



Water-Data Report 2011

08211520 Oso Creek at Corpus Christi, TX

Southwestern Texas Coastal Basin
South Corpus Christi Bay Subbasin

LOCATION.--Lat 27°42'40", long 97°30'06" referenced to North American Datum of 1927, Nueces County, TX, Hydrologic Unit 12110202, on left downstream end of bridge on Farm Road 763, 1.5 mi south of intersection of Farm Roads 763 and 665, 1.6 mi downstream from mouth of West Oso Creek, and 1.9 mi southwest of intersection of Farm Road 665 and State Highway 357.

DRAINAGE AREA.--90.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Sept. 1972 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: July 1972 to Aug. 1988.

BIOCHEMICAL DATA: July 1972 to Aug. 1988.

PESTICIDE DATA: July 1972 to July 1981.

RADIOCHEMICAL DATA: Jan. 1981 to June 1981.

GAGE.--Water-stage recorder. Datum of gage is 1.91 ft below NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. An undetermined amount of water from oil-field operations enters the stream upstream from station at various points. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 24.5 ft occurred in May 1968, from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 16	2300	*174	*10.69

08211520 Oso Creek at Corpus Christi, 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	14	4.9	2.0	3.8	3.3	2.4	2.0	1.6	1.3	1.8	1.3	0.92
2	12	5.2	2.0	3.2	3.1	2.4	2.0	1.5	1.3	1.6	1.2	1.1
3	8.2	5.3	2.0	2.8	2.8	2.3	2.0	1.5	1.2	1.4	1.2	1.1
4	6.4	4.8	1.9	2.8	3.0	2.9	2.1	1.6	1.1	1.2	1.3	1.0
5	5.9	3.3	1.7	3.7	3.5	3.9	1.9	2.1	1.0	1.2	1.2	0.83
6	5.7	2.5	1.6	6.4	3.6	3.1	1.8	2.2	1.1	1.7	1.2	0.74
7	4.8	2.2	1.7	3.2	3.4	2.6	1.7	2.3	1.1	1.5	1.1	0.81
8	3.8	2.2	1.9	3.1	3.2	2.5	1.7	2.3	1.2	1.3	1.2	0.84
9	3.8	2.1	1.9	13	3.1	2.6	1.7	2.1	1.3	1.4	1.2	0.95
10	4.4	2.2	2.1	58	3.0	2.6	1.7	1.9	1.3	1.5	1.2	0.90
11	4.3	2.3	2.2	22	2.9	2.1	1.6	2.3	1.1	1.5	1.2	0.88
12	4.0	2.1	1.9	7.2	3.0	1.8	1.5	15	1.2	1.4	1.4	0.80
13	3.7	2.0	1.8	4.4	3.1	1.9	1.5	57	1.2	1.3	1.3	0.81
14	2.9	1.9	1.8	3.5	3.0	2.1	1.6	102	1.2	1.1	1.2	0.87
15	2.5	2.1	2.2	4.3	3.0	4.0	1.5	29	1.2	0.97	1.2	0.95
16	2.8	2.8	2.5	119	3.1	18	1.6	11	1.3	1.0	1.1	0.98
17	2.6	3.0	2.4	125	3.4	8.1	1.5	6.3	1.3	1.1	1.5	3.8
18	2.6	3.0	2.2	41	3.3	3.9	1.5	4.5	1.2	1.0	1.8	3.4
19	2.4	2.5	2.0	16	3.4	2.9	1.6	3.9	1.2	1.0	1.5	2.9
20	2.8	2.3	2.1	7.6	3.2	2.3	1.7	3.4	1.2	1.0	1.3	2.9
21	2.9	2.0	2.2	5.5	3.3	2.1	1.8	3.0	1.3	1.1	1.3	2.4
22	2.8	2.0	2.2	4.2	3.3	2.1	1.8	2.7	1.7	1.1	1.1	2.0
23	2.8	2.2	2.4	6.6	3.5	2.1	1.6	2.3	1.7	1.1	0.96	1.8
24	2.7	2.4	2.8	11	3.6	2.2	1.6	2.1	1.6	1.1	1.0	1.9
25	2.8	2.3	3.2	9.8	3.0	2.2	1.6	2.1	1.4	1.0	1.1	1.8
26	2.7	2.2	3.2	7.1	2.8	2.1	1.8	2.0	1.4	1.0	1.2	1.8
27	3.2	2.1	3.6	5.0	2.6	2.1	2.0	1.8	1.3	1.0	1.1	1.7
28	3.0	2.0	3.5	4.3	2.4	2.1	1.6	1.7	1.2	0.95	1.1	1.9
29	3.2	2.2	3.6	4.0	---	2.0	1.4	1.7	1.4	1.2	1.0	2.0
30	4.4	2.1	3.6	3.6	---	2.1	1.6	1.4	1.4	1.2	0.95	2.0
31	5.0	---	4.0	3.5	---	2.0	---	1.2	---	1.3	0.90	---
Total	135.1	80.2	74.2	514.6	87.9	97.5	51.0	275.5	38.4	38.02	37.31	46.78
Mean	4.36	2.67	2.39	16.6	3.14	3.15	1.70	8.89	1.28	1.23	1.20	1.56
Max	14	5.3	4.0	125	3.6	18	2.1	102	1.7	1.8	1.8	3.8
Min	2.4	1.9	1.6	2.8	2.4	1.8	1.4	1.2	1.0	0.95	0.90	0.74
Ac-ft	268	159	147	1,020	174	193	101	546	76	75	74	93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	63.7	25.7	11.9	12.5	17.3	15.1	21.3	27.3	43.4	43.6	23.6	58.4
Max	477	226	181	130	238	128	221	185	379	766	454	455
(WY)	(1998)	(2002)	(1992)	(1984)	(1982)	(1995)	(2004)	(1993)	(1993)	(2007)	(1980)	(2010)
Min	1.26	0.77	1.15	1.33	1.19	0.89	0.72	1.02	1.09	0.81	0.65	1.56
(WY)	(1991)	(2007)	(2000)	(2000)	(2002)	(1988)	(2006)	(2002)	(1998)	(2009)	(2006)	(2011)

08211520 Oso Creek at Corpus Christi, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1972 - 2011	
Annual total	25,320.4		1,476.51			
Annual mean	69.4		4.05		30.3	
Highest annual mean					76.8	2007
Lowest annual mean					2.72	2009
Highest daily mean	3,980	Sep 20	125	Jan 17	6,160	Aug 11, 1980
Lowest daily mean	1.5	Aug 28	0.74	Sep 6	0.14	Aug 15, 2001
Annual seven-day minimum	1.6	Aug 23	0.85	Sep 6	0.15	Aug 13, 2001
Maximum peak flow			174	Jan 16	12,100	Aug 10, 1980
Maximum peak stage			10.69	Jan 16	^a 30.33	Apr 26, 2004
Annual runoff (ac-ft)	50,220		2,930		21,980	
10 percent exceeds	82		4.6		18	
50 percent exceeds	3.4		2.1		2.2	
90 percent exceeds	1.9		1.1		1.1	

^a From floodmark.

