Water-Data Report 2013

08206700 San Miguel Creek near Tilden, TX

Nueces Basin
San Miguel Subbasin

LOCATION.--Lat 28°35′14″, long 98°32′44″ referenced to North American Datum of 1927, McMullen County, TX, Hydrologic Unit 12110109, on left bank 25 ft downstream from State Highway 16, 0.3 mi upstream from mouth of Bruce Branch, 0.9 mi downstream from mouth of Far Live Oak Creek, 3.0 mi upstream from San Patricio Creek, 7.0 mi downstream from Clear Creek, 8.7 mi north of Tilden, and 12.9 mi upstream from mouth.

DRAINAGE AREA.--783 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1964 to current year.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Dec. 1965 to May 1968, Dec. 1977 to Oct. 1983.
BIOCHEMICAL DATA: Dec. 1965 to May 1967, July 1978 to Oct. 1983.
PESTICIDE DATA: Aug. 1978 to Aug. 1983.
RADIOCHEMICAL DATA: Jan. 1981 to June 1981.
SEDIMENT DATA: Dec. 1977, June 1979 to May 1980.

REVISED RECORDS.--WDR TX-83-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 242.95 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. No known regulation. There are five diversions above station, but amounts are unknown. At times, water from Bexar-Medina-Atascosa Counties Water Improvement District No. 1 system enters San Miguel Creek basin via Chacon Creek 52 mi upstream (amounts unknown). No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1919, 32.6 ft in 1942; stage of 1919 flood not known, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 850 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 24	1700	*126	*4.55

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	7.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	3.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	1.2	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.71	0.00	0.00	0.00	1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.23	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	12
9	0.05	0.00	0.00	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.8
10	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
11	0.00	0.00	0.00	0.01	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.1	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.5	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.6	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.7	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.0
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	12
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.13
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	116.39	0.00	0.00	18.57	41.04	0.00	0.00	19.64	0.53	11.08	1.78	36.97
Mean	3.75	0.00	0.00	0.60	1.47	0.00	0.00	0.63	0.02	0.36	0.06	1.23
Max	79	0.00	0.00	18	22	0.00	0.00	18	0.52	8.1	1.7	12
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ac-ft	231	0.00	0.00	37	81	0.00	0.00	39	1.1	22	3.5	73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	64.6	26.2	13.3	20.8	21.1	13.9	50.6	94.6	83.9	94.6	42.7	106
Max	610	321	226	641	352	216	1,065	900	690	1,828	741	1,755
(WY)	(2003)	(2005)	(1987)	(1968)	(1992)	(2007)	(1977)	(1980)	(1987)	(2002)	(1980)	(2002)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1980)	(1995)	(1989)	(1989)	(1995)	(1996)	(1996)	(1971)	(1967)	(1996)	(1991)	(1999)

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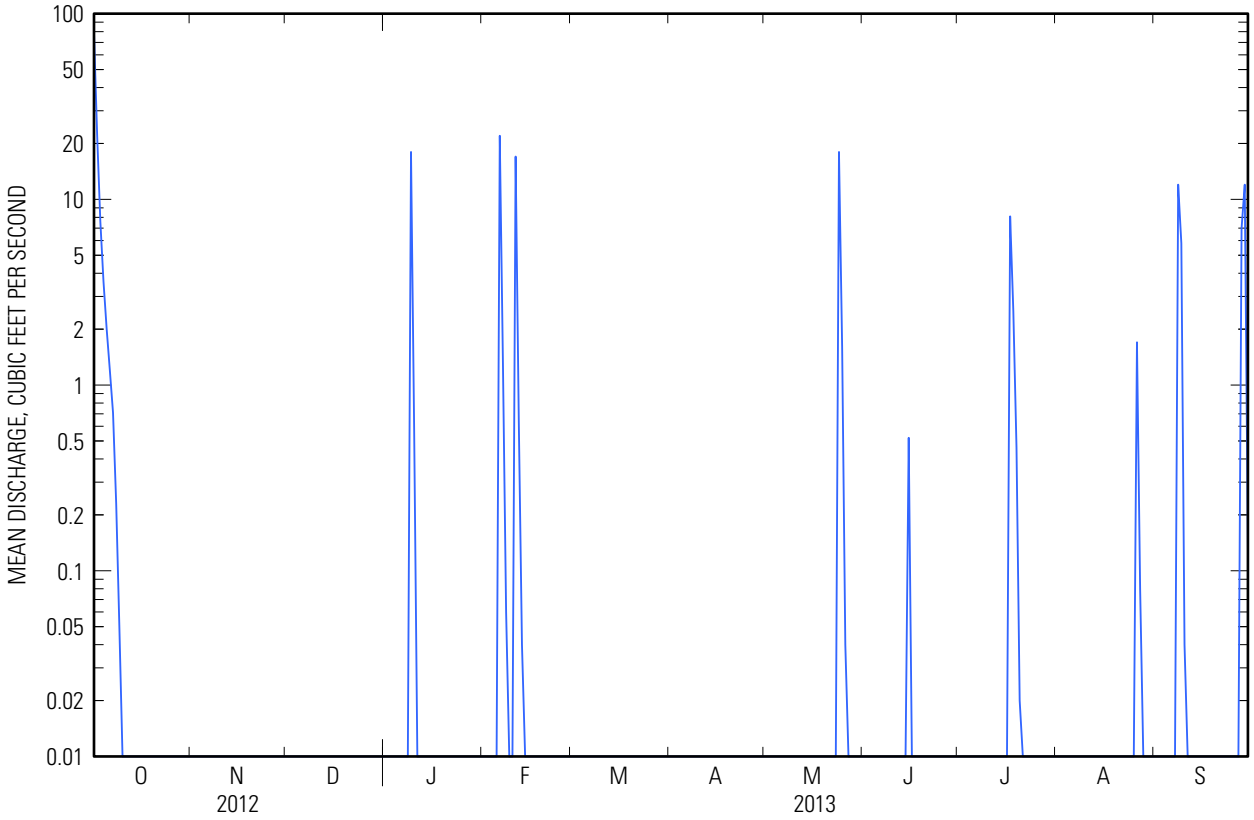
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1964 - 2013	
Annual total	3,717.30		246.00			
Annual mean	10.2		0.67		53.5	
Highest annual mean					309	2002
Lowest annual mean					0.26	2011
Highest daily mean	847	May 11	79	Oct 1	22,400	Sep 10, 2002
Lowest daily mean	0.00	Jan 1	0.00	Oct 10	0.00	Feb 1, 1964
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 10	0.00	Feb 7, 1964
Maximum peak flow			126	May 24	29,500	Sep 10, 2002
Maximum peak stage			4.55	May 24	31.64	Sep 10, 2002
Annual runoff (ac-ft)	7,370		488		38,760	
10 percent exceeds	0.68		0.00		35	
50 percent exceeds	0.00		0.00		1.3	
90 percent exceeds	0.00		0.00		0.00