Water-Data Report 2011

07315500 Red River near Terral, OK

Red-Lake Texoma Basin
Farmers-Mud Subbasin

LOCATION.--Lat 33°52′43″, long 97°56′03″ referenced to North American Datum of 1927, Jefferson County, OK, Hydrologic Unit 11130201, on left bank at downstream side of bridge abutment on U.S. Highway 81, 0.5 mi downstream from Chicago and Rock Island Railroad Co. bridge, 1.2 mi south of Terral, 3.6 mi downstream from Little Wichita River, and at mile 872.

DRAINAGE AREA.--28,723 mi^2 of which 5,936 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1938 to current year. Monthly discharge only for some periods, published in WSP 1311.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Oct. 1967 to Sept. 1997, Oct. 2002 to Sept. 2007.
BIOLOGICAL DATA: May 1997 to Sept. 1997, Oct. 1999 to Sept. 2007.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 770.31 ft above NGVD of 1929. Prior to Jan. 12, 1939, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since installation of gage in Apr. 1938, at least 10% of contributing drainage area has been regulated. There are many small diversions upstream from station for irrigation, oil field operations, and for municipal uses.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 19, 1935, reached a stage of 27.2 ft, although floods in 1891 and on May 1, 1908, are reported to have reached about the same stage.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 07315500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/07315500.2011.pdf

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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	379	685	341	289	e471	304	289	243	307	81	47	41
2	353	614	334	273	e463	315	281	242	268	83	44	41
3	325	560	324	265	403	291	264	229	244	79	44	44
4	299	518	321	270	402	282	268	246	222	76	42	47
5	285	489	314	264	386	271	261	220	209	70	39	51
6	282	443	312	259	349	259	256	216	192	68	36	54
7	278	417	320	262	378	241	258	200	173	71	39	57
8	272	396	318	261	395	240	247	175	157	82	38	58
9	270	377	305	261	394	240	235	153	182	76	38	60
10	261	378	315	291	352	244	230	148	182	69	38	62
11	311	354	308	288	334	237	227	169	169	71	36	60
12	299	336	296	292	371	243	218	181	151	70	59	56
13	283	329	288	293	337	247	208	139	137	67	79	44
14	273	327	282	295	327	244	199	136	128	72	61	44
15	262	334	281	309	349	243	177	133	127	73	59	45
16	310	344	284	307	363	234	192	129	115	73	66	54
17	302	384	279	305	358	231	176	135	106	76	63	63
18	262	775	281	317	364	241	169	131	122	80	64	96
19	244	663	271	318	348	265	163	120	114	72	69	177
20	240	570	275	337	338	264	182	163	94	68	64	233
21	236	506	288	334	343	252	181	1,150	102	68	62	217
22	239	454	289	325	323	242	175	6,980	100	72	58	136
23	297	449	280	326	307	255	209	5,190	93	65	52	109
24	389	413	294	330	320	235	2,080	2,900	94	63	48	92
25	2,260	424	287	327	305	238	1,200	1,820	90	61	49	83
26	3,570	399	284	327	287	245	596	1,120	88	52	48	76
27	2,090	380	280	321	285	245	404	776	91	50	46	69
28	1,430	357	281	319	285	251	328	587	93	49	43	66
29	1,100	362	320	309	---	265	270	461	82	51	38	61
30	914	345	288	310	---	268	238	383	79	51	32	53
31	790	---	278	304	---	275	---	349	---	50	38	---
Total	19,105	13,382	9,218	9,288	9,937	7,907	10,181	25,224	4,311	2,109	1,539	2,349
Mean	616	446	297	300	355	255	339	814	144	68.0	49.6	78.3
Max	3,570	775	341	337	471	315	2,080	6,980	307	83	79	233
Min	236	327	271	259	285	231	163	120	79	49	32	41
Ac-ft	37,890	26,540	18,280	18,420	19,710	15,680	20,190	50,030	8,550	4,180	3,050	4,660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,762	1,534	1,076	955	1,351	1,938	2,555	6,021	5,741	1,736	1,325	1,821
Max	23,900	9,713	11,810	5,306	9,320	14,710	18,080	43,580	37,460	11,370	14,730	9,653
(WY)	(1987)	(1987)	(1992)	(1992)	(1987)	(1998)	(1990)	(1957)	(1941)	(2007)	(1995)	(1986)
Min	108	102	91.2	76.5	136	66.1	142	134	144	68.0	49.6	78.3
(WY)	(1953)	(1940)	(1939)	(1940)	(1953)	(1940)	(1971)	(1971)	(2011)	(2011)	(2011)	(2011)

