07247500 FOURCHE MALINE NEAR RED OAK, OKLA.

LOCATION. – Lat 34°54′45″, long 95°09′20″, referenced to North American Datum of 1927, in NW ¼ NW ¼ sec. 13, T.5 N., R.20 E., Latimer County, Okla., Hydrologic Unit 11110105, on downstream side of left abutment of county road bridge, 0.1 mi downstream from Little Fourche Maline, 5.0 mi southwest of Red Oak, and at mile 41.2.

DRAINAGE AREA. - 122 mi².

PERIOD OF RECORD.—October 1938 to April 1991, October 1991 to current year. Monthly discharges only October 1938 to February 1939.

REMARKS.-Regulation since 1966 by floodwater-retarding structures.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent of annual runoff, based on period of record, 1939-1963

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	392	0.00	43.8	3.82	2.9
Nov.	352	0.00	67.6	12.0	4.5
Dec.	584	0.41	91.7	42.3	6.1
Jan.	314	0.52	90.3	51.2	6.0
Feb.	715	7.58	202	150	13.4
Mar.	1,100	5.95	204	139	13.5
Apr.	1,224	18.6	288	162	19.0
May	1,377	24.2	279	138	18.4
Jun.	695	0.91	95.9	27.0	6.3
Jul.	847	0.04	94.2	6.39	6.2
Aug.	143	0.00	18.4	3.50	1.2
Sep.	546	0.00	37.8	5.23	2.5
Annual	317	18.3	126	114	_

Magnitude and probability of annual instantaneous peak flow based on 25 years of record, 1939-1963										
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent										
2	5	10	25	50	100	500				
50 %	20%	10%	4%	2%	1%	0.2%				
6,700	14,200	20,900	31,500	41,100	52,100	84,000				

	Duration table of daily mean flow for period of record, 1939-1963														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
2,150	1,340	506	224	132	85.1	41.9	23.3	12.8	6.73	2.90	0.71	0.05	0.02	0.01	0.00

Wiagiituue	and probability of annual low flow based on period of record, 1940-1963 Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percen							
Period	2	5	10	20				
consecutive days)	50 %	20%	10%	5%				
1	0.00	0.00	0.00	0.00				
3	0.00	0.00	0.00	0.00				
7	0.00	0.00	0.00	0.00				
10	0.00	0.00	0.00	0.00				
30	0.14	0.00	0.00	0.00				
60	0.99	0.00	0.00	0.00				

Magnitude and probability of annual low flow based on period of record, 193	39-1963
spring season, April 1 through May 31	

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	6.94	3.54	2.50	1.88					
3	8.06	4.26	3.09	2.38					
7	10.2	5.27	3.81	2.95					
10	11.6	6.02	4.49	3.60					
30	67.4	31.8	22.4	17.0					
60	215	108	74.2	54.3					

Magnitude and probability of annual low flow based on period of record, 1939-1962 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.14	0.00	0.00	0.00					
60	1.25	0.00	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1939-1963 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.83	0.00	0.00	0.00					
3	1.10	0.00	0.00	0.00					
7	1.29	0.00	0.00	0.00					
10	1.48	0.05	0.00	0.00					
30	4.23	0.76	0.24	0.04					
60	13.0	2.88	1.19	0.55					

07247500 FOURCHE MALINE NEAR RED OAK, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1966-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	675	0.03	87.6	15.3	5.1
Nov.	811	0.05	169	44.3	9.8
Dec.	726	0.05	177	135	10.3
Jan.	762	1.39	142	86.5	8.2
Feb.	780	1.75	176	101	10.3
Mar.	662	2.42	236	202	13.7
Apr.	748	13.8	244	188	14.2
May	1,121	8.85	249	214	14.5
Jun.	551	0.92	139	92.2	8.1
Jul.	390	0.98	37.2	14.3	2.2
Aug.	144	0.00	10.4	3.82	0.6
Sep.	430	0.00	52.6	10.2	3.1
Annual	267	30.6	144	146	_

Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500			
15%	5 %	10%	4%	2%	1%	0.2%			

station skew = 0.226

	Duration table of daily mean flow for period of record, 1966-2007														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
1,680	1,340	813	420	230	146	75.6	43.6	24.4	12.4	5.93	2.68	0.76	0.18	0.00	0.00

Magnitude	and probability of annual l	ow flow based on period of r	ecord, 1967-2007						
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percen								
Period (consecutive days)	2	5	10	20					
	50 %	20%	10%	5 %					
1	0.08	0.00	0.00	0.00					
3	0.11	0.00	0.00	0.00					
7	0.19	0.00	0.00	0.00					
10	0.24	0.00	0.00	0.00					
30	0.90	0.07	0.00	0.00					
60	1.98	0.37	0.14	0.06					

	Magnitude and probability of annual low flow based on period of record, 1966-2007 spring season, April 1 through May 31						
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent			
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	8.87	4.00	2.66	1.91			
3	9.99	4.42	2.90	2.06			
7	12.7	5.44	3.52	2.46			
10	15.5	6.65	4.38	3.14			
30	82.5	30.4	17.4	10.8			

72.4

52.2

105

60

204

	•	ity of annual low flow based mer season, June 1 through	on period of record, 1966-20 October 31	06
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent
Period	2	5	10	20
(consecutive days)	50 %	20%	10%	5 %
1	0.10	0.00	0.00	0.00
3	0.13	0.00	0.00	0.00
7	0.22	0.00	0.00	0.00
10	0.27	0.00	0.00	0.00
30	1.14	0.12	0.01	0.00
60	2.71	0.57	0.22	0.10

	Magnitude and probability of annual low flow based on period of record, 1966-2007 winter season, November 1 through March 31						
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent			
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	2.64	0.37	0.02	0.00			
3	3.72	0.46	0.03	0.00			
7	4.21	0.71	0.14	0.00			
10	5.18	0.91	0.18	0.00			
30	18.6	3.38	1.00	0.31			
60	44.2	8.33	2.57	0.82			

07248500 POTEAU RIVER NEAR WISTER, OKLA.

LOCATION. – Lat 34°56′15″, long 94°42′54″, referenced to North American Datum of 1927, in NW ¼ NW ¼ sec. 6, T.5 N., R.25 E., Le Flore County, Okla., Hydrologic Unit 11110105, on left bank of outflow channel 700 ft downstream from Wister Dam, 2,2 mi southeast of Wister, 2.6 mi upstream from Caston Creek, and at mile 60.8.

DRAINAGE AREA. - 993 mi².

PERIOD OF RECORD.—May 1938 to September 1984. Monthly discharge only for some periods, published in WSP 1311. Prior to May 21, 1951, records below about 500 ft3/s include flow from Caston Creek, drainage area, 70 mi².

REMARKS.-Flow completely regulated since October 1949 by Wister Lake.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent of annual runoff, based on period of record, 1939-1948

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,458	0.00	312	19.1	2.0
Nov.	4,522	13.6	840	201	5.3
Dec.	5,687	30.0	1,257	803	7.9
Jan.	2,876	35.3	1,041	704	6.6
Feb.	6,657	146	2,421	2,608	15.3
Mar.	10,860	114	2,268	994	14.3
Apr.	6,619	1,073	2,871	2,168	18.1
May	6,830	384	2,961	2,244	18.7
Jun.	7,115	85.5	1,319	496	8.3
Jul.	790	17.0	169	71.4	1.1
Aug.	316	1.01	119	64.3	0.8
Sep.	1,648	0.34	249	45.6	1.6
Annual	3,168	268	1,311	1,190	_

Magnitu	de and probabilit	y of annual insta	ntaneous peak flo	ow based on 10 y	ears of record, 19	939-1948				
Discharg	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500				
50 %	20%	10%	4%	2%	1%	0.2%				
29,900	60,300	86,000	124,000	157,000	193,000	291,000				

	Duration table of daily mean flow for period of record, 1938-1948														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30 %	40%	50%	60%	70%	80%	90%	95%	98%	99%
19,800	13,200	6,500	3,000	1,700	1,130	653	376	215	131	64.4	27.4	4.62	0.65	0.03	0.02

Magnitude	Magnitude and probability of annual low flow based on period of record, 1940-1948								
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent					
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.14	0.00	0.00	0.00					
3	0.14	0.00	0.00	0.00					
7	0.21	0.00	0.00	0.00					
10	0.26	0.00	0.00	0.00					
30	2.09	0.27	0.00	0.00					
60	9.44	1.73	0.71	0.33					

Magnitude and probability of annual low flow based on period of record, 1939	1-1948
spring season, April 1 through May 31	

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	145	96.2	78.6	66.8			
3	155	108	90.4	79.1			
7	175	121	106	88.0			
10	245	142	111	92.6			
30	1,220	668	470	345			
60	2,760	1,700	1,270	972			

Magnitude and probability of annual low flow based on period of record, 1939-1947 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.15	0.00	0.00	0.00			
3	0.22	0.00	0.00	0.00			
7	0.30	0.00	0.00	0.00			
10	0.34	0.00	0.00	0.00			
30	3.33	0.30	0.00	0.00			
60	14.2	2.29	0.81	0.33			

Magnitude and probability of annual low flow based on period of record, 1939-1948 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	11.2	0.52	0.00	0.00			
3	19.9	0.74	0.00	0.00			
7	25.9	5.22	2.05	0.90			
10	37.8	10.1	4.61	2.29			
30	102	39.7	24.0	15.8			
60	244	80.9	41.8	23.2			

07248500 POTEAU RIVER NEAR WISTER, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1950-1984

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,872	3.38	295	45.6	2.3
Nov.	3,694	0.53	679	192	5.4
Dec.	4,244	0.17	1,172	766	9.3
Jan.	4,753	0.14	1,123	876	8.9
Feb.	4,876	10.0	1,347	998	10.7
Mar.	4,330	53.1	1,698	1,558	13.4
Apr.	4,347	135	1,652	1,290	13.1
May	5,940	93.1	2,211	2,072	17.5
Jun.	5,786	11.4	1,399	315	11.1
Jul.	5,704	0.84	523	162	4.2
Aug.	3,652	2.48	289	23.4	2.3
Sep.	1,709	0.40	238	43.5	1.9
Annual	2,087	200	1,050	942	_

Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500		
15%	5%	10%	4%	2%	1%	0.2%		

station skew = 0.322

	Duration table of daily mean flow for period of record, 1950-1984														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70%	80%	90%	95%	98%	99%
6,780	6,530	5,710	4,110	2,700	1,750	755	364	163	66.8	21.3	11.6	6.36	1.73	0.44	0.18

Magnitude	Magnitude and probability of annual low flow based on period of record, 1951-1984									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5%						
1	3.05	0.64	0.08	0.00						
3	4.44	1.12	0.18	0.00						
7	5.37	1.30	0.25	0.04						
10	6.87	1.41	0.38	0.07						
30	9.84	2.24	0.82	0.31						
60	16.1	3.65	1.60	0.79						

Magnitude and probability of annual low flow based on period of record, 1950-1984
spring season. April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	21.3	7.75	4.09	2.27						
3	35.4	14.2	8.90	6.10						
7	105	37.8	22.7	15.0						
10	143	47.2	26.9	17.1						
30	689	304	198	138						
60	1,730	957	668	483						

Magnitude and probability of annual low flow based on period of record, 1950-1984 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	4.06	1.11	0.44	0.15						
3	4.68	1.35	0.56	0.20						
7	5.41	1.58	0.71	0.34						
10	7.06	2.14	0.95	0.45						
30	10.0	3.54	2.00	1.24						
60	20.5	5.88	3.15	1.91						

Magnitude and probability of annual low flow based on period of record, 1950-1983 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	7.72	1.55	0.18	0.00						
3	10.7	2.40	0.47	0.00						
7	17.4	3.15	0.38	0.05						
10	19.9	3.70	0.45	0.07						
30	78.6	7.65	1.69	0.41						
60	387	56.8	13.7	3.33						

07249400 JAMES FORK NEAR HACKETT, ARK.

LOCATION. – Lat 35°09'45", long 94°24'25", referenced to North American Datum of 1927, in NW ¼ NW ¼ sec. 34, T.6 N., R.32 W., Sebastian County, Ark., Hydrologic Unit 11110105, near left bank on downstream side of bridge on State Hwy 45, 1.7 mi south of Hackett, 2.0 mi downstream from Elder Branch, 2.0 mi upstream from small tributary, and 3.6 mi upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA. - 147 mi².

PERIOD OF RECORD.-April 1958 to current year.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1958-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	867	0.00	65.3	11.2	3.8
Nov.	915	0.00	156	41.7	9.0
Dec.	760	0.40	200	107	11.5
Jan.	820	0.50	176	134	10.1
Feb.	727	1.08	211	155	12.2
Mar.	996	0.92	264	185	15.2
Apr.	1,047	19.9	231	165	13.3
May	1,203	18.7	256	153	14.7
Jun.	342	1.76	95.7	38.7	5.5
Jul.	768	0.42	53.4	12.4	3.1
Aug.	81.7	0.02	10.1	5.69	0.6
Sep.	159	0.00	18.3	7.79	1.1
Annual	308	18.9	143	153	_

Magnitu	Magnitude and probability of annual instantaneous peak flow based on 50 years of record, 1958-2007								
Dischar	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500			
50 %	20%	10%	4%	2%	1%	0.2%			
6,710	11,400	14,900	19,600	23,400	27,400	37,300			

	Duration table of daily mean flow for period of record, 1958-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
2,280	2,280 1,350 583 282 185 139 79.2 49.0 29.4 16.5 8.21 3.78 1.48 0.56 0.09 0.00								0.00						

Magnitude	Magnitude and probability of annual low flow based on period of record, 1959-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5%						
1	0.52	0.07	0.00	0.00						
3	0.63	0.08	0.00	0.00						
7	0.78	0.15	0.00	0.00						
10	0.89	0.17	0.00	0.00						
30	1.84	0.43	0.14	0.02						
60	3.75	0.75	0.20	0.05						

Magnitude and probability of annual low flow based on period of record, 1958-2007
spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period (consecutive days)	2	5	10	20			
	50 %	20%	10%	5%			
1	16.0	5.73	2.99	1.64			
3	17.7	6.28	3.28	1.81			
7	21.4	7.42	3.84	2.10			
10	24.4	8.97	4.93	2.89			
30	66.8	31.0	21.3	15.9			
60	181	83.2	54.0	37.2			

Magnitude and probability of annual low flow based on period of record, 1958-2006 summer season, June 1 through October 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5 %			
1	0.55	0.07	0.00	0.00			
3	0.66	0.08	0.00	0.00			
7	0.81	0.16	0.00	0.00			
10	0.92	0.18	0.00	0.00			
30	1.97	0.47	0.16	0.02			
60	4.38	0.89	0.24	0.05			

Magnitude and probability of annual low flow based on period of record, 1958-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	3.79	0.88	0.36	0.15			
3	5.09	1.24	0.52	0.22			
7	6.88	1.77	0.75	0.32			
10	7.96	2.09	0.89	0.38			
30	20.6	4.54	1.63	0.57			
60	63.0	13.9	4.85	1.75			

07249413 POTEAU RIVER NEAR PANAMA, OKLA.

LOCATION. – Lat 35°09′56″, long 94°39′10″, referenced to North American Datum of 1927, in SE ¼ SE ¼ sec. 15, T.8 N., R.25 E., Le Flore County, Okla., Hydrologic Unit 11110105, on left end of county road bridge, 1.5 mi east of Panama, Okla., 8 mi downstream from James Fork Creek, and at mile 26.4.

DRAINAGE AREA. - 1,767 mi².

PERIOD OF RECORD.-October 1989 to December 1990, May 1992 to current year.

REMARKS.-Flow regulated by Wister Reservoir 34.5 mi upstream.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent of annual runoff, based on period of record, 1990-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	3,519	15.0	524	95.6	2.0
Nov.	9,861	11.5	1,809	645	6.9
Dec.	8,135	9.68	3,134	2,879	12.0
Jan.	10,930	27.6	3,535	2,490	13.5
Feb.	7,467	24.7	3,356	2,935	12.8
Mar.	8,242	270	3,417	2,310	13.1
Apr.	8,912	262	3,157	2,522	12.1
May	16,670	403	3,594	2,226	13.7
Jun.	5,531	180	2,110	1,906	8.1
Jul.	4,587	16.8	809	278	3.1
Aug.	2,478	20.8	303	62.3	1.2
Sep.	2,678	21.8	419	95.4	1.6
Annual	3,907	295	2,171	2,318	_

Magnitude and probability of annual instantaneous peak flow based on 18 years of record, 1990-2007									
Discharg	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500			
50%	20%	10%	4%	2%	1%	0.2%			
19,600	33,700	44,600	59,900	72,400	85,800	120,000			

station skew = -0.060

	Duration table of daily mean flow for period of record, 1990-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30 %	40%	50 %	60%	70%	80%	90%	95%	98%	99%
15,600	11,600	8,360	6,890	5,420	4,040	2,310	1,170	485	191	90.2	49.0	23.8	15.8	10.4	8.27

Magnitude	Magnitude and probability of annual low flow based on period of record, 1991-2007							
	Discharge, in ft³/s, for i	ndicated recurrence interval,	in years, and nonexceedanc	e probability, in percent				
Period	2	5	10	20				
(consecutive days)	50%	20%	10%	5 %				
1	13.3	7.08	4.81	3.38				
3	14.3	7.53	5.05	3.51				
7	16.1	8.37	5.53	3.78				
10	17.2	9.30	6.31	4.41				
30	22.2	14.0	12.0	11.0				
60	33.0	21.1	18.7	17.6				

Magnitude and probability of annual low flow based on period of record, 1990-2007
spring season. April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	153	61.2	42.8	33.7			
3	184	68.4	45.3	33.9			
7	281	89.4	52.5	35.0			
10	349	115	67.8	45.2			
30	1,360	503	290	182			
60	2,460	1,240	872	656			

Magnitude and probability of annual low flow based on period of record, 1990-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5 %			
1	15.4	8.36	5.62	3.88			
3	16.6	8.87	5.89	4.02			
7	19.0	9.80	6.39	4.29			
10	20.4	10.9	7.26	5.01			
30	28.4	15.3	12.4	10.9			
60	52.3	25.3	19.2	16.0			

Magnitude and probability of annual low flow based on period of record, 1990-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
consecutive days)	50 %	20%	10%	5%			
1	35.4	14.0	8.89	6.18			
3	42.1	16.8	10.5	7.00			
7	66.0	21.3	11.6	7.04			
10	75.8	23.3	12.5	7.44			
30	222	43.9	17.6	7.94			
60	785	128	40.0	13.6			

07249500 COVE CREEK NEAR LEE CREEK, ARK.

LOCATION. – Lat 35°43′20″, long 94°24′28″, referenced to North American Datum of 1927, in SW 1/4 NW 1/4 sec. 16, T.12 N., R.32 W., Crawford County, Ark., Hydrologic Unit 11110104, near left bank on downstream side of bridge, 4.5 miles northwest of Lee Creek, and at mile 5.8.

DRAINAGE AREA. - 35.3 mi².

PERIOD OF RECORD.-May 1950 to September 1970.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1951-1970

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	44.4	0.00	12.6	3.06	2.7
Nov.	118	0.04	23.7	4.22	5.1
Dec.	104	0.16	27.8	13.3	6.0
Jan.	93.0	0.34	33.1	19.7	7.1
Feb.	216	3.09	53.4	32.2	11.5
Mar.	202	6.49	70.6	58.1	15.2
Apr.	290	7.82	85.1	66.4	18.4
May	349	13.9	93.3	63.3	20.1
Jun.	112	1.00	20.5	10.1	4.4
Jul.	102	0.08	22.2	6.47	4.8
Aug.	77.1	0.00	10.4	1.66	2.2
Sep.	95.0	0.00	11.2	1.13	2.4
Annual	85.0	7.78	37.9	37.7	_

Magnitude and probability of annual instantaneous peak flow based on 55 years of record, 1950-2004										
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent										
2 5 10 25 50 100 5										
50%	20%	10%	4%	2%	1%	0.2%				
5,000	10,600	15,400	22,600	28,800	35,500	53,600				

	Duration table of daily mean flow for period of record, 1950-1970														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
578	343	153	78.5	52.7	39.4	23.3	13.2	6.73	3.48	1.71	0.78	0.12	0.10	0.02	0.01

Magnitude	Magnitude and probability of annual low flow based on period of record, 1952-1970										
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent							
Period	2	5	10	20							
(consecutive days)	50 %	20%	10%	5 %							
1	0.07	0.00	0.00	0.00							
3	0.07	0.00	0.00	0.00							
7	0.08	0.00	0.00	0.00							
10	0.09	0.00	0.00	0.00							
30	0.16	0.01	0.00	0.00							
60	0.36	0.06	0.02	0.00							

	•	ity of annual low flow based pring season, April 1 through	on period of record, 1951-197 May 31	70
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent
Period	2	5	10	20
(consecutive days)	50 %	20%	10%	5%
1	5.46	3.06	2.33	1.88
3	6.05	3.35	2.51	2.01
7	7.97	4.10	2.93	2.24
10	9.16	4.77	3.50	2.76
30	39.3	20.4	14.2	10.3

43.4

34.8

29.2

60

69.2

	•	ity of annual low flow based Imer season, June 1 through	on period of record, 1951-19 October 31	69
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent
Period	2	5	10	20
(consecutive days)	50 %	20%	10%	5%
1	0.07	0.00	0.00	0.00
3	0.07	0.00	0.00	0.00
7	0.08	0.00	0.00	0.00
10	0.10	0.00	0.00	0.00
30	0.19	0.04	0.00	0.00
60	0.51	0.09	0.03	0.00

		ity of annual low flow based er season, November 1 throug		70			
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent			
Period	2	5	10	20			
(consecutive days)	50 %	20 %	10%	5%			
1	0.90	0.00	0.00	0.00			
3	0.93	0.07	0.00	0.00			
7	1.09	0.09	0.00	0.00			
10	1.12	0.11	0.00	0.00			
30	2.38	0.40	0.14	0.06			
60	8.20	1.52	0.54	0.22			

07249985 LEE CREEK NEAR SHORT, OKLA.

LOCATION. – Lat 35°31′02″, long 94°27′51″, referenced to North American Datum of 1927, in NW ¼ NE ¼ sec. 17, T.12 N., R.27 E., Sequoyah County, Okla., Hydrologic Unit 11110104, on left bank 0.5 mi west of Arkansas-Oklahoma State line, 500 ft downstream from Webbers Creek, 4.1 mi south of Short, Oklahoma, and 7.5 mi southwest of Uniontown, and at river mile 11.0.

DRAINAGE AREA. - 420 mi².

PERIOD OF RECORD.—October 1930 to June 1937, October 1950 to current year. Prior to October 1992, published as "07250000 Lee Creek near Van Buren".

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1931-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	2,837	0.00	216	51.9	3.3
Nov.	3,572	0.13	551	200	8.5
Dec.	2,378	0.75	573	362	8.8
Jan.	2,831	2.04	607	426	9.3
Feb.	2,824	2.94	753	560	11.6
Mar.	3,100	25.2	1,037	835	16.0
Apr.	3,657	94.6	1,080	874	16.6
May	3,516	41.3	907	803	14.0
Jun.	4,450	7.00	446	170	6.9
Jul.	1,909	0.19	163	34.2	2.5
Aug.	583	0.00	44.5	10.9	0.7
Sep.	1,678	0.00	123	9.61	1.9
Annual	1,090	92.5	540	480	_

Magnitude a	Magnitude and probability of annual instantaneous peak flow based on 77 historic years of record, 1931-2007											
Dischar	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent											
2	2 5 10 25 50 100											
50 %	20%	10%	4%	2%	1%	0.2%						
24,900	43,100	56,800	75,500	90,300	106,000	144,000						

	Duration table of daily mean flow for period of record, 1931-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
6,580											0.00				

Magnitude and probability of annual low flow based on period of record, 1932-2007								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5 %				
1	0.38	0.00	0.00	0.00				
3	0.46	0.00	0.00	0.00				
7	0.53	0.00	0.00	0.00				
10	0.59	0.00	0.00	0.00				
30	1.50	0.09	0.00	0.00				
60	4.37	0.45	0.07	0.00				

Magnitude and probability of annual low flow based on period of record, 1931-2007
spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	93.3	47.8	33.3	24.5				
3	101	51.6	35.9	26.5				
7	120	59.6	41.3	30.5				
10	134	65.9	45.5	33.5				
30	453	200	125	82.2				
60	874	496	356	266				

Magnitude and probability of annual low flow based on period of record, 1931-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	0.39	0.00	0.00	0.00				
3	0.46	0.00	0.00	0.00				
7	0.53	0.00	0.00	0.00				
10	0.59	0.00	0.00	0.00				
30	1.94	0.12	0.00	0.00				
60	5.58	0.75	0.14	0.00				

Magnitude and probability of annual low flow based on period of record, 1931-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	19.8	2.05	0.04	0.00				
3	22.3	2.28	0.04	0.00				
7	29.0	2.35	0.06	0.00				
10	31.5	2.49	0.23	0.00				
30	87.6	11.6	2.91	0.78				
60	205	38.7	12.3	4.12				

07250000 LEE CREEK NEAR VAN BUREN, ARK.

LOCATION. – Lat 35°29'40", long 94°26'58", referenced to North American Datum of 1927, in SE 1/4 sec. 21, T.12 N., R.27 E., Indian Meridian, Sequoyah County, Okla., Hydrologic Unit 11110104, on right bank 300 ft west of Arkansas-Oklahoma State line, 3.2 miles downstream from Webbers Creek, 6.8 miles northwest of Van Buren, and at mile 7.8.

