

Water-Data Report 2011

08105700 San Gabriel River at Laneport, TX

Little Basin
San Gabriel Subbasin

LOCATION.--Lat 30°41'39", long 97°16'43" referenced to North American Datum of 1927, Williamson County, TX, Hydrologic Unit 12070205, on right bank at upstream side of county bridge, 0.2 mi north of Laneport, 3.4 mi downstream from Willis Creek, 7.5 mi northwest of Thrall, and 26.2 mi upstream from mouth.

DRAINAGE AREA.--738 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1965 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: July 1972 to Aug. 1989, Oct. 1999 to Sept. 2001.

BIOCHEMICAL DATA: July 1972 to Aug. 1989.

PERIOD OF DAILY RECORD, Water-Quality.--

WATER TEMPERATURE: Dec. 1976 to Mar. 1982.

REVISED RECORDS.--WRD TX-74-1: 1965(M), 1966(P), 1967(M), 1968, 1969(P), 1973(P). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 412.60 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except those estimated daily discharges, which are poor. Since water year, 1980, at least 10% of contributing drainage area has been regulated. No known diversions. No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--14 years (water years 1966-79), 289 ft³/s (209,400 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1910, 39.6 ft, occurred Sept. 1921. Other significant floods occurred Apr. 1957, 34.6 ft; and Oct. 1959, 33.8 ft; from floodmarks at present site and datum (discharges not determined).

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS, 1965-1979: Maximum discharge, 31,200 ft³/s Oct. 31, 1974 (gage height, 30.80 ft); minimum daily, 0.28 ft³/s Aug. 25-28, 1978.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	73	68	41	4.1	4.8	3.8	9.2	4.9	1.9	1.8	2.0	2.1
2	73	68	41	4.0	3.8	3.8	9.1	5.2	1.9	1.9	1.9	2.2
3	73	68	42	4.1	4.1	4.0	8.8	5.4	1.9	1.9	1.9	2.1
4	69	68	42	4.2	4.5	4.2	9.5	4.9	2.0	1.9	2.1	2.2
5	65	69	42	4.2	4.5	4.4	9.2	6.7	2.2	1.9	2.1	2.4
6	65	69	42	4.1	4.6	4.1	9.5	7.1	2.3	1.9	2.1	2.9
7	65	68	42	4.0	4.6	4.1	9.6	6.8	2.2	1.9	2.0	3.2
8	65	57	42	3.6	4.3	4.2	8.9	6.7	1.9	1.9	2.2	3.5
9	65	39	42	7.1	4.6	23	4.9	6.7	1.6	1.9	2.1	3.5
10	65	39	42	5.6	4.1	25	4.6	6.5	1.7	1.8	2.1	e3.7
11	64	39	42	4.7	4.1	24	5.0	6.6	1.7	1.9	2.1	e3.9
12	64	39	42	4.3	4.1	24	4.8	8.3	1.8	1.9	2.2	e4.0
13	64	40	38	4.5	4.3	24	4.9	6.8	1.9	1.8	2.2	e4.2
14	65	39	5.3	4.5	4.4	24	4.9	6.4	1.9	1.8	2.3	e4.4
15	65	39	4.1	5.1	4.0	23	4.8	6.4	1.9	1.8	2.3	e4.6
16	66	39	4.1	9.0	4.0	23	5.8	6.8	1.9	2.0	2.2	4.6
17	65	40	4.0	7.8	4.1	23	8.6	6.8	1.9	1.9	2.2	4.5
18	65	40	4.0	5.2	3.9	23	8.4	5.5	1.9	2.0	2.2	4.8
19	65	40	4.1	4.6	3.9	23	8.1	28	1.8	2.0	2.2	4.6
20	65	40	4.1	4.6	3.8	22	6.7	25	1.8	1.9	2.2	3.8
21	65	41	4.1	4.4	4.0	22	6.3	2.9	1.9	1.9	2.3	3.5
22	65	41	4.1	4.4	3.9	22	5.2	2.1	3.4	1.9	2.4	3.4
23	65	41	4.0	4.6	4.1	22	5.4	8.1	1.9	1.9	2.1	3.2
24	65	41	5.2	4.7	4.2	22	6.6	29	1.9	1.9	2.1	3.2
25	66	40	4.4	4.7	4.1	22	5.4	29	1.9	1.9	2.1	3.0
26	66	40	3.8	4.6	4.0	22	4.7	29	1.9	2.0	2.1	2.9
27	66	41	3.8	4.7	4.1	21	4.7	26	1.8	1.9	2.1	3.5
28	67	41	4.0	4.8	3.8	22	4.6	3.6	1.8	1.9	2.1	3.2
29	66	42	3.9	4.7	---	22	4.8	2.6	1.9	1.9	2.1	3.1
30	67	41	3.9	4.6	---	22	4.8	2.4	1.8	2.0	2.1	3.1
31	68	---	4.0	4.6	---	18	---	2.0	---	2.0	2.1	---
Total	2,052	1,417	614.9	150.1	116.7	550.6	197.8	304.2	58.3	59.0	66.2	103.3
Mean	66.2	47.2	19.8	4.84	4.17	17.8	6.59	9.81	1.94	1.90	2.14	3.44
Max	73	69	42	9.0	4.8	25	9.6	29	3.4	2.0	2.4	4.8
Min	64	39	3.8	3.6	3.8	3.8	4.6	2.0	1.6	1.8	1.9	2.1
Ac-ft	4,070	2,810	1,220	298	231	1,090	392	603	116	117	131	205

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2011^Z, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	115	189	280	255	300	385	303	348	370	342	94.7	143
Max	1,004	1,304	2,377	1,233	1,626	2,210	1,685	2,103	1,732	2,196	1,524	1,432
(WY)	(2008)	(2010)	(2005)	(1987)	(2010)	(1992)	(1992)	(1997)	(1981)	(1992)	(2007)	(2007)
Min	2.09	2.65	3.00	2.52	2.62	2.18	0.69	0.66	0.56	0.19	0.02	0.00
(WY)	(2009)	(2009)	(2009)	(2009)	(1980)	(2009)	(2009)	(2009)	(2009)	(1984)	(1984)	(1984)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1980 - 2011 ^z	
Annual total	147,281.7		5,690.1			
Annual mean	404		15.6		260	
Highest annual mean					1,015	1992
Lowest annual mean					1.90	2009
Highest daily mean	3,950	Sep 14	73	Oct 1	6,870	Mar 5, 1992
Lowest daily mean	2.5	Jul 1	1.6	Jun 9	0.00	Aug 21, 1984
Annual seven-day minimum	2.6	Jun 29	1.8	Jun 8	0.00	Aug 21, 1984
Maximum peak flow			103	Mar 9	7,540	Mar 5, 1992
Maximum peak stage			5.75	Mar 9	21.86	Mar 5, 1992
Annual runoff (ac-ft)	292,100		11,290		188,600	
10 percent exceeds	1,230		64		896	
50 percent exceeds	66		4.5		32	
90 percent exceeds	3.7		1.9		3.3	

^z Period of Regulated streamflow.

