Water-Data Report TX-2005

08104100 Lampasas River near Belton, TX

Brazos River Basin

LOCATION.--Lat 31°00′06″, long 97°29′32″ referenced to North American Datum of 1927, Bell County, Hydrologic Unit 12070203, on left bank 22 ft upstream from upstream bridge on Interstate Highway 35 and U.S. Highway 81, 3.5 mi downstream from Stillhouse Hollow Dam, 4.1 mi southwest of Belton, and 12.7 mi upstream from mouth.

DRAINAGE AREA.--1,321 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Feb. 1963 to Sept. 1989, Apr. 1999 to current year.Water-quality records: Chemical data: Oct. 1980 to Sept. 1982.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 476.58 ft above NGVD of 1929. (From Texas Department of Highways and Public Transportation levels to a Santa Fe Railroad bench mark.) Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since water year 1967, at least 10% of contributing drainage area has been regulated. Many small diversions above station for irrigation and municipal supply. No flow several days in Aug. and Sept. 1967.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--3 years (water years 1964-66), 368 ft^3/s (266,600 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1877, 45 ft Sept. 1921, from information by local residents. Flood of May 1957 reached a stage of 44.4 ft (discharge, 83,500 ft^3/s).

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1963-1966: Maximum discharge, 77,600 ft^3/s, May 17, 1965, gage height, 43.58 ft; minimum discharge, 0.2 ft^3/s, Oct. 14, 15, 16, 1963.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	14	21	1,660	3,300	384	690	997	30	321	16	17	841
2	18	196	1,640	3,280	385	692	807	29	317	15	17	609
3	13	410	1,650	3,260	546	351	807	29	325	15	16	608
4	15	408	1,640	3,250	685	291	637	30	318	15	17	607
5	15	407	1,640	3,230	691	753	501	30	317	15	19	607
6	15	407	1,650	3,230	699	765	500	112	317	14	18	310
7	15	407	1,650	3,200	820	769	499	322	318	14	18	23
8	17	208	1,650	3,160	1,030	770	498	327	318	15	18	21
9	18	21	1,640	3,130	1,030	930	499	324	316	14	29	20
10	19	19	1,640	2,170	1,020	1,210	501	322	316	14	65	18
11	19	17	1,640	884	1,020	1,280	500	322	316	14	24	18
12	18	16	1,630	561	1,030	1,290	499	325	315	14	76	18
13	18	16	1,630	395	1,050	1,300	497	332	224	15	526	17
14	19	21	1,650	388	1,430	1,300	495	333	144	15	678	17
15	17	18	1,840	384	1,750	1,300	406	332	145	15	681	17
16	17	19	2,190	382	1,760	1,280	196	237	145	23	684	17
17	17	62	2,180	380	1,400	1,290	195	157	83	16	878	17
18	18	26	2,200	319	1,030	1,460	110	156	18	16	1,210	18
19	128	28	2,170	400	1,030	1,770	94	156	17	45	1,200	88
20	228	841	2,160	401	1,030	1,770	255	154	16	84	1,200	148
21	230	1,370	2,130	400	827	1,770	331	154	15	84	1,200	240
22	232	1,320	2,170	399	678	1,950	314	154	15	84	1,200	318
23	240	771	2,490	392	679	2,120	315	84	15	88	1,200	317
24	232	76	2,790	395	668	2,110	318	15	14	84	1,190	244
25	227	73	2,760	397	676	2,100	318	14	15	84	1,190	21
26	226	541	2,750	392	681	2,120	316	14	15	84	1,090	19
27	226	1,260	2,750	396	686	2,130	317	14	15	84	969	19
28	225	1,270	2,720	389	682	2,110	239	16	15	86	970	18
29	175	1,270	3,080	389	---	2,100	115	19	15	52	970	17
30	17	1,460	3,380	385	---	1,570	30	14	14	17	963	17
31	16	---	3,360	382	---	1,100	---	104	---	17	968	---
Total	2,704	12,979	66,130	40,020	25,397	42,441	12,106	4,661	4,754	1,168	19,301	5,269
Mean	87.2	433	2,133	1,291	907	1,369	404	150	158	37.7	623	176
Max	240	1,460	3,380	3,300	1,760	2,130	997	333	325	88	1,210	841
Min	13	16	1,630	319	384	291	30	14	14	14	16	17
Ac-ft	5,360	25,740	131,200	79,380	50,370	84,180	24,010	9,250	9,430	2,320	38,280	10,450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 – 2005[hz], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	96.1	134	201	300	247	303	279	378	326	291	87.0	91.6
Max	797	756	2,133	1,565	1,258	1,369	1,630	1,672	1,102	2,023	623	741
(WY)	(1975)	(1987)	(2005)	(1975)	(1975)	(2005)	(1970)	(1977)	(1977)	(1987)	(2005)	(1974)
Min	2.58	2.46	3.32	3.72	4.41	2.26	4.62	1.53	2.20	1.42	2.82	3.31
(WY)	(1985)	(1989)	(1989)	(1989)	(1984)	(2000)	(1989)	(2000)	(2000)	(2000)	(1971)	(1988)

