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.

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.

07315500 Red River near Terral, OK—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	464	322	236	202	266	206	358	1,180	274	213	55	1,060
2	491	322	204	212	259	202	355	563	292	185	51	781
3	686	315	205	221	246	197	348	908	318	171	53	871
4	477	275	218	229	252	185	303	2,450	258	166	57	836
5	520	267	217	218	225	190	694	3,650	205	154	62	765
6	693	262	206	223	228	186	1,120	2,140	243	139	64	1,170
7	1,630	240	228	210	245	174	760	2,060	514	133	62	1,920
8	3,440	227	213	205	254	172	552	1,790	436	131	59	1,340
9	4,320	239	212	211	254	207	431	1,330	337	129	46	1,000
10	5,090	240	e212	193	260	198	337	1,160	263	122	44	777
11	2,980	213	243	182	237	193	289	1,220	214	110	45	698
12	1,750	203	236	171	239	178	283	1,070	210	99	49	516
13	1,240	222	220	182	223	176	255	889	192	90	51	423
14	985	223	241	180	216	180	248	793	181	98	59	392
15	932	229	242	173	229	165	221	749	166	103	71	428
16	820	244	251	189	230	167	233	715	149	89	68	347
17	754	229	267	179	245	167	219	634	144	80	63	298
18	671	235	283	174	232	187	210	566	163	77	67	354
19	576	226	272	167	218	401	203	482	156	79	80	783
20	523	237	261	175	209	977	201	418	147	77	76	1,760
21	496	233	250	186	192	959	202	368	147	78	71	1,740
22	461	242	222	204	203	852	184	346	179	80	78	1,090
23	436	243	224	203	210	746	177	318	172	78	79	617
24	400	257	240	194	199	760	180	285	208	74	70	431
25	382	241	254	191	226	703	196	282	369	64	59	350
26	353	224	240	178	220	552	220	259	679	63	567	297
27	344	203	232	191	203	543	192	226	503	65	1,080	258
28	320	218	235	285	214	488	182	223	378	67	776	234
29	284	231	223	307	---	451	346	210	294	60	607	204
30	283	217	236	330	---	422	982	206	259	55	635	192
31	303	---	216	296	---	424	---	240	---	53	1,400	---
Total	33,104	7,279	7,239	6,461	6,434	11,608	10,481	27,730	8,050	3,182	6,604	21,932
Mean	1,068	243	234	208	230	374	349	895	268	103	213	731
Max	5,090	322	283	330	266	977	1,120	3,650	679	213	1,400	1,920
Min	283	203	204	167	192	165	177	206	144	53	44	192
Ac-ft	65,660	14,440	14,360	12,820	12,760	23,020	20,790	55,000	15,970	6,310	13,100	43,500

