

Water-Data Report 2011

08196000 Dry Frio River near Reagan Wells, TX

Nueces Basin
Upper Frio Subbasin

LOCATION.--Lat 29°30'16", long 99°46'52" referenced to North American Datum of 1927, Uvalde County, TX, Hydrologic Unit 12110106, on right bank 2.3 mi upstream from bridge on U.S. Highway 83, 3.1 mi upstream from Rocky Creek, 4.3 mi southeast of Reagan Wells, and 25.9 mi upstream from mouth.

DRAINAGE AREA.--126 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Sept. 1952 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Jan. 1966 to Aug. 1968, Feb. 1970, Jan. 1974 to Aug. 1993.

BIOCHEMICAL DATA: Jan. 1966 to Nov. 1967, Feb. 1970, Jan. 1974 to Aug. 1993.

BIOLOGICAL DATA: Feb. 1970, Jan. 1974 to Aug. 1993.

PESTICIDE DATA: Jan. 1974 to Aug. 1993.

RADIOCHEMICAL DATA: Jan. 1981 to Apr. 1981.

REVISED RECORDS.--WSP 1712: 1953. WSP 1923: 1955(M). WDR TX-83-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,335.2 ft above NGVD of 1929, from Texas Department of Transportation datum. Satellite telemeter at station.

REMARKS.--Record good. No known regulation. There are several small diversions above station. 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 at least 1875 occurred in 1880 (about 33 ft). Flood of June 14, 1935, reached a stage of 26.0 ft (discharge, 64,700 ft³/s, determined at site 2.6 mi upstream), and flood of July 1, 1932, reached a stage of 23 ft (discharge, 30,700 ft³/s, determined at site 2.0 mi upstream), from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 1	0000	*7.5	*1.65