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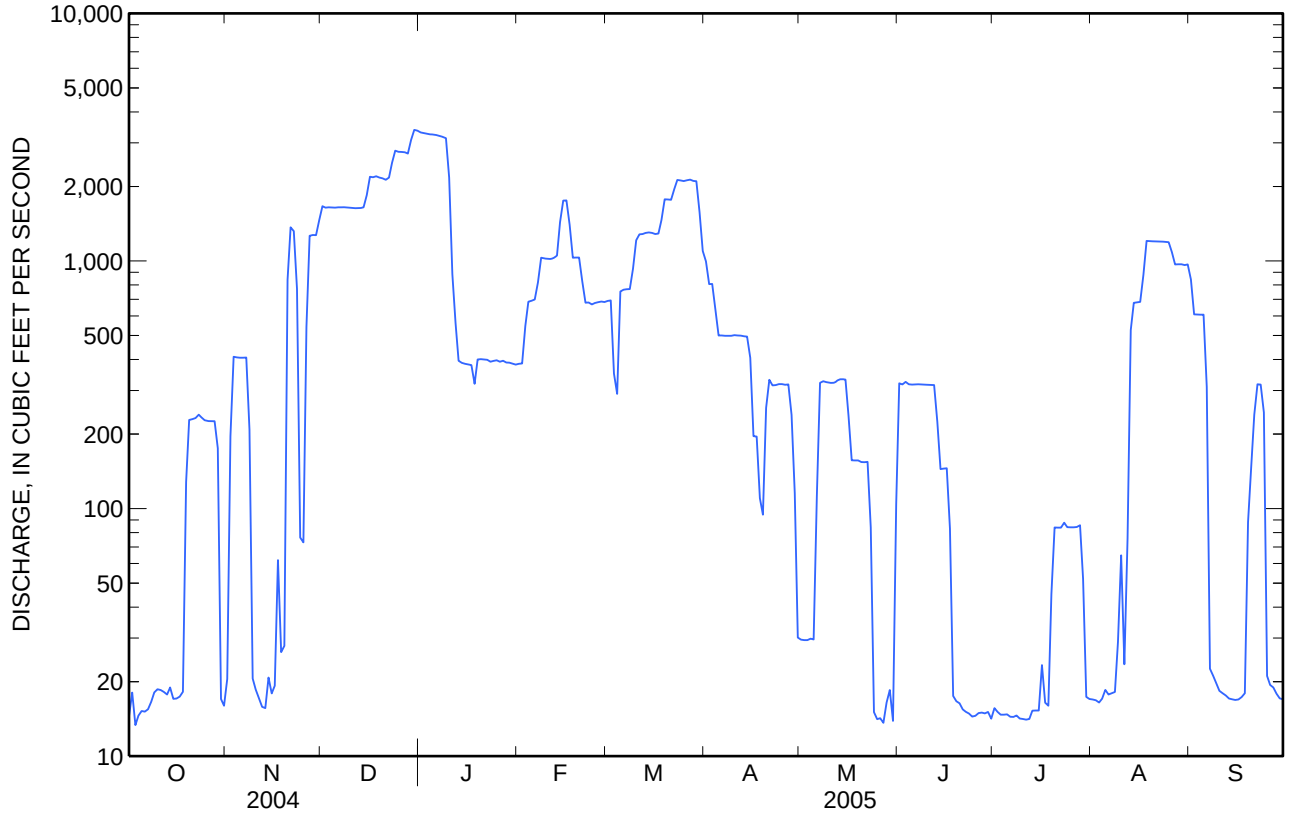
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1967 – 2005[hz]	
Annual total	158,662.3		236,930			
Annual mean	434		649		230	
Highest annual mean					713	1975
Lowest annual mean					5.23	1989
Highest daily mean	3,380	Dec 30	3,380	Dec 30	5,370	Jul 1, 1987
Lowest daily mean	7.4	Jan 1	13	Oct 3	0.00	Aug 9, 1967
Annual seven-day minimum	7.9	Mar 26	14	Jul 6	0.00	Aug 9, 1967
Maximum peak flow			3,450	Dec 29	6,240	Jul 1, 1987
Maximum peak stage			14.10	Dec 29	[y,p]19.23	Jul 1, 1987
Annual runoff (ac-ft)	314,700		470,000		166,500	
10 percent exceeds	1,390		1,770		800	
50 percent exceeds	24		322		15	
90 percent exceeds	9.0		16		4.4	

[h] See Period of Record paragraph.
[z] Period of regulated streamflow.
[y] Also occurred July 1, 1999.
[p] Observed on July 1, 1987.