

Water-Data Report 2011

08177500 Coleta Creek near Victoria, TX

Guadalupe Basin
Lower Guadalupe Subbasin

LOCATION.--Lat 28°43'51", long 97°08'18" referenced to North American Datum of 1927, Victoria County, TX, Hydrologic Unit 12100204, on left bank at downstream side of westbound bridge on U.S. Highway 59, 1.6 mi downstream from Coleta Creek dam, 9.0 mi southwest of Victoria, and 11.2 mi upstream from mouth.

DRAINAGE AREA.--500 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1939 to Sept. 1954, June 1978 to current year.

REVISED RECORDS.--WSP 1562: 1939-40. WSP 1732: 1941. WDR US-2006: 2005 (M).

GAGE.--Water-stage recorder. Datum of gage is 44.18 ft above NGVD of 1929. Prior to Jan. 17, 1955, at datum 5.0 ft higher. Satellite telemeter at station.

REMARKS.--Records good. Since water year 1981, at least 10% of contributing drainage area has been regulated. Beginning on Mar. 6, 1980, water diverted from the Guadalupe River basin to the Coleta Creek basin upstream from Coleta Creek Reservoir for industrial use. There are no other large diversions above station. No flow at times. Some records listed in the Period of Record for surface water may not be available electronically.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--16 years (water years 1940-54, 1979-80), 92.7 ft³/s (67,160 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1875, 236,000 ft³/s Sept. 22, 1967 (gage height, 42.0 ft, from floodmark), present site and datum, on basis of slope-area measurement of peak flow. Flood of Apr. 20, 1976, reached a stage of 37.85 ft, at site 0.2 mi upstream at present datum. Flood of July 1, 1936, reached a stage of 32.2 ft, present site and datum, from information by railroad company.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1939-54, 1979-1980: Maximum discharge, 89,000 ft³/s Oct. 16, 1946 (gage height, 36.64 ft, present datum, from floodmark), on basis of slope-area measurement of peak flow; no flow at times.