DRAINAGE AREA. - 426 mi².

PERIOD OF RECORD.-October 1930 to June 1937, October 1950 to November 1992.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1931-1992

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	2,837	0.00	250	50.0	4.0
Nov.	3,572	0.13	494	178	7.9
Dec.	2,378	1.95	538	261	8.6
Jan.	2,557	3.31	502	361	8.0
Feb.	2,824	18.8	703	502	11.2
Mar.	3,100	25.2	1,045	835	16.6
Apr.	3,657	94.6	1,048	872	16.7
May	3,516	41.3	941	803	15.0
Jun.	4,450	7.00	435	172	6.9
Jul.	1,909	0.19	127	30.2	2.0
Aug.	583	0.00	55.3	10.9	0.9
Sep.	1,678	0.00	139	9.90	2.2
Annual	1,090	92.5	522	463	_

			•		oric years of reco	
2 viscnarg	je, in 11:7s, for ina 5	10	e interval, in yea 25	rs, and exceeder	nce probability, in	1 percent 500
50%	20%	10%	4%	2%	1%	0.2%
24,400	42,900	56,700	75,600	90,400	106,000	144,000

Duration table of daily mean flow for period of record, 1931-1993															
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
6,580	4,260	2,280	1,240	856	635	382	234	133	66.4	29.0	9.68	2.12	0.29	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1932-1992								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.47	0.00	0.00	0.00					
3	0.53	0.00	0.00	0.00					
7	0.59	0.00	0.00	0.00					
10	0.63	0.00	0.00	0.00					
30	1.44	0.05	0.00	0.00					
60	3.87	0.31	0.02	0.00					

Magnitude and probability of annual low flow based on period of record, 1931-199	2
spring season, April 1 through May 31	

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	101	50.6	34.2	24.4				
3	110	54.8	37.2	26.6				
7	131	64.2	43.4	31.1				
10	147	71.1	47.9	34.3				
30	489	220	137	90.1				
60	857	479	344	257				

Magnitude and probability of annual low flow based on period of record, 1931-1991 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.47	0.00	0.00	0.00				
3	0.53	0.00	0.00	0.00				
7	0.59	0.00	0.00	0.00				
10	0.63	0.00	0.00	0.00				
30	1.94	0.06	0.00	0.00				
60	5.15	0.53	0.04	0.00				

Magnitude and probability of annual low flow based on period of record, 1931-1992 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	16.5	1.50	0.00	0.00				
3	18.2	1.66	0.00	0.00				
7	27.8	1.70	0.03	0.00				
10	33.0	1.82	0.17	0.00				
30	78.3	11.8	3.30	0.98				
60	171	35.9	12.7	4.77				

07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM NEAR VAN BUREN, ARK.

LOCATION. – Lat 35°20′56″, long 94°17′54″, referenced to North American Datum of 1927, in NE ¼ NE ¼ sec. 28, T.8 N., R.31 W., Sebastian County, Ark., Hydrologic Unit 11110104, in metal shelter on dam and at river mile 308.9.

DRAINAGE AREA. - 128,306 mi².

PERIOD OF RECORD.—October 1927 to current year. Prior to October 1969, published as "07250500 Arkansas River at Van Buren", and October 1969 to September 1988, published as "at Dam No. 13", near Van Buren. Gage height records collected from 1879 to Dec 1955 at Fort Smith, 16.3 mi upstream, are contained in reports of the National Weather Service.

REMARKS.—Prior to October 1969, published as "07250500 Arkansas River at Van Buren", and October 1969 to September 1988, published as "at Dam No. 13, near Van Buren". Flow regulated since 1964 by Lake Eufaula and Keystone Lake. Flow has been further regulated by Robert S. Kerr Reservoir since 1970. Beginning April 26, 1970, daily discharge computed from relations between discharge, head and gate openings.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent of annual runoff, based on period of record, 1928-1963

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	164,300	492	25,186	11,490	6.6
Nov.	146,400	1,262	20,306	10,340	5.4
Dec.	56,170	1,421	17,318	10,130	4.6
Jan.	90,690	1,194	19,765	12,920	5.2
Feb.	111,700	2,328	25,094	18,640	6.6
Mar.	141,700	2,401	29,752	23,620	7.9
Apr.	219,200	3,185	47,627	30,850	12.6
May	302,100	7,446	69,654	49,730	18.4
Jun.	231,000	5,353	55,168	42,520	14.6
Jul.	176,000	1,585	34,267	18,480	9.0
Aug.	97,360	818	16,107	10,720	4.2
Sep.	71,400	742	18,457	13,080	4.9
Annual	65,250	5,965	31,564	33,050	_

Magnit	Magnitude and probability of annual instantaneous peak flow based on 36 years of record, 1928-1963											
Dischar	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent											
2	5	10	25	50	100	500						
50 %	20%	10%	4%	2 %	1%	0.2%						
223,000	371,000	481,000	633,000	755,000	883,000	1,210,000						

Water Resources Council weighted skew = -0.075

	Duration table of daily mean flow for period of record, 1928-1963														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70 %	80%	90%	95%	98%	99%
244,000	195,000	132,000	80,800	57,600	43,900	27,200	18,800	13,600	9,730	7,100	4,980	3,010	1,910	1,170	800

Magnitude	Magnitude and probability of annual low flow based on period of record, 1929-1963								
	Discharge, in ft³/s, for in	dicated recurrence interval	, in years, and nonexceedanc	e probability, in percent					
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	2,500	1,160	731	484					
3	2,690	1,240	778	512					
7	2,940	1,340	836	551					
10	3,040	1,380	863	571					
30	3,840	1,650	1,020	675					
60	5,040	2,230	1,410	946					

Magnitude and probability of annual low flow based on period of record, 1928-1963
spring season. April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	8,670	4,360	2,940	2,080				
3	9,320	4,600	3,080	2,180				
7	10,800	5,280	3,550	2,530				
10	12,400	5,950	4,000	2,860				
30	24,900	10,600	6,500	4,270				
60	46,000	21,100	13,500	9,070				

Magnitude and probability of annual low flow based on period of record, 1928-1962 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	2,850	1,290	796	517				
3	3,040	1,350	825	530				
7	3,270	1,430	873	562				
10	3,380	1,470	899	581				
30	4,520	1,860	1,110	709				
60	7,060	2,780	1,650	1,040				

Magnitude and probability of annual low flow based on period of record, 1928-1963 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	3,460	1,740	1,180	845				
3	3,640	1,880	1,300	954				
7	3,990	2,120	1,500	1,120				
10	4,170	2,200	1,560	1,160				
30	6,110	3,090	2,110	1,530				
60	8,760	4,460	3,060	2,210				

07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM, NEAR VAN BUREN, ARK.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1970-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	224,500	1,446	23,999	12,880	5.2
Nov.	161,200	1,329	34,855	22,520	7.5
Dec.	139,700	2,144	34,262	20,160	7.4
Jan.	127,000	696	33,210	21,500	7.1
Feb.	87,650	2,656	33,534	26,660	7.2
Mar.	147,200	4,003	56,129	44,060	12.0
Apr.	164,300	2,910	57,270	53,740	12.3
May	187,500	12,160	64,210	56,200	13.8
Jun.	191,500	4,688	59,900	49,820	12.8
Jul.	171,600	4,457	35,691	24,570	7.7
Aug.	75,760	4,378	17,808	12,820	3.8
Sep.	54,130	3,207	15,296	10,410	3.3
Annual	87,670	7,145	38,851	35,190	_

Magnitu	ide and probability	of annual instantan	eous peak flow ba	nsed on 38 years o	of record, 1970-2	007					
Dischar	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent										
2	5	10	25	50	100	500					
15%	5%	10%	4%	2%	1%	0.2%					
162,000	223,000	265,000	320,000	363,000	407,000	515,000					

station skew = 0.173

			D	uration ta	able of da	ily mean	flow for p	eriod of	record, 1	970-2007					
			Discharge	e, in ft³/s,	which w	as equale	d or exce	eded for	indicate	d percent	t of time				
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
169,000	162,000	140,000	106,000	80,300	64,200	44,200	33,000	22,900	15,900	11,100	7,130	3,300	1,480	217	82.6

Magnitude	and probability of annual	low flow based on period of	record, 1971-2007	
	Discharge, in ft³/s, for	indicated recurrence interva	l, in years, and nonexceedan	ce probability, in percent
Period	2	5	10	20
(consecutive days)	50 %	20%	10%	5%
1	56.2	12.8	0.00	0.00
3	665	146	58.1	25.2
7	2,140	1,070	725	518
10	2,720	1,430	984	709
30	4,780	2,520	1,720	1,230
60	6,770	3,760	2,700	2,020

M	lagnitude and probability of annual low flow based on period of record, 1970-2007
	spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	8,330	1,160	327	100						
3	14,500	3,730	1,540	668						
7	17,200	6,220	3,460	2,070						
10	18,800	6,940	3,920	2,380						
30	36,600	15,600	9,240	5,780						
60	52,100	27,200	18,500	13,200						

Magnitude and probability of annual low flow based on period of record, 1970-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	145	33.4	14.5	0.00						
3	1,340	472	256	149						
7	2,880	1,460	1,020	750						
10	3,400	1,770	1,250	934						
30	6,390	3,420	2,410	1,780						
60	8,610	4,990	3,790	3,030						

Magnitude and probability of annual low flow based on period of record, 1970-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	298	25.1	0.00	0.00						
3	1,910	291	91.0	31.6						
7	4,480	1,680	979	614						
10	5,400	2,210	1,340	877						
30	9,780	4,220	2,660	1,790						
60	14,800	6,510	4,120	2,770						

RED RIVER BASIN

07299300 LITTLE RED RIVER NEAR TURKEY, TEX.

LOCATION. – Lat 34°32′27″, long 100°46′13″, referenced to North American Datum of 1927, Hall County, Tex., Hydrologic Unit 11120105, on left bank at downstream side of bridge on Farm Road 657, 10 mi (16 km) upstream from mouth, and 14.5 mi (23.3 km) northeast of Turkey.

DRAINAGE AREA. - 139 mi².

PERIOD OF RECORD.-August 1968 to September 1981.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1969-1981

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	13.7	0.16	4.29	2.07	3.2
Nov.	10.2	0.07	2.30	0.52	1.7
Dec.	2.02	0.06	0.50	0.23	0.4
Jan.	1.55	0.08	0.33	0.14	0.3
Feb.	2.14	0.05	0.41	0.28	0.3
Mar.	52.8	0.05	7.18	0.59	5.4
Apr.	67.6	0.06	12.4	0.40	9.4
May	72.5	0.32	27.0	16.9	20.4
Jun.	73.4	0.22	26.4	17.4	20.0
Jul.	43.7	0.00	9.25	1.67	7.0
Aug.	66.3	0.97	17.9	13.4	13.6
Sep.	68.7	0.09	24.1	20.4	18.2
Annual	18.5	2.41	11.0	10.9	_

	ide and probabili ge, in ft³/s, for ind	•	•		•	
2	5	10	25	50	100	500
50%	20%	10%	4%	2%	1%	0.2%
2,470	3,410	4,020	4,780	5,320	5,860	7,100

				Duratio	on table	of daily r	nean flo	w for pe	iod of re	cord, 190	68-1981				
			Discha	rge, in ft	³/s, whic	h was e	qualed o	r excee	led for ir	dicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
307	149	32.8	6.24	2.41	1.20	0.48	0.27	0.20	0.15	0.11	0.08	0.05	0.01	0.00	0.00

Magnitude	and probability of annual le	ow flow based on period of r	ecord, 1970-1981		
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent	
Period	2	5	10	20	
(consecutive days)	50 %	20%	10%	5%	
1	0.01	0.00	0.00	0.00	
3	0.01	0.00	0.00	0.00	
7	0.01	0.00	0.00	0.00	
10	0.01	0.00	0.00	0.00	
30	0.06	0.01	0.00	0.00	
60	0.10	0.04	0.03	0.01	

Magnitude and probability of annual low flow based on period of record, 1969-1981
spring season. April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
consecutive days)	50 %	20%	10%	5%			
1	0.06	0.00	0.00	0.00			
3	0.06	0.00	0.00	0.00			
7	0.06	0.01	0.00	0.00			
10	0.08	0.02	0.01	0.00			
30	0.48	0.13	0.07	0.04			
60	17.3	4.65	1.81	0.72			

Magnitude and probability of annual low flow based on period of record, 1969-1980 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.01	0.00	0.00	0.00			
3	0.02	0.00	0.00	0.00			
7	0.02	0.00	0.00	0.00			
10	0.02	0.00	0.00	0.00			
30	0.07	0.00	0.00	0.00			
60	1.12	0.15	0.04	0.01			

Magnitude and probability of annual low flow based on period of record, 1969-1981 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.04	0.02	0.01	0.01			
3	0.05	0.03	0.02	0.02			
7	0.06	0.04	0.03	0.02			
10	0.07	0.04	0.03	0.03			
30	0.09	0.06	0.05	0.04			
60	0.13	0.08	0.06	0.06			

RED RIVER BASIN

07299540 PRAIRIE DOG TOWN FORK RED RIVER NEAR CHILDRESS, TEX.

LOCATION. – Lat 34°34′09″, long 100°11′37″, referenced to North American Datum of 1927, Childress County, Tex., Hydrologic Unit 11120105, on left 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 is probably noncontributing.

PERIOD OF RECORD.-April 1965 to current year.

REMARKS.—Since water year 1974, at least 10 percent of contributing drainage area has been regulated by MacKenzie Reservoir (station 07298100), normal storage 46,077 acre-ft, Baylor Lake, and Lake Childress. Flow is also affected by flood-detention pools of 23 floodwater-retarding structures with a combined detention capacity of 20,010 acre-ft. These structures control runoff from 95.2 square miles in the drainage basin above station. Many small diversions upstream from station.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1966-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,279	3.14	115	34.7	8.1
Nov.	490	0.08	58.6	19.4	4.1
Dec.	288	2.27	44.0	14.9	3.1
Jan.	296	2.05	40.8	15.4	2.8
Feb.	358	2.00	44.2	19.2	3.1
Mar.	500	1.72	70.2	31.3	4.9
Apr.	735	2.95	108	26.9	7.6
May	1,835	1.18	254	111	17.8
Jun.	1,297	3.46	320	217	22.4
Jul.	367	0.66	90.0	50.9	6.3
Aug.	1,086	1.56	152	74.6	10.6
Sep.	470	3.39	132	92.9	9.2
Annual	286	27.6	119	116	_

Magnitu	de and probabili	ty of annual insta	ntaneous peak fl	ow based on 43 y	ears of record, 1	965-2007
Discharg	je, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	ice probability, i	n percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2%	1%	0.2%
14,800	30,700	44,000	63,600	80,000	97,800	145,000

Water Resources Council weighted skew = -0.253

				Duratio	on table	of daily r	nean flo	w for pe	riod of re	cord, 19	65-2007				
			Discha	rge, in fl	³/s, whic	h was e	qualed o	r excee	led for ir	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30 %	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
2,150	1,230	518	195	107	68.3	32.8	17.5	10.2	6.29	4.18	2.45	1.14	0.52	0.14	0.04

Magnitude and probability of annual low flow based on period of record, 1967-2007									
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.15	0.02	0.00	0.00					
3	0.24	0.04	0.00	0.00					
7	0.51	0.11	0.04	0.01					
10	0.69	0.19	0.08	0.04					
30	2.65	1.02	0.58	0.35					
60	6.02	3.05	2.23	1.75					

Magnitude and probability of annual low flow based on period of record, 1966-2007 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	1.15	0.19	0.06	0.02			
3	1.44	0.33	0.15	0.08			
7	2.24	0.71	0.40	0.25			
10	2.93	0.96	0.54	0.34			
30	16.9	5.30	2.97	1.86			
60	102	43.0	27.7	19.4			

Magnitude and probability of annual low flow based on period of record, 1966-2006 summer season, June 1 through October 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5 %			
1	0.24	0.04	0.01	0.00			
3	0.36	0.06	0.01	0.00			
7	0.63	0.14	0.05	0.02			
10	0.81	0.22	0.10	0.05			
30	4.67	1.56	0.88	0.55			
60	21.0	6.82	3.61	2.08			

Magnitude and probability of annual low flow based on period of record, 1966-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
consecutive days)	50 %	20%	10%	5%			
1	1.55	0.41	0.18	0.02			
3	2.01	0.56	0.24	0.03			
7	3.33	0.78	0.28	0.10			
10	3.58	1.02	0.45	0.21			
30	6.86	2.31	1.18	0.64			
60	9.85	4.26	2.92	2.20			

RED RIVER BASIN

07299570 RED RIVER NEAR QUANAH, TEX.

LOCATION. – Lat 34°24′47″, long 99°44′03″, referenced to North American Datum of 1927, Jackson County, Okla., Hydrologic Unit 11130101, on right bank at downstream side of bridge on State Highway 6, 8 mi north of Quanah, 30 mi upstream from Salt Fork Red River, and at mile 1,030.

DRAINAGE AREA. – 8,321 mi², of which 4,769 mi² is probably noncontributing.

PERIOD OF RECORD.-November 1959 to September 1982.

REMARKS.—Several small diversions above station for irrigation. Flow is also affected by flood-detention pools of 23 floodwater-retarding structures with a combined detention capacity of 20,010 acre-ft. These structures control runoff from 95.2 square miles in the drainage basin above station.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1960-1982

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,836	0.71	128	15.9	7.2
Nov.	88.8	0.64	31.6	19.2	1.8
Dec.	212	0.55	33.8	11.3	1.9
Jan.	103	2.02	23.4	13.5	1.3
Feb.	115	2.82	28.8	20.5	1.6
Mar.	404	0.84	48.5	13.0	2.7
Apr.	382	1.76	79.4	30.9	4.5
May	1,754	5.07	304	96.5	17.1
Jun.	2,535	6.71	576	324	32.4
Jul.	666	0.00	151	44.5	8.5
Aug.	1,582	0.03	190	54.4	10.7
Sep.	800	3.61	181	98.7	10.2
Annual	282	23.9	140	119	_

Magnitude and probability of annual instantaneous peak flow based on 23 years of record, 1960-1982									
Discharg	je, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, i	n percent			
2	5	10	25	50	100	500			
50 %	20%	10%	4%	2%	1%	0.2%			
20,300	36,100	48,600	66,800	82,000	98,500	143,000			

Water Resources Council weighted skew = -0.026

	Duration table of daily mean flow for period of record, 1960-1982														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
2,730	1,440	430	167	90.8	59.0	28.5	15.0	8.76	5.48	3.27	1.66	0.37	0.05	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1961-1982										
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20							
(consecutive days)	50 %	20%	10%	5 %							
1	0.05	0.00	0.00	0.00							
3	0.05	0.00	0.00	0.00							
7	0.08	0.00	0.00	0.00							
10	0.12	0.00	0.00	0.00							
30	1.44	0.32	0.08	0.00							
60	4.61	0.81	0.24	0.07							

Magnitude and probability of annual low flow based on period of record, 1960-1982
spring season. April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	0.62	0.08	0.01	0.00						
3	0.74	0.15	0.05	0.01						
7	1.06	0.33	0.15	0.04						
10	1.48	0.39	0.16	0.07						
30	9.15	2.92	1.73	1.17						
60	87.8	26.6	14.0	8.11						

Magnitude and probability of annual low flow based on period of record, 1960-1981 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	0.05	0.00	0.00	0.00						
3	0.05	0.00	0.00	0.00						
7	0.08	0.00	0.00	0.00						
10	0.12	0.00	0.00	0.00						
30	2.08	0.33	0.08	0.00						
60	11.0	1.21	0.28	0.07						

Magnitude and probability of annual low flow based on period of record, 1960-1982 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50%	20%	10%	5%						
1	1.21	0.30	0.12	0.05						
3	1.44	0.47	0.24	0.13						
7	2.10	0.91	0.54	0.34						
10	2.56	1.14	0.69	0.44						
30	4.86	2.04	1.27	0.85						
60	8.49	3.73	2.33	1.54						

RED RIVER BASIN

07299670 GROESBECK CREEK AT STATE HIGHWAY 6 NEAR QUANAH, TEX.

LOCATION. – Lat 34°21′16″, long 99°44′24″, referenced to North American Datum of 1927, Hardeman County, Tex., Hydrologic Unit 11130101, near left bank at downstream side of bridge on State Highway 6, 2.0 mi downstream from confluence of North and South Groesbeck Creeks, 4.0 mi north of Quanah, and 9.0 mi upstream from mouth.

DRAINAGE AREA. - 303 mi².

PERIOD OF RECORD.-November 1961 to current year. Prior to Oct. 1974, published as "Groesbeck Creek at State Highway 283".

REMARKS.—No known regulation. There are several diversions upstream from station for farm and ranch use and for a gypsum plant. No flow at times.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent of annual runoff, based on period of record, 1962-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	393	0.68	34.6	10.7	12.0
Nov.	41.3	1.33	12.4	11.0	4.3
Dec.	43.0	1.48	10.7	8.46	3.7
Jan.	26.4	1.33	9.87	7.85	3.4
Feb.	62.0	1.35	11.4	7.33	4.0
Mar.	91.2	1.18	15.3	8.35	5.3
Apr.	271	1.12	20.8	10.8	7.2
May	163	1.74	29.6	16.3	10.3
Jun.	502	1.54	50.6	18.9	17.6
Jul.	228	0.10	21.3	10.2	7.4
Aug.	545	0.00	29.4	9.79	10.2
Sep.	286	0.39	42.5	17.4	14.7
Annual	112	2.97	23.7	19.2	-

Magnitu	Magnitude and probability of annual instantaneous peak flow based on 46 years of record, 1962-2007										
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent											
2	5	10	25	50	100	500					
50 %	20%	10%	4%	2%	1%	0.2%					
1,860	4,700	7,770	13,500	19,400	27,000	53,700					

	Duration table of daily mean flow for period of record, 1962-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70 %	80%	90%	95%	98%	99%
286	124	41.8	27.5	22.6	19.5	14.1	10.6	8.26	6.47	4.71	3.19	1.88	1.07	0.29	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1963-2007										
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20							
(consecutive days)	50 %	20%	10%	5%							
1	2.77	0.31	0.00	0.00							
3	3.20	0.49	0.00	0.00							
7	3.50	0.73	0.00	0.00							
10	3.68	0.83	0.00	0.00							
30	6.01	0.92	0.13	0.00							
60	5.18	1.58	0.70	0.30							

Magnitude and probability of annual low flow based on period of record, 196	2-2007
spring season. April 1 through May 31	

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	5.12	1.48	0.62	0.25				
3	5.43	1.75	0.86	0.44				
7	5.77	2.10	1.14	0.66				
10	6.03	2.24	1.24	0.73				
30	7.95	3.53	2.27	1.56				
60	15.1	6.49	4.20	2.94				

Magnitude and probability of annual low flow based on period of record, 1962-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	3.38	0.35	0.00	0.00			
3	3.69	0.52	0.00	0.00			
7	3.98	0.78	0.00	0.00			
10	4.19	0.88	0.00	0.00			
30	6.63	0.96	0.13	0.00			
60	6.11	1.69	0.73	0.30			

Magnitude and probability of annual low flow based on period of record, 1962-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	5.45	2.10	1.18	0.70			
3	5.89	2.34	1.33	0.80			
7	6.13	2.66	1.63	1.06			
10	6.20	2.89	1.88	1.30			
30	6.88	3.32	2.20	1.54			
60	7.22	3.48	2.32	1.63			

RED RIVER BASIN

07299890 LELIA LAKE CREEK BELOW BELL CREEK NEAR HEDLEY, TEX.

LOCATION. – Lat 34°56′08″, long 100°41′46″, referenced to North American Datum of 1927, Donley County, Tex., Hydrologic Unit 11120201, on left downstream side of bridge of FM 2471, 1.0 mi downsteam from Bell Creek, and 5.0 mi north of Hedley.

DRAINAGE AREA. - 74 mi².

PERIOD OF RECORD.-August 1997 to current year.

