHARGE RECORDS

REVISIONS.--Maximum peak flow for calendar year 1998 and water year 1999 has been revised to 101,000 ft^3/s, Oct. 17, 1998, gage height 35.57 ft, from floodmark.

REVISED RECORDS.--WSP 898: 1935. WSP 1562: 1932. WSP 2123: Drainage area.

PERIOD OF RECORD.--Dec. 1927 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 586.65 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. Since 1964, at least 10% of contributing drainage area has been regulated. Small diversions for irrigation above this station. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--36 years (water years 1928-63), 364 ft^3/s (263,400 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1845, 38 ft July 8, 1869, and in Dec. 1913, from information by local residents.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1928-1963: Maximum discharge, 101,000 ft^3/s June 15, 1935 (gage height, 32.95 ft); minimum, no flow July 8-9, July 17 to Aug. 20, 1956.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	307	2,060	5,450	1,270	1,010	1,290	763	568	618	315	210	256
2	1,740	2,040	e5,440	1,280	1,100	1,360	761	566	1,070	308	210	252
3	602	2,480	e5,430	1,280	1,290	1,340	756	563	1,160	355	210	280
4	524	2,450	5,420	1,280	1,290	1,240	750	559	858	349	210	323
5	1,620	2,270	5,410	1,270	1,280	1,890	686	474	785	329	210	309
6	1,620	1,570	5,410	1,250	1,300	2,010	561	471	581	300	210	286
7	1,610	1,550	5,400	1,250	1,220	2,010	551	471	485	274	210	267
8	1,300	1,540	5,390	1,250	1,370	1,970	551	491	479	339	210	258
9	744	1,520	5,380	1,240	1,330	1,960	457	498	436	315	210	255
10	741	1,510	5,350	1,040	1,200	1,940	441	649	394	329	210	246
11	736	1,500	5,330	786	941	1,930	433	800	403	310	210	246
12	724	1,490	5,320	786	869	1,910	427	803	403	245	210	242
13	714	1,490	5,290	840	869	1,900	425	803	398	214	343	238
14	675	1,500	5,280	573	887	2,060	423	804	395	210	391	234
15	655	1,570	5,280	551	999	2,300	450	800	395	210	385	230
16	655	1,570	5,260	761	986	2,290	519	798	354	210	374	226
17	655	2,700	5,250	749	976	2,270	519	793	341	251	373	220
18	643	981	5,230	672	983	2,270	547	776	340	329	370	220
19	503	933	5,210	673	986	2,260	601	646	336	281	364	214
20	488	2,080	5,200	673	986	2,250	619	642	334	281	356	210
21	488	1,990	5,190	673	980	2,260	619	596	334	314	357	210
22	488	6,730	4,130	667	968	2,270	619	591	334	252	328	205
23	879	2,150	1,870	656	974	2,270	616	539	330	214	304	202
24	906	1,440	1,860	659	979	2,260	623	425	e334	210	295	198
25	977	1,110	1,850	657	975	1,960	632	411	e334	210	287	196
26	1,930	954	1,850	648	992	e1,450	811	411	e334	210	282	196
27	2,660	972	1,840	683	1,010	e1,420	804	408	e334	210	279	187
28	2,440	1,560	1,830	806	1,080	e1,180	665	406	e339	210	271	187
29	2,250	2,340	1,830	941	---	792	635	421	333	210	270	183
30	1,850	3,810	1,580	939	---	792	570	437	318	210	264	180
31	1,840	---	1,270	942	---	783	---	395	---	210	259	---
Total	33,964	57,860	131,830	27,745	29,830	55,887	17,834	18,015	13,889	8,214	8,672	6,956
Mean	1,096	1,929	4,253	895	1,065	1,803	594	581	463	265	280	232
Max	2,660	6,730	5,450	1,280	1,370	2,300	811	804	1,160	355	391	323
Min	307	933	1,270	551	869	783	423	395	318	210	210	180
Ac-ft	67,370	114,800	261,500	55,030	59,170	110,900	35,370	35,730	27,550	16,290	17,200	13,800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 – 2005[2], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	441	566	552	542	546	646	620	629	777	905	603	449
Max	2,033	2,410	4,253	4,704	2,379	4,254	3,826	2,450	2,948	8,372	3,866	3,674
(WY)	(1999)	(2001)	(2005)	(1992)	(1992)	(1992)	(1992)	(1992)	(1992)	(2002)	(1978)	(2002)
Min	39.0	85.4	67.9	71.2	106	98.0	57.5	59.3	47.4	24.8	36.9	38.5
(WY)	(1964)	(1964)	(1964)	(1964)	(1990)	(1971)	(1971)	(1971)	(1984)	(1984)	(1996)	(1984)