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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	5.9	11	3.8	3.1	6.3	5.9	6.4	4.7	3.4	2.3	2.1	2.6
2	5.6	7.9	3.9	3.1	6.2	6.0	6.3	12	3.4	2.3	2.1	2.7
3	5.5	4.9	4.0	8.5	6.2	6.0	6.3	8.4	3.3	2.2	2.0	2.3
4	15	4.1	4.0	5.3	6.4	6.4	6.3	5.9	3.3	2.2	2.0	2.1
5	9.1	3.9	3.9	3.9	6.2	6.2	5.8	5.4	3.3	2.1	2.0	2.0
6	5.9	4.1	3.9	3.4	6.1	5.8	5.5	5.2	3.3	2.1	2.0	2.0
7	5.6	3.9	3.9	3.3	6.0	5.9	6.1	5.1	2.7	2.1	2.0	2.1
8	5.3	3.9	3.7	3.2	5.9	6.0	5.8	5.2	2.5	2.1	2.0	2.1
9	5.2	3.8	3.7	6.4	14	5.9	5.6	5.0	2.5	2.1	2.0	2.1
10	5.1	3.8	3.7	5.0	9.7	5.8	5.4	5.0	2.5	2.2	2.0	2.1
11	5.0	3.9	3.7	3.7	7.3	5.7	5.3	4.9	2.5	2.2	2.0	2.1
12	4.8	3.9	3.5	3.3	6.6	5.8	5.0	6.6	2.5	2.2	2.0	2.1
13	4.7	6.7	3.5	3.2	6.5	5.7	5.1	6.9	2.4	2.2	1.9	2.1
14	4.6	4.6	5.4	3.2	6.3	6.0	5.2	5.6	2.4	2.2	1.9	2.1
15	4.6	4.1	4.7	4.3	6.2	5.8	5.1	5.2	2.4	2.2	1.9	2.1
16	4.7	3.8	4.0	66	6.3	5.7	4.9	5.1	2.4	2.2	1.9	2.3
17	4.6	3.8	3.7	555	6.4	5.7	5.0	5.1	2.3	2.2	1.9	2.5
18	4.6	3.8	3.7	232	6.2	5.7	5.0	4.8	2.3	2.2	1.9	2.6
19	4.6	3.7	3.7	19	6.2	5.6	5.0	4.1	2.2	2.2	1.9	2.4
20	4.4	3.7	3.5	75	6.2	5.6	4.9	4.0	2.2	2.2	1.9	2.3
21	4.3	3.6	3.4	104	6.3	5.6	4.9	3.8	2.3	2.2	1.9	2.3
22	4.2	3.6	3.3	15	6.3	5.6	4.9	3.8	5.7	2.2	2.0	2.2
23	4.2	3.5	3.3	12	6.2	9.9	4.7	3.6	4.5	2.1	2.0	2.2
24	4.2	3.5	3.7	161	6.1	9.0	4.6	3.6	3.1	2.1	2.0	2.2
25	4.1	3.5	4.0	13	6.0	7.3	4.7	3.5	2.7	2.1	2.3	2.2
26	4.1	3.7	3.5	8.3	6.0	6.9	4.8	3.5	2.5	2.0	2.9	2.2
27	4.1	3.7	3.4	7.2	6.1	6.7	4.8	3.4	2.4	2.0	2.7	2.2
28	3.9	3.6	3.3	6.6	6.0	6.7	4.6	3.3	2.3	2.0	2.2	2.2
29	3.9	3.7	4.4	6.3	---	6.6	4.6	3.3	2.3	2.1	2.0	2.2
30	4.0	3.6	4.1	6.3	---	6.5	4.7	3.2	2.3	2.2	2.0	2.2
31	4.0	---	3.6	6.2	---	6.4	---	3.3	---	2.1	2.0	---
Total	159.8	129.3	117.9	1,355.8	186.2	194.4	157.3	152.5	83.9	66.8	63.4	66.8
Mean	5.15	4.31	3.80	43.7	6.65	6.27	5.24	4.92	2.80	2.15	2.05	2.23
Max	15	11	5.4	555	14	9.9	6.4	12	5.7	2.3	2.9	2.7
Min	3.9	3.5	3.3	3.1	5.9	5.6	4.6	3.2	2.2	2.0	1.9	2.0
Ac-ft	317	256	234	2,690	369	386	312	302	166	132	126	132

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2011², BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	152	133	55.1	47.0	99.9	97.5	152	137	180	104	20.8	115
Max	1,313	1,186	434	347	961	563	1,817	940	1,426	1,518	370	1,202
(WY)	(1999)	(2005)	(1992)	(1992)	(1992)	(2007)	(1997)	(1993)	(1993)	(2007)	(2001)	(2001)
Min	1.61	1.90	2.01	1.93	1.98	2.05	2.07	2.01	0.04	0.01	0.93	1.56
(WY)	(1996)	(1997)	(1997)	(1996)	(1996)	(1996)	(1996)	(2009)	(2001)	(2001)	(2002)	(1989)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1981 - 2011 ^Z	
Annual total	41,869.1		2,734.1			
Annual mean	115		7.49		107	
Highest annual mean					302	1997
Lowest annual mean					1.98	1996
Highest daily mean	4,470	Sep 19	555	Jan 17	27,500	Apr 4, 1997
Lowest daily mean	1.5	Jan 12	1.9	Aug 13	0.00	May 6, 1981
Annual seven-day minimum	1.6	Jan 8	1.9	Aug 13	0.00	Jul 5, 2001
Maximum peak flow			562	Jan 17	^C 50,100	Apr 4, 1997
Maximum peak stage			6.89	Jan 17	^a 32.05	Apr 4, 1997
Annual runoff (ac-ft)	83,050		5,420		77,710	
10 percent exceeds	139		6.4		48	
50 percent exceeds	4.1		3.9		4.9	
90 percent exceeds	2.9		2.1		2.0	

^Z Period of regulated streamflow.

^a From floodmark.

^c From rating curve extended above discharge measurements of 32,200 ft³/s and 36,300 ft³/s.