REMARKS.-There are several small diversions upstream from the station for farm and ranch use. No flow at times.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent of annual runoff, based on period of record, 1998-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	4.95	0.80	1.95	1.15	5.8
Nov.	6.46	1.25	2.68	1.92	8.0
Dec.	5.04	1.43	2.97	2.85	8.8
Jan.	5.70	0.98	2.90	2.86	8.6
Feb.	7.72	1.25	3.24	2.90	9.6
Mar.	13.5	0.85	5.76	3.91	17.1
Apr.	7.48	1.55	4.15	3.58	12.4
May	7.64	0.85	3.37	3.67	10.0
Jun.	9.67	0.22	3.42	1.93	10.2
Jul.	7.75	0.00	1.43	0.78	4.2
Aug.	4.39	0.20	0.94	0.49	2.8
Sep.	3.17	0.28	0.83	0.56	2.5
Annual	4.57	1.40	2.80	2.71	_

Magnitu	ıde and probabili	ty of annual insta	ntaneous peak fl	ow based on 10 y	ears of record, 1	998-2007
Discharç	ge, in ft³/s, for ind	licated recurrenc	e interval, in yea	rs, and exceeder	nce probability, in	n percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2%	1%	0.2%
274	660	1,010	1,570	2,050	2,600	4,100

	Duration table of daily mean flow for period of record, 1997-2007														
			Discha	rge, in ft	³/s, whic	h was e	qualed o	r excee	led for ir	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
17.5	10.9	7.04	4.98	4.45	3.91	3.16	2.48	1.86	1.43	1.01	0.67	0.33	0.03	0.00	0.00

Magnitude and probability of annual low flow based on period of record, 1999-2007					
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent	
Period	2	5	10	20	
(consecutive days)	50 %	20%	10%	5%	
1	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	
30	0.23	0.05	0.00	0.00	
60	0.53	0.26	0.00	0.00	

Magnitude and probability of annual low flow based on period of record, 1998-2007 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	1.22	0.54	0.34	0.23			
3	1.33	0.63	0.42	0.29			
7	1.48	0.78	0.56	0.42			
10	1.55	0.84	0.61	0.47			
30	2.64	1.54	1.11	0.83			
60	3.47	2.23	1.74	1.40			

Magnitude and probability of annual low flow based on period of record, 1998-2006 summer season, June 1 through October 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.23	0.05	0.00	0.00			
60	0.53	0.26	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1998-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	1.12	0.65	0.48	0.38			
3	1.24	0.74	0.56	0.45			
7	1.34	0.81	0.62	0.49			
10	1.42	0.85	0.64	0.50			
30	1.74	1.06	0.81	0.64			
60	2.09	1.39	1.13	0.95			

RED RIVER BASIN

07300000 SALT FORK RED RIVER NEAR WELLINGTON, TEX.

LOCATION. – Lat 34°57′27″, long 100°13′14″, referenced to North American Datum of 1927, Collingsworth County, Tex., Hydrologic Unit 11120202, near center of stream at downstream side of bridge on U.S. Highway 83, 4.0 mi downstream from Fort Worth and Denver (Burlington) Railway Co. bridge, 4.5 mi south of Lutie, and 7.2 mi north of Wellington.

DRAINAGE AREA. – 1,222 mi², of which 209 mi² is probably noncontributing.

PERIOD OF RECORD.-June 1952 to current year.

REMARKS.—Since water year 1967, at least 10% of contributing drainage area has been regulated. There are several small diversions upstream from gage for irrigation.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1953-1966

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	521	4.06	68.0	24.1	7.8
Nov.	53.7	2.33	23.4	18.9	2.7
Dec.	82.9	3.26	29.6	23.1	3.4
Jan.	97.9	5.38	32.8	28.4	3.8
Feb.	85.8	12.7	35.3	25.1	4.1
Mar.	94.3	5.27	28.0	20.9	3.2
Apr.	412	4.18	53.3	17.9	6.1
May	1,181	7.85	228	50.2	26.3
Jun.	642	1.76	201	106	23.1
Jul.	482	3.36	96.2	22.1	11.1
Aug.	189	1.34	40.8	24.9	4.7
Sep.	104	1.48	31.2	21.0	3.6
Annual	160	23.8	72.6	64.7	_

Magnitu	de and probabili	ty of annual insta	antaneous peak fl	ow based on 14 y	ears of record, 1	953-1966			
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500			
50 %	20%	10%	4%	2%	1%	0.2%			
21,700	50,000	77,700	124,000	169,000	222,000	389,000			

	Duration table of daily mean flow for period of record, 1952-1966														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
1,040	544	171	83.7	56.3	42.3	27.2	19.4	13.0	8.00	6.00	4.00	2.00	1.00	1.00	0.00

Magnitude	and probability of annual le	ow flow based on period of r	ecord, 1954-1966							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5 %						
1	1.16	0.59	0.40	0.27						
3	1.51	0.94	0.72	0.57						
7	2.01	1.33	1.06	0.86						
10	2.28	1.47	1.14	0.90						
30	3.56	2.10	1.57	1.23						
60	6.91	3.28	2.25	1.66						

Magnitude and probability of annual low flow based on period of record, 1953-1966
spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	2.50	1.59	1.22	0.96						
3	3.03	2.41	2.15	1.96						
7	3.83	3.04	2.73	2.52						
10	4.46	3.31	2.90	2.64						
30	8.75	4.74	4.03	3.72						
60	54.7	17.9	10.4	6.81						

Magnitude and probability of annual low flow based on period of record, 1953-1965 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	1.26	0.62	0.40	0.27					
3	1.55	0.94	0.71	0.56					
7	2.05	1.34	1.05	0.85					
10	2.34	1.48	1.13	0.89					
30	3.52	1.96	1.52	1.27					
60	9.15	4.03	2.58	1.76					

Magnitude and probability of annual low flow based on period of record, 1953-1966 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	3.72	1.86	1.29	0.96						
3	4.59	2.66	2.03	1.64						
7	6.44	3.76	2.82	2.21						
10	7.22	4.14	3.05	2.34						
30	11.3	5.88	4.07	2.97						
60	18.2	8.89	5.79	3.95						

RED RIVER BASIN

07300000 SALT FORK RED RIVER NEAR WELLINGTON, TEX.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1968-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	279	3.81	31.7	16.2	5.1
Nov.	213	5.85	29.8	19.4	4.8
Dec.	92.4	3.59	28.6	21.6	4.6
Jan.	86.0	10.5	33.9	27.8	5.5
Feb.	117	12.1	40.9	35.4	6.6
Mar.	165	8.15	50.6	37.9	8.1
Apr.	1,218	6.10	87.2	36.6	14.0
May	468	2.61	103	63.0	16.6
Jun.	1,006	5.62	131	63.0	21.1
Jul.	155	2.65	28.8	10.6	4.6
Aug.	301	1.68	25.3	10.3	4.1
Sep.	123	2.22	30.3	22.4	4.9
Annual	165	10.5	51.7	47.5	_

Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceede	nce probability, i	n percent
2	5	10	25	50	100	500
15%	5%	10%	4%	2%	1%	0.2%
5,150	15.800	29.300	58.500	92.800	142.000	34

station skew = 0.297

	Duration table of daily mean flow for period of record, 1968-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
546	334	140	75.5	55.0	43.3	30.1	23.1	18.0	13.9	10.3	6.91	4.08	2.87	1.98	1.60

Magnitude	Magnitude and probability of annual low flow based on period of record, 1969-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
consecutive days)	50 %	20%	10%	5 %						
1	1.90	1.06	0.78	0.60						
3	2.08	1.18	0.87	0.67						
7	2.41	1.43	1.09	0.87						
10	2.75	1.66	1.28	1.03						
30	4.20	2.59	2.02	1.64						
60	6.60	3.58	2.67	2.12						

Magnitude and probability of annual low flow based on period of record, 1968-2007
spring season. April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent				
Period (consecutive days)	2 50%	5 20%	10 10%	20 5%	
					1
3	8.24	3.85	2.40	1.56	
7	9.27	4.70	3.18	2.26	
10	9.91	5.32	3.86	2.96	
30	20.0	9.78	6.80	5.07	
60	59.2	26.1	17.0	11.9	

Magnitude and probability of annual low flow based on period of record, 1968-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent				
Period (consecutive days)	2 50%	5 20%	10 10%	20 5%	
					1
3	2.15	1.28	0.98	0.79	
7	2.60	1.60	1.24	1.01	
10	2.94	1.82	1.41	1.14	
30	4.21	2.60	2.04	1.68	
60	6.67	3.58	2.67	2.12	

Magnitude and probability of annual low flow based on period of record, 1968-2007 winter season, November 1 through March 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent				
Period (consecutive days)	2 50%	5 20%	10 10%	20 5%	
					1
3	10.2	5.94	4.28	3.18	
7	11.4	6.56	4.71	3.50	
10	11.8	6.86	5.01	3.81	
30	16.0	9.85	7.58	6.07	
60	20.1	12.9	10.3	8.65	

07300500 SALT FORK RED RIVER AT MANGUM, OKLA.

LOCATION. – Lat 34°51′30″, long 99°30′30″, referenced to North American Datum of 1927, in SE ¼ SW ¼ SE ¼ sec. 34, T.5 N., R.22 W., Greer County, Okla., Hydrologic Unit 11120202, near left bank on downstream side of pier of bridge on State Highway 34, 0.5 mi south of Mangum, 13.0 mi downstream from Fish Creek, and at mile 35.5.

DRAINAGE AREA. – 1,566 mi², of which 209 mi² is probably noncontributing.

PERIOD OF RECORD.—April 1905 to June 1906, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1311.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1938-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	920	0.00	72.0	16.1	7.1
Nov.	196	0.00	32.4	20.9	3.2
Dec.	148	0.00	38.1	28.4	3.8
Jan.	199	0.00	47.1	37.3	4.6
Feb.	263	0.00	55.9	40.8	5.5
Mar.	344	0.12	57.8	38.4	5.7
Apr.	1,292	0.00	101	55.1	10.0
May	1,389	0.00	243	105	24.0
Jun.	1,602	0.00	219	99.5	21.6
Jul.	575	0.00	60.9	20.9	6.0
Aug.	539	0.00	36.9	8.26	3.6
Sep.	424	0.00	48.0	16.4	4.7
Annual	277	12.3	84.4	71.2	_

Magnitu	Magnitude and probability of annual instantaneous peak flow based on 70 years of record, 1938-2007							
Dischar	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent							
2	5	10	25	50	100	500		
50 %	20%	10%	4%	2%	1%	0.2%		
9,770	22,300	33,800	52,200	68,500	87,200	140,000		

Oklahoma weighted skew = -0.168

				Duratio	on table	of daily r	nean flo	w for pe	riod of re	cord, 19	38-2007				
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
1,300	642	251	129	91.1	68.8	43.2	28.8	19.2	10.9	3.43	0.00	0.00	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1939-2007						
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent					
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.00	0.00	0.00	0.00			
60	1.46	0.00	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1938-2007
spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	1.36	0.00	0.00	0.00				
3	1.55	0.00	0.00	0.00				
7	2.20	0.00	0.00	0.00				
10	3.84	0.00	0.00	0.00				
30	25.4	7.02	1.97	0.00				
60	97.0	37.8	22.6	14.4				

Magnitude and probability of annual low flow based on period of record, 1938-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in per					
Period	2	5	10	20		
(consecutive days)	50 %	20%	10%	5%		
1	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00		
30	0.00	0.00	0.00	0.00		
60	2.05	0.04	0.00	0.00		

Magnitude and probability of annual low flow based on period of record, 1938-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	2.88	0.00	0.00	0.00			
3	4.04	0.00	0.00	0.00			
7	5.47	0.00	0.00	0.00			
10	6.53	0.00	0.00	0.00			
30	13.4	1.98	0.00	0.00			
60	25.4	5.80	1.00	0.00			

07301110 SALT FORK RED RIVER NEAR ELMER, OKLA.

LOCATION. – Lat 34°28′44″, long 99°22′55″, referenced to North American Datum of 1927, in NE ¼ NW ¼ NE ¼ sec. 15, T.1 S., R.21 W., Jackson County, Okla., Hydrologic Unit 11120202, on right bank at bridge on paved county road, formerly State Highway 5, 1.7 mi west of Elmer, and at mile 3.5.

DRAINAGE AREA. - 1,878 mi², of which 209 mi² is probably noncontributing.

PERIOD OF RECORD.-October 1979 to current year.

REMARKS.-Low flows sustained at times by irrigation returns from Lake Altus.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1980-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,828	3.79	204	61.6	7.6
Nov.	680	4.72	127	66.3	4.7
Dec.	701	11.3	115	62.0	4.3
Jan.	362	13.3	113	85.6	4.2
Feb.	697	13.7	149	88.2	5.5
Mar.	1,100	21.1	192	132	7.1
Apr.	2,108	13.9	238	125	8.8
May	2,566	7.51	466	256	17.3
Jun.	2,836	17.9	529	238	19.6
Jul.	641	9.25	159	115	5.9
Aug.	1,681	4.19	228	100	8.5
Sep.	950	7.90	176	59.7	6.5
Annual	594	34.5	225	184	_

Magnitude and probability of annual instantaneous peak flow based on 28 years of record, 1980-2007								
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500		
50 %	20%	10%	4%	2%	1%	0.2%		
6,310	14,300	22,600	37,300	52,100	70,900	135,000		

Oklahoma weighted skew = 0.271

	Duration table of daily mean flow for period of record, 1980-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
3,030	1,740	754	388	259	198	132	97.9	74.4	57.4	42.1	26.8	13.9	8.10	4.95	3.20

Magnitude and probability of annual low flow based on period of record, 1981-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20 5%					
(consecutive days)	50%	20%	10%						
1	11.4	3.50	1.47	0.64					
3	12.7	4.03	1.69	0.73					
7	14.3	4.68	2.04	0.91					
10	15.1	5.37	2.59	1.30					
30	20.5	8.18	4.81	3.03					
60	31.4	13.3	8.07	5.22					

Magnitude and probability of annual low flow based on period of record, 1980-2007 spring season, April 1 through May 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50%	20%	10%	5%					
1	26.1	9.86	5.77	3.65					
3	28.3	10.9	6.42	4.10					
7	32.7	12.5	7.48	4.89					
10	37.1	14.2	8.50	5.53					
30	85.3	32.3	19.0	12.2					
60	220	92.6	58.4	39.7					

Magnitude and probability of annual low flow based on period of record, 1980-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	12.3	3.50	1.47	0.64					
3	13.8	4.03	1.69	0.73					
7	15.5	4.68	2.04	0.91					
10	16.2	5.37	2.59	1.30					
30	23.1	8.54	4.92	3.06					
60	44.4	18.9	12.3	8.72					

Magnitude and probability of annual low flow based on period of record, 1980-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	23.1	9.30	5.66	3.71				
3	24.6	10.2	6.33	4.24				
7	28.0	11.6	7.17	4.76				
10	29.4	12.1	7.46	4.94				
30	41.3	17.0	10.4	6.82				
60	53.0	24.4	16.3	11.8				

07301300 NORTH FORK RED RIVER NEAR SHAMROCK, TEX.

LOCATION. – Lat 35°15′51″, long 100°14′29″, referenced to North American Datum of 1927, Wheeler County, Tex., Hydrologic Unit 11120302, on left bank at downstream side of bridge on U.S. Highway 83, 2.5 mi north of Shamrock.

DRAINAGE AREA. – 1,082 mi², of which 379 mi² is probably noncontributing.

PERIOD OF RECORD.-February 1964 to September 1991, October 2000 to current year.

REMARKS.—Since installation of gage in Oct. 1951, at least 10% of contributing drainage area has been regulated. Flow is partially regulated by McClellan Reservoir (1938). Flow is also affected at times by discharge from flood-detention pools of eleven floodwater retarding structures with combined detention capacity of 18,290 acre-feet. These structures control runoff from 165 mi². No flow at times.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1965-1979

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	60.2	0.00	12.7	13.4	3.2
Nov.	75.2	0.00	19.6	21.3	4.9
Dec.	33.0	0.00	26.5	16.8	6.6
Jan.	29.5	0.00	63.3	23.6	15.8
Feb.	47.9	6.35	108	47.0	27.0
Mar.	84.6	0.06	88.2	9.66	22.0
Apr.	252	0.00	15.2	0.16	3.8
May	609	1.57	9.47	4.24	2.4
Jun.	369	0.00	17.0	6.42	4.2
Jul.	73.6	0.00	13.9	6.64	3.5
Aug.	55.5	0.00	14.2	5.12	3.5
Sep.	60.9	0.00	13.0	13.6	3.2
Annual	91.7	3.68	33.4	31.6	_

Magn	Magnitude and probability of annual instantaneous peak flow based on 15 years of record, 1965-1979									
Disch	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500				
50 %	20%	10%	4%	2%	1%	0.2%				
6,460	10,100	12,700	16,200	19,000	21,900	29,200				

Oklahoma weighted skew = -0.024

	Duration table of daily mean flow for period of record, 1964-1979														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
712	327	100	45.8	28.6	19.8	9.49	3.38	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1966-1979									
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20 5%						
(consecutive days)	50 %	20%	10%							
1	0.00	0.00	0.00	0.00						
3	0.00	0.00	0.00	0.00						
7	0.00	0.00	0.00	0.00						
10	0.00	0.00	0.00	0.00						
30	0.00	0.00	0.00	0.00						
60	0.00	0.00	0.00	0.00						

Magnitude and probability of annual low flow based on period of record, 1965-1979 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	4.87	1.37	0.67	0.00					
60	51.9	12.0	4.70	1.96					

Magnitude and probability of annual low flow based on period of record, 1965-1978 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.00	0.00	0.00	0.00					
60	0.01	0.00	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1965-1979 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5 %			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.02	0.00	0.00	0.00			
30	1.31	0.04	0.00	0.00			
60	7.71	1.29	0.14	0.00			

07301300 NORTH FORK RED RIVER NEAR SHAMROCK, TEX.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1982-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	155	0.00	21.7	5.29	5.3
Nov.	74.2	0.00	17.3	10.8	4.2
Dec.	124	0.00	31.9	24.3	7.8
Jan.	158	7.94	44.5	36.7	10.9
Feb.	97.1	13.6	46.9	44.9	11.5
Mar.	131	9.22	55.7	47.0	13.6
Apr.	83.5	1.48	32.0	32.5	7.8
May	211	0.36	63.3	55.4	15.5
Jun.	342	3.47	66.7	30.8	16.3
Jul.	38.3	0.00	9.23	6.65	2.3
Aug.	48.8	0.00	6.45	0.91	1.6
Sep.	54.3	0.00	13.2	1.06	3.2
Annual	58.8	10.5	34.0	36.0	_

Magnitu	de and probabili	ty of annual insta	antaneous peak fl	low based on 26 y	ears of record, 1	982-2007		
Discharg	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent							
2	5	10	25	50	100	500		
15%	5%	10%	4%	2%	1%	0.2%		
2,590	5,520	8,530	14,000	19,700	27,000	53,100		

station skew = 0.495

				Duratio	on table	of daily ı	nean flo	w for pe	riod of re	cord, 19	82-2007				
			Discha	rge, in ft	³/s, whic	h was e	qualed o	r excee	ded for ir	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30 %	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
711	326	100	45.7	28.6	19.8	9.59	3.44	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Magnitude and probability of annual low flow based on period of record, 1983-2007								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.00	0.00	0.00	0.00				
3	0.00	0.00	0.00	0.00				
7	0.00	0.00	0.00	0.00				
10	0.00	0.00	0.00	0.00				
30	0.00	0.00	0.00	0.00				
60	0.12	0.00	0.00	0.00				

Magnitude and probability of annual low flow based on period of record, 1982-2007
spring season. April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50%	20%	10%	5%				
1	0.05	0.00	0.00	0.00				
3	0.09	0.00	0.00	0.00				
7	0.25	0.00	0.00	0.00				
10	0.31	0.01	0.00	0.00				
30	5.04	1.57	0.88	0.55				
60	40.6	26.4	21.2	17.8				

Magnitude and probability of annual low flow based on period of record, 1982-2006 summer season, June 1 through October 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.00	0.00	0.00	0.00				
3	0.00	0.00	0.00	0.00				
7	0.00	0.00	0.00	0.00				
10	0.00	0.00	0.00	0.00				
30	0.00	0.00	0.00	0.00				
60	0.12	0.00	0.00	0.00				

Magnitude and probability of annual low flow based on period of record, 1982-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.26	0.00	0.00	0.00				
3	0.61	0.00	0.00	0.00				
7	2.01	0.00	0.00	0.00				
10	2.77	0.00	0.00	0.00				
30	6.10	0.31	0.04	0.00				
60	17.2	4.17	1.51	0.56				

07301410 SWEETWATER CREEK NEAR KELTON, TEX.

LOCATION. – Lat 35°28′23″, long 100°07′14″, referenced to North American Datum of 1927, Wheeler County, Tex., Hydrologic Unit 11120302, near center of stream at downstream side of bridge on Farm Road 592, 5.0 mi north of Kelton, 8.0 mi upstream from Texas-Oklahoma State line, and 8.5 mi northeast of Wheeler.

DRAINAGE AREA. - 287 mi², of which 20 mi² is probably noncontributing.

PERIOD OF RECORD.-November 1961 to current year.

REMARKS.—No known regulation. There are many small diversions upstream from the station for ranch use. Peak flows and runoff have been slightly affected by irrigation activities since 1978 (Esralew and Smith, 2009).

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1962-1977

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	39.4	0.73	8.90	3.78	5.0
Nov.	34.5	3.95	11.9	10.4	6.7
Dec.	18.9	6.23	12.5	12.4	7.0
Jan.	18.2	7.82	12.8	12.8	7.2
Feb.	24.4	10.1	15.5	14.7	8.7
Mar.	32.2	9.09	17.4	16.6	9.8
Apr.	74.6	8.72	24.2	17.4	13.6
May	196	3.38	28.6	15.9	16.1
Jun.	86.3	2.80	24.4	14.4	13.7
Jul.	32.3	0.44	6.13	4.03	3.4
Aug.	42.7	0.00	7.94	1.61	4.5
Sep.	30.3	0.05	7.66	4.13	4.3
Annual	26.8	6.92	14.4	12.9	_

Magnitu	ıde and probabili	ty of annual insta	ıntaneous peak fl	ow based on 16	years of record, 1	962-1977	
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent							
2	5	10	25	50	100	500	
50 %	20%	10%	4%	2%	1%	0.2%	
816	1,360	1,760	2,320	2,770	3,240	4,420	

Oklahoma weighted skew = -0.094

	Duration table of daily mean flow for period of record, 1962-1977														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
129	68.2	32.8	23.3	20.3	17.4	15.0	12.8	10.6	8.32	5.48	2.83	0.99	0.32	0.09	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1963-1977								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.12	0.00	0.00	0.00					
3	0.14	0.00	0.00	0.00					
7	0.17	0.04	0.00	0.00					
10	0.20	0.04	0.00	0.00					
30	0.62	0.18	0.07	0.00					
60	1.60	0.38	0.14	0.06					

Magnitude and probability of annual low flow based on period of record, 1962-1977 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	6.33	3.02	1.90	1.24					
3	6.75	3.28	2.08	1.36					
7	7.33	3.74	2.47	1.69					
10	7.98	4.23	2.87	2.03					
30	12.8	7.78	5.76	4.40					
60	18.4	11.1	8.96	7.68					

Magnitude and probability of annual low flow based on period of record, 1962-1976 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.12	0.00	0.00	0.00					
3	0.14	0.00	0.00	0.00					
7	0.17	0.04	0.00	0.00					
10	0.20	0.04	0.00	0.00					
30	0.62	0.18	0.07	0.00					
60	1.60	0.38	0.14	0.06					

Magnitude and probability of annual low flow based on period of record, 1962-1977 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	5.88	3.16	2.03	1.32					
3	6.42	3.48	2.26	1.49					
7	7.09	4.56	3.46	2.69					
10	7.41	4.76	3.61	2.80					
30	9.40	6.59	5.27	4.30					
60	10.7	7.80	6.45	5.44					

07301410 SWEETWATER CREEK NEAR KELTON, TEX.—Continued

UNREGULATED IRRIGATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1978-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	42.1	0.30	7.72	4.50	5.0
Nov.	31.8	1.05	9.25	8.79	6.0
Dec.	27.1	3.11	11.6	11.4	7.5
Jan.	27.6	5.78	13.5	13.2	8.7
Feb.	30.5	6.83	16.0	15.6	10.4
Mar.	42.2	9.23	19.0	17.3	12.3
Apr.	100	8.65	20.1	15.3	13.1
May	104	5.76	22.6	19.2	14.6
Jun.	83.7	3.17	19.5	12.4	12.7
Jul.	24.7	0.50	5.33	3.30	3.5
Aug.	22.0	0.06	3.26	1.57	2.1
Sep.	40.9	0.03	6.30	1.13	4.1
Annual	33.5	4.89	12.8	12.2	_

Magnitu	Magnitude and probability of annual instantaneous peak flow based on 30 years of record, 1978-2007								
Discharg	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500			
15%	5 %	10%	4%	2 %	1%	0.2%			
260	596	902	1,390	1,820	2,320	3,710			

station skew = -0.179

	Duration table of daily mean flow for period of record, 1978-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
80.5	53.2	32.5	24.4	20.5	18.1	14.9	12.2	9.75	7.59	4.92	2.16	0.74	0.38	0.16	0.09

Magnitude	Magnitude and probability of annual low flow based on period of record, 1979-2007								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.29	0.05	0.01	0.00					
3	0.30	0.06	0.02	0.00					
7	0.37	0.10	0.04	0.02					
10	0.40	0.12	0.06	0.03					
30	0.65	0.20	0.10	0.06					
60	1.04	0.37	0.22	0.14					

Magnitude and probability of annual low flow based on period of record, 1976	B- 2007
spring season, April 1 through May 31	

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50%	20%	10%	5%					
1	7.55	4.88	3.82	3.10					
3	7.82	5.11	4.10	3.41					
7	8.21	5.54	4.63	4.05					
10	8.70	5.95	5.03	4.45					
30	11.5	8.32	7.46	7.00					
60	16.5	12.1	10.9	10.2					

Magnitude and probability of annual low flow based on period of record, 1978-2006 summer season, June 1 through October 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.29	0.05	0.01	0.00					
3	0.30	0.06	0.02	0.00					
7	0.37	0.10	0.04	0.02					
10	0.40	0.12	0.06	0.03					
30	0.65	0.20	0.10	0.06					
60	1.04	0.37	0.22	0.14					

Magnitude and probability of annual low flow based on period of record, 1978-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
consecutive days)	50 %	20%	10%	5%						
1	4.55	1.56	0.80	0.43						
3	4.83	1.84	1.02	0.60						
7	5.30	2.22	1.32	0.82						
10	5.53	2.37	1.43	0.91						
30	7.16	3.48	2.25	1.52						
60	8.91	5.33	3.98	3.09						

07301420 SWEETWATER CREEK NEAR SWEETWATER, OKLA.

LOCATION. – Lat 35°25′20″, long 99°58′08″, referenced to North American Datum of 1927, in NW ¼ NE ¼ sec. 20, T.11 N., R.26 W., Roger Mills County, Okla., Hydrologic Unit 11120302, on right bank downstream bridge piling of State Highway 152, 0.4 mi downstream from Freezeout Creek, 3.3 mi west of Sweetwater, and at mile 16.0.

