Water-Data Report 2013

07316000 RED RIVER NEAR GAINESVILLE, TX

Red-Lake Texoma Basin
Farmers-Mud Subbasin

LOCATION.--Lat 33°43′40″, long 97°09′35″ referenced to North American Datum of 1927, in SW ¼ sec.36, T.9 S., R.1 E., Love County, OK, Hydrologic Unit 11130201, on downstream right bank at end of bridge on Interstate 35, 0.2 mi downstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 5.0 mi downstream from Fish Creek, 4.5 mi southwest of Thackerville, OK, 7.0 mi north of Gainesville, and at mile791.5.

DRAINAGE AREA.--30,728 mi^2 of which 7,903 mi^2 probably is noncontributing, from automated delineation using 10-meter National Elevation Dataset digital elevation model data dated 10/01/2006 and Watershed Boundary Dataset dated 10/01/2006, using Albers Equal-Area Projection, North American Datum 1983.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1936 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 627.91 ft above NGVD of 1929. Prior to Jan. 17, 1939, and Feb. 13, 1965 to Nov. 14, 1966, nonrecording gage at same site and datum.

REMARKS.--Records poor. Flow regulated by Lake Kemp (station 07312000 in Texas), since 1943 by Lake Altus (station 07302500 in Oklahoma), since 1946 by Lake Kickapoo (station 07314000 in Texas), since 1967 by Lake Arrowhead (station 07314800 in Texas) and Moss Lake (station 07315950 in Texas), since 1978 by Waurika Lake (07313400 in Oklahoma). U.S. Army Corps of Engineers' satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 24,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 31	1900	*5,700	*13.84

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 07316000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07316000.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	58	62	e44	76	80	144	125	313	499	363	3,620	142
2	68	60	e46	84	80	142	181	e277	396	311	1,210	133
3	e81	57	e44	83	81	e140	301	256	318	271	698	120
4	91	52	e44	84	e79	e151	329	e238	269	243	543	106
5	154	53	e43	e81	e78	e170	320	e226	263	218	440	98
6	e144	48	e43	e79	e73	184	307	211	415	196	369	88
7	184	48	e42	e76	e82	174	301	198	915	178	315	81
8	237	e49	e45	75	81	174	294	187	1,000	161	276	80
9	e216	e52	e46	83	e76	182	262	190	900	143	250	77
10	192	e54	e47	92	e79	197	e239	188	880	132	230	68
11	162	e58	e45	95	74	212	228	181	763	121	202	63
12	142	e56	e46	97	87	176	258	178	560	112	183	62
13	135	e51	e44	92	93	166	294	169	430	103	173	57
14	149	e49	e47	e88	e97	157	314	153	379	100	156	e53
15	142	48	e50	e84	e96	151	373	151	344	115	146	51
16	117	46	e50	e83	94	149	389	202	324	151	150	53
17	123	e45	50	e83	e90	e141	365	429	322	191	173	52
18	e149	e45	e50	86	e88	e135	e335	347	371	176	234	49
19	155	e47	e49	90	111	122	301	374	316	153	213	48
20	164	e46	e48	95	115	117	255	298	309	254	188	55
21	141	e45	e47	95	e114	e111	227	399	320	234	255	52
22	124	e44	e48	e89	115	e107	885	868	380	221	297	69
23	113	48	e50	e88	118	e104	1,740	1,950	357	255	439	70
24	109	43	e52	85	e118	e104	996	2,080	271	343	399	64
25	98	e42	63	83	e122	e101	677	1,250	225	348	342	73
26	88	e42	e69	79	e128	e99	581	826	446	331	279	131
27	e84	e43	74	80	e139	97	e494	538	864	313	229	134
28	e75	e43	71	e82	e141	95	427	415	738	297	208	129
29	70	42	e69	e82	---	92	376	348	559	286	189	130
30	67	e42	e70	e83	---	108	341	2,020	441	1,260	170	115
31	65	---	e74	81	---	117	---	932	---	5,050	154	---
Total	3,897	1,460	1,610	2,633	2,729	4,319	12,515	16,392	14,574	12,630	12,730	2,503
Mean	126	48.7	51.9	84.9	97.5	139	417	529	486	407	411	83.4
Max	237	62	74	97	141	212	1,740	2,080	1,000	5,050	3,620	142
Min	58	42	42	75	73	92	125	151	225	100	146	48
Ac-ft	7,730	2,900	3,190	5,220	5,410	8,570	24,820	32,510	28,910	25,050	25,250	4,960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,355	2,018	1,480	1,274	1,838	2,687	3,423	7,275	7,436	2,337	1,613	2,202
Max	31,080	14,020	14,990	7,258	10,920	19,590	27,400	47,780	43,510	23,390	20,730	12,880
(WY)	(1942)	(1942)	(1992)	(1998)	(2001)	(1998)	(1990)	(1957)	(1941)	(2007)	(1995)	(1986)
Min	119	48.7	51.9	82.4	97.5	90.5	153	204	224	73.4	36.1	50.8
(WY)	(1953)	(2013)	(2013)	(1940)	(2013)	(1940)	(1971)	(1971)	(2011)	(2011)	(2011)	(2011)