Water-Data Report 2011

08196000 Dry Frio River near Reagan Wells, TX—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.4	4.5	3.5	4.0	4.1	4.5	4.0	1.6	0.95	0.28	1.4	0.49
2	7.2	4.5	3.5	3.7	4.2	4.3	4.0	1.5	0.86	0.24	1.3	0.48
3	7.0	4.5	3.5	3.7	4.0	4.3	3.8	1.5	0.85	0.24	1.1	0.50
4	6.7	4.3	3.6	3.7	4.0	4.3	3.3	1.5	0.82	0.20	1.0	0.50
5	6.3	4.1	3.6	3.7	4.0	4.1	3.3	1.5	0.75	0.23	0.95	0.42
6	6.1	3.9	3.7	3.7	4.1	4.1	3.1	1.5	0.67	0.37	0.86	0.37
7	6.0	3.9	3.6	3.7	4.3	4.1	3.0	1.4	0.59	0.41	0.81	0.35
8	5.8	4.0	3.5	3.6	4.3	4.4	3.0	1.4	0.57	0.40	0.75	0.30
9	5.7	4.0	3.5	5.1	4.1	4.3	2.9	1.3	0.54	0.38	0.73	0.29
10	5.7	4.0	3.5	4.8	4.0	4.3	2.9	1.3	0.51	0.38	0.71	0.31
11	5.7	4.2	3.5	4.3	4.0	4.3	2.8	1.3	0.49	0.39	0.69	0.28
12	5.7	4.2	3.5	4.0	4.1	4.3	2.7	1.8	0.46	0.34	1.1	0.35
13	5.7	4.0	3.5	3.7	4.2	4.3	2.7	1.6	0.44	0.32	0.93	0.21
14	5.7	4.0	3.4	3.7	4.2	4.3	2.6	1.7	0.42	0.30	0.78	0.20
15	5.6	4.0	3.5	3.8	4.3	4.3	2.4	1.9	0.41	0.44	0.75	0.17
16	5.4	3.7	3.5	4.2	4.6	4.3	2.4	2.0	0.36	0.52	0.72	0.26
17	5.2	3.6	3.5	4.3	4.8	4.3	2.4	2.1	0.34	0.47	0.84	0.30
18	5.2	3.6	3.3	4.4	4.8	4.5	2.4	2.0	0.33	0.52	0.96	0.30
19	5.2	3.6	3.3	4.4	4.8	4.5	2.3	1.9	0.32	1.0	0.93	0.32
20	5.1	3.6	3.4	4.3	4.8	4.5	2.3	1.8	0.31	0.96	0.94	0.24
21	5.3	3.7	3.4	4.1	4.8	4.4	2.3	1.7	0.32	0.79	0.91	0.32
22	5.3	3.7	3.6	4.0	4.8	4.3	2.3	1.6	0.48	0.91	0.89	0.38
23	5.3	3.9	3.7	4.0	4.8	4.3	2.2	1.6	0.32	0.95	0.82	0.48
24	5.4	4.0	4.0	4.0	4.7	4.3	2.2	1.5	0.33	1.2	0.75	0.48
25	5.3	4.1	4.3	4.0	4.6	4.3	2.2	1.4	0.30	0.94	0.72	0.39
26	5.0	3.9	4.2	4.0	4.7	4.3	2.1	1.3	0.28	0.95	0.63	0.28
27	4.9	3.7	4.0	3.8	4.8	4.2	2.0	1.2	0.28	1.1	0.62	0.29
28	4.6	3.7	4.0	4.1	4.5	4.1	1.9	1.2	0.28	1.2	0.58	0.42
29	4.5	3.6	4.2	4.1	---	4.0	1.7	1.1	0.27	1.4	0.63	0.39
30	4.5	3.5	4.5	4.1	---	4.0	1.7	1.1	0.28	1.7	0.54	0.53
31	4.4	---	4.2	4.1	---	4.0	---	1.00	---	1.6	0.50	---
Total	172.9	118.0	114.0	125.1	123.4	132.5	78.9	47.30	14.13	21.13	25.84	10.60
Mean	5.58	3.93	3.68	4.04	4.41	4.27	2.63	1.53	0.47	0.68	0.83	0.35
Max	7.4	4.5	4.5	5.1	4.8	4.5	4.0	2.1	0.95	1.7	1.4	0.53
Min	4.4	3.5	3.3	3.6	4.0	4.0	1.7	1.0	0.27	0.20	0.50	0.17
Ac-ft	343	234	226	248	245	263	156	94	28	42	51	21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	52.2	33.2	25.6	20.7	22.8	26.8	30.4	37.0	57.2	44.7	33.8	34.4
Max	258	134	185	120	131	208	257	338	483	514	365	277
(WY)	(1970)	(1968)	(1992)	(1992)	(1992)	(1992)	(1981)	(1987)	(1987)	(2002)	(1966)	(1958)
Min	0.00	0.00	0.05	0.51	0.87	2.09	1.50	0.86	0.19	0.08	0.00	0.00
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(2002)	(1956)	(1956)	(1953)	(1953)	(1956)	(1956)

08196000 Dry Frio River near Reagan Wells, TX—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1952 - 2011	
Annual total	9,156.5	983.80		
Annual mean	25.1	2.70	35.0	
Highest annual mean			121	1987
Lowest annual mean			2.70	2011
Highest daily mean	652	Apr 16	7.4	Oct 1
Lowest daily mean	1.3	Aug 24	0.17	Sep 15
Annual seven-day minimum	1.4	Aug 29	0.25	Jun 29
Maximum peak flow			5.7	Jan 9
Maximum peak stage			1.68	Jan 9
Annual runoff (ac-ft)	18,160	1,950	i123,000	Aug 13, 1966
10 percent exceeds	48	4.8	25,350	64
50 percent exceeds	9.2	3.4		14
90 percent exceeds	2.4	0.35		2.2

ⁱ From indirect measurement of peak flow.

a From floodmark.