DRAINAGE AREA. – 424 mi², of which 20 mi² is probably noncontributing.

PERIOD OF RECORD.-April 1986 to current year.

REMARKS.-Peak flows and runoff have been slightly affected by upstream irrigation activities since 1978 (Esralew and Smith, 2009).

UNREGULATED IRRIGATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent of annual runoff, based on period of record, 1987-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	72.2	0.20	15.9	9.00	5.4
Nov.	61.1	4.42	20.4	16.1	7.0
Dec.	51.5	6.73	23.9	22.6	8.2
Jan.	53.7	11.2	27.5	27.8	9.4
Feb.	53.6	12.8	29.1	28.7	10.0
Mar.	85.6	17.9	36.8	31.7	12.6
Apr.	126	11.2	35.6	29.0	12.2
May	150	9.99	39.8	30.7	13.6
Jun.	115	2.97	34.5	27.1	11.8
Jul.	31.6	0.59	11.4	9.18	3.9
Aug.	38.7	0.08	6.69	3.23	2.3
Sep.	51.6	0.08	10.0	3.42	3.4
Annual	53.0	8.15	24.2	23.8	_

Magnitu	Magnitude and probability of annual instantaneous peak flow based on 22 years of record, 1986-2007 Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent											
Discharç												
2	5	10	25	50	100	500						
50 %	20%	10%	4%	2%	1%	0.2%						
211	475	760	1,300	1,870	2,630	5,470						

station skew = 0.501

	Duration table of daily mean flow for period of record, 1986-2007														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70 %	80%	90%	95%	98%	99%
145	103	66.4	48.0	39.8	34.3	28.2	23.2	19.5	15.5	10.9	5.42	1.74	0.70	0.28	0.15

Magnitude	Magnitude and probability of annual low flow based on period of record, 1988-2007										
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent										
Period	2	5	10	20							
consecutive days)	50 %	20%	10%	5%							
1	0.64	0.19	0.10	0.00							
3	0.66	0.19	0.10	0.00							
7	0.90	0.20	0.12	0.02							
10	0.81	0.20	0.15	0.05							
30	1.28	0.36	0.18	0.10							
60	2.84	0.81	0.39	0.20							

Magnitude and probability of annual low flow based on period of record, 1987-2007
spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	14.5	8.09	5.61	4.01						
3	15.0	8.66	6.21	4.60						
7	15.7	9.29	7.01	5.53						
10	16.6	10.1	7.79	6.30						
30	22.1	14.7	12.4	11.0						
60	29.2	19.9	17.0	15.2						

Magnitude and probability of annual low flow based on period of record, 1987-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5 %						
1	0.64	0.19	0.10	0.00						
3	0.66	0.19	0.10	0.00						
7	0.90	0.20	0.12	0.02						
10	0.81	0.20	0.15	0.05						
30	1.28	0.36	0.18	0.10						
60	2.84	0.81	0.39	0.20						

Magnitude and probability of annual low flow based on period of record, 1987-2007 winter season, November 1 through March 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	5 10							
(consecutive days)	50 %	20%	10%	5%						
1	11.1	4.15	2.10	1.10						
3	11.1	4.83	2.87	1.78						
7	12.0	6.12	4.12	2.91						
10	12.5	6.51	4.44	3.17						
30	16.0	9.06	6.46	4.78						
60	19.3	12.0	9.09	7.10						

07301500 NORTH FORK RED RIVER NEAR CARTER, OKLA.

LOCATION. – Lat 35°10′05″, long 99°30′25″, referenced to North American Datum of 1927, in NW ¼ SE ¼ sec. 15, T.8 N., R.22 W., Beckham County, Okla., Hydrologic Unit 11120302, on left bank on downstream side of roadway on State Highway 34, 3.0 mi south of Carter, 10.8 mi downstream from Timber Creek, and at mile 110.5.

DRAINAGE AREA. – 2,337 mi², of which 399 mi² is probably noncontributing.

PERIOD OF RECORD.-October 1944 to September 1962, August 1964 to current year.

REMARKS.–Statistical analysis includes streamflow record from nearby station North Fork Red River near Granite, Okla. (07302000), October 1903 to March 1908, October 1937 to September 1944. Some regulation by floodwater retarding structures since 1987.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent of annual runoff, based on period of record, 1904-1962

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	796	0.00	77.5	54.9	4.2
Nov.	381	0.00	89.6	56.4	4.8
Dec.	468	0.00	78.1	47.8	4.2
Jan.	319	0.00	161	108	8.7
Feb.	365	0.00	496	227	26.6
Mar.	309	0.00	412	265	22.2
Apr.	1,027	0.00	122	69.0	6.5
May	1,639	0.27	80.9	35.7	4.3
Jun.	1,287	1.16	64.4	7.61	3.5
Jul.	828	0.00	142	3.68	7.6
Aug.	431	0.00	64.4	9.99	3.5
Sep.	497	0.00	72.3	14.0	3.9
Annual	355	6.30	154	162	-

Magnitude and probability of annual instantaneous peak flow based on 59 historic years of record, 1904-1962 Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent											
50 %	20%	10%	4%	2%	1%	0.2%					
8,410	14,800	19,600	26,400	31,900	37,600	52,300					

Oklahoma weighted skew = -0.151

	Duration table of daily mean flow for period of record, 1904-1962														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
2,510	1,380	516	243	164	117	66.4	34.7	17.0	4.70	0.05	0.03	0.02	0.01	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1905-1962							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.00	0.00	0.00	0.00				
3	0.00	0.00	0.00	0.00				
7	0.00	0.00	0.00	0.00				
10	0.00	0.00	0.00	0.00				
30	0.00	0.00	0.00	0.00				
60	0.39	0.00	0.00	0.00				

Magnitude and probability of annual low flow based on period of record, 1904-1962
spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50%	20%	10%	5%			
1	3.05	0.00	0.00	0.00			
3	4.34	0.00	0.00	0.00			
7	6.86	0.00	0.00	0.00			
10	11.3	0.00	0.00	0.00			
30	48.2	5.31	0.96	0.08			
60	222	74.3	38.8	21.7			

Magnitude and probability of annual low flow based on period of record, 1904-1961 summer season, June 1 through October 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.00	0.00	0.00	0.00			
60	1.42	0.00	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1904-1962 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.09	0.00	0.00	0.00			
7	0.99	0.00	0.00	0.00			
10	2.18	0.00	0.00	0.00			
30	4.76	0.00	0.00	0.00			
60	11.8	0.00	0.00	0.00			

07301500 NORTH FORK RED RIVER NEAR CARTER, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1987-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,195	1.46	106	34.3	5.9
Nov.	360	4.65	98.3	74.6	5.4
Dec.	333	11.5	111	96.2	6.1
Jan.	362	20.6	123	116	6.8
Feb.	331	22.7	140	119	7.7
Mar.	466	61.3	195	182	10.7
Apr.	1,253	37.7	220	176	12.1
May	917	47.3	326	140	18.0
Jun.	1,560	16.1	281	149	15.5
Jul.	174	0.41	68.0	72.8	3.8
Aug.	560	0.01	65.3	21.7	3.6
Sep.	432	0.00	81.5	23.6	4.5
Annual	356	36.5	151	133	_

Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500		
15%	5%	10%	4%	2%	1%	0.2%		

station skew = -0.216

	Duration table of daily mean flow for period of record, 1987-2007														
			Discha	rge, in ft	3/s, whic	h was e	qualed o	r excee	led for ir	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
1,410	790	425	282	229	185	142	108	82.2	60.0	38.8	18.7	4.00	0.00	0.00	0.00

Magnitude and probability of annual low flow based on period of record, 1988-2007							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.40	0.00	0.00	0.00			
3	0.70	0.00	0.00	0.00			
7	1.15	0.00	0.00	0.00			
10	1.40	0.00	0.00	0.00			
30	2.73	0.00	0.00	0.00			
60	7.05	0.65	0.14	0.03			

Magnitude and probability of annual low flow based on period of record, 1987-2007
spring season. April 1 through May 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	49.7	19.6	11.3	6.86			
3	53.0	21.1	12.2	7.50			
7	59.6	25.6	15.8	10.4			
10	63.2	29.6	19.8	14.1			
30	97.6	52.0	39.4	32.2			
60	179	92.2	67.4	52.9			

Magnitude and probability of annual low flow based on period of record, 1987-2006 summer season, June 1 through October 31

	·						
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5 %			
1	0.40	0.00	0.00	0.00			
3	0.70	0.00	0.00	0.00			
7	1.15	0.00	0.00	0.00			
10	1.40	0.00	0.00	0.00			
30	2.73	0.00	0.00	0.00			
60	7.46	0.65	0.14	0.03			

Magnitude and probability of annual low flow based on period of record, 1987-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period (consecutive days)	2	5	10	20			
	50 %	20%	10%	5%			
1	30.4	9.16	4.36	2.21			
3	32.1	9.89	4.80	2.49			
7	35.8	11.7	5.98	3.28			
10	37.7	12.5	6.51	3.63			
30	58.2	23.3	13.2	7.96			
60	74.6	37.0	24.8	17.5			

07303000 NORTH FORK RED RIVER BELOW ALTUS DAM NEAR LUGERT, OKLA.

LOCATION. – Lat 34°53′22″, long 99°18′24″, referenced to North American Datum of 1927, in SW ¼ sec. 22, T.5 N., R.20 W., Greer County, Okla., Hydrologic Unit 11120302, on right bank at State Highway 44A bridge, 3, 500 ft downstream from Altus Dam, 1.9 mi upstream from Elm Fork of North Fork, 2.0 mi west of Lugert, and at mile 72.8.

DRAINAGE AREA. – 2,515 mi², of which 399 mi² is probably noncontributing.

PERIOD OF RECORD.—March 1930 to December 1932 (published as "at Lugert Dam"), December 1943 to September 1950 (published as spill from Lake Altus), October 1950 to September 1962, August 1964 to current year. Monthly discharge only for some periods, published in WSP 1311.

REMARKS.—Some regulation at low flow by Lugert Lake prior to December 1943, capacity 13,500 acre-ft and completely regulated thereafter by Lake Altus (station 07302500). Diversions at Lake Altus bypass most of streamflow. Seepage from Altus Dam not included for period February 1953 to September 1977.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1978-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	101	0.00	5.29	0.42	0.8
Nov.	698	0.00	33.8	0.60	4.9
Dec.	389	0.00	32.2	0.64	4.7
Jan.	324	0.01	32.4	0.80	4.7
Feb.	477	0.06	52.9	0.96	7.7
Mar.	803	0.00	81.9	0.78	11.8
Apr.	1,828	0.00	103	0.63	14.9
May	1,049	0.00	158	1.56	22.8
Jun.	1,109	0.00	157	1.31	22.7
Jul.	178	0.00	15.2	0.63	2.2
Aug.	550	0.00	18.9	0.35	2.7
Sep.	2.58	0.00	0.62	0.35	0.1
Annual	379	0.02	57.4	3.14	_

Magnitu	ıde and probabili	ty of annual insta	antaneous peak fl	ow based on 57 y	ears of record, 1	951-2007
Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, in	n percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2%	1%	0.2%
193	2,500	6,900	16,500	26,000	36,800	63,300

station skew = -1.027

	Duration table of daily mean flow for period of record, 1978-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
1,090	691	318	86.1	5.37	2.57	1.50	0.91	0.53	0.26	0.15	0.04	0.00	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1979-2007						
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent			
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.05	0.00	0.00	0.00			
60	0.11	0.00	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1978-2007
spring season. April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period (consecutive days)	2	5	10	20			
	50 %	20%	10%	5%			
1	0.14	0.00	0.00	0.00			
3	0.16	0.00	0.00	0.00			
7	0.17	0.00	0.00	0.00			
10	0.18	0.00	0.00	0.00			
30	0.47	0.02	0.00	0.00			
60	3.09	0.10	0.01	0.00			

Magnitude and probability of annual low flow based on period of record, 1978-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period (consecutive days)	2	5	10	20			
	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.05	0.00	0.00	0.00			
60	0.12	0.00	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1978-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period (consecutive days)	2	5	10	20			
	50 %	20%	10%	5 %			
1	0.16	0.00	0.00	0.00			
3	0.16	0.00	0.00	0.00			
7	0.19	0.00	0.00	0.00			
10	0.19	0.02	0.00	0.00			
30	0.32	0.03	0.00	0.00			
60	0.42	0.07	0.03	0.00			

07303400 ELM FORK OF NORTH FORK RED RIVER NEAR CARL, OKLA.

LOCATION. – Lat 35°00′42″, long 99°54′12″, referenced to North American Datum of 1927, Harmon County, Okla., Hydrologic Unit 11120304, on downstream side of pier of bridge on State Highway 30, 4.0 mi northeast of Carl, and at mile 54.0.

DRAINAGE AREA. – 416 mi².

PERIOD OF RECORD.-October 1959 to September 1979, October 1994 to current year.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1960-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	208	2.61	34.0	19.2	6.7
Nov.	91.0	5.97	27.2	19.9	5.4
Dec.	54.9	7.95	21.9	17.6	4.3
Jan.	61.4	10.0	21.4	17.7	4.2
Feb.	64.7	8.85	24.2	19.4	4.8
Mar.	127	7.29	33.5	22.7	6.6
Apr.	351	5.77	57.2	37.0	11.3
May	662	7.17	87.3	40.8	17.3
Jun.	844	2.67	92.9	60.3	18.4
Jul.	134	0.30	25.2	16.8	5.0
Aug.	171	0.48	33.4	20.6	6.6
Sep.	224	0.98	46.5	26.0	9.2
Annual	107	8.09	42.0	42.0	_

Magnitu	ıde and probabili	ty of annual insta	ntaneous peak fl	ow based on 33 y	ears of record, 1	960-2007
Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	ice probability, i	n percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2 %	1%	0.2%
3,960	10,800	17,900	30,400	42,600	57,500	104,000

Oklahoma weighted skew = -0.126

	Duration table of daily mean flow for period of record, 1960-2007														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
504	256	107	61.6	45.6	35.8	26.4	21.3	17.0	14.4	11.8	8.84	5.04	2.30	0.57	0.31

Magnitude	Magnitude and probability of annual low flow based on period of record, 1961-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percen									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5%						
1	1.90	0.34	0.12	0.05						
3	2.10	0.38	0.13	0.05						
7	2.45	0.48	0.17	0.07						
10	2.76	0.55	0.20	0.08						
30	4.83	1.55	0.79	0.44						
60	8.45	3.09	1.61	0.88						

Magnitude and probability of annual low flow based on period of record, 1960-2007
spring season. April 1 through May 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50%	20%	10%	5%						
1	9.62	4.06	2.41	1.50						
3	10.1	4.22	2.56	1.66						
7	11.2	4.82	2.99	1.98						
10	11.9	5.28	3.37	2.29						
30	21.8	9.90	6.61	4.75						
60	43.6	19.2	12.7	9.10						

Magnitude and probability of annual low flow based on period of record, 1960-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	1.96	0.34	0.12	0.05						
3	2.16	0.38	0.13	0.05						
7	2.51	0.48	0.17	0.07						
10	2.82	0.55	0.20	0.08						
30	4.89	1.55	0.79	0.44						
60	9.69	3.15	1.61	0.88						

Magnitude and probability of annual low flow based on period of record, 1960-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent										
Period	2	5	10	20							
consecutive days)	50 %	20%	10%	5%							
1	9.06	5.56	4.35	3.58							
3	10.3	6.47	5.12	4.24							
7	11.3	7.30	5.85	4.89							
10	12.0	7.90	6.42	5.44							
30	14.4	9.72	7.94	6.74							
60	16.5	11.3	9.30	7.96							

07303500 ELM FORK OF NORTH FORK RED RIVER NEAR MANGUM, OKLA.

LOCATION. – Lat 34°55′36″, long 99°30′00″, referenced to North American Datum of 1927, on east line of sec. 10, T.5 N., R.22 W., Greer County, Okla., Hydrologic Unit 11120304, at bridge on U.S. Highway 283, 3.0 mi north of Mangum, 5.0 mi downstream from Haystack Creek, and at mile 17.8.

DRAINAGE AREA. - 838 mi².

PERIOD OF RECORD.—April 1905 to March 1908 (published as "Elm Fork of Red River"), March 1930 to September 1931, October 1937 to September 1947, April 1965 to September 1967, August 1968 to 1976. Monthly discharge for some periods, published in WSP 1311.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1906-1976

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	761	0.16	129	45.7	10.6
Nov.	254	3.67	60.6	34.1	5.0
Dec.	366	6.00	45.7	28.0	3.7
Jan.	388	6.79	49.2	23.8	4.0
Feb.	173	7.47	36.2	20.3	3.0
Mar.	184	3.64	48.4	38.5	4.0
Apr.	688	3.44	125	58.8	10.2
May	1,121	4.71	244	128	20.0
Jun.	1,144	5.08	236	177	19.3
Jul.	308	0.08	71.7	35.9	5.9
Aug.	344	1.28	66.6	26.2	5.5
Sep.	484	0.01	107	74.0	8.8
Annual	259	15.3	99.5	83.6	_

Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, in	n percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2%	1%	0.2%
7,300	15,900	23,600	35,200	45,400	56,700	87,8

Oklahoma weighted skew = -0.203

	Duration table of daily mean flow for period of record, 1905-1976														
			Discha	rge, in fl	³/s, whic	h was e	qualed o	r exceed	led for ir	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
1,790	1,060	359	159	100	71.9	45.4	31.4	23.7	17.9	13.0	7.60	3.70	1.38	0.08	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1906-1976									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
consecutive days)	50 %	20%	10%	5%						
1	1.28	0.00	0.00	0.00						
3	1.55	0.00	0.00	0.00						
7	2.25	0.00	0.00	0.00						
10	2.48	0.00	0.00	0.00						
30	5.02	0.60	0.12	0.00						
60	14.1	3.67	1.52	0.66						

Magnitude and probability of annual low flow based on period of record, 1905-1976
spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	7.78	2.86	1.51	0.61					
3	8.48	3.24	1.77	0.77					
7	16.2	3.43	2.35	1.10					
10	21.5	3.62	3.20	1.55					
30	52.3	16.7	8.09	4.16					
60	130	41.1	20.0	10.3					

Magnitude and probability of annual low flow based on period of record, 1905-1975 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	1.54	0.00	0.00	0.00				
3	1.84	0.00	0.00	0.00				
7	2.39	0.00	0.00	0.00				
10	2.48	0.02	0.00	0.00				
30	5.63	0.66	0.14	0.00				
60	22.4	5.56	2.15	0.87				

Magnitude and probability of annual low flow based on period of record, 1905-1976 winter season, November 1 through March 31

_	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	11.3	3.38	1.50	0.69				
3	12.7	3.92	1.75	0.81				
7	13.1	4.64	2.39	1.29				
10	13.5	5.16	2.87	1.69				
30	16.3	7.56	5.08	3.66				
60	18.6	9.10	6.42	4.88				

07304500 ELK CREEK NEAR HOBART, OKLA.

LOCATION. – Lat 34°54′51″, long 99°06′49″, referenced to North American Datum of 1927, in NE ¼ NE ¼ sec. 17, T.5 N., R.18 W., Kiowa County, Okla., Hydrologic Unit 11120303, near right bank on downstream side of pier of county road bridge, 7.0 mi downstream from Little Elk Creek, 7.5 mi south of Hobart, and at mile 10.9.

DRAINAGE AREA. - 549 mi².

PERIOD OF RECORD.-October 1904 to March 1908, October 1949 to September 1993.

REMARKS.—Part of high flows are diverted 1.0 miles upstream from station, by means of a breech canal (U.S. Bureau of Reclamation), into Tom Steed Reservoir. Flow regulated since 1967 by numerous floodwater-retarding structures. Baseflow has significantly increased in the basin since 1987 which may be associated with changes in irrigation practices (Esralew and Smith, 2009).

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1905-1966

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	645	0.00	125	25.9	14.9
Nov.	390	0.00	37.1	7.88	4.4
Dec.	150	0.00	28.1	14.2	3.4
Jan.	166	0.00	27.4	8.98	3.3
Feb.	260	0.69	33.5	10.2	4.0
Mar.	83.2	0.54	21.8	10.5	2.6
Apr.	480	0.97	53.7	25.6	6.4
May	1,049	0.03	194	74.8	23.1
Jun.	662	2.26	157	94.3	18.7
Jul.	448	0.00	74.9	32.0	8.9
Aug.	136	0.00	23.4	8.00	2.8
Sep.	607	0.00	63.2	11.4	7.6
Annual	146	14.8	68.8	62.7	_

Magnitude and probability of annual instantaneous peak flow based on 20 years of record, 1905-1966								
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500		
50 %	20%	10%	4%	2%	1%	0.2%		
3,990	6,880	9,280	12,900	16,100	19,700	30,000		

Oklahoma weighted skew = 0.244

Duration table of daily mean flow for period of record, 1905-1966															
Discharge, in ft ³ /s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
1,550	717	189	88.3	56.7	42.2	25.7	16.2	9.84	6.11	3.75	1.21	0.08	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1906-1966								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5 %					
1	0.78	0.00	0.00	0.00					
3	0.94	0.00	0.00	0.00					
7	1.07	0.00	0.00	0.00					
10	1.22	0.00	0.00	0.00					
30	1.92	0.00	0.00	0.00					
60	5.36	0.48	0.00	0.00					

Magnitude and probability of annual low flow based on period of record,	1905-1966
spring season. April 1 through May 31	

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in p							
Period (consecutive days)	2	5	10	20				
	50%	20%	10%	5%				
1	2.95	0.37	0.00	0.00				
3	3.33	0.48	0.00	0.00				
7	4.15	0.64	0.00	0.00				
10	5.30	0.96	0.00	0.00				
30	17.5	2.71	0.77	0.23				
60	61.6	22.6	13.6	8.95				

Magnitude and probability of annual low flow based on period of record, 1905-1965 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in perce							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5 %				
1	0.81	0.00	0.00	0.00				
3	0.96	0.00	0.00	0.00				
7	1.09	0.00	0.00	0.00				
10	1.22	0.00	0.00	0.00				
30	2.08	0.00	0.00	0.00				
60	7.69	0.64	0.00	0.00				

Magnitude and probability of annual low flow based on period of record, 1905-1966 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	3.91	0.40	0.01	0.00				
3	4.20	0.48	0.01	0.00				
7	4.86	0.54	0.01	0.00				
10	5.08	0.58	0.01	0.00				
30	7.35	0.76	0.11	0.00				
60	8.08	1.43	0.42	0.02				

07304500 ELK CREEK NEAR HOBART, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1967-1987

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,935	0.92	209	12.5	18.0
Nov.	381	0.24	52.3	21.8	4.5
Dec.	160	1.41	25.2	16.9	2.2
Jan.	159	2.83	27.7	17.7	2.4
Feb.	236	4.18	37.6	17.9	3.2
Mar.	339	2.33	62.3	20.6	5.4
Apr.	442	0.51	62.5	30.1	5.4
May	1,446	0.34	320	107	27.6
Jun.	597	17.3	152	83.7	13.1
Jul.	813	0.44	65.7	15.7	5.7
Aug.	199	0.38	36.8	9.41	3.2
Sep.	557	0.91	107	25.2	9.3
Annual	427	13.9	97.0	55.5	_

	Magnitude and probability of annual instantaneous peak flow based on 27 years of record, 1967-1993 Discharge, in ft ³ /s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500			
15%	5%	10%	4%	2%	1%	0.2%			
5,630	12,100	18,600	29,800	40,900	54,800	101,000			

station skew = 0.290

				Duratio	on table	of daily r	nean flo	w for pe	riod of re	cord, 19	67-1987				
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70%	80%	90%	95%	98%	99%
1,690	878	291	137	74.7	48.7	30.5	21.3	16.4	12.1	8.11	4.54	1.72	0.62	0.19	0.03

Magnitude	Magnitude and probability of annual low flow based on period of record, 1968-1987								
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	1.13	0.12	0.00	0.00					
3	1.18	0.20	0.00	0.00					
7	1.52	0.21	0.00	0.00					
10	1.57	0.22	0.00	0.00					
30	2.46	0.54	0.21	0.09					
60	4.82	1.42	0.70	0.38					

Magnitude and probability of annual low flow based on period of record, 1967-1987
spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50%	20%	10%	5%				
1	7.69	3.25	2.00	0.80				
3	8.18	3.46	2.12	0.82				
7	14.4	3.50	2.30	0.90				
10	15.9	3.60	2.75	1.30				
30	24.3	7.84	3.58	1.68				
60	125	26.6	9.11	3.25				

Magnitude and probability of annual low flow based on period of record, 1967-1986 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50%	20%	10%	5%				
1	1.17	0.12	0.00	0.00				
3	1.20	0.20	0.00	0.00				
7	1.55	0.21	0.00	0.00				
10	1.57	0.22	0.00	0.00				
30	3.41	0.69	0.25	0.10				
60	6.74	1.89	0.93	0.51				

Magnitude and probability of annual low flow based on period of record, 1967-1987 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	5.01	1.18	0.46	0.05				
3	5.36	1.27	0.50	0.06				
7	7.23	1.30	0.60	0.12				
10	8.90	1.50	0.65	0.12				
30	11.4	3.30	1.51	0.73				
60	12.8	5.03	3.00	1.93				

07305000 NORTH FORK RED RIVER NEAR HEADRICK, OKLA.

LOCATION. – Lat 34°38′17″, long 99°06′12″, referenced to North American Datum of 1927, in NW ¼ NW ¼ sec. 21, T.2 N., R.18 2., Jackson County, Okla., Hydrologic Unit 11120303, on downstream side of bridge on U.S. Highway 62, 2.2 mi east of Headrick, 13.3 mi upstream from Otter Creek, and at mile 33.4.