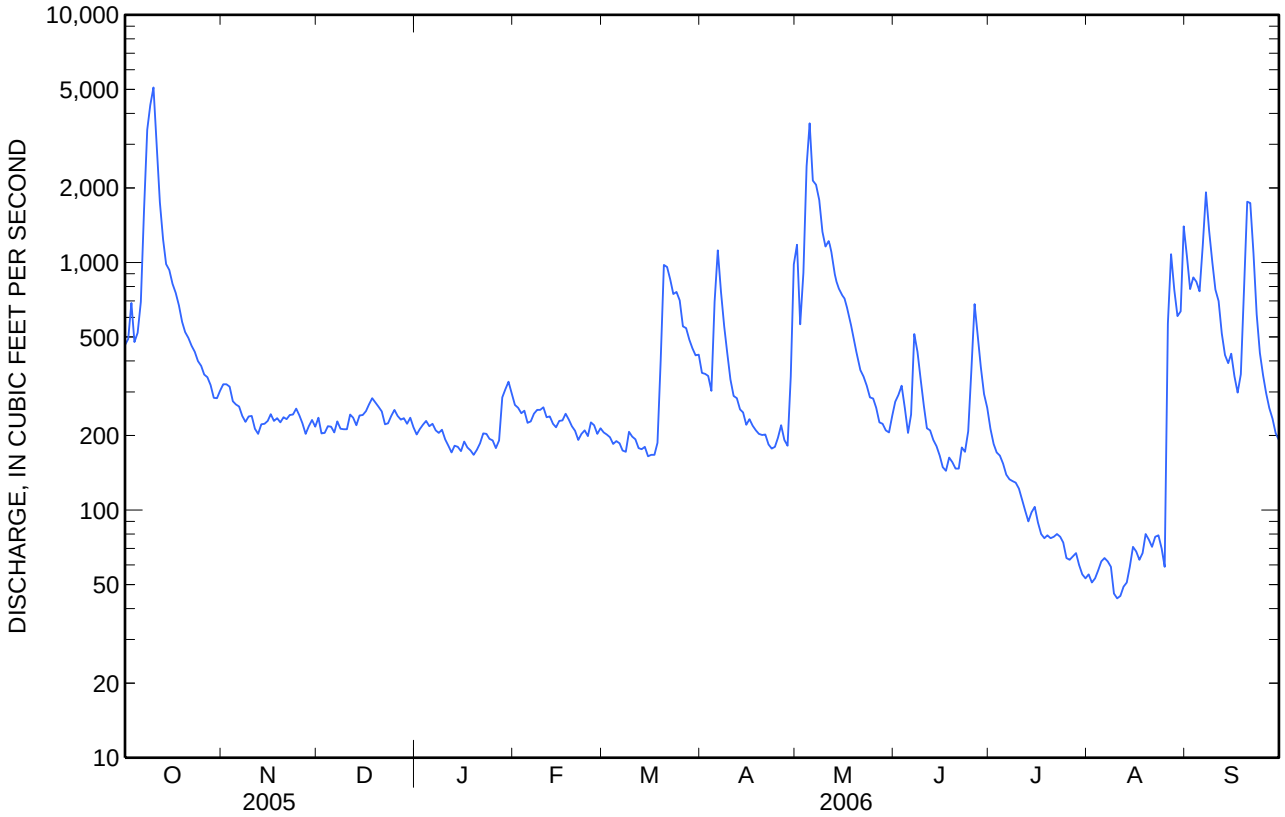
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,832	1,606	1,115	948	1,364	1,995	2,494	6,108	5,855	1,598	1,295	1,889
Max	23,900	9,713	11,810	5,306	9,320	14,710	18,080	43,580	37,460	8,077	14,730	9,653
(WY)	(1987)	(1987)	(1992)	(1992)	(1987)	(1998)	(1990)	(1957)	(1941)	(1950)	(1995)	(1986)
Min	108	102	91.2	76.5	136	66.1	142	134	268	103	107	100
(WY)	(1953)	(1940)	(1939)	(1940)	(1953)	(1940)	(1971)	(1971)	(2006)	(2006)	(2003)	(2000)

07315500 Red River near Terral, OK—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1938 - 2006	
Annual total	420,887		150,104			
Annual mean	1,153		411		2,422	
Highest annual mean					8,925	1987
Lowest annual mean					411	2006
Highest daily mean	16,200	Aug 18	5,090	Oct 10	215,000	Jun 7, 1995
Lowest daily mean	144	Aug 11	44	Aug 10	44	Aug 10, 2006
Annual seven-day minimum	174	Aug 6	50	Aug 8	47	Mar 18, 1940
Maximum peak flow			5,580	Oct 10	236,000	Jun 7, 1995
Maximum peak stage			11.50	Oct 10	33.60	Oct 22, 1983
Annual runoff (ac-ft)	834,800		297,700		1,755,000	
10 percent exceeds	2,450		860		5,290	
50 percent exceeds	515		234		585	
90 percent exceeds	224		79		174	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1967 to Sept. 1997, Oct. 2002 to current year.
BIOLOGICAL DATA: May 1997 to Sept. 1997, Oct. 1999 to current year.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 2

[Remark codes: <, less than; E, estimated. Value qualifier codes: @, holding time exceeded; c, see laboratory comment; k, counts outside acceptable range; n, below the LRL and above the LT-MDL; o, result determined by alternate method.]

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Jan													
27...	1040	184	740	12.9	115	9.0	6,730	17.0	7.8	136	E148	E8	.74
Apr													
26...	1140	217	741	9.7	103	8.4	6,720	14.0	15.6	100	117	2	.69
Jun													
23...	1045	172	740	8.0	102	8.0	4,760	20.0	25.6	79	95	<1	.66
Aug													
17...	1325	57	737	9.2	131	8.8	5,730	37.0	31.4	50	55	3	.81

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 2

[Remark codes: <, less than; E, estimated. Value qualifier codes: @, holding time exceeded; c, see laboratory comment; k, counts outside acceptable range; n, below the LRL and above the LT-MDL; o, result determined by alternate method.]

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, fltrd, mg/L (00607)	Organic nitrogen, water, unfltrd mg/L (00605)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)
Jan												
27...	1.9	<.04	<.06	<.008	--	--	.193	.06	.092	.23oc	E5k	E17k
Apr												
26...	1.8	<.04	<.06	<.008	--	--	--	<.02	.011	.29oc	25	30
Jun												
23...	1.6	<.010n	<.06	<.002	--	--	--	<.006n	.015	.24oc	240	1,000
Aug												
17...	1.8	.016	<.06	<.002	.79	1.8	--	<.006n	.017	.21@oc	5	13