

08162600 Tres Palacios River near Midfield, TX

Central Texas Coastal Basin
 Central Matagorda Bay Subbasin

LOCATION.--Lat 28°55'40", long 96°10'15" referenced to North American Datum of 1927, Matagorda County, TX, Hydrologic Unit 12100401, at left downstream end of bridge on Farm Road 456, 1.0 mi downstream from Juanita Creek, and 2.4 mi southeast of Midfield.

DRAINAGE AREA.--145 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1970 to current year. Prior to Oct. 1973, published as "Tres Palacios Creek near Midfield".

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Oct. 1968 to Sept. 1981.

BIOCHEMICAL DATA: Oct. 1968 to Sept. 1981.

PESTICIDE DATA: Oct. 1968 to Sept. 1981.

GAGE.--Water-stage recorder. Datum of gage is 5.38 ft above NGVD of 1929. Apr. 29, 1988 to Sept. 4, 1991, at right downstream end of bridge at same datum. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation. There are ten known diversions above station, but amounts are unknown. An undetermined amount of water from irrigated rice fields enters the river at various points upstream from station. Extensive channel cleaning upstream and downstream from the gage was begun during the 1983 water year and completed during the 1984 water year. Vegetation in the flood plain has increased in density in recent years. 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 1885, 37 ft in June 1960, and 35 ft in Aug. 1945, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 30	0400	*1,310	*18.72

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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	21	11	8.6	98	20	10	15	9.4	29	9.5	20	3.7
2	20	18	9.7	40	17	10	13	10	23	16	16	3.5
3	17	17	14	26	19	14	12	9.2	18	21	12	3.4
4	15	16	14	21	20	15	19	8.0	13	22	8.2	4.4
5	15	19	10	18	15	12	24	9.5	11	16	6.1	5.7
6	14	21	8.5	17	14	12	17	12	9.1	11	11	5.1
7	16	18	8.3	19	13	13	14	8.1	9.2	9.4	13	4.8
8	17	17	8.6	17	13	12	18	12	14	10	9.1	5.2
9	16	14	10	232	13	17	18	9.7	15	9.3	6.7	8.1
10	15	18	14	279	13	21	17	11	15	9.7	6.4	11
11	14	22	15	90	14	21	20	12	15	11	9.1	11
12	14	20	14	37	15	19	18	14	21	12	5.0	9.1
13	13	22	12	24	13	15	14	35	24	12	5.6	6.9
14	13	22	9.1	22	14	12	19	35	25	14	8.2	6.3
15	15	22	8.5	23	13	14	19	16	18	12	5.8	6.3
16	17	15	9.0	34	14	13	12	14	17	12	3.8	5.7
17	18	13	13	168	14	18	10	9.6	14	10	3.5	3.9
18	15	12	13	118	17	21	13	9.2	10	13	3.5	4.2
19	12	15	11	47	16	16	12	9.1	9.0	13	3.6	9.0
20	12	15	8.5	29	14	15	11	12	7.7	16	6.0	14
21	15	12	8.5	24	13	14	13	14	9.9	17	6.2	16
22	22	11	8.5	22	12	9.8	16	12	28	13	5.2	15
23	22	12	8.1	18	12	9.0	15	12	37	11	3.9	12
24	21	11	7.9	355	16	10	11	9.8	30	12	3.7	10
25	21	10	10	573	16	9.2	11	9.1	29	14	4.5	9.1
26	24	12	18	161	12	9.5	9.8	16	25	14	4.7	7.7
27	17	11	18	55	12	9.4	11	13	17	13	8.7	6.0
28	14	10	12	35	11	13	14	16	16	16	9.4	5.0
29	15	10	321	28	---	16	9.3	20	14	15	7.2	4.5
30	13	9.4	1,080	23	---	15	6.7	22	10	14	5.2	4.5
31	11	---	373	21	---	16	---	23	---	25	4.3	---
Total	504	455.4	2,083.8	2,674	405	430.9	431.8	431.7	532.9	422.9	225.6	221.1
Mean	16.3	15.2	67.2	86.3	14.5	13.9	14.4	13.9	17.8	13.6	7.28	7.37
Max	24	22	1,080	573	20	21	24	35	37	25	20	16
Min	11	9.4	7.9	17	11	9.0	6.7	8.0	7.7	9.3	3.5	3.4
Ac-ft	1,000	903	4,130	5,300	803	855	856	856	1,060	839	447	439

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	230	171	123	144	139	110	124	227	163	166	51.8	231
Max	1,375	1,026	568	558	978	1,058	689	1,080	782	1,573	177	1,308
(WY)	(1985)	(2005)	(1992)	(2007)	(1992)	(1997)	(1997)	(1982)	(2004)	(2007)	(2007)	(1979)
Min	8.43	3.66	5.29	4.83	6.66	7.79	10.4	13.9	10.4	7.58	7.28	6.45
(WY)	(2000)	(2000)	(2000)	(1971)	(1976)	(1996)	(1989)	(2011)	(1990)	(2009)	(2011)	(2000)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1970 - 2011	
Annual total	54,214.2		8,819.1			
Annual mean	149		24.2		157	
Highest annual mean					325	1992
Lowest annual mean					24.2	2011
Highest daily mean	4,450	May 16	1,080	Dec 30	12,500	Oct 19, 1994
Lowest daily mean	7.9	Dec 24	3.4	Sep 3	0.22	Aug 18, 2000
Annual seven-day minimum	8.9	Dec 19	4.3	Aug 31	1.0	Aug 17, 2000
Maximum peak flow			1,310	Dec 30	17,000	Oct 17, 1984
Maximum peak stage			18.72	Dec 30	32.43	Oct 17, 1984
Annual runoff (ac-ft)	107,500		17,490		113,700	
10 percent exceeds	239		23		247	
50 percent exceeds	24		13		22	
90 percent exceeds	13		6.7		8.4	