DRAINAGE AREA. – 4,244 mi², of which 399 mi² is probably noncontributing.

PERIOD OF RECORD.—April 1905 to March 1908, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1311. Prior to July 1905, published as "near Snyder".

REMARKS.—Flow regulated since December 1943 by storage and diversion at Lake Altus, 39.5 mi upstream from station (station 07302500). Diversions for irrigation of about 48,000 acres upstream from station; some return flow may re-enter at Stinking Creek, 16 mi downstream from station.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1945-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	5,608	0.00	339	97.3	8.8
Nov.	1,743	0.00	158	72.2	4.1
Dec.	984	0.20	133	58.3	3.4
Jan.	793	0.84	116	56.4	3.0
Feb.	1,375	4.06	168	60.1	4.3
Mar.	2,785	4.27	248	75.3	6.4
Apr.	5,366	0.64	329	118	8.5
May	6,104	0.31	947	306	24.4
Jun.	4,659	10.3	777	458	20.0
Jul.	2,016	0.25	233	113	6.0
Aug.	2,522	0.00	175	63.6	4.5
Sep.	1,675	0.00	254	89.5	6.6
Annual	1,562	50.0	324	263	_

Magnitude and probability of annual instantaneous peak flow based on 63 years of record, 1945-2007 Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
50 %	20%	10%	4%	2 %	1%	0.2%		
11,600	22,000	29,700	39,900	47,800	55,700	74,300		

station skew = -0.433

				Duratio	on table	of daily	mean flo	ow for p	eriod of	record,	1945-200	07			
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
5,330	3,100	1,240	587	353	244	130	88.9	64.8	46.9	33.0	21.3	7.68	2.07	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1946-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20 5%						
(consecutive days)	50 %	20%	10%							
1	6.20	0.00	0.00	0.00						
3	6.56	0.00	0.00	0.00						
7	7.50	0.15	0.00	0.00						
10	8.64	0.27	0.00	0.00						
30	15.0	1.43	0.20	0.00						
60	33.6	5.21	1.05	0.17						

Magnitude and probability of annual low flow based on period of record, 1945-2007 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50%	20%	10%	5%					
1	31.6	8.40	3.45	1.19					
3	33.3	9.24	3.94	1.42					
7	36.7	10.8	5.00	2.06					
10	39.4	12.5	6.22	2.86					
30	106	25.5	9.94	4.10					
60	362	99.9	44.7	21.4					

Magnitude and probability of annual low flow based on period of record, 1945-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5 %					
1	6.89	0.00	0.00	0.00					
3	7.21	0.04	0.00	0.00					
7	7.78	0.33	0.00	0.00					
10	8.74	0.45	0.00	0.00					
30	19.4	1.86	0.26	0.00					
60	41.1	6.80	1.84	0.47					

Magnitude and probability of annual low flow based on period of record, 1945-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	25.4	5.53	1.82	0.09				
3	26.0	6.36	2.45	0.77				
7	28.5	7.61	3.14	1.09				
10	30.6	8.21	3.38	1.16				
30	51.2	11.2	4.00	1.50				
60	57.5	13.9	5.26	2.08				

07305500 WEST OTTER CREEK AT SNYDER LAKE NEAR MOUNTAIN PARK, OKLA.

LOCATION. – Lat 34°44′02″, long 98°59′10″, referenced to North American Datum of 1927, in SE ¼ sec. 16, T.3 N., R.17W., Kiowa County, Okla., Hydrologic Unit 11120303, near east end of Snyder Dam, 0.8 mi upstream from small tributary, 3 mi northwest of Mountain Park, and at mile 26.0.

DRAINAGE AREA. - 132 mi².

PERIOD OF RECORD.—April 1903 to March 1908, October 1951 to September 1971, July 1972 to current year. Published as "Otter Creek near Mountain Park" 1903 to 1908 and as "Otter Creek at Snyder Lake, near Mountain Park" 1951 to 1960. Monthly discharge only for some periods, published in WSP 1311.

REMARKS.—The city of Snyder diverted about 130 acre-ft annually prior to October 1958 and none thereafter. Flow completely regulated since June 1975 by Tom Steed Reservoir.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1976-2003

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	105	0.00	7.77	0.00	5.5
Nov.	252	0.00	12.8	0.00	9.1
Dec.	143	0.00	8.76	0.00	6.2
Jan.	61.9	0.00	2.64	0.00	1.9
Feb.	180	0.00	8.94	0.00	6.3
Mar.	164	0.00	11.7	0.07	8.3
Apr.	39.6	0.00	4.43	0.07	3.2
May	384	0.00	32.7	0.20	23.2
Jun.	421	0.00	38.1	0.22	27.1
Jul.	71.6	0.00	4.29	0.00	3.0
Aug.	123	0.00	4.79	0.00	3.4
Sep.	65.6	0.00	3.94	0.00	2.8
Annual	125	0.00	12.1	2.25	_

Magnitude and probability of annual instantaneous peak flow based on 32 years of record, 1976-2003									
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500			
50%	20%	10%	4%	2%	1%	0.2%			
128	402	745	1,460	2,280	3,410	7,850			

station skew = 0.152

	Duration table of daily mean flow for period of record, 1976-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30 %	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
294	224	38.9	1.54	0.46	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1977-2003								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.00	0.00	0.00	0.00					
60	0.00	0.00	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1976-2003 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.00	0.00	0.00	0.00					
60	0.37	0.00	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1976-2002 summer season, June 1 through October 31

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	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.00	0.00	0.00	0.00					
60	0.00	0.00	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1976-2003 winter season, November 1 through March 31

_	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	0.00	0.00	0.00	0.00						
3	0.00	0.00	0.00	0.00						
7	0.00	0.00	0.00	0.00						
10	0.00	0.00	0.00	0.00						
30	0.00	0.00	0.00	0.00						
60	0.00	0.00	0.00	0.00						

07307028 NORTH FORK RED RIVER NEAR TIPTON, OKLA.

LOCATION. – Lat 34°30′25″, long 99°12′28″, referenced to North American Datum of 1927, in NW ¼ NE ¼ sec. 5, T.1 S., R.19 W., Jackson County, Okla., Hydrologic Unit 11120303, near left bank on downstream side of bridge pier on State Highway 5, 3.5 mi west of Tipton, 4.8 mi downstream from Otter Creek, and at mile 15.3.

DRAINAGE AREA. - 4,691 mi², of which 399 mi² is probably noncontributing.

PERIOD OF RECORD.-June 1983 to current year.

REMARKS.—Flow regulated since December 1943 by storage and diversion at Lake Altus 54.2 mi upstream (station 07302500). Diversions for irrigation of about 48,000 acres upstream from station.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent of annual runoff, based on period of record, 1983-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	5,784	15.1	594	180	9.1
Nov.	2,276	27.5	363	198	5.6
Dec.	1,287	27.3	318	120	4.9
Jan.	1,126	49.9	251	133	3.9
Feb.	1,773	42.7	345	119	5.3
Mar.	3,268	54.8	590	237	9.1
Apr.	5,020	49.3	570	259	8.8
May	5,347	62.6	1,029	469	15.8
Jun.	5,560	93.8	1,255	664	19.3
Jul.	1,093	31.9	309	229	4.8
Aug.	3,932	39.5	414	126	6.4
Sep.	1,796	13.5	455	200	7.0
Annual	1,987	80.4	545	481	_

Magnitude and probability of annual instantaneous peak flow based on 23 years of record, 1985-2007											
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent											
2	5	10	25	50	100	500					
50%	20%	10%	4%	2%	1%	0.2%					
11,300	23,400	33,140	47,030	58,300	70,100	99,800					

station skew = -0.362

	Duration table of daily mean flow for period of record, 1983-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
7,140	4,360	2,010	1,010	661	479	303	197	141	110	86.5	63.1	42.0	29.5	17.1	9.02

Magnitude	and probability of annual l	ow flow based on period of r	ecord, 1985-2007							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	31.6	12.3	6.91	4.09						
3	32.7	13.2	7.56	4.59						
7	35.2	14.3	8.24	5.00						
10	36.6	15.0	8.64	5.25						
30 47.4		47.4 20.6		8.19						
60	68.1	35.7	25.2	18.8						

	s	pring season, April 1 through	May 31							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50%	20%	10%	5%						
1	89.8	41.4	27.8	20.0						
3	92.0	43.6	29.9	22.0						
7	94.7	47.2	35.1	28.4						
10	100	51.7	39.5	32.8						
30	175	80.4	56.7	43.8						
60	378	156	102	74.0						

Magnitude and probability of annual low flow based on period of record, 1984-2007

	•	ity of annual low flow based mer season, June 1 through	on period of record, 1984-200 October 31	06							
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20							
	50 %	20%	10%	5%							
1	35.4	12.6	6.86	4.02							
3	36.4	13.3	7.46	4.49							
7	38.6	14.3	8.06	4.87							
10	40.1	15.0	8.46	5.13							
30	54.3	20.9	12.4	8.04							
60	88.5	39.7	27.3	20.5							

	•	ity of annual low flow based r season, November 1 throu	on period of record, 1984-20 gh March 31	07							
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20							
	50 %	20%	10%	5%							
1	66.0	34.0	24.6	19.1							
3	68.0	36.1	26.7	21.2							
7	71.8	38.7	28.9	23.0							
10	74.1	39.5	29.3	23.2							
30	88.2	45.9	34.1	27.3							
60	109	58.4	44.3	36.0							

07308500 RED RIVER NEAR BURKBURNETT, TEX.

LOCATION. – Lat 34°06′36″, long 98°31′53″, referenced to North American Datum of 1927, Cotton County, Okla., Hydrologic Unit 11130102, on downstream guardrail of downstream bridge on U.S. Highways 277 and 281, 2.5 mi northeast of Burkburnett, and at mile 933.

DRAINAGE AREA. – 20,570 mi², of which 5,936 mi² is probably noncontributing.

PERIOD OF RECORD.-July 1924 to September 1924, December 1959 to current year.

REMARKS.-No known regulation. There are many small diversions upstream from station for irrigation, but total amounts are unknown.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1960-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	14,900	21.9	1,409	447	9.8
Nov.	4,960	0.96	707	400	4.9
Dec.	4,435	2.98	553	300	3.9
Jan.	2,293	5.53	499	298	3.5
Feb.	4,986	8.37	686	334	4.8
Mar.	10,050	7.97	957	428	6.7
Apr.	13,040	0.15	1,044	423	7.3
May	12,470	11.4	2,203	1,129	15.4
Jun.	24,780	148	3,274	2,255	22.9
Jul.	5,947	0.06	919	542	6.4
Aug.	10,540	1.29	833	334	5.8
Sep.	6,381	29.9	1,231	430	8.6
Annual	4,424	178	1,196	975	_

Magnit	Magnitude and probability of annual instantaneous peak flow based on 48 years of record, 1960-2007											
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent												
2	5	10	25	50	100	500						
50 %	20%	10%	4%	2%	1%	0.2%						
28,000	55,200	78,000	112,000	140,000	172,000	256,000						

Water Resources Council weighted skew = -0.145

Duration table of daily mean flow for period of record, 1960-2007															
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
17,400	10,200	4,540	2,470	1,590	1,110	659	445	317	231	162	104	53.5	23.4	3.85	0.01

Magnitude and probability of annual low flow based on period of record, 1961-2007					
Period (consecutive days)	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent				
	2 50%	5 20%	10 10%	20 5%	
					1
3	35.4	5.64	0.61	0.00	
7	41.4	6.38	0.79	0.00	
10	44.5	8.54	1.22	0.00	
30	106	13.8	2.11	0.22	
60	137	38.6	16.1	6.97	

Magnitude and probability of annual low flow based on period of record, 1960-2007 spring season, April 1 through May 31

Period (consecutive days)	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent				
	2 50%	5 20%	10 10%	20 5%	
					1
3	116	50.2	30.6	19.0	
7	126	57.6	39.2	28.3	
10	138	63.6	43.7	32.0	
30	542	158	51.8	40.0	
60	1,190	372	166	76.6	

Magnitude and probability of annual low flow based on period of record, 1960-2006 summer season, June 1 through October 31

Period (consecutive days)	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent				
	2 50%	5 20%	10 10%	20 5%	
					1
3	45.3	5.64	0.61	0.00	
7	45.8	6.38	1.24	0.00	
10	46.4	7.92	1.80	0.00	
30	134	19.0	3.18	0.37	
60	226	57.0	23.0	9.78	

Magnitude and probability of annual low flow based on period of record, 1960-2007 winter season, November 1 through March 31

Period (consecutive days)	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent				
	2 50%	5 20%	10 10%	20 5%	
					1
3	129	32.8	11.7	4.19	
7	144	38.5	14.5	5.55	
10	148	41.8	17.1	7.14	
30	211	68.1	31.3	14.8	
60	242	79.8	39.8	21.0	

07311000 EAST CACHE CREEK NEAR WALTERS, OKLA.

LOCATION. – Lat 34°21′44″, long 98°16′56″, referenced to North American Datum of 1927, in SE ¼ SE ¼ sec. 19, T.2 S., R.10 W., Cotton County, Okla., Hydrologic Unit 11130202, at right bank on downstream side of bridge on State Highway 53, 1.8 mi east of Walters, 12.2 mi upstream from West Cache Creek, and at mile 19.7.

DRAINAGE AREA. - 675 mi².

PERIOD OF RECORD.—May 1938 to December 1963, October 1969 to current year. Prior to October 1969, published as "Cache Creek near Walters".

REMARKS.—Flow partly regulated by Lake Lawtonka, capacity, 42,300 acre-ft on Medicine Creek prior to late 1953, and 63,000 acre-ft thereafter by Lake Thomas, capacity 8,300 acre-ft on Little Medicine Creek; and since March 1961 by Lake Ellsworth, capacity 94,500 acre-ft on East Cache Creek. Low flow sustained by sewage effluent from cities of Lawton and Walters.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1938-1960

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,043	0.00	219	36.0	10.1
Nov.	260	0.15	69.9	27.3	3.2
Dec.	435	0.15	76.3	20.9	3.5
Jan.	250	0.63	48.3	26.8	2.2
Feb.	389	2.20	90.4	40.3	4.2
Mar.	1,153	2.09	134	41.2	6.2
Apr.	1,011	7.81	216	75.1	10.0
May	2,577	5.13	702	424	32.3
Jun.	1,591	12.6	368	246	17.0
Jul.	374	9.25	109	62.1	5.0
Aug.	210	3.75	36.8	19.3	1.7
Sep.	895	0.00	102	20.0	4.7
Annual	394	12.6	183	160	_

Magnitude and probability of annual instantaneous peak flow based on 22 years of record, 1939-1960 Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent											
50 %	20%	10%	4%	2%	1%	0.2%					
7,590	13,400	18,200	25,500	31,800	38,800	58,900					

	Duration table of daily mean flow for period of record, 1938-1960														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30 %	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
3,490	2,150	677	259	152	103	59.1	38.4	26.2	19.5	15.0	10.5	6.17	2.43	0.13	0.04

Magnitude	Magnitude and probability of annual low flow based on period of record, 1939-1960										
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedand	e probability, in percent							
Period	2	5	10	20							
(consecutive days)	50%	20%	10%	5%							
1	7.03	1.86	0.21	0.00							
3	7.33	2.77	0.69	0.00							
7	7.73	3.02	0.81	0.00							
10	7.96	3.16	0.89	0.00							
30	12.5	3.55	0.95	0.00							
60	15.9	3.64	0.97	0.04							

Magnitude and probability of annual low flow based on period of record, 1938-1960
spring season. April 1 through May 31

	Discharge, in ft³/s, for in	ndicated recurrence interval,	in years, and nonexceedance	e probability, in percent
Period	2	5	10	20
(consecutive days)	50 %	20%	10%	5%
1	24.4	7.63	2.84	1.01
3	24.8	8.19	3.39	1.38
7	24.7	8.77	4.52	2.45
10	25.3	9.79	5.51	3.29
30	57.6	20.4	12.0	7.77
60	334	103	48.0	23.7

Magnitude and probability of annual low flow based on period of record, 1938-1959 summer season, June 1 through October 31

	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedance	e probability, in percent
Period	2	5	10	20
(consecutive days)	50 %	20%	10%	5%
1	7.33	1.88	0.21	0.00
3	7.61	2.79	0.69	0.00
7	8.02	3.03	0.81	0.00
10	8.16	3.16	0.89	0.00
30	12.9	3.60	0.95	0.00
60	18.1	3.75	0.97	0.04

Magnitude and probability of annual low flow based on period of record, 1939-1960 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percei									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	14.1	3.14	0.80	0.03						
3	14.1	3.70	1.26	0.11						
7	14.1	4.21	1.63	0.20						
10	16.9	4.80	1.90	0.36						
30	21.3	6.74	2.71	1.07						
60	26.6	7.48	2.96	1.19						

07311000 EAST CACHE CREEK NEAR WALTERS, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1962-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	2,738	13.2	244	38.6	8.3
Nov.	1,167	18.1	153	43.2	5.2
Dec.	1,796	17.4	157	43.1	5.3
Jan.	916	19.4	144	43.9	4.9
Feb.	1,356	23.2	199	58.3	6.7
Mar.	2,120	19.2	336	116	11.4
Apr.	1,243	18.2	250	98.5	8.5
May	2,654	18.8	492	243	16.7
Jun.	4,593	18.9	562	198	19.0
Jul.	2,101	9.72	141	58.6	4.8
Aug.	1,581	9.30	110	31.8	3.7
Sep.	1,637	9.86	163	44.6	5.5
Annual	916	38.7	247	161	_

Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent											
2 5 10 25 50 100											
15%	5%	10%	4%	2%	1%	0.2%					
5,210	11,700	18,300	30,300	42,400	57,800	111,00					

	Duration table of daily mean flow for period of record, 1962-2007														
	Discharge, in ft ³ /s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
3,700	2,220	996	501	304	183	82.7	53.6	42.3	34.4	27.8	22.7	17.3	13.7	10.0	7.51

Magnitude	Magnitude and probability of annual low flow based on period of record, 1963-2007							
_	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent				
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	9.94	5.47	3.91	2.92				
3	10.8	6.07	4.38	3.31				
7	12.2	7.17	5.35	4.17				
10	13.1	8.03	6.17	4.95				
30	17.6	12.0	9.92	8.49				
60	22.9	15.2	12.1	10.1				

Magnitude and probability of annual low flow based on period of record, 1962-2007
spring season. April 1 through May 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	29.5	16.7	12.6	10.1				
3	30.7	17.6	13.5	10.9				
7	31.8	18.7	15.2	13.3				
10	33.9	19.8	16.2	14.2				
30	68.5	33.9	25.4	20.9				
60	216	87.6	54.7	37.0				

Magnitude and probability of annual low flow based on period of record, 1962-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	10.6	5.77	4.08	3.02				
3	11.5	6.41	4.59	3.43				
7	12.8	7.48	5.55	4.29				
10	13.7	8.32	6.40	5.14				
30	18.3	12.1	10.0	8.76				
60	26.3	15.3	12.1	10.1				

Magnitude and probability of annual low flow based on period of record, 1962-2007 winter season, November 1 through March 31

_	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	20.4	12.4	9.81	8.17				
3	21.2	13.0	10.3	8.62				
7	23.4	14.4	11.4	9.50				
10	24.6	15.1	12.0	10.1				
30	30.0	20.0	17.9	16.9				
60	42.3	23.8	19.3	16.9				

07311200 BLUE BEAVER CREEK NEAR CACHE, OKLA.

LOCATION. – Lat 34°37′24″, long 98°33′48″, referenced to North American Datum of 1927, in NE ¼ NE ¼ sec. 28, T.2 N., R.13 W., Comanche County, Okla., Hydrologic Unit 11130203, on downstream side of right bank pier on old U.S. Highway 62, 3,000 ft upstream from St. Louis-San Francisco Railway Co. bridge, 4.0 mi east of Cache, and at mile 12.0.

DRAINAGE AREA. - 24.6 mi².

PERIOD OF RECORD.-July 1964 to September 2003.

REMARKS.-Regulated by Lake Rush, Lake Jed Johnson, and Lake Ketch, combined surface-area 132 acres. Is considered a "hydrologic benchmark" station.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1965-2003

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	193	0.00	16.3	0.37	10.1
Nov.	61.1	0.00	8.18	2.01	5.1
Dec.	108	0.00	9.43	2.41	5.8
Jan.	53.2	0.00	8.41	2.30	5.2
Feb.	67.1	0.00	12.7	6.71	7.9
Mar.	142	0.00	23.0	11.1	14.2
Apr.	88.0	0.02	18.0	9.90	11.2
May	176	0.03	32.0	26.7	19.8
Jun.	125	0.01	23.0	5.94	14.2
Jul.	14.1	0.00	1.82	0.66	1.1
Aug.	27.5	0.00	2.02	0.01	1.2
Sep.	50.9	0.00	6.61	0.16	4.1
Annual	47.8	0.48	13.4	12.5	_

Magnitude and probability of annual instantaneous peak flow based on 39 years of record, 1965-2003 Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
50 %	20%	10%	4%	2%	1%	0.2%		
1,650	3,600	5,500	8,780	12,000	15,900	28,700		

	Duration table of daily mean flow for period of record, 1964-2003														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
222	113	47.9	24.5	15.9	10.8	4.92	2.32	1.11	0.53	0.09	0.00	0.00	0.00	0.00	0.00

	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedance	e probability, in percent
Period (consecutive days)	2	5	10	20
	50 %	20%	10%	5%
1	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00
60	0.01	0.00	0.00	0.00

Magnitude and probability of annual low flow based on period of record, 1965-2003	3
spring season. April 1 through May 31	

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50%	20%	10%	5%				
1	0.93	0.31	0.12	0.00				
3	1.01	0.34	0.13	0.00				
7	1.22	0.41	0.18	0.00				
10	1.40	0.47	0.24	0.00				
30	4.06	1.42	0.80	0.46				
60	26.2	6.97	2.10	0.58				

Magnitude and probability of annual low flow based on period of record, 1965-2002 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.00	0.00	0.00	0.00			
60	0.01	0.00	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1965-2003 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.32	0.00	0.00	0.00			
3	0.32	0.00	0.00	0.00			
7	0.39	0.00	0.00	0.00			
10	0.40	0.00	0.00	0.00			
30	0.66	0.02	0.00	0.00			
60	1.17	0.07	0.00	0.00			

07311500 DEEP RED CREEK NEAR RANDLETT, OKLA.

LOCATION. – Lat 34°13′15″, long 98°27′10″, referenced to North American Datum of 1927, in SW ¼ SW ¼ sec. 10, T.4 S., R.12 W., Cotton County, Okla., Hydrologic Unit 11130203, near right bank on downstream side of pier of bridge on U.S. Highway 277, 2.8 mi north of Randlett, and at mile 4.8.

DRAINAGE AREA. - 617 mi².

PERIOD OF RECORD.-October 1949 to current year. Prior to October 1993, published as "Deep Red Run near Randlett".

REMARKS.-Some regulation by numerous floodwater-retarding structures, and Lake Frederick.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1950-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	3,345	0.00	255	21.6	12.6
Nov.	994	0.00	105	10.9	5.2
Dec.	1,493	0.00	66.5	5.21	3.3
Jan.	568	0.00	61.9	5.85	3.1
Feb.	1,020	0.02	81.8	12.1	4.0
Mar.	1,540	0.10	138	22.9	6.8
Apr.	1,398	0.00	133	34.7	6.6
May	2,800	0.06	436	237	21.5
Jun.	4,654	0.00	444	140	21.9
Jul.	1,316	0.00	78.0	15.8	3.8
Aug.	1,109	0.00	66.6	8.37	3.3
Sep.	1,453	0.00	161	22.9	8.0
Annual	904	6.27	169	105	_

Magnitude and probability of annual instantaneous peak flow based on 58 years of record, 1950-2007									
Discharç	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500			
50%	20%	10%	4%	2%	1%	0.2%			
7,170	16,800	26,200	42,300	57,700	76,400	135,000			

	Duration table of daily mean flow for period of record, 1950-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30 %	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
3,780	2,110	661	181	76.4	42.1	16.5	8.31	4.91	3.00	1.56	0.55	0.00	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1951-2007							
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedanc	e probability, in percent				
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.00	0.00	0.00	0.00				
3	0.00	0.00	0.00	0.00				
7	0.00	0.00	0.00	0.00				
10	0.00	0.00	0.00	0.00				
30	0.18	0.00	0.00	0.00				
60	0.94	0.05	0.00	0.00				

Magnitude and probability of annual low flow based on period of record, 1950-2007 spring season, April 1 through May 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50%	20%	10%	5%				
1	1.69	0.17	0.00	0.00				
3	1.92	0.20	0.00	0.00				
7	2.23	0.31	0.00	0.00				
10	2.58	0.36	0.04	0.00				
30	17.0	2.37	0.69	0.22				
60	167	33.7	11.2	3.93				

Magnitude and probability of annual low flow based on period of record, 1950-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.36	0.00	0.00	0.00			
60	3.22	0.16	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1950-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.95	0.00	0.00	0.00				
3	1.02	0.00	0.00	0.00				
7	1.22	0.03	0.00	0.00				
10	1.37	0.05	0.00	0.00				
30	2.11	0.24	0.02	0.00				
60	3.38	0.52	0.17	0.00				

07313000 LITTLE BEAVER CREEK NEAR DUNCAN, OKLA.

LOCATION. – Lat 34°29′35″, long 98°06′50″, referenced to North American Datum of 1927, in NE ¼ sec. 11, T.1 S., R.9 W., Stephens County, Okla., Hydrologic Unit 11130208, on downstream side of right pier of bridge on county road, 0.8 mi downstream from Stage Stand Creek, 8.2 mi west of Duncan, and at mile 11.9.

