



Water-Data Report 2008

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)
Sep 30	1530	407	14.12
Jul 24	1315	*1,820	*21.03
Aug 17	2230	786	17.06
Aug 23	2215	951	17.94

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	196	2.1	3.4	1.9	1.8	1.1	0.92	1.6	3.4	1.1	2.2	3.9
2	68	2.1	3.1	1.7	1.6	1.2	0.97	1.8	3.6	1.2	1.9	3.5
3	34	2.1	2.9	1.6	1.8	1.1	0.86	1.6	2.8	1.3	1.7	3.1
4	14	2.0	2.9	1.7	2.0	1.0	0.91	1.3	2.4	2.4	1.5	2.9
5	7.1	1.8	3.2	1.8	2.0	0.98	0.87	1.5	2.9	2.6	1.4	2.1
6	4.4	1.8	3.2	1.7	1.8	2.8	0.75	1.6	2.6	6.6	1.4	1.8
7	3.3	1.7	3.1	1.6	1.6	169	0.77	1.5	2.6	14	5.0	1.9
8	3.3	1.8	3.5	1.6	1.5	55	0.75	1.4	2.4	17	6.2	1.8
9	7.8	1.9	3.5	1.7	1.6	14	0.97	1.2	2.0	21	2.9	1.8
10	11	2.1	3.4	1.7	1.6	38	0.99	1.2	1.8	21	1.8	2.2
11	5.1	2.0	3.1	1.5	1.8	14	0.96	1.5	1.8	15	1.3	1.9
12	3.5	2.2	2.8	1.4	1.9	4.4	0.94	1.3	1.9	9.8	1.3	3.3
13	2.8	2.4	6.2	1.5	1.6	3.4	0.87	1.1	1.7	7.0	1.3	7.5
14	2.4	2.6	4.7	1.3	1.6	2.8	0.86	1.1	1.8	4.5	2.3	29
15	2.1	2.2	2.8	1.5	1.5	2.2	0.69	0.96	1.7	2.8	14	16
16	1.9	1.9	1.7	2.7	1.6	1.7	0.82	3.6	1.7	2.1	8.4	5.3
17	2.0	2.4	1.7	4.1	1.6	1.6	0.82	8.4	1.6	1.9	331	3.6
18	1.9	3.2	2.0	4.6	1.5	1.4	0.92	11	1.5	1.5	486	2.9
19	2.0	3.3	2.1	9.8	1.4	1.2	0.97	6.9	1.4	1.6	180	2.4
20	1.8	3.4	2.2	22	1.5	1.1	0.86	4.8	1.3	1.7	146	2.4
21	3.0	3.4	1.9	11	1.6	0.96	0.80	4.0	1.2	1.7	77	2.4
22	2.6	3.1	1.9	5.3	1.7	0.90	1.0	3.8	1.1	1.7	47	2.0
23	2.1	2.9	1.8	3.7	1.7	0.94	1.0	3.6	1.1	70	604	6.1
24	1.7	3.6	1.8	3.2	1.7	0.83	1.0	3.5	1.6	1,300	721	5.4
25	1.6	3.6	2.0	3.0	1.5	0.89	0.95	3.6	1.4	691	430	4.4
26	1.7	3.6	1.9	2.8	1.3	0.80	6.5	3.5	1.2	114	93	3.3
27	1.8	3.7	1.7	2.9	1.1	0.87	5.4	3.3	1.2	35	34	2.7
28	1.8	4.0	1.4	2.7	1.1	0.90	5.5	3.3	1.4	15	16	2.4
29	1.9	3.4	1.5	2.5	0.99	0.94	2.7	3.3	1.3	8.6	8.6	2.1
30	1.9	3.2	1.9	2.2	---	0.96	1.8	3.2	1.2	5.0	6.2	1.8
31	1.9	---	1.6	2.1	---	0.92	---	3.3	---	2.9	4.7	---
Total	396.4	79.5	80.9	108.8	45.99	327.89	44.12	93.76	55.6	2,381.0	3,239.1	131.9
Mean	12.8	2.65	2.61	3.51	1.59	10.6	1.47	3.02	1.85	76.8	104	4.40
Max	196	4.0	6.2	22	2.0	169	6.5	11	3.6	1,300	721	29
Min	1.6	1.7	1.4	1.3	0.99	0.80	0.69	0.96	1.1	1.1	1.3	1.8
Ac-ft	786	158	160	216	91	650	88	186	110	4,720	6,420	262

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	68.7	27.3	11.8	10.7	16.8	16.1	22.3	29.1	46.8	42.1	25.4	50.2
Max	477	226	181	130	238	128	221	185	379	766	454	228
(WY)	(1998)	(2002)	(1992)	(1984)	(1982)	(1995)	(2004)	(1993)	(1993)	(2007)	(1980)	(1979)
Min	1.26	0.77	1.15	1.33	1.19	0.89	0.72	1.02	1.09	0.86	0.65	1.56
(WY)	(1991)	(2007)	(2000)	(2000)	(2002)	(1988)	(2006)	(2002)	(1998)	(1996)	(2006)	(2000)

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	Calendar Year 2007	Water Year 2008	Water Years 1972 - 2008	
Annual total	28,353.03	6,984.96		
Annual mean	77.7	19.1	30.6	
Highest annual mean			76.8	2007
Lowest annual mean			3.03	1989
Highest daily mean	3,520	Jul 5	1,300	Jul 24
Lowest daily mean	0.50	Jun 19	0.69	Apr 15
Annual seven-day minimum	0.57	Jun 13	0.84	Apr 2
Maximum peak flow			1,820	Jul 24
Maximum peak stage			21.03	Jul 24
Annual runoff (ac-ft)	56,240	13,850	22,200	
10 percent exceeds	72	12	19	
50 percent exceeds	2.3	2.0	2.3	
90 percent exceeds	0.90	1.00	1.1	

^a From floodmark.

