07314900 Little Wichita River above Henrietta, TX

Red-Lake Texoma Basin
Little Wichita Subbasin

LOCATION.--Lat 33°49′36″, long 98°14′23″ referenced to North American Datum of 1927, Clay County, TX, Hydrologic Unit 11130209, on right bank at downstream side of bridge on U.S. Highways 822 and 287, 1.0 mi downstream from Duck Creek, 2.8 mi west of Henrietta, 6.6 mi upstream from Turkey Creek, and 7.6 mi upstream from Dry Fork Little Wichita River.

DRAINAGE AREA.--1,037 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1952 to current year. Prior to Oct. 1974, published as station 07315000 Little Wichita River near Henrietta, TX. Water-quality records: Chemical data: Dec. 1952 to Jan. 1956, Nov. 1959 to Sept. 1966, Jan. 1968 to Sept. 1985. Dissolved oxygen: Aug. 1999 to Sept. 1999.

REVISED RECORDS.--WDR TX-93-1: Daily discharge.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 831.57 ft above NGVD of 1929. Prior to June 26, 1953, nonrecording gage, and June 27, 1953 to July 11, 1975 water-stage recorder, all at site 2.6 mi downstream at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records poor. Since installation of gage in Jan. 1953, at least 10% of contributing drainage area has been regulated. The city of Henrietta diverts water from pool below gage for municipal use. Records of diversions are furnished by the cities of Wichita Falls and Henrietta. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1908 reached a stage of 21 ft at former site, from information by Texas Department of Transportation.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	25	4.2	0.00	405	0.00	30	1,250	0.00	0.00
2	0.00	0.00	0.00	13	3.7	0.00	224	0.00	75	581	0.00	0.00
3	0.00	0.00	0.00	9.1	3.2	0.00	79	0.00	151	570	0.00	0.00
4	0.00	0.00	0.00	8.1	3.0	0.00	36	0.00	200	757	0.00	0.00
5	0.00	10	0.00	6.8	2.7	0.00	17	0.00	199	703	0.01	0.00
6	0.00	197	0.00	5.8	1.1	0.00	8.1	0.00	93	510	0.01	4.6
7	0.00	150	0.00	4.8	0.00	0.00	3.3	0.00	38	347	0.00	7.7
8	0.00	109	0.00	4.1	0.00	0.00	1.3	0.00	18	253	0.00	11
9	0.00	51	0.00	1.6	0.00	0.00	0.16	0.00	8.6	194	0.00	13
10	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00	3.7	141	0.00	14
11	0.00	14	0.00	0.01	0.00	0.00	0.00	0.00	1.7	96	0.00	14
12	0.00	8.7	0.00	0.50	0.00	0.00	0.00	8.0	0.42	87	0.00	14
13	0.00	7.2	0.00	1.9	0.00	0.00	0.05	25	0.04	104	0.00	9.5
14	0.00	4.5	0.00	3.0	0.00	0.00	0.24	12	0.02	250	0.00	0.13
15	0.00	4.5	0.00	3.2	0.00	0.00	0.01	6.9	1.6	330	0.00	0.00
16	84	4.5	0.00	3.0	0.00	0.00	0.01	3.5	13	378	0.00	0.00
17	69	2.0	0.00	2.8	0.00	0.00	0.01	1.6	7.8	375	0.00	0.00
18	38	0.37	0.00	1.9	0.00	0.00	0.01	0.41	9.2	297	0.00	0.00
19	26	1.2	0.00	0.00	0.00	0.00	0.00	0.03	6.8	221	0.00	0.00
20	14	1.7	13	69	0.00	0.00	0.00	0.00	2.3	125	0.00	0.00
21	9.3	2.0	37	222	0.00	0.00	0.00	0.00	29	71	0.00	0.00
22	6.8	0.79	20	167	0.00	0.00	0.00	0.00	187	42	0.00	0.00
23	5.4	0.00	11	97	0.00	0.00	0.00	0.00	106	22	0.00	0.00
24	2.5	0.00	5.8	51	0.00	0.00	0.00	0.03	116	14	0.00	0.00
25	2.2	0.00	4.7	29	0.00	0.00	0.00	1.1	33	9.3	0.00	0.00
26	3.7	0.00	2.3	18	0.00	0.00	0.00	12	824	4.8	0.00	0.00
27	3.8	0.00	1.5	12	0.00	0.00	0.00	21	2,040	2.1	0.00	0.00
28	2.0	0.00	2.5	8.6	0.00	0.00	0.00	21	2,040	0.44	0.00	0.00
29	0.01	0.00	4.5	4.9	---	0.00	0.00	57	2,010	0.00	0.00	0.00
30	0.01	0.00	40	5.0	---	267	0.00	62	1,550	0.00	0.00	0.00
31	0.01	---	47	4.8	---	871	---	83	---	0.00	0.00	---
Total	266.73	592.46	189.30	782.91	17.90	1,138.00	774.19	314.57	9,794.18	7,734.64	0.02	87.93
Mean	8.60	19.7	6.11	25.3	0.64	36.7	25.8	10.1	326	250	0.00	2.93
Max	84	197	47	222	4.2	871	405	83	2,040	1,250	0.01	14
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Ac-ft	529	1,180	375	1,550	36	2,260	1,540	624	19,430	15,340	0.04	174