DRAINAGE AREA. - 158 mi².

PERIOD OF RECORD.-October 1948 to December 1963.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1949-1963

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	388	0.00	57.4	12.6	9.2
Nov.	70.3	0.00	18.4	9.52	3.0
Dec.	79.3	0.00	16.3	7.25	2.6
Jan.	39.0	0.15	11.8	11.0	1.9
Feb.	106	1.41	20.4	12.1	3.3
Mar.	76.5	2.63	22.7	16.3	3.6
Apr.	155	1.94	29.1	17.7	4.7
May	1,003	7.67	258	106	41.3
Jun.	818	6.04	129	55.7	20.7
Jul.	130	0.68	32.3	15.9	5.2
Aug.	86.8	0.00	12.3	3.45	2.0
Sep.	103	0.00	16.4	1.18	2.6
Annual	118	7.00	52.3	49.0	_

Magnitu	de and probabili	ty of annual insta	ntaneous peak f	low based on 15 y	ears of record, 1	949-1963
Discharg	je, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	ice probability, ir	ı percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2%	1%	0.2%
10,100	29,000	51,400	96,000	145,000	212,000	464,000

				Duratio	on table	of daily r	nean flo	w for pe	riod of re	cord, 19	49-1963				
			Discha	rge, in ft	3/s, whic	h was e	qualed o	r excee	ded for in	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
973	408	111	42.7	28.3	21.9	14.7	11.1	7.22	4.49	2.13	0.20	0.03	0.01	0.01	0.00

Magnitude	and probability of annual le	ow flow based on period of r	ecord, 1950-1963							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5 %						
1	0.00	0.00	0.00	0.00						
3	0.00	0.00	0.00	0.00						
7	0.00	0.00	0.00	0.00						
10	0.00	0.00	0.00	0.00						
30	0.14	0.00	0.00	0.00						
60	1.55	0.00	0.00	0.00						

Magnitude and probability of annual low flow based on period of record, 1949-1963 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50%	20%	10%	5%						
1	5.02	1.19	0.00	0.00						
3	5.53	1.48	0.00	0.00						
7	5.98	1.86	0.00	0.00						
10	6.80	2.30	0.23	0.06						
30	13.9	5.46	3.30	2.16						
60	95.2	32.2	17.0	9.67						

Magnitude and probability of annual low flow based on period of record, 1949-1962 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	0.00	0.00	0.00	0.00						
3	0.00	0.00	0.00	0.00						
7	0.00	0.00	0.00	0.00						
10	0.00	0.00	0.00	0.00						
30	0.14	0.00	0.00	0.00						
60	1.55	0.00	0.00	0.00						

Magnitude and probability of annual low flow based on period of record, 1949-1963 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	1.71	0.00	0.00	0.00						
3	2.27	0.00	0.00	0.00						
7	2.87	0.00	0.00	0.00						
10	3.12	0.00	0.00	0.00						
30	4.41	0.00	0.00	0.00						
60	5.74	1.29	0.36	0.00						

07313500 BEAVER CREEK NEAR WAURIKA, OKLA.

LOCATION. – Lat 34°13′00″, long 98°02′57″, referenced to North American Datum of 1927, on north line of NW ¼ NW ¼ sec. 16, T.4 S., R.8 W., Jefferson County, Okla., Hydrologic Unit 11130208, on left bank on downstream side of bridge on State Highway 5, 1.2 mi belowWaurika Dam, 4.5 mi northwest of Waurika, 6.2 mi upstream from Cow Creek, and at mile 25.8.

DRAINAGE AREA. - 563 mi².

PERIOD OF RECORD.-October 1953 to September 1993.

REMARKS.-Flow completely regulated by Waurika Lake (07313400) 1.2 miles upstream beginning August 1977.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1954-1976

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	794	0.00	87.1	29.3	6.8
Nov.	451	0.00	90.0	27.6	7.0
Dec.	280	0.00	41.5	17.4	3.2
Jan.	153	0.06	34.3	21.2	2.7
Feb.	276	0.07	44.0	17.9	3.4
Mar.	537	1.90	70.9	44.4	5.5
Apr.	726	1.40	112	63.0	8.7
May	2,629	0.81	434	125	33.9
Jun.	2,132	4.55	229	52.6	17.9
Jul.	170	0.00	50.2	28.7	3.9
Aug.	168	0.00	28.6	14.9	2.2
Sep.	230	0.00	58.7	50.3	4.6
Annual	349	19.7	107	74.4	_

Magnitude a	and probability of	annual instantar	neous peak flow	based on 26 histo	ric years of reco	rd, 1951-1976
Discharç	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, i	n percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2%	1%	0.2%
3,970	9,760	16,100	28,000	40,600	57,200	117,000

				Duratio	on table	of daily r	nean flo	w for pe	iod of re	cord, 19	54-1976				
			Discha	rge, in ft	³/s, whic	h was e	qualed o	r excee	led for ir	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
1,980	1,090	372	128	76.5	55.4	34.0	21.8	12.8	6.49	2.79	0.47	0.00	0.00	0.00	0.00

Magnitude	and probability of annual l	ow flow based on period of r	ecord, 1955-1976							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	0.00	0.00	0.00	0.00						
3	0.00	0.00	0.00	0.00						
7	0.00	0.00	0.00	0.00						
10	0.00	0.00	0.00	0.00						
30	0.26	0.00	0.00	0.00						
60	1.14	0.00	0.00	0.00						

Magnitude and probability of annual low flow based on period of record, 1954-1976
spring season. April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	4.30	0.23	0.00	0.00				
3	5.71	0.45	0.00	0.00				
7	8.18	0.84	0.04	0.00				
10	8.39	0.99	0.23	0.06				
30	37.8	8.31	3.15	1.28				
60	132	39.3	19.7	10.8				

Magnitude and probability of annual low flow based on period of record, 1954-1975 summer season, June 1 through October 31

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	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5 %				
1	0.00	0.00	0.00	0.00				
3	0.00	0.00	0.00	0.00				
7	0.00	0.00	0.00	0.00				
10	0.00	0.00	0.00	0.00				
30	0.55	0.00	0.00	0.00				
60	2.47	0.01	0.00	0.00				

Magnitude and probability of annual low flow based on period of record, 1954-1976 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	1.40	0.00	0.00	0.00				
3	2.45	0.00	0.00	0.00				
7	4.75	0.00	0.00	0.00				
10	4.80	0.00	0.00	0.00				
30	6.20	0.16	0.00	0.00				
60	10.0	0.76	0.02	0.00				

07313500 BEAVER CREEK NEAR WAURIKA, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1978-1993

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	959	0.00	114	0.95	4.8
Nov.	1,639	0.00	210	0.85	8.8
Dec.	711	0.00	134	0.69	5.6
Jan.	830	0.00	171	0.37	7.2
Feb.	845	0.00	162	1.29	6.7
Mar.	1,677	0.01	308	124	12.8
Apr.	898	0.00	219	27.4	9.2
May	2,123	0.00	329	132	13.7
Jun.	2,501	0.00	544	283	22.7
Jul.	708	0.00	109	4.69	4.5
Aug.	65.2	0.00	9.31	4.79	0.4
Sep.	958	0.00	86.5	6.54	3.6
Annual	631	0.02	199	169	_

Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500			
15%	5%	10%	4%	2%	1%	0.2%			

	Duration table of daily mean flow for period of record, 1978-1993														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
2,500	2,290	1,680	738	357	116	11.3	4.98	1.19	0.40	0.08	0.00	0.00	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1979-1993								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.03	0.00	0.00	0.00					
60	0.12	0.00	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1978-1993 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.57	0.00	0.00	0.00				
3	0.62	0.00	0.00	0.00				
7	0.67	0.00	0.00	0.00				
10	0.74	0.00	0.00	0.00				
30	2.24	0.01	0.00	0.00				
60	50.8	2.10	0.28	0.04				

Magnitude and probability of annual low flow based on period of record, 1978-1992 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.31	0.00	0.00	0.00			
60	0.39	0.00	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1978-1993 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5 %			
1	0.04	0.00	0.00	0.00			
3	0.04	0.00	0.00	0.00			
7	0.05	0.00	0.00	0.00			
10	0.06	0.00	0.00	0.00			
30	0.27	0.01	0.00	0.00			
60	1.08	0.01	0.00	0.00			

07315500 RED RIVER NEAR TERRAL, OKLA.

LOCATION. – Lat 33°52′43″, long 97°56′03″, referenced to North American Datum of 1927, Jefferson County, Okla., 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 mi², of which 5,936 mi² is probably noncontributing.

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

REMARKS.—There are many small diversions upstream from station for irrigation, oil field operations, and for municipal uses. Flow regulated by Lake Kemp (station 07312000 in Texas), and since December 1943 by Lake Altus (station 07302500 in Oklahoma). Some additional regulation since 1946 by Lake Kickapoo (station 07314000 in Texas), since 1967 by Lake Arrowhead (station 07314800 in Texas) since 1978 by Waurika Lake; and by numerous floodwater-retarding structures.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1945-2001

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	23,900	108	977	468	3.4
Nov.	9,713	112	1,394	631	4.8
Dec.	11,810	98.0	2,119	803	7.4
Jan.	5,306	106	2,359	1,005	8.2
Feb.	9,320	136	5,897	3,302	20.5
Mar.	14,710	112	5,700	3,497	19.8
Apr.	18,080	142	1,758	982	6.1
May	43,580	134	1,337	645	4.6
Jun.	36,230	268	1,952	849	6.8
Jul.	11,370	103	2,660	1,040	9.2
Aug.	14,730	107	1,503	915	5.2
Sep.	9,653	100	1,132	525	3.9
Annual	8,925	411	2,402	1,963	_

Magnitu	Magnitude and probability of annual instantaneous peak flow based on 63 years of record, 1945-2007								
Discharg	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500			
50 %	20%	10%	4%	2%	1%	0.2%			
42,700	82,600	117,000	169,000	215,000	267,000	414,000			

	Duration table of daily mean flow for period of record, 1945-2007														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
32,200	32,200 21,500 10,300 5,690 3,710 2,530 1,380 868 620 474 368 276 186 140 108 97.									97.0					

Magnitude	and probability of annual le	Magnitude and probability of annual low flow based on period of record, 1946-2001								
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5%						
1	156	97.2	76.5	63.1						
3	163	103	82.4	68.6						
7	174	112	90.0	75.6						
10	180	116	92.9	78.0						
30	231	147	118	99.9						
60	294	179	142	119						

	•	ility of annual low flow based spring season, April 1 through	-	01
	Discharge, in ft³/s, for i	ndicated recurrence interval,	in years, and nonexceedand	e probability, in percent
Period	2	5	10	20
consecutive days)	50 %	20%	10%	5%
1	293	170	134	114
3	308	178	141	119
7	342	192	151	127
10	361	200	158	135
30	818	399	295	238
60	2.830	1 210	764	518

	00			
	Discharge, in ft³/s, for in	ndicated recurrence interval	, in years, and nonexceedanc	e probability, in percent
Period	2	5	10	20
(consecutive days)	50 %	20%	10%	5%
1	179	109	85.7	71.1
3	185	113	89.2	74.4
7	196	120	96.4	82.0
10	203	124	100	85.4
30	284	163	129	109
60	449	236	177	143

		ity of annual low flow based er season, November 1 throu	l on period of record, 1945-20 gh March 31	01
	Discharge, in ft³/s, for ir	dicated recurrence interval	, in years, and nonexceedanc	e probability, in percent
Period	2	5	10	20
(consecutive days)	50 %	20%	10%	5%
1	225	126	95.4	76.9
3	233	134	103	84.4
7	251	146	113	93.5
10	260	150	117	97.1
30	312	177	140	118
60	394	208	159	132

07315700 MUD CREEK NEAR COURTNEY, OKLA.

LOCATION. – Lat 34°00′15″, long 97°34′00″, referenced to North American Datum of 1927, in NW ¼ SE ¼ sec. 25, T.6 S., R.4 W., Jefferson County, Okla., Hydrologic Unit 11130201, on downstream side of bridge on State Highway 89, 4.0 mi downstream from North Mud Creek, 6.0 mi northwest of Courtney, and at mile 11.5.

DRAINAGE AREA. - 572 mi².

PERIOD OF RECORD.-October 1960 to current year.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1961-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,216	0.00	99.4	10.7	4.4
Nov.	1,219	0.00	139	6.82	6.2
Dec.	1,766	0.01	143	21.5	6.3
Jan.	898	0.00	114	15.9	5.0
Feb.	1,251	0.06	172	23.6	7.6
Mar.	1,594	0.00	267	127	11.8
Apr.	3,075	0.16	279	76.5	12.3
May	3,670	0.10	493	142	21.8
Jun.	2,156	0.02	367	137	16.2
Jul.	387	0.00	50.6	7.89	2.2
Aug.	866	0.00	41.9	4.33	1.8
Sep.	571	0.00	97.5	19.3	4.3
Annual	614	1.68	188	124	_

Magnitude a	and probability of	annual instantar	neous peak flow	based on 51 histo	oric years of reco	rd, 1957-2007			
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	100	500							
50 %	20%	10%	4%	2%	1%	0.2%			
5,980	15,500	25,900	45,500	66,100	92,900	188,000			

Duration table of daily mean flow for period of record, 1961-2007															
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
3,910	2,400	973	285	129	76.4	34.6	17.4	8.70	4.38	1.88	0.47	0.02	0.00	0.00	0.00

Magnitude	and probability of annual le	ow flow based on period of r	ecord, 1962-2007							
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	0.00	0.00	0.00	0.00						
3	0.00	0.00	0.00	0.00						
7	0.00	0.00	0.00	0.00						
10	0.00	0.00	0.00	0.00						
30	0.10	0.00	0.00	0.00						
60	0.85	0.00	0.00	0.00						

Magnitude and probability of annual low flow based on period of record, 1961-2007 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period (consecutive days)	2	5	10	20					
	50%	20%	10%	5%					
1	4.83	0.35	0.00	0.00					
3	5.95	0.40	0.00	0.00					
7	6.10	0.59	0.10	0.00					
10	6.55	0.83	0.19	0.01					
30	33.8	5.92	1.85	0.55					
60	184	39.9	15.5	6.57					

Magnitude and probability of annual low flow based on period of record, 1961-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.00	0.00	0.00	0.00				
3	0.00	0.00	0.00	0.00				
7	0.00	0.00	0.00	0.00				
10	0.00	0.00	0.00	0.00				
30	0.12	0.00	0.00	0.00				
60	2.41	0.03	0.00	0.00				

Magnitude and probability of annual low flow based on period of record, 1961-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	0.70	0.00	0.00	0.00				
3	0.83	0.03	0.00	0.00				
7	1.00	0.04	0.00	0.00				
10	1.11	0.05	0.00	0.00				
30	1.91	0.10	0.01	0.00				
60	6.43	0.56	0.14	0.04				

07316000 RED RIVER NEAR GAINESVILLE, TEX.

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, Okla., Hydrologic Unit 11130210, 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, Okla., 7.0 mi north of Gainesville, and at mile 791.5.

DRAINAGE AREA. - 30,782 mi², of which 5,936 mi² is probably noncontributing.

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

REMARKS.—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; and by numerous floodwater-retarding structures.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1945-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	27,710	119	3,298	1,179	8.7
Nov.	13,780	137	2,049	1,056	5.4
Dec.	14,990	141	1,649	732	4.3
Jan.	7,258	126	1,369	567	3.6
Feb.	10,920	151	1,853	916	4.9
Mar.	19,590	159	2,935	1,418	7.7
Apr.	27,400	153	3,201	1,599	8.4
May	47,780	204	7,437	4,179	19.6
Jun.	42,460	296	7,654	4,389	20.1
Jul.	23,390	146	2,475	1,417	6.5
Aug.	20,730	97.5	1,680	707	4.4
Sep.	12,880	108	2,450	1,429	6.4
Annual	11,890	567	3,174	2,562	_

Magnitu	de and probabilit	y of annual instar	ntaneous peak flo	w based on 63 ye	ears of record, 19	45-2007
Discharg	e, in ft³/s, for indi	cated recurrence	interval, in year	s, and exceeden	ce probability, in	percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2%	1%	0.2%
46,000	83,900	115,000	161,000	200,000	244,000	364,000

				Duration	table of	daily me	ean flow	for perio	od of rec	ord, 1945	-2007				
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
42,000	27,800	13,100	7,220	4,600	3,260	1,840	1,210	842	621	466	337	219	168	126	108

Magnitude	and probability of annual l	ow flow based on period of r	ecord, 1946-2007						
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	190	114	87.8	71.2					
3	194	117	90.9	74.3					
7	205	123	95.2	77.6					
10	211	126	97.7	79.6					
30	272	158	120	95.8					
60	353	203	154	125					

Magnitude and probability of annual low flow based on period of record, 1945-2007	
spring season, April 1 through May 31	

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	410	235	185	156				
3	428	244	192	161				
7	486	264	202	166				
10	514	273	208	171				
30	1,090	526	383	304				
60	3,330	1,480	966	676				

Magnitude and probability of annual low flow based on period of record, 1945-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5 %				
1	207	118	90.9	74.3				
3	212	122	94.0	77.3				
7	226	129	99.1	81.2				
10	237	134	103	83.6				
30	328	173	129	103				
60	508	254	184	144				

Magnitude and probability of annual low flow based on period of record, 1945-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	301	169	128	103				
3	308	173	132	106				
7	330	184	139	111				
10	340	189	144	116				
30	400	220	168	139				
60	520	264	196	157				

07316500 WASHITA RIVER NEAR CHEYENNE, OKLA.

LOCATION. – Lat 35°37′35″, long 99°40′05″, referenced to North American Datum of 1927, in SE ¼ sec. 5, T.13 N., R.23 W., Roger Mills County, Okla., Hydrologic Unit 11130301, on left bank on downstream side of bridge on U.S. Highway 283, 0.5 mi downstream from Sergeant Major Creek, 1.0 mi north of Cheyenne, 5.2 mi upstream from Dead Indian Creek, and at mile 543.9.

DRAINAGE AREA. - 794 mi².

PERIOD OF RECORD.-October 1937 to current year. Monthly discharge only for some periods, published in WSP 1311.

REMARKS.-Flow regulated since 1961 by numerous floodwater-retarding structures.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1938-1960

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	248	0.00	31.3	3.40	6.3
Nov.	61.6	0.00	10.7	1.29	2.1
Dec.	64.5	0.00	13.0	8.54	2.6
Jan.	52.1	0.00	13.7	10.6	2.7
Feb.	43.5	0.00	16.0	15.0	3.2
Mar.	91.1	0.00	21.5	18.0	4.3
Apr.	305	0.24	56.3	37.8	11.3
May	724	2.59	162	67.3	32.4
Jun.	462	0.22	117	49.3	23.5
Jul.	130	0.00	27.0	20.0	5.4
Aug.	110	0.00	20.4	3.12	4.1
Sep.	87.7	0.00	9.89	1.93	2.0
Annual	122	4.94	41.7	31.2	_

Magnitude and probability of annual instantaneous peak flow based on 27 historic years of record, 1934-1960									
Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, i	n percent			
2	5	10	25	50	100	500			
50 %	20%	10%	4%	2%	1%	0.2%			
5,610	15,500	26,600	47,200	68,700	96,300	192,000			

	Duration table of daily mean flow for period of record, 1938-1960														
			Discha	rge, in fl	³/s, whic	ch was e	qualed o	r excee	led for in	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
688	367	145	64.5	44.1	33.2	21.0	12.9	6.33	1.20	0.04	0.03	0.01	0.01	0.00	0.00

Magnitude and probability of annual low flow based on period of record, 1939-1960									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.00	0.00	0.00	0.00					
60	0.00	0.00	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1938-1960 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50%	20%	10%	5%					
1	2.32	0.00	0.00	0.00					
3	4.30	0.00	0.00	0.00					
7	4.84	0.45	0.00	0.00					
10	6.54	1.22	0.00	0.00					
30	24.2	5.92	2.45	1.10					
60	62.2	21.0	11.6	6.97					

Magnitude and probability of annual low flow based on period of record, 1938-1959 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.00	0.00	0.00	0.00					
60	1.75	0.00	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1938-1960 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.06	0.00	0.00	0.00					
30	0.62	0.00	0.00	0.00					
60	3.30	0.00	0.00	0.00					

07316500 WASHITA RIVER NEAR CHEYENNE, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1961-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	144	0.00	13.0	2.21	5.1
Nov.	64.3	0.00	11.7	6.43	4.6
Dec.	67.7	0.00	14.0	11.2	5.5
Jan.	80.7	0.03	17.7	15.5	7.0
Feb.	71.0	1.50	21.9	18.9	8.6
Mar.	138	2.22	29.1	21.1	11.4
Apr.	146	1.08	33.8	23.0	13.3
May	348	0.00	49.1	27.1	19.3
Jun.	203	0.00	41.2	25.9	16.2
Jul.	61.7	0.00	9.64	5.66	3.8
Aug.	32.8	0.00	5.19	0.98	2.0
Sep.	122	0.00	7.88	0.89	3.1
Annual	64.0	2.60	21.1	15.3	_

Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceede	nce probability, i	n percent
2	5	10	25	50	100	500
15%	5%	10%	4%	2%	1%	0.2%

	Duration table of daily mean flow for period of record, 1961-2007														
			Discha	rge, in ft	³/s, whic	h was e	qualed o	r excee	ded for i	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
204	125	71.9	48.3	36.5	29.7	20.7	14.8	9.33	5.05	2.41	0.13	0.00	0.00	0.00	0.00

Magnitude and probability of annual low flow based on period of record, 1962-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period (consecutive days)	2	5	10	20					
	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.00	0.00	0.00	0.00					
60	0.19	0.00	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1961-2007 spring season, April 1 through May 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	4.66	0.37	0.00	0.00					
3	5.48	0.60	0.00	0.00					
7	6.76	0.63	0.02	0.00					
10	7.06	0.79	0.15	0.02					
30	15.6	5.71	3.03	1.60					
60	30.1	11.4	6.25	3.60					

Magnitude and probability of annual low flow based on period of record, 1961-2006 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5 %			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.00	0.00	0.00	0.00			
60	0.21	0.00	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1961-2007 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50%	20%	10%	5%			
1	2.90	0.00	0.00	0.00			
3	3.10	0.00	0.00	0.00			
7	3.22	0.00	0.00	0.00			
10	3.27	0.06	0.00	0.00			
30	5.55	0.64	0.00	0.00			
60	8.35	1.88	0.29	0.00			

07319500 SANDSTONE CREEK NEAR BERLIN, OKLA.

LOCATION. – Lat 35°30′26″, long 99°33′27″, referenced to North American Datum of 1927, on west line of NW ¼ NW ¼ sec. 20, T.12 N., R.22W., Beckham County, Okla., Hydrologic Unit 11130301, on left bank 50 ft downstream from county road bridge, 5.5 mi northeast of Berlin.

DRAINAGE AREA. – 44.9 mi², of which 4.0 mi² is probably noncontributing.

PERIOD OF RECORD.-October 1952 to September 1972.

