



Water-Data Report 2011

07342465 South Sulphur River at Commerce, TX

Big Cypress-Sulphur Basin
Sulphur Headwaters Subbasin

LOCATION.--Lat 33°12'42", long 95°54'50" referenced to North American Datum of 1927, Hunt County, TX, Hydrologic Unit 11140301, on right bank at downstream side of bridge on south-bound State Highway 24, 13 mi upstream from Dunbar Creek, and 2.8 mi south of Commerce.

DRAINAGE AREA.--150 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 460.74 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for Dec. to Mar., which are poor. Some records listed in the Period of Record for surface water may not be available electronically. No known regulation or diversions. No flow at times.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 21	0215	*4,560	*16.91

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.2	1.8	1.5	49	e2.3	14	1.6	6.6	2.7	1.2	0.52	0.26
2	1.3	3.1	1.4	43	e2.0	6.5	1.7	857	2.1	1.1	0.49	0.29
3	1.3	619	1.5	18	e1.6	4.1	1.5	2,690	1.8	1.1	0.42	0.25
4	1.2	498	1.6	8.9	e1.7	2.8	1.8	583	1.6	1.1	0.39	0.24
5	1.2	100	1.5	5.3	e1.8	2.1	1.8	100	1.5	0.99	0.49	0.23
6	1.0	28	1.5	3.7	8.3	1.8	1.6	30	1.5	0.84	0.57	0.33
7	0.99	12	1.6	2.9	66	1.9	1.5	11	1.4	0.76	0.51	0.33
8	1.1	5.7	1.5	2.5	123	3.4	1.5	5.3	1.2	0.83	0.33	0.47
9	1.1	3.4	1.4	2.8	e51	43	1.3	3.3	1.1	0.75	0.27	0.64
10	1.1	2.4	1.4	3.4	e30	9.6	1.2	2.1	1.1	0.75	0.25	0.56
11	1.9	2.0	1.5	e2.4	e9.6	3.4	19	145	1.1	0.78	0.36	0.52
12	1.7	3.1	1.6	e2.9	7.0	2.1	23	1,830	1.1	0.75	0.33	0.55
13	1.5	46	1.6	e3.5	4.7	1.9	12	304	1.0	0.67	0.45	0.54
14	1.4	7.7	1.7	4.2	3.9	1.8	5.0	78	0.97	0.75	0.33	0.46
15	1.3	2.7	1.9	6.7	3.4	1.8	4.5	23	0.90	0.94	0.29	0.31
16	1.2	3.7	1.6	58	2.9	1.6	39	8.3	0.87	0.92	0.37	0.30
17	1.1	3.4	1.7	99	2.3	1.6	24	4.3	0.87	0.84	0.52	0.45
18	1.3	2.3	1.8	82	2.1	1.6	11	2.6	0.78	0.85	0.65	0.59
19	1.3	1.8	1.9	42	2.8	1.5	5.1	1.7	0.80	0.88	0.66	0.98
20	1.2	1.7	1.8	23	2.7	1.7	2.7	421	0.82	0.74	0.76	0.67
21	1.3	1.3	1.9	13	2.4	1.4	1.8	2,160	0.89	0.68	0.65	0.53
22	1.2	1.1	2.0	7.9	2.1	1.5	1.3	282	1.4	0.59	0.61	0.63
23	1.6	1.1	1.9	5.8	2.2	1.6	0.96	89	1.3	0.55	0.58	0.76
24	26	1.2	2.0	4.7	290	1.4	0.87	55	1.2	0.68	0.60	0.67
25	103	1.2	2.1	3.9	261	1.6	1.9	228	1.1	0.81	0.69	0.53
26	33	1.3	1.8	2.7	63	1.6	1,170	226	1.2	0.79	0.66	0.51
27	12	1.4	1.7	2.2	23	1.6	227	48	1.2	0.67	0.58	0.54
28	5.5	1.3	1.8	2.0	21	1.7	51	16	1.2	0.56	0.55	0.53
29	2.9	2.3	222	1.9	---	1.7	16	7.7	1.2	0.72	0.71	0.48
30	2.4	1.8	416	1.8	---	1.6	6.4	4.6	1.3	0.69	0.74	0.31
31	2.1	---	129	1.6	---	1.7	---	3.3	---	0.57	0.41	---
Total	216.39	1,361.8	814.2	510.7	993.8	125.6	1,638.03	10,225.8	37.20	24.85	15.74	14.46
Mean	6.98	45.4	26.3	16.5	35.5	4.05	54.6	330	1.24	0.80	0.51	0.48
Max	103	619	416	99	290	43	1,170	2,690	2.7	1.2	0.76	0.98
Min	0.99	1.1	1.4	1.6	1.6	1.4	0.87	1.7	0.78	0.55	0.25	0.23
Ac-ft	429	2,700	1,610	1,010	1,970	249	3,250	20,280	74	49	31	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	171	131	234	136	187	235	135	186	88.0	53.9	5.40	18.7
Max	1,322	646	804	513	696	1,095	425	867	613	529	37.6	147
(WY)	(2010)	(1997)	(1992)	(1998)	(2001)	(2008)	(2002)	(2009)	(2007)	(2007)	(2007)	(2009)
Min	0.01	0.02	0.07	0.20	0.12	4.05	1.30	0.09	0.02	0.00	0.01	0.00
(WY)	(1993)	(2006)	(2006)	(2006)	(1996)	(2011)	(2006)	(2006)	(2006)	(1998)	(1993)	(1993)

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	Calendar Year 2010	Water Year 2011	Water Years 1992 - 2011	
Annual total	40,480.14	15,978.57		
Annual mean	111	43.8	132	
Highest annual mean			297	1992
Lowest annual mean			7.81	1996
Highest daily mean	6,060	Jan 29	2,690	May 3
Lowest daily mean	0.07	Jun 8	0.23	Sep 5
Annual seven-day minimum	0.11	Jun 4	0.28	Sep 1
Maximum peak flow			4,560	May 21
Maximum peak stage			16.91	May 21
Annual runoff (ac-ft)	80,290	31,690	95,400	
10 percent exceeds	211	47	172	
50 percent exceeds	2.0	1.6	2.1	
90 percent exceeds	0.29	0.54	0.01	