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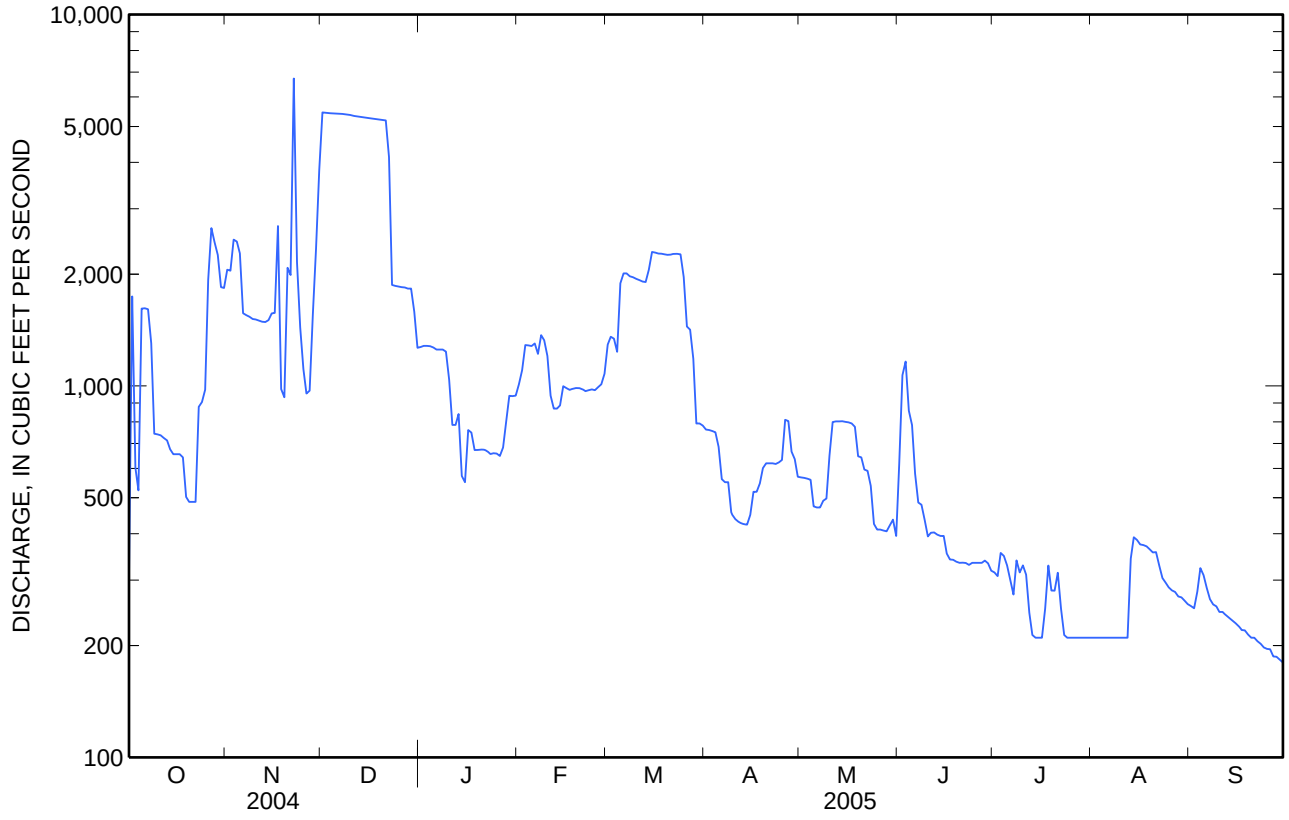
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1964 – 2005[z]	
Annual total	509,040		410,696			
Annual mean	1,391		1,125		607	
Highest annual mean					2,057	1992
Lowest annual mean					84.9	1984
Highest daily mean	6,730	Nov 22	6,730	Nov 22	62,600	Jul 6, 2002
Lowest daily mean	155	Jan 1	180	Sep 30	2.6	Sep 28, 1984
Annual seven-day minimum	155	Jan 1	190	Sep 24	2.7	Sep 25, 1984
Maximum peak flow			17,000	Nov 22	[i]101,000	Oct 17, 1998
Maximum peak stage			16.58	Nov 22	[a]35.57	Oct 17, 1998
Annual runoff (ac-ft)	1,010,000		814,600		439,600	
10 percent exceeds	4,280		2,270		1,040	
50 percent exceeds	643		672		313	
90 percent exceeds	282		214		106	

[z] Period of regulated streamflow.
[i] From indirect measurement of peak flow.
[a] From floodmark.