REMARKS.-Flow is regulated since 1951 by numerous floodwater-retarding structures.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1953-1972

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	15.8	0.00	2.81	1.01	6.4
Nov.	7.07	0.00	1.96	1.27	4.5
Dec.	9.35	0.00	2.28	1.37	5.2
Jan.	7.83	0.00	2.22	1.28	5.1
Feb.	14.4	0.00	2.74	1.44	6.2
Mar.	10.5	0.00	2.40	1.81	5.4
Apr.	21.6	0.14	4.50	2.38	10.2
May	70.3	0.03	11.8	4.29	26.9
Jun.	30.2	0.32	7.24	6.01	16.5
Jul.	13.3	0.08	2.78	1.05	6.3
Aug.	8.13	0.00	1.43	0.83	3.3
Sep.	9.21	0.00	1.80	0.66	4.1
Annual	8.58	0.19	3.67	2.76	-

Dischar	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500			
50%	20%	10%	4%	2 %	1%	0.2%			
670	1,540	2,440	4,080	5,760	7,910	15			

	Duration table of daily mean flow for period of record, 1953-1972														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
52.3	24.3	9.05	5.96	4.37	3.37	2.26	1.67	1.28	0.95	0.66	0.36	0.00	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1954-1972							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.06	0.00	0.00	0.00				
3	0.09	0.00	0.00	0.00				
7	0.10	0.00	0.00	0.00				
10	0.14	0.00	0.00	0.00				
30	0.36	0.00	0.00	0.00				
60	0.42	0.05	0.01	0.00				

Magnitude and probability of annual low flow based on period of record, 1953-1972 spring season, April 1 through May 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5 %				
1	0.68	0.23	0.00	0.00				
3	0.82	0.27	0.00	0.00				
7	1.04	0.31	0.06	0.00				
10	1.08	0.34	0.13	0.00				
30	1.86	0.63	0.33	0.00				
60	3.73	1.00	0.47	0.24				

Magnitude and probability of annual low flow based on period of record, 1953-1971 summer season, June 1 through Octob								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.06	0.00	0.00	0.00				
3	0.10	0.00	0.00	0.00				
7	0.10	0.00	0.00	0.00				
10	0.14	0.00	0.00	0.00				
30	0.37	0.00	0.00	0.00				
60	0.54	0.07	0.01	0.00				

Magnitude and probability of annual low flow based on period of record, 1953-1972 winter season, November 1 through March 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.57	0.13	0.00	0.00				
3	0.68	0.18	0.00	0.00				
7	0.87	0.27	0.00	0.00				
10	0.92	0.28	0.00	0.00				
30	1.21	0.29	0.00	0.00				
60	1.46	0.29	0.07	0.00				

07323000 SANDSTONE CREEK NEAR CHEYENNE, OKLA.

LOCATION. – Lat 35°33′10″, long 99°31′50″, referenced to North American Datum of 1927, on west line of NW ¼ NW ¼ sec. 20, T.12 N., R.22W., Roger Mills County, Okla., Hydrologic Unit 11130301, on left bank 50 ft downstream from county road bridge, 5.5 mi northeast of Berlin.

DRAINAGE AREA. – 87.1 mi².

PERIOD OF RECORD.-October 1951 to June 1974.

REMARKS.-Some diversion for irrigation above station. Flow regulated since 1951 by numerous floodwater-retarding structures.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1952-1974

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	32.7	0.00	5.83	2.38	7.7
Nov.	14.4	0.04	3.39	1.79	4.5
Dec.	22.6	0.05	4.11	2.22	5.5
Jan.	16.7	0.03	3.54	2.23	4.7
Feb.	33.0	0.10	4.49	2.19	6.0
Mar.	24.4	0.17	4.22	2.68	5.6
Apr.	42.3	0.00	8.01	4.78	10.6
May	127	0.00	17.6	7.98	23.3
Jun.	62.7	0.50	11.5	8.14	15.3
Jul.	29.4	0.00	5.25	1.89	7.0
Aug.	25.2	0.00	3.32	1.32	4.4
Sep.	16.2	0.00	4.02	1.77	5.3
Annual	17.2	0.69	6.33	4.95	_

Magnitu	de and probabili	ty of annual insta	ntaneous peak fl	ow based on 23 y	ears of record, 1	951-1973
Discharç	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, i	n percent
2	5	10	25	50	100	500
50%	20%	10%	4%	2%	1%	0.2%
1,250	2,520	3,560	5,060	6,300	7,610	11,000

	Duration table of daily mean flow for period of record, 1952-1974														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
85.5	44.4	19.1	10.7	7.88	6.19	4.12	2.83	1.94	1.28	0.70	0.27	0.00	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1953-1974								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50%	20%	10%	5%					
1	0.06	0.00	0.00	0.00					
3	0.06	0.00	0.00	0.00					
7	0.11	0.00	0.00	0.00					
10	0.13	0.00	0.00	0.00					
30	0.26	0.00	0.00	0.00					
60	0.52	0.03	0.00	0.00					

Magnitude and	Magnitude and probability of annual low flow based on period of record, 1952-1974 spring season, April 1 through May 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
consecutive days)	50 %	20%	10%	5%						
1	0.90	0.23	0.05	0.00						
3	0.97	0.24	0.05	0.00						
7	1.12	0.28	0.06	0.00						
10	1.28	0.33	0.06	0.00						
30	3.10	0.81	0.33	0.07						
60	6.47	2.16	1.10	0.37						

Magnitude and probability of annual low flow based on period of record, 1952-1973 summer season, June 1 through October 31										
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5%						
1	0.08	0.00	0.00	0.00						
3	0.09	0.00	0.00	0.00						
7	0.13	0.00	0.00	0.00						
10	0.15	0.00	0.00	0.00						
30	0.30	0.00	0.00	0.00						
60	0.67	0.10	0.00	0.00						

Magnitude and probability of annual low flow based on period of record, 1952-1974 winter season, November 1 through March 31										
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5 %						
1	0.82	0.00	0.00	0.00						
3	0.95	0.07	0.00	0.00						
7	1.11	0.10	0.00	0.00						
10	1.25	0.12	0.00	0.00						
30	1.33	0.26	0.10	0.04						
60	1.73	0.38	0.15	0.06						

07324200 WASHITA RIVER NEAR HAMMON, OKLA.

LOCATION. – Lat 35°39′23″, long 99°18′21″, referenced to North American Datum of 1927, in sec. 26, T.14 N., R.20 W., Custer County, Okla., Hydrologic Unit 11130301, on right bank near county road bridge, 2.2 mi downstream from Quartermaster Creek, 4.7 mi northeast of Hammon, and at mile 494.5.

DRAINAGE AREA. – 1,387 mi².

PERIOD OF RECORD.-October 1969 to September 1987, October 1989 to current year.

REMARKS.-Flow regulated since 1961 by numerous floodwater-retarding structures.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1970-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	384	0.00	36.5	8.81	4.7
Nov.	254	0.00	41.0	16.0	5.3
Dec.	258	0.00	37.0	20.6	4.8
Jan.	342	0.00	45.5	25.9	5.9
Feb.	299	0.00	52.8	30.9	6.8
Mar.	548	0.00	77.0	42.4	10.0
Apr.	528	0.00	91.8	52.1	11.9
May	755	0.01	158	61.2	20.4
Jun.	502	0.00	129	99.5	16.7
Jul.	158	0.03	37.7	29.8	4.9
Aug.	170	0.00	27.3	14.1	3.5
Sep.	450	0.00	40.0	12.4	5.2
Annual	262	0.49	64.4	38.1	_

Magnitude and probability of annual instantaneous peak flow based on 36 years of record, 1970-2007 Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2 5 10 25 50 100								
50%	20%	10%	4%	2%	1%	0.2%		
1,090	2,180	3,080	4,400	5,490	6,680	9,780		

	Duration table of daily mean flow for period of record, 1970-2007														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
735	462	260	149	103	79.0	50.3	35.0	24.5	16.0	8.97	2.83	0.19	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1971-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
consecutive days)	50 %	20%	10%	5%						
1	1.01	0.00	0.00	0.00						
3	1.10	0.00	0.00	0.00						
7	1.30	0.00	0.00	0.00						
10	1.44	0.00	0.00	0.00						
30	2.19	0.10	0.00	0.00						
60	4.66	0.31	0.02	0.00						

Magnitude and probability of annual low flow based on period of record, 1970-2007 spring season, April 1 through May 31										
_	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	17.0	2.85	0.68	0.00						
3	18.1	3.14	0.77	0.00						
7	20.3	3.86	1.08	0.00						
10	22.2	4.43	1.28	0.00						
30	61.6	10.8	1.79	0.15						
60	97.5	21.7	6.93	2.21						

Magnitude and probability of annual low flow based on period of record, 1970-2006 summer season, June 1 through Octobe								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	1.36	0.00	0.00	0.00				
3	1.46	0.00	0.00	0.00				
7	1.64	0.00	0.00	0.00				
10	1.79	0.00	0.00	0.00				
30	2.19	0.10	0.01	0.00				
60	4.66	0.32	0.05	0.01				

_	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	7.57	0.82	0.00	0.00				
3	9.61	0.82	0.02	0.00				
7	9.75	0.83	0.04	0.00				
10	9.98	0.92	0.06	0.00				
30	12.9	1.61	0.15	0.00				
60	20.6	2.29	0.31	0.00				

07324400 WASHITA RIVER NEAR FOSS, OKLA.

LOCATION. – Lat 35°32′20″, long 99°10′10″, referenced to North American Datum of 1927, in SW ¼ SW ¼ sec. 1, T.12 N., R.19 W., Custer County, Okla., Hydrologic Unit 11130302, on right bank at downstream side county road bridge, 0.4 mi downstream from Oak Creek, 0.9 mi downstream from Foss Dam, 2.5 mi west of Stafford, 6.0 mi north of Foss, and at mile 473.5.

DRAINAGE AREA. - 1,551 mi².

PERIOD OF RECORD.—March 1956 to April 1957, February to December 1958, July 1961 to September 1987, October 1989 to current year.

REMARKS.-Flow completely regulated since 1961 by Foss Reservoir (station 07324300), except for 55 mi² intervening area.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1962-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	598	0.15	47.3	6.92	6.8
Nov.	278	0.28	25.6	7.87	3.6
Dec.	298	0.36	25.2	7.28	3.6
Jan.	633	0.56	45.9	7.08	6.6
Feb.	342	0.60	44.7	6.82	6.4
Mar.	297	0.57	49.3	9.30	7.0
Apr.	607	1.62	70.8	11.2	10.1
May	622	1.08	108	18.4	15.5
Jun.	763	1.28	141	25.8	20.1
Jul.	385	2.27	58.1	11.8	8.3
Aug.	579	3.12	49.5	9.66	7.1
Sep.	444	0.46	35.4	7.08	5.0
Annual	373	3.87	58.5	20.9	_

Magnitude and probability of annual instantaneous peak flow based on 44 years of record, 1962-2007								
Dischar	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent							
2	5	10	25	50	100	500		
50 %	20%	10%	4%	2%	1%	0.2%		
857	1,470	1,880	2,400	2,770	3,120	3,900		

				Duratio	on table	of daily r	nean flo	w for pe	iod of re	cord, 19	62-2007				
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70 %	80%	90%	95%	98%	99%
779	616	397	205	78.1	23.9	12.4	9.54	7.61	6.39	5.23	4.21	2.53	1.06	0.39	0.27

Magnitude	Magnitude and probability of annual low flow based on period of record, 1963-2007							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	2.29	0.67	0.30	0.14				
3	2.50	0.76	0.35	0.17				
7	2.77	0.87	0.41	0.20				
10	2.94	0.96	0.46	0.23				
30	3.43	1.19	0.66	0.40				
60	4.22	1.62	0.96	0.61				

Magnitude and probability of annual low flow based on period of record, 1962-2007 spring season, April 1 through May 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	4.60	1.73	1.06	0.71				
3	4.84	1.92	1.21	0.84				
7	5.66	2.16	1.42	1.04				
10	6.14	2.26	1.47	1.09				
30	10.3	3.52	2.25	1.64				
60	26.4	7.38	3.96	2.42				

Magnitude and probability of annual low flow based on period of record, 1962-2006 summer season, June 1 through Octol								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
consecutive days)	50 %	20%	10%	5%				
1	2.71	0.76	0.33	0.15				
3	2.92	0.86	0.38	0.18				
7	3.16	0.97	0.44	0.21				
10	3.36	1.08	0.50	0.24				
30	3.78	1.22	0.68	0.42				
60	4.74	2.02	1.42	1.10				

	Discharge, in ft³/s, for in	idicated recurrence interval,	in years, and nonexceedance	e probability, in percent	
Period	2	5	10	20	
consecutive days)	50 %	20%	10%	5%	
1	4.03	1.61	0.91	0.54	
3	4.44	1.89	1.11	0.68	
7	4.45	1.91	1.21	0.82	
10	4.48	1.95	1.27	0.90	
30	5.18	2.28	1.52	1.11	
60	5.68	2.35	1.62	1.25	

07325000 WASHITA RIVER NEAR CLINTON, OKLA.

LOCATION. – Lat 35°31′51″, long 98°58′00″, referenced to North American Datum of 1927, in SW ¼ NE ¼ sec. 11, T.12 N., R.17 W., Custer County, Okla., Hydrologic Unit 11130302, on downstream side of bridge on U.S. Highway 183, 0.5 mi north of Clinton, 0.8 mi upstream from Beaver Creek, 4.8 mi downstream from Barnitz Creek, and at mile 447.4.

DRAINAGE AREA. - 1,977 mi².

PERIOD OF RECORD.-October 1935 to current year. Monthly discharge only for some periods, published in WSP 1311.

REMARKS.-Flow regulated since February 1961 by Foss Reservoir (station 07324300) and by numerous floodwater-retarding structures.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1936-1960

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	906	0.07	122	28.9	7.0
Nov.	267	0.21	44.1	22.4	2.5
Dec.	250	1.40	35.5	14.4	2.0
Jan.	164	0.56	36.1	22.5	2.1
Feb.	412	2.07	59.1	24.0	3.4
Mar.	252	1.55	54.4	28.3	3.1
Apr.	882	2.70	208	122	11.9
May	1,859	16.8	543	210	31.0
Jun.	1,232	18.7	364	248	20.8
Jul.	581	0.37	135	110	7.7
Aug.	311	0.00	76.8	60.9	4.4
Sep.	367	0.00	73.5	18.8	4.2
Annual	341	22.5	146	121	_

Magnitu	ıde and probability	of annual instant	aneous peak flov	v based on 27 ye	ars of record, 193	4-1960				
Dischar	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2 5 10 25 50 100										
50 %	20%	10%	4%	2%	1%	0.2%				
7,650	18,200	30,000	53,100	78,500	113,000	247,000				

				Duration	table of	daily m	ean flow	for perio	od of rec	ord, 1936	6-1960				
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
2,390	1,490	551	240	155	111	60.6	38.2	25.0	16.8	11.0	5.88	2.27	0.68	0.05	0.02

Magnitude	Magnitude and probability of annual low flow based on period of record, 1937-1960									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5 %						
1	2.91	0.00	0.00	0.00						
3	3.58	0.14	0.00	0.00						
7	3.60	0.27	0.00	0.00						
10	3.62	0.32	0.00	0.00						
30	6.76	1.14	0.00	0.00						
60	11.1	2.52	0.52	0.00						

Magnitude and	Magnitude and probability of annual low flow based on period of record, 1936-1960 spring season, April 1 through May 31								
	Discharge, in ft³/s, for in	ndicated recurrence interval,	in years, and nonexceedanc	e probability, in percent					
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	13.6	2.19	0.50	0.04					
3	14.6	2.60	0.79	0.25					
7	16.5	3.14	1.03	0.36					
10	19.5	3.96	1.37	0.50					
30	62.9	15.3	6.62	3.13					
60	236	79.7	42.8	24.9					

Magnitude and pro	Magnitude and probability of annual low flow based on period of record, 1936-1959 summer season, June 1 through October 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	3.08	0.00	0.00	0.00						
3	3.63	0.14	0.00	0.00						
7	3.65	0.27	0.00	0.00						
10	3.66	0.32	0.00	0.00						
30	7.34	1.14	0.00	0.00						
60	21.4	4.07	0.65	0.00						

Magnitude and probability of annual low flow based on period of record, 1936-1960 winter season, November 1 through March 31									
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedand	e probability, in percent					
Period (consecutive days)	2	5	10	20					
	50 %	20%	10%	5 %					
1	7.44	1.34	0.37	0.05					
3	7.87	1.46	0.49	0.18					
7	9.20	2.08	0.81	0.34					
10	9.79	2.23	0.87	0.36					
30	12.0	3.09	1.33	0.62					
60	13.4	4.14	2.16	1.24					

07325000 WASHITA RIVER NEAR CLINTON, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1962-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	1,477	3.30	106	28.4	7.1
Nov.	494	4.23	74.0	31.4	5.0
Dec.	504	5.68	61.7	31.0	4.2
Jan.	742	4.78	79.2	30.1	5.4
Feb.	574	7.00	90.4	32.0	6.1
Mar.	654	6.24	109	45.2	7.4
Apr.	1,112	9.64	135	46.4	9.1
May	1,256	4.10	230	87.6	15.5
Jun.	1,190	4.44	255	116	17.2
Jul.	705	6.42	114	43.1	7.7
Aug.	1,061	6.01	107	32.0	7.2
Sep.	1,519	5.87	119	27.5	8.0
Annual	696	13.8	123	71.0	_

Magn	itude and probabi	lity of annual insta	antaneous peak fl	ow based on 46 ye	ears of record, 196	2-2007			
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500			
15%	5%	10%	4%	2 %	1%	0.2%			
2,020	4,080	5,820	8,400	10,600	13,000	19,500			

	Duration table of daily mean flow for period of record, 1962-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2 %	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
1,190	972	600	359	210	128	64.5	43.6	33.0	25.5	20.0	14.6	8.90	5.63	3.43	2.33

Magnitude	Magnitude and probability of annual low flow based on period of record, 1963-2007								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	8.85	2.26	0.81	0.10					
3	9.58	2.61	1.02	0.37					
7	11.1	3.02	1.25	0.54					
10	11.2	3.39	1.64	0.84					
30	11.2	5.50	3.99	3.14					
60	14.7	7.79	5.94	4.88					

Magnitude and	Magnitude and probability of annual low flow based on period of record, 1962-2007 spring season, April 1 through May 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50%	20%	10%	5%					
1	24.3	7.99	4.22	2.41					
3	24.7	9.04	5.28	3.36					
7	26.3	9.75	6.07	4.20					
10	28.4	10.6	6.64	4.63					
30	41.8	16.1	10.3	7.29					
60	91.1	33.8	20.3	13.4					

Magnitude and probability of annual low flow based on period of record, 1962-2006 summer season, June 1 through October 31									
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	9.25	2.34	0.84	0.12					
3	9.96	2.63	1.02	0.37					
7	11.1	3.04	1.25	0.54					
10	11.2	3.46	1.66	0.85					
30	11.6	5.51	4.08	3.31					
60	17.1	9.15	7.34	6.41					

Magnitude and probability of annual low flow based on period of record, 1962-2007 winter season, November 1 through March 31				
Period (consecutive days)	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent			
	2 50%	5 20%	10 10%	20 5%
3	18.6	8.79	6.02	4.43
7	19.7	9.39	6.50	4.85
10	20.0	9.64	6.76	5.10
30	24.0	11.4	7.90	5.92
60	26.5	12.3	8.70	6.68

07325500 WASHITA RIVER AT CARNEGIE, OKLA.

LOCATION. – Lat 35°07′02″, long 98°33′49″, referenced to North American Datum of 1927, in NW ¼ NW ¼ sec. 3, T.7 N., R.13 W., Caddo County, Okla., Hydrologic Unit 11130302, on downstream side of left abutment of bridge on State Highway 9, 1,300 ft upstream from Running Creek, 2.7 mi east of Carnegie, and at mile 353.9. Records include flow of Running Creek.

DRAINAGE AREA. - 3,129 mi².

PERIOD OF RECORD.-October 1937 to September 2006.

REMARKS.—Some diversion for irrigation upstream from station. October 1942 to May 1949, occasional fluctuation caused by powerplant at Carnegie, 7.5 mi upstream from station. Flow regulated by Foss Reservoir since February 1961 (station 07324300), and by numerous flood-retarding structures.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1938-1960

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	2,053	4.12	332	74.5	8.8
Nov.	431	10.8	93.2	58.0	2.5
Dec.	636	15.4	98.4	55.1	2.6
Jan.	385	15.1	85.6	57.4	2.3
Feb.	913	13.4	127	59.7	3.4
Mar.	438	16.0	120	73.8	3.2
Apr.	2,028	29.2	455	187	12.1
May	3,359	42.0	1,045	375	27.8
Jun.	2,561	66.2	752	532	20.0
Jul.	1,349	38.9	349	224	9.3
Aug.	868	3.87	170	131	4.5
Sep.	584	1.42	127	75.5	3.4
Annual	706	87.5	314	280	-

Magnitude a	and probability of	annual instantar	neous peak flow	based on 48 histo	oric years of reco	rd, 1913-1960
Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, i	n percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2%	1%	0.2%
6,970	12,800	18,100	26,600	34,500	44,000	73,400

Water Resources Council weighted skew = 0.380

	Duration table of daily mean flow for period of record, 1938-1960														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
4,760	3,190	1,430	582	353	251	146	95.1	69.8	55.8	43.3	31.0	18.7	13.3	6.73	3.68

Magnitude	Magnitude and probability of annual low flow based on period of record, 1939-1960									
	Discharge, in ft³/s, for i	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	2 5 10								
(consecutive days)	50%	20%	10%	5%						
1	21.2	6.21	2.33	0.85						
3	20.5	6.60	2.91	1.31						
7	22.0	7.38	3.79	2.01						
10	23.0	7.84	4.04	2.15						
30	30.5	10.6	5.46	2.99						
60	42.7	14.4	7.06	3.62						

Magnitude and	Magnitude and probability of annual low flow based on period of record, 1938-1960 spring season, April 1 through May 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability									
Period	2	5	10	20						
consecutive days)	50%	20%	10%	5%						
1	38.8	18.7	12.7	9.28						
3	42.2	20.9	14.4	10.6						
7	48.3	24.2	17.1	13.0						
10	52.9	26.5	18.8	14.2						
30	132	55.8	36.9	26.8						
60	497	199	121	78.8						

	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in perce							
Period	2	5	10	20					
consecutive days)	50 %	20%	10%	5%					
1	23.6	6.42	2.35	0.85					
3	24.5	6.85	2.96	1.31					
7	26.0	7.56	3.80	2.01					
10	27.0	8.05	4.06	2.15					
30	33.2	11.0	5.58	3.02					
60	63.0	17.8	7.93	3.76					

Magnitude and prob	Magnitude and probability of annual low flow based on period of record, 1938-1960 winter season, November 1 through March 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
consecutive days)	50 %	20%	10%	5%						
1	29.7	15.0	10.4	7.57						
3	32.1	16.0	11.0	7.90						
7	34.0	17.0	11.8	8.69						
10	34.6	17.5	12.3	9.22						
30	39.0	21.1	15.4	12.0						
60	43.9	23.6	17.9	14.6						

07325500 WASHITA RIVER AT CARNEGIE, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1962-2006

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	5,311	21.8	408	156	8.8
Nov.	1,471	27.3	292	165	6.3
Dec.	1,032	33.6	221	153	4.8
Jan.	1,100	36.0	219	141	4.7
Feb.	1,127	36.6	244	150	5.3
Mar.	2,255	34.2	388	174	8.4
Apr.	2,832	11.1	386	213	8.3
May	5,356	10.0	783	376	16.9
Jun.	4,994	94.0	808	493	17.4
Jul.	1,150	7.10	280	143	6.1
Aug.	1,760	14.6	256	144	5.5
Sep.	2,468	15.6	343	124	7.4
Annual	1,432	72.8	386	295	_

Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	ice probability, ir	ı percent
2	5	10	25	50	100	500
15%	5%	10%	4%	2%	1%	0.2%

	Duration table of daily mean flow for period of record, 1962-2007														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30 %	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
4,390	2,860	1,520	857	602	447	261	182	138	110	85.6	61.8	39.4	27.5	17.2	10.4

Magnitude	Magnitude and probability of annual low flow based on period of record, 1963-2006									
	Discharge, in ft³/s, for in	$Discharge, in \ ft^3/s, for \ indicated \ recurrence \ interval, in \ years, and \ nonexceedance \ probability, in \ percent$								
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	36.9	9.28	3.33	1.08						
3	37.3	10.0	3.86	1.37						
7	39.5	11.7	4.99	1.98						
10	40.7	13.2	6.17	2.77						
30	51.6	22.6	14.3	9.66						
60	69.3	35.5	24.9	18.6						

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50%	20%	10%	5%				
1	116	44.6	23.4	12.7				
3	116	46.5	25.8	14.9				
7	120	48.7	28.6	17.8				
10	123	50.6	30.5	19.6				
30	179	79.6	52.4	37.1				
60	385	153	89.7	56.3				

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	37.8	9.28	3.33	1.08				
3	38.2	10.0	3.86	1.37				
7	40.5	11.7	4.95	1.98				
10	41.8	13.4	6.32	2.88				
30	53.3	23.2	15.2	10.8				
60	76.8	38.1	28.0	22.3				

Magnitude and probability of annual low flow based on period of record, 1962-2006 winter season, November 1 through March 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5 %				
1	72.4	38.2	27.9	21.7				
3	78.8	41.9	30.5	23.5				
7	83.8	44.6	32.4	24.9				
10	86.2	46.0	33.4	25.7				
30	102	55.1	40.6	31.8				
60	116	61.7	45.6	36.0				

07325800 COBB CREEK NEAR EAKLY, OKLA.

LOCATION. – Lat 35°17′26″, long 98°35′38″, referenced to North American Datum of 1927, in NW ¼ NE ¼ sec. 5, T.9 N., R.13 W., Caddo County, Okla., Hydrologic Unit 11130302, near left downstream abutment of bridge, on State Highway 152, 0.5 mi downstream from Fivemile Creek, 2.4 mi southwest of Eakly, 3.0 mi upstream from Fort Cobb Reservoir, and at mile 22.9.

DRAINAGE AREA. - 132 mi².

PERIOD OF RECORD.-October 1968 to current year.