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	66.3	41.6	30.2	12.6	31.3	59.3	88.7	243	174	29.9	14.5	69.1
Max	1,050	854	622	131	305	937	2,169	3,279	1,652	549	325	656
(WY)	(1954)	(1958)	(1963)	(1992)	(2001)	(1990)	(1990)	(1957)	(1992)	(1992)	(2005)	(1955)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1953)	(1953)	(1953)	(1953)	(1953)	(1954)	(1953)	(1971)	(1953)	(1956)	(1954)	(1954)

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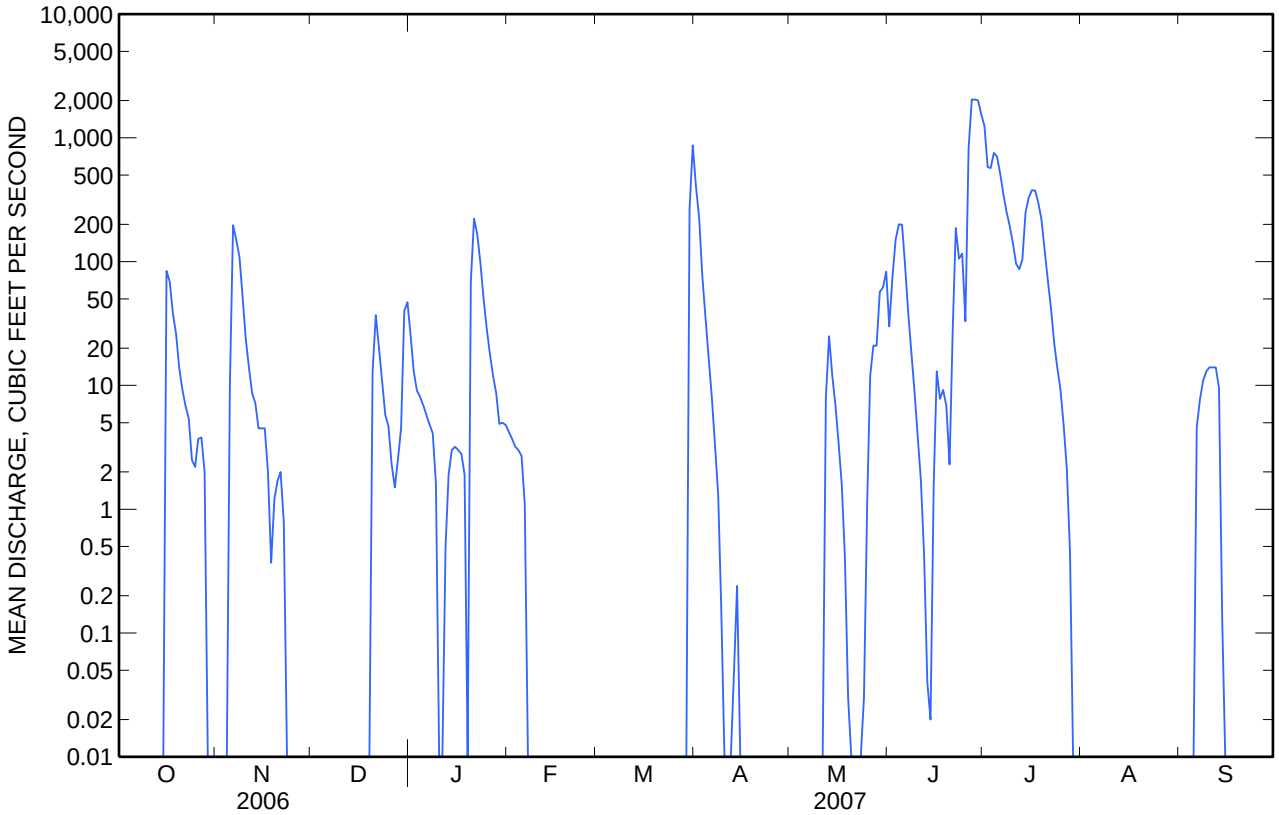
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1953 - 2007	
Annual total	2,418.00		21,692.83			
Annual mean	6.62		59.4		71.7	
Highest annual mean					498	1990
Lowest annual mean					0.84	2000
Highest daily mean	237	May 3	2,040	Jun 27	10,500	May 3, 1990
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1952
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1952
Maximum peak flow			2,200	Jun 27	14,200	May 3, 1990
Maximum peak stage			22.94	Jun 27	24.96	May 3, 1990
Annual runoff (ac-ft)	4,800		43,030		51,960	
10 percent exceeds	14		107		57	
50 percent exceeds	0.00		0.01		0.00	
90 percent exceeds	0.00		0.00		0.00