

Water-Data Report 2011

07235000 Wolf Creek at Lipscomb, TX

Lower Beaver Basin
Upper Wolf Subbasin

LOCATION.--Lat 36°14'19", long 100°16'31" referenced to North American Datum of 1927, Lipscomb County, TX, Hydrologic Unit 11100202, on right bank at downstream side of State Highway 305, 0.3 mi north of Lipscomb, 0.6 mi downstream from Sand Creek, 2.0 mi upstream from Plum Creek, and 61.2 mi upstream from mouth.

DRAINAGE AREA.--697 mi² of which 222 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1937 to Sept. 1940, monthly discharges only, published in WSP 1311, Oct. 1940 to Sept. 1942 and Oct. 1961 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Jan. 1964 to May 1968, May 1980.

BIOCHEMICAL DATA: Jan. 1964 to May 1968, May 1980.

BIOLOGICAL DATA: May 1980.

PESTICIDE DATA: May 1980.

SEDIMENT DATA: May 1938 to Mar. 1945.

REVISED RECORDS.--WSP 1311: 1938-39, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,371.29 ft above NGVD of 1929. Prior to Feb. 25, 1938, nonrecording gage, Feb. 25, 1938, to Sept. 30, 1942, water-stage recorder at present site at datum 5.77 ft higher. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since reactivation of gage in Oct. 1961, at least 10% of contributing drainage area has been regulated. There are small diversions upstream from station for irrigation and recreation. No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1938-1942), 39.7 ft³/s, 28,760 acre-feet/yr.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1890, 15.5 ft June 23, 1957, present site and datum, from floodmarks. A flood in May 1955 reached a stage of 12.1 ft, present site and datum, from information by Texas Department of Transportation.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS, 1938-1942: Maximum discharge, 20,000 ft³/s Oct. 21, 1941 (gage-height, 11.57 ft, present datum), from rating curve extended above 14,000 ft³/s on basis of velocity-area studies. No flow at times.

Water-Data Report 2011

07235000 Wolf Creek at Lipscomb, TX—Continued

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	2.0	1.2	5.8	4.4	e6.5	5.0	4.6	3.0	1.3	0.77	0.55	0.84
2	1.9	1.3	5.8	5.8	e6.2	5.1	4.6	2.9	1.2	0.80	0.57	0.87
3	2.0	1.3	5.3	4.4	e5.9	5.2	4.5	2.9	1.2	0.87	0.77	0.86
4	2.1	1.4	5.3	4.3	e5.4	5.4	4.2	2.9	1.1	0.94	0.81	0.82
5	1.2	1.4	4.5	4.3	e5.1	5.5	4.2	2.8	1.2	0.97	0.82	0.89
6	0.97	1.3	4.1	4.5	4.7	5.6	4.1	2.8	1.1	1.0	0.88	0.91
7	0.99	1.4	4.1	4.7	4.7	5.6	4.0	2.7	1.1	1.1	0.85	0.86
8	0.93	1.5	4.0	4.7	5.0	6.1	3.9	2.7	1.0	1.0	0.70	0.88
9	0.92	1.3	4.0	4.7	e5.0	5.9	3.9	2.5	0.98	0.93	0.61	0.86
10	0.92	1.2	4.0	4.4	e5.0	5.9	3.8	2.3	1.0	0.89	0.63	0.84
11	0.93	1.2	3.9	5.4	e5.0	6.0	3.7	2.3	1.0	0.85	0.69	0.88
12	0.96	6.2	4.3	5.2	e5.0	6.0	3.6	2.1	0.94	0.83	0.66	0.87
13	1.0	7.7	4.4	5.2	e5.0	5.9	3.6	1.9	0.90	0.86	0.62	0.90
14	1.0	8.4	4.2	5.2	e5.0	5.8	3.7	1.9	0.95	0.80	0.58	1.1
15	0.96	7.3	4.0	5.0	e5.0	5.8	3.6	1.9	0.94	0.70	0.51	1.1
16	0.99	6.5	3.8	4.8	e5.0	5.7	3.5	1.9	0.89	0.71	0.49	1.0
17	1.2	6.1	4.0	4.5	4.9	5.6	3.4	2.0	0.85	0.65	0.51	1.00
18	1.0	6.6	5.1	4.6	4.8	5.4	3.4	1.9	0.86	0.64	0.41	0.98
19	0.98	8.9	7.4	4.6	4.8	5.3	3.4	1.8	0.82	0.65	0.37	0.98
20	0.87	9.2	9.1	4.6	4.9	5.2	3.2	1.7	0.79	0.62	0.37	0.94
21	0.93	9.3	9.0	4.7	4.9	5.2	3.2	1.6	0.79	0.61	0.52	0.94
22	1.0	9.7	8.7	4.8	4.8	5.0	3.2	1.5	0.79	0.58	0.60	1.5
23	1.0	9.5	8.0	4.9	4.9	4.7	3.1	1.5	0.80	0.57	0.72	1.1
24	1.1	9.8	8.1	5.0	4.9	4.8	3.2	1.4	0.75	0.64	0.83	1.1
25	1.1	9.1	7.5	5.0	4.9	4.7	3.2	1.3	0.74	0.66	0.98	1.1
26	1.1	7.5	4.4	5.1	5.0	4.6	3.3	1.3	0.72	0.65	1.0	1.1
27	0.96	6.0	4.2	5.2	5.0	4.5	3.5	1.3	0.75	0.57	0.92	1.1
28	1.1	5.7	4.3	5.3	4.9	4.6	3.5	1.4	0.82	0.58	0.98	1.0
29	1.2	5.9	4.6	6.5	---	4.4	3.4	1.4	0.79	0.61	1.1	0.99
30	1.3	5.7	4.9	6.4	---	4.5	3.1	1.3	0.77	0.58	1.1	0.94
31	1.3	---	5.0	6.8	---	4.7	---	1.2	---	0.53	0.96	---
Total	35.91	159.6	165.8	155.0	142.2	163.7	109.6	62.1	27.84	23.16	22.11	29.25
Mean	1.16	5.32	5.35	5.00	5.08	5.28	3.65	2.00	0.93	0.75	0.71	0.97
Max	2.1	9.8	9.1	6.8	6.5	6.1	4.6	3.0	1.3	1.1	1.1	1.5
Min	0.87	1.2	3.8	4.3	4.7	4.4	3.1	1.2	0.72	0.53	0.37	0.82
Ac-ft	71	317	329	307	282	325	217	123	55	46	44	58
Cfsm	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
In.	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2011^{hz}, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.49	4.91	3.42	3.74	4.59	8.08	10.2	26.8	19.6	7.85	6.84	11.0
Max	167	112	14.6	11.8	11.0	73.4	109	570	206	82.7	77.6	323
(WY)	(1969)	(1972)	(1997)	(1969)	(1997)	(2007)	(1999)	(2007)	(1965)	(1967)	(1965)	(1996)
Min	0.10	0.50	0.60	0.55	0.60	1.10	0.94	0.35	0.12	0.03	0.00	0.21
(WY)	(1965)	(1995)	(1995)	(1986)	(1986)	(1986)	(1986)	(2002)	(2002)	(2002)	(1964)	(1984)

07235000 Wolf Creek at Lipscomb, TX—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1962 - 2011^{hz}	
Annual total	7,662.70	1,096.27		
Annual mean	21.0	3.00	9.38	
Highest annual mean			62.8	2007
Lowest annual mean			1.01	2006
Highest daily mean	2,110	Jun 14	9.8	Nov 24
Lowest daily mean	0.19	Jun 12	0.37	Aug 19
Annual seven-day minimum	0.53	Jun 7	0.45	Aug 15
Maximum peak flow			11	Nov 12
Maximum peak stage			4.02	Nov 12
Annual runoff (ac-ft)	15,200		2,170	6,800
Annual runoff (cfsm)	0.044		0.006	0.020
Annual runoff (inches)	0.60		0.09	0.27
10 percent exceeds	13		5.8	10
50 percent exceeds	3.1		2.1	2.4
90 percent exceeds	1.2		0.73	0.53

^h See Period of Record paragraph.^z Period of regulated streamflow.