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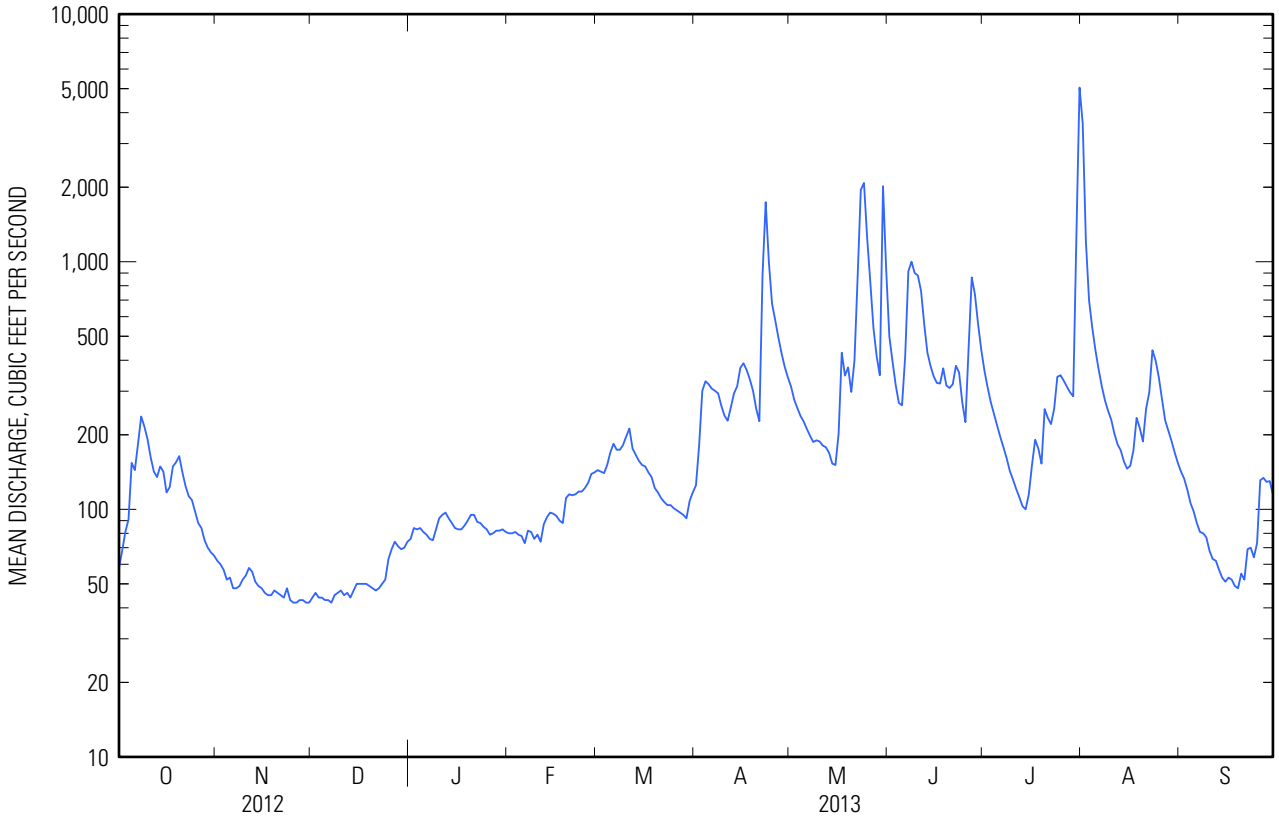
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1937 - 2013	
Annual total	196,115		87,992			
Annual mean	536		241		3,080	
Highest annual mean					11,890	1987
Lowest annual mean					241	2013
Highest daily mean	14,400	Apr 6	5,050	Jul 31	232,000	May 31, 1987
Lowest daily mean	[a]31	Sep 4	42	Nov 25[b]	24	Sep 1, 2011[c]
Annual seven-day minimum	33	Aug 8	42	Nov 24	25	Sep 1, 2011
Maximum peak flow			5,700	Jul 31	265,000	May 31, 1987
Maximum peak stage			13.84	Jul 31	40.08	May 31, 1987
Annual runoff (ac-ft)	389,000		174,500		2,231,000	
10 percent exceeds	1,100		428		6,820	
50 percent exceeds	174		134		787	
90 percent exceeds	43		49		204	

[a] Estimated
[b] Also Nov. 29-30, Dec. 7.
[c] Also Sep 7-8, 2011.