REMARKS.-Flow regulated since 1957 by numerous floodwater-retarding structures.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1969-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	317	4.34	28.4	14.7	7.9
Nov.	104	6.11	26.3	18.2	7.3
Dec.	84.9	4.88	24.1	18.4	6.7
Jan.	50.2	8.78	21.0	19.9	5.8
Feb.	55.1	8.99	21.6	18.5	6.0
Mar.	138	8.38	34.4	23.3	9.6
Apr.	140	5.27	28.4	21.1	7.9
May	303	2.79	57.5	34.0	16.0
Jun.	292	7.84	58.4	32.5	16.2
Jul.	85.1	1.01	17.0	9.66	4.7
Aug.	205	0.90	22.9	9.81	6.4
Sep.	161	2.15	20.5	11.4	5.7
Annual	91.0	10.1	30.1	25.3	_

Magnitu	ide and probabili	ty of annual insta	antaneous peak fl	ow based on 39 y	ears of record, 1	969-2007
Discharç	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, i	n percent
2	5	10	25	50	100	500
50%	20%	10%	4%	2%	1%	0.2%
2,150	4,690	7,110	11,100	14,900	19,400	33,200

Duration table of daily mean flow for period of record, 1969-2007															
			Discha	rge, in ft	³/s, whic	h was e	qualed o	r excee	led for in	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
325	210	71.3	40.0	32.2	27.7	22.8	18.8	15.7	13.3	11.1	8.36	5.31	3.68	2.26	1.17

Magnitude and probability of annual low flow based on period of record, 1970-2007							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	4.08	1.24	0.39	0.00			
3	4.44	1.32	0.54	0.17			
7	4.65	1.53	0.64	0.27			
10	4.78	1.75	0.86	0.43			
30	6.02	2.94	1.90	1.28			
60	7.43	4.13	3.01	2.30			

Magnitude and	probability of annual low flow based on period of record, 1969-2007 spring season, April 1 through May 31 Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50%	20%	10%	5%			
1	11.3	7.14	5.40	4.06			
3	11.7	7.53	5.78	4.44			
7	13.0	8.00	6.00	5.20			
10	14.0	8.60	6.50	5.50			
30	18.6	10.8	8.00	6.18			
60	31.6	16.2	11.5	8.61			

Magnitude and probability of annual low flow based on period of record, 1969-2006 summer season, June 1 through October 31							
_	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5 %			
1	4.59	1.24	0.39	0.10			
3	4.44	1.32	0.55	0.23			
7	4.65	1.60	0.77	0.38			
10	4.78	1.80	0.95	0.52			
30	6.15	3.00	1.94	1.32			
60	7.70	4.19	3.06	2.36			

	Discharge, in ft³/s, for in	ndicated recurrence interval,	in years, and nonexceedand	e probability, in percent	
Period	2	5	10	20	
(consecutive days)	50 %	20%	10%	5%	
1	11.8	7.49	5.75	4.57	
3	12.2	7.90	6.15	4.94	
7	12.9	8.50	6.70	5.45	
10	13.2	8.74	6.92	5.64	
30	14.7	9.84	7.86	6.48	
60	16.2	11.0	8.85	7.37	

07325850 LAKE CREEK NEAR EAKLY, OKLA.

LOCATION. – Lat 35°17′27″, long 98°31′44″, referenced to North American Datum of 1927, in NE ¼ NW ¼ sec. 1, T.9 N., R.13 W., Caddo County, Okla., Hydrologic Unit 11130302, on downstream side of bridge on State Highway 152, 2.0 mi southeast of Eakly, 2.7 mi upstream from Fort Cobb Reservoir, and at mile 4.2.

DRAINAGE AREA. - 59.6 mi².

PERIOD OF RECORD.-October 1969 to June 1978, December 2004 to current year.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1970-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	8.04	0.03	2.79	2.01	2.9
Nov.	33.8	0.08	5.70	2.87	5.9
Dec.	12.1	0.32	4.39	3.37	4.5
Jan.	10.8	1.73	4.96	4.20	5.1
Feb.	14.3	2.99	5.84	4.63	6.0
Mar.	36.9	1.91	9.09	5.54	9.4
Apr.	20.0	1.08	7.19	4.42	7.4
May	139	1.38	21.2	5.04	21.9
Jun.	52.7	0.66	14.2	8.02	14.7
Jul.	41.2	0.00	6.49	1.93	6.7
Aug.	93.2	0.00	12.0	1.31	12.4
Sep.	10.5	0.00	2.95	2.24	3.0
Annual	19.7	3.17	8.34	5.47	_

Magnitude and probability of annual instantaneous peak flow based on 12 years of record, 1970-2007 Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500			
50%	20%	10%	4%	2%	1%	0.2%			
867	2,720	5,240	11,100	18,500	29,900	83,000			

	Duration table of daily mean flow for period of record, 1970-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
122	63.6	20.3	9.89	7.30	5.93	4.70	3.72	2.88	2.09	1.26	0.35	0.02	0.00	0.00	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1971-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5%						
1	0.00	0.00	0.00	0.00						
3	0.00	0.00	0.00	0.00						
7	0.00	0.00	0.00	0.00						
10	0.00	0.00	0.00	0.00						
30	0.05	0.00	0.00	0.00						
60	0.32	0.04	0.00	0.00						

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period (consecutive days)	2	5	10	20					
	50 %	20%	10%	5%					
1	0.63	0.05	0.00	0.00					
3	0.77	0.08	0.00	0.00					
7	1.01	0.17	0.05	0.02					
10	1.32	0.23	0.07	0.02					
30	4.02	1.63	0.79	0.37					
60	8.41	2.92	1.59	0.94					

Magnitude and probability of annual low flow based on period of record, 1970-2006 summer season, June 1 through October 31										
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5%						
1	0.00	0.00	0.00	0.00						
3	0.00	0.00	0.00	0.00						
7	0.00	0.00	0.00	0.00						
10	0.00	0.00	0.00	0.00						
30	0.05	0.00	0.00	0.00						
60	0.32	0.04	0.00	0.00						

Magnitude and prob	Magnitude and probability of annual low flow based on period of record, 1970-2007 winter season, November 1 through March 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
consecutive days)	50 %	20%	10%	5 %						
1	1.27	0.31	0.11	0.04						
3	1.41	0.36	0.13	0.05						
7	1.63	0.43	0.16	0.06						
10	1.76	0.48	0.18	0.07						
30	2.60	0.93	0.40	0.17						
60	3.02	1.23	0.64	0.34						

07326000 COBB CREEK NEAR FORT COBB, OKLA.

LOCATION. – Lat 35°08′37″, long 98°26′33″, referenced to North American Datum of 1927, in NE ¼ NE ¼ sec. 27, T.8 N., R.12 W., Caddo County, Okla., Hydrologic Unit 11130302, on left bank 10 ft upstream from county road bridge, 0.3 mi upstream from Punjo Creek, 2.3 mi downstream from Fort Cobb Dam, 3.0 mi north of Fort Cobb, and at mile 5.8.

DRAINAGE AREA. - 307 mi².

PERIOD OF RECORD.—October 1939 to current year. Monthly discharge only for some periods, published in WSP 1311. Prior to October 1960, published as "Pond Creek near Fort Cobb".

REMARKS.-Flow regulated since March 1959, by Fort Cobb Reservoir (station 07325900).

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1940-1958

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	193	5.36	35.1	18.7	5.8
Nov.	54.2	9.18	25.9	23.9	4.3
Dec.	56.5	12.3	32.1	28.7	5.3
Jan.	55.8	14.3	34.2	35.6	5.7
Feb.	112	18.4	40.8	39.8	6.8
Mar.	98.5	19.1	41.8	38.3	6.9
Apr.	240	25.9	75.1	43.5	12.5
May	676	15.0	121	98.1	20.2
Jun.	306	8.04	101	98.5	16.7
Jul.	172	5.56	52.1	21.0	8.6
Aug.	94.8	1.18	21.5	14.1	3.6
Sep.	89.6	0.52	21.8	14.7	3.6
Annual	98.7	26.3	50.2	49.0	_

Magnitude and probability of annual instantaneous peak flow based on 22 historic years of record, 1937-1958									
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500			
50 %	20%	10%	4%	2%	1%	0.2%			
4,220	10,200	17,200	31,200	47,000	68,900	157,000			

	Duration table of daily mean flow for period of record, 1940-1958														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
636	345	108	59.3	48.5	43.2	36.0	30.8	26.2	22.3	18.0	13.1	8.52	5.68	2.64	1.72

Magnitude	and probability of annual lo	ow flow based on period of r	ecord, 1941-1958							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	7.68	3.11	1.51	0.72						
3	7.97	3.23	1.56	0.74						
7	8.41	3.39	1.68	0.82						
10	8.74	3.52	1.75	0.86						
30	10.3	4.49	2.45	1.34						
60	13.0	5.52	3.01	1.67						

Magnitude and	Magnitude and probability of annual low flow based on period of record, 1940-1958 spring season, April 1 through May 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	19.6	13.5	10.8	8.73					
3	20.2	14.0	11.2	9.13					
7	21.7	15.6	12.7	10.5					
10	22.6	16.4	13.4	11.2					
30	31.0	21.0	17.9	16.0					
60	75.6	42.0	31.2	24.6					

Magnitude and pro	bability of annual low flow	based on period of record, 1	940-1957 summer season, J	une 1 through October 31			
	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period (consecutive days)	2	5	10	20			
	50 %	20%	10%	5 %			
1	7.68	3.11	1.51	0.72			
3	7.97	3.23	1.56	0.74			
7	8.41	3.39	1.68	0.82			
10	8.74	3.52	1.75	0.86			
30	10.3	4.49	2.45	1.34			
60	13.6	5.56	3.01	1.67			

Magnitude and probability of annual low flow based on period of record, 1940-1958 winter season, November 1 through March 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	15.9	10.8	8.70	7.26				
3	17.5	11.7	9.27	7.60				
7	19.0	12.4	9.67	7.82				
10	19.5	12.7	9.93	8.02				
30	23.1	15.3	12.1	9.90				
60	26.8	18.2	14.5	11.8				

07326000 COBB CREEK NEAR FORT COBB, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1960-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	345	1.41	20.0	2.73	4.7
Nov.	538	1.47	24.5	3.36	5.7
Dec.	194	1.50	18.7	3.08	4.4
Jan.	139	1.70	22.2	2.87	5.2
Feb.	131	2.08	22.6	3.77	5.3
Mar.	312	2.12	36.9	3.96	8.6
Apr.	237	2.01	32.8	4.07	7.7
May	429	1.50	49.4	6.89	11.6
Jun.	779	1.90	114	45.6	26.7
Jul.	353	0.78	35.1	3.08	8.2
Aug.	368	1.48	24.0	2.94	5.6
Sep.	468	1.60	27.5	2.91	6.4
Annual	176	2.34	35.6	22.5	_

Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500			
15%	5%	10%	4%	2%	1%	0.2%			

	Duration table of daily mean flow for period of record, 1960-2007														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
727	455	205	79.0	19.6	5.86	4.13	3.55	3.18	2.81	2.55	2.29	1.89	1.65	1.33	1.19

Magnitude	Magnitude and probability of annual low flow based on period of record, 1961-2007								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5 %					
1	1.59	0.95	0.66	0.46					
3	1.72	1.07	0.75	0.53					
7	1.80	1.21	0.85	0.60					
10	1.84	1.27	1.00	0.81					
30	2.09	1.50	1.28	1.06					
60	2.25	1.69	1.53	1.44					

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	2.41	1.74	1.44	1.22				
3	2.50	1.88	1.61	1.41				
7	2.62	2.04	1.79	1.60				
10	2.67	2.07	1.85	1.71				
30	4.23	3.00	2.00	1.80				
60	13.6	4.10	2.29	1.90				

Magnitude and pro	Magnitude and probability of annual low flow based on period of record, 1960-2006 summer season, June 1 through October 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	1.71	1.02	0.70	0.48					
3	1.82	1.12	0.78	0.54					
7	1.94	1.23	0.86	0.60					
10	2.00	1.27	1.00	0.81					
30	2.09	1.50	1.28	1.14					
60	2.28	1.75	1.67	1.64					

Magnitude and probability of annual low flow based on period of record, 1960-2007 winter season, November 1 through March 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	2.12	1.50	1.24	1.06				
3	2.16	1.63	1.43	1.28				
7	2.25	1.76	1.59	1.47				
10	2.26	1.81	1.67	1.58				
30	2.66	1.83	1.69	1.65				
60	3.67	1.85	1.71	1.67				

07326500 WASHITA RIVER AT ANADARKO, OKLA.

LOCATION. – Lat 35°05′03″, long 98°14′35″, referenced to North American Datum of 1927, in NW ¼ sec. 15, T.7 N., R.10 W., Caddo County, Okla., Hydrologic Unit 11130302, on right downstream bank at bridge on U.S. Highway 281 at north edge of Anadarko, 8.1 mi upstream from Sugar Creek, and at mile 305.2.

DRAINAGE AREA. - 3,656 mi².

PERIOD OF RECORD.—October 1902 to September 1908, June 1924 to June 1925 (published as "near Anadarko"), October 1935 to February 1938, October 1963 to current year. Monthly discharge only for some periods, published in WSP 1311.

REMARKS.—Flow regulated by low-water dams upstream and since March 1959, by Fort Cobb Reservoir (station 07325900), since February 1961, by Foss Reservoir (station 07324300), and since 1963 by numerous flood-retarding structures.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1964-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	5,480	21.2	465	176	7.9
Nov.	2,205	37.0	353	215	6.0
Dec.	1,352	41.6	280	195	4.7
Jan.	1,213	52.0	279	174	4.7
Feb.	1,269	55.4	308	186	5.2
Mar.	2,981	50.6	482	252	8.2
Apr.	3,003	16.7	483	284	8.2
May	5,601	9.57	918	456	15.5
Jun.	5,843	85.7	1,105	671	18.7
Jul.	3,068	12.6	440	181	7.4
Aug.	3,802	19.7	392	135	6.6
Sep.	2,654	32.2	406	152	6.9
Annual	1,788	72.7	493	364	_

Magnitu	ide and probabili	ty of annual insta	intaneous peak fl	ow based on 44 y	ears of record, 1	964-2007		
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent								
2	5	10	25	50	100	500		
50%	20%	10%	4%	2%	1%	0.2%		
4,660	10,200	16,700	30,300	46,100	69,000	169,000		

	Duration table of daily mean flow for period of record, 1964-2007														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
4,740	3,400	2,040	1,180	829	609	344	240	184	143	110	82.1	56.2	41.1	24.8	15.0

Magnitude	Magnitude and probability of annual low flow based on period of record, 1965-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5%						
1	59.2	14.5	4.79	1.34						
3	59.7	15.5	6.24	2.62						
7	60.0	17.8	8.04	3.80						
10	61.9	19.4	9.15	4.55						
30	69.4	32.2	21.2	14.9						
60	90.2	48.1	34.7	26.6						

Magnitude and probability of annual low flow based on period of record, 1964-2007 spring season, April 1 through May 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period (consecutive days)	2	5	10	20					
	50%	20%	10%	5%					
1	155	67.3	40.1	25.0					
3	160	70.4	42.3	26.6					
7	171	74.0	44.9	28.8					
10	177	76.1	46.3	29.8					
30	246	105	66.1	44.6					
60	497	202	118	73.4					

Magnitude and probability of annual low flow based on period of record, 1964-2006 summer season, June 1 through October 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	59.2	14.6	4.80	1.34					
3	59.7	15.6	6.25	2.62					
7	61.0	17.9	8.04	3.80					
10	62.9	19.4	9.15	4.56					
30	69.7	32.8	23.1	17.7					
60	95.7	49.8	38.0	31.4					

Magnitude and probability of annual low flow based on period of record, 1964-2007 winter season, November 1 through March 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5 %					
1	106	57.6	42.3	33.0					
3	109	60.3	44.7	35.1					
7	116	64.7	47.9	37.6					
10	119	66.0	48.9	38.4					
30	136	75.0	56.1	44.6					
60	154	82.6	61.1	48.2					

07327000 SUGAR CREEK NEAR GRACEMONT, OKLA.

LOCATION. – Lat 35°10′30″, long 98°15′20″, referenced to North American Datum of 1927, in NW ¼ NE ¼ sec. 16, T.8 N., R.10W., Caddo County, Okla., Hydrologic Unit 11130302, on downstream side of county road bridge, 1.0 mi south of Gracemont, 2.1 mi downstream from Yellow Creek, 1.1 mi upstream from bridge on U.S. Highway 281, and at mile 9.9.

DRAINAGE AREA. - 208 mi².

PERIOD OF RECORD.-October 1955 to September 1974.

REMARKS.-Flow regulated since 1963 by numerous floodwater-retarding structures.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1963-1974

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	24.4	0.00	6.18	2.59	3.6
Nov.	32.5	1.18	7.01	3.73	4.1
Dec.	23.7	1.66	9.29	8.14	5.4
Jan.	17.8	3.43	8.12	6.81	4.7
Feb.	30.1	4.97	12.4	9.66	7.2
Mar.	71.1	1.25	18.0	10.5	10.4
Apr.	60.2	1.70	21.3	14.3	12.3
May	177	1.67	33.0	20.2	19.1
Jun.	49.1	0.29	21.2	22.4	12.3
Jul.	13.9	0.00	2.77	0.60	1.6
Aug.	16.4	0.00	4.62	0.53	2.7
Sep.	235	0.00	28.8	7.82	16.7
Annual	34.3	3.48	14.4	11.8	_

Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, in	ı percent
2	5	10	25	50	100	500
50%	20%	10%	4%	2%	1%	0.2%

	Duration table of daily mean flow for period of record, 1963-1974														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
158	86.5	42.2	25.7	18.6	14.4	9.88	7.16	5.15	3.24	1.64	0.52	0.05	0.02	0.01	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1964-1974								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00					
30	0.09	0.00	0.00	0.00					
60	0.50	0.05	0.00	0.00					

Magnitude and probability of annual low flow based on period of record, 1963-1974 spring season, April 1 through May 31										
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5 %						
1	1.01	0.12	0.00	0.00						
3	1.25	0.21	0.00	0.00						
7	2.21	0.41	0.05	0.00						
10	2.66	0.47	0.14	0.05						
30	8.30	2.68	1.23	0.59						
60	18.9	5.90	2.86	1.47						

Magnitude and probability of annual low flow based on period of record, 1963-1973 summer season, June 1 through October 31							
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	0.00	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00			
30	0.09	0.00	0.00	0.00			
60	0.56	0.05	0.00	0.00			

Magnitude and probability of annual low flow based on period of record, 1963-1974 winter season, November 1 through March 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.53	0.06	0.00	0.00				
3	0.60	0.07	0.00	0.00				
7	1.16	0.36	0.19	0.12				
10	1.74	0.61	0.36	0.22				
30	3.22	1.61	1.15	0.88				
60	5.01	2.98	2.34	1.94				

073274406 LITTLE WASHITA RIVER ABOVE SOIL CONSERVATION SERVICE POND NO. 26 NEAR CYRIL, OKLA.

LOCATION. – Lat 34°54′53″, long 98°15′02″, referenced to North American Datum of 1927, in SW ¼ SW ¼ SW ¼ sec. 10, T.5 N., R.10 W., Caddo County, Okla., Hydrologic Unit 11130302, on right downstream bank of county road, 3.0 mi west, of Cyril, and at mile 29.6.

DRAINAGE AREA. – 3.44 mi².

PERIOD OF RECORD.-February 1995 to current year.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1995-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	19.9	0.04	2.94	0.92	13.0
Nov.	3.34	0.05	1.10	0.85	4.8
Dec.	2.62	0.07	0.95	0.82	4.2
Jan.	7.18	0.14	1.24	0.57	5.5
Feb.	4.39	0.14	1.37	0.62	6.1
Mar.	11.9	0.15	2.39	2.00	10.6
Apr.	3.73	0.22	1.61	0.96	7.1
May	10.9	0.07	2.37	0.93	10.5
Jun.	23.0	0.00	4.35	1.50	19.3
Jul.	5.78	0.00	1.45	0.71	6.4
Aug.	11.6	0.03	1.68	0.41	7.5
Sep.	5.57	0.00	1.12	0.39	5.0
Annual	4.69	0.11	1.66	1.21	_

Magnitude and probability of annual instantaneous peak flow based on 13 years of record, 1995-2007									
Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent									
2	5	10	25	50	100	500			
50%	20%	10%	4%	2%	1%	0.2%			
372	1,340	2,730	6,000	10,200	16,500	45,500			

	Duration table of daily mean flow for period of record, 1995-2007														
Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time															
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
29.3	11.8	3.99	2.54	2.07	1.69	1.21	0.86	0.60	0.43	0.28	0.19	0.08	0.03	0.00	0.00

Magnitude	and probability of annual l	ow flow based on period of r	ecord, 1996-2007					
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.08	0.00	0.00	0.00				
3	0.08	0.00	0.00	0.00				
7	0.10	0.00	0.00	0.00				
10	0.10	0.00	0.00	0.00				
30	0.14	0.01	0.00	0.00				
60	0.16	0.03	0.01	0.00				

_	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.56	0.10	0.01	0.00				
3	0.58	0.11	0.01	0.00				
7	0.61	0.13	0.02	0.00				
10	0.73	0.17	0.04	0.01				
30	0.81	0.28	0.15	0.09				
60	1.20	0.44	0.25	0.16				

Magnitude and probability of annual low flow based on period of record, 1995-2006 summer season, June 1 through October 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	0.08	0.00	0.00	0.00				
3	0.08	0.00	0.00	0.00				
7	0.10	0.00	0.00	0.00				
10	0.10	0.00	0.00	0.00				
30	0.14	0.01	0.00	0.00				
60	0.18	0.03	0.01	0.00				

Magnitude and probability of annual low flow based on period of record, 1995-2007 winter season, November 1 through March 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period (consecutive days)	2	5	10	20				
	50 %	20%	10%	5%				
1	0.37	0.12	0.06	0.03				
3	0.39	0.14	0.07	0.04				
7	0.41	0.15	0.08	0.05				
10	0.42	0.15	0.08	0.05				
30	0.46	0.18	0.10	0.06				
60	0.53	0.21	0.12	0.08				

07327442 LITTLE WASHITA RIVER NEAR CYRIL, OKLA.

LOCATION. – Lat 34°53′33″, long 98°13′58″, referenced to North American Datum of 1927, in SW ¼ NW ¼ sec. 23, T.5 N., R.10 W., Caddo County, Okla., Hydrologic Unit 11130302, on left bank 300 ft downstream from county road, 1.7 mi west of Cyril, 6.8 mi east of Apache, and at mile 28.0.

DRAINAGE AREA. - 11.6 mi².

PERIOD OF RECORD.-October 1992 to current year.

REMARKS.-Flow affected since 1971 by numerous flood retention reservoirs.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1993-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	25.7	0.29	4.45	1.62	7.4
Nov.	11.6	0.46	3.70	3.73	6.2
Dec.	19.5	0.47	4.32	3.53	7.2
Jan.	16.7	0.52	4.39	2.97	7.4
Feb.	15.4	0.49	4.78	3.20	8.0
Mar.	22.8	0.46	6.80	5.00	11.4
Apr.	17.3	0.49	5.82	4.45	9.8
May	26.2	0.31	6.56	4.48	11.0
Jun.	46.3	0.03	8.95	2.64	15.0
Jul.	17.9	0.01	3.70	1.98	6.2
Aug.	23.7	0.01	3.27	0.98	5.5
Sep.	13.7	0.02	2.98	0.69	5.0
Annual	13.2	0.53	4.97	4.15	_

Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	nce probability, in	n percent
2	5	10	25	50	100	500
50%	20%	10%	4%	2%	1%	0.2%

				Duratio	on table	of daily ı	nean flo	w for per	riod of re	cord, 19	93-2007				
			Discha	rge, in ft	³/s, whic	h was e	qualed o	r excee	led for in	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
48.6	25.9	15.5	10.9	7.82	6.23	4.46	3.34	2.51	1.58	1.04	0.62	0.37	0.13	0.02	0.00

Magnitude	Magnitude and probability of annual low flow based on period of record, 1994-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period (consecutive days)	2	5	10	20						
	50 %	20%	10%	5%						
1	0.27	0.02	0.00	0.00						
3	0.31	0.03	0.00	0.00						
7	0.32	0.03	0.00	0.00						
10	0.33	0.05	0.01	0.00						
30	0.43	0.08	0.02	0.00						
60	0.55	0.10	0.03	0.01						

_	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
consecutive days)	50 %	20%	10%	5%						
1	2.05	0.49	0.19	0.08						
3	2.10	0.52	0.21	0.09						
7	2.23	0.59	0.25	0.12						
10	2.23	0.65	0.31	0.16						
30	2.88	1.02	0.56	0.34						
60	3.98	1.41	0.78	0.47						

Magnitude and pro	Magnitude and probability of annual low flow based on period of record, 1993-2006 summer season, June 1 through October 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5 %						
1	0.28	0.02	0.00	0.00						
3	0.31	0.03	0.00	0.00						
7	0.32	0.03	0.00	0.00						
10	0.33	0.05	0.01	0.00						
30	0.43	0.08	0.02	0.00						
60	0.58	0.10	0.03	0.01						

Magnitude and prob	Magnitude and probability of annual low flow based on period of record, 1993-2007 winter season, November 1 through March 31									
	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50%	20%	10%	5%						
1	1.47	0.64	0.41	0.28						
3	1.53	0.69	0.44	0.31						
7	1.60	0.74	0.48	0.34						
10	1.62	0.75	0.50	0.35						
30	1.97	0.89	0.59	0.41						
60	2.29	1.04	0.68	0.48						

07327447 LITTLE WASHITA RIVER NEAR CEMENT, OKLA.

LOCATION. – Lat 