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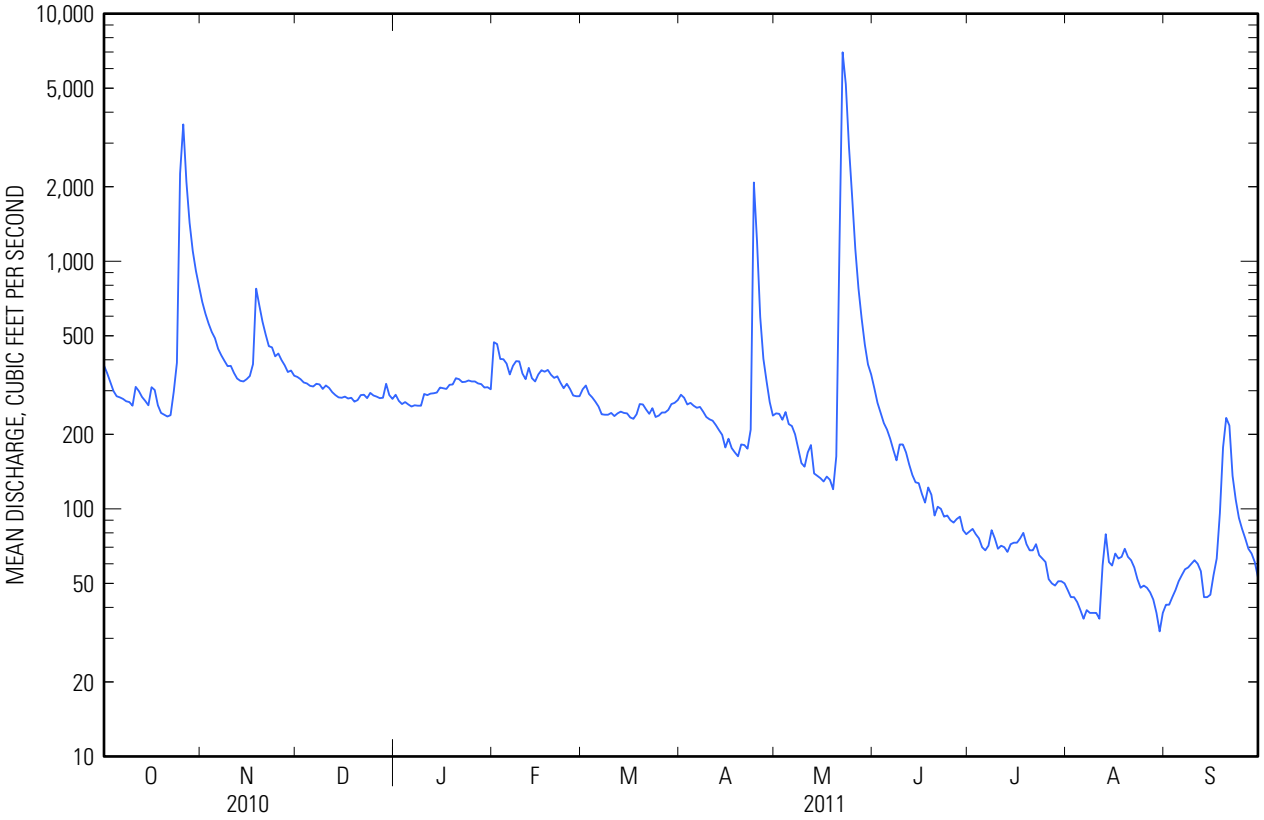
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1938 - 2011	
Annual total	829,666		114,550			
Annual mean	2,273		314		2,399	
Highest annual mean					8,925	1987
Lowest annual mean					314	2011
Highest daily mean	29,100	Apr 19	6,980	May 22	215,000	Jun 7, 1995
Lowest daily mean	236	Oct 21	32	Aug 30	32	Aug 30, 2011
Annual seven-day minimum	260	Oct 17	38	Aug 5	38	Aug 5, 2011
Maximum peak flow			7,800	May 22	236,000	Jun 7, 1995
Maximum peak stage			11.82	May 22	33.60	Oct 22, 1983
Annual runoff (ac-ft)	1,646,000		227,200		1,738,000	
10 percent exceeds	4,480		408		5,180	
50 percent exceeds	770		258		578	
90 percent exceeds	301		54		174