

Water-Data Report 2011

07299540 Prairie Dog Town Fork Red River near Childress, TX

Prairie Dog Town Fork Red Basin
Lower Prairie Dog Town Fork Red Subbasin

LOCATION.--Lat 34°34'09", long 100°11'37" referenced to North American Datum of 1927, Childress County, TX, Hydrologic Unit 11120105, on right bank at downstream side of bridge on U.S. Highways 62 and 83, 3.1 mi downstream from Salt Creek, 10.0 mi north of Childress, and at mile 1,061.

DRAINAGE AREA.--7,725 mi² of which 4,767 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1965 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: July 1968 to Aug. 1986, Oct. 1994 to Sept. 1997.

BIOCHEMICAL DATA: July 1968 to Aug. 1986, Oct. 1994 to Sept. 1997.

PESTICIDE DATA: Oct. 1994 to Sept. 1997.

SEDIMENT DATA: Nov. 1978 to Aug. 1986.

PERIOD OF DAILY RECORD, Water-Quality.--

SPECIFIC CONDUCTANCE: Oct. 1968 to Sept. 1982, Oct. 1994 to Sept. 1997.

WATER TEMPERATURE: Oct. 1968 to Sept. 1982, Oct. 1994 to Sept. 1997.

GAGE.--Water-stage recorder. Datum of gage is 1,628.4 ft above NGVD of 1929 (from Texas Department of Transportation benchmark). From Dec. 1964 to Mar. 1965, gage heights from water-stage recorder were not published. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since installation of gage in Dec. 1964, at least 10% of contributing drainage area has been regulated. Many small diversions upstream from station. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1899, 16.9 ft in May or June 1957, from information by local residents and Texas Department of Transportation.

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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	1.3	167	5.6	2.6	e0.50	3.5	6.9	5.9	82	0.37	0.45	0.63
2	1.4	152	5.7	e2.6	e0.40	5.0	6.7	5.0	104	0.55	0.42	0.81
3	1.9	149	5.4	2.7	e0.30	7.4	6.2	4.8	0.87	0.71	0.39	0.81
4	1.6	148	5.2	2.0	e0.20	4.2	6.0	4.4	0.97	0.71	0.33	0.90
5	1.6	155	2.6	2.1	e7.8	3.8	6.3	4.5	0.93	0.79	0.36	1.1
6	2.3	164	3.6	1.8	1.1	4.6	6.2	4.0	0.74	0.79	0.34	1.1
7	3.3	169	3.4	2.1	0.34	5.4	6.3	4.1	0.63	0.73	0.46	1.2
8	8.0	176	3.2	1.5	0.11	6.7	6.3	3.7	0.57	0.72	0.33	1.2
9	8.5	166	4.2	0.85	e6.0	8.7	5.9	3.5	0.55	0.77	0.48	1.3
10	9.7	165	3.4	2.0	e12	9.0	4.8	3.1	1.7	0.69	0.49	1.3
11	9.5	155	2.9	e2.9	e18	8.9	5.4	5.3	2.2	0.62	0.33	1.5
12	7.4	371	2.0	3.9	24	9.0	5.4	4.0	0.73	11	0.74	1.2
13	7.6	168	3.0	5.2	8.5	8.8	5.7	3.9	0.52	1.1	2.6	1.1
14	6.7	99	3.5	3.3	7.6	8.6	5.0	3.7	0.40	0.87	0.90	1.0
15	11	89	2.5	3.0	6.5	8.8	4.4	4.0	0.43	0.71	0.77	2.2
16	12	44	2.5	2.4	4.5	8.6	4.7	4.2	0.32	0.58	0.65	2.2
17	14	20	3.5	2.8	8.2	8.4	5.5	3.9	0.20	0.48	0.55	1.6
18	20	19	2.3	5.1	7.7	8.2	5.6	3.6	0.33	0.49	0.62	1.3
19	18	24	3.4	1.3	7.8	8.5	5.2	3.0	0.18	0.47	0.43	1.1
20	15	32	1.3	0.87	8.9	8.7	5.2	3.3	e0.34	0.40	0.48	1.1
21	90	23	2.9	2.3	6.0	8.3	5.6	3.0	0.50	0.41	0.43	0.93
22	765	9.2	2.2	2.2	6.0	7.9	5.6	2.9	0.61	0.35	0.40	1.6
23	672	11	1.4	2.5	5.2	7.6	5.1	2.7	0.52	0.36	0.41	1.4
24	267	13	2.4	2.0	15	7.5	5.3	2.8	0.26	0.38	0.44	1.3
25	197	5.2	1.4	2.7	1.7	7.8	5.6	3.1	0.34	0.38	0.34	1.2
26	180	14	1.9	2.4	3.0	7.3	5.5	3.4	0.40	0.41	0.63	1.3
27	192	7.6	2.9	1.2	4.0	6.8	5.4	3.6	0.32	0.29	0.80	1.4
28	186	5.3	2.8	1.4	2.3	7.0	4.9	3.5	0.46	0.26	0.70	1.4
29	181	6.8	3.5	1.6	---	7.3	4.6	2.8	0.49	0.32	0.76	1.4
30	171	1.7	2.2	1.0	---	7.1	4.7	2.6	0.44	0.41	0.78	1.3
31	165	---	1.3	0.58	---	7.3	---	8.4	---	0.45	0.57	---
Total	3,226.8	2,728.8	94.1	70.90	173.65	226.7	166.0	120.7	202.95	27.57	18.38	37.88
Mean	104	91.0	3.04	2.29	6.20	7.31	5.53	3.89	6.76	0.89	0.59	1.26
Max	765	371	5.7	5.2	24	9.0	6.9	8.4	104	11	2.6	2.2
Min	1.3	1.7	1.3	0.58	0.11	3.5	4.4	2.6	0.18	0.26	0.33	0.63
Ac-ft	6,400	5,410	187	141	344	450	329	239	403	55	36	75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	110	55.9	44.3	43.6	46.1	66.0	105	235	322	90.8	140	131
Max	1,279	490	288	296	358	500	735	1,835	1,413	374	1,086	470
(WY)	(1987)	(2005)	(2007)	(1993)	(1998)	(1998)	(1997)	(1978)	(1965)	(2010)	(1968)	(1966)
Min	3.14	0.08	2.27	2.05	2.00	1.72	2.95	1.18	3.46	0.66	0.59	1.26
(WY)	(1985)	(2007)	(1983)	(1971)	(1974)	(1966)	(1978)	(1988)	(1994)	(1974)	(2011)	(2011)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1965 - 2011	
Annual total	32,840.67		7,094.43			
Annual mean	90.0		19.4		115	
Highest annual mean					286	1987
Lowest annual mean					19.4	2011
Highest daily mean	1,390	Apr 17	765	Oct 22	34,200	May 28, 1978
Lowest daily mean	0.16	Aug 14	0.11	Feb 8	0.00	Aug 5, 1970
Annual seven-day minimum	0.25	Aug 24	0.31	Jun 14	0.00	Jun 7, 1988
Maximum peak flow			1,400	Oct 22	86,400	May 28, 1978
Maximum peak stage			8.80	Oct 22	13.94	May 21, 1977
Annual runoff (ac-ft)	65,140		14,070		82,960	
10 percent exceeds	276		18		192	
50 percent exceeds	11		2.9		9.7	
90 percent exceeds	0.80		0.42		1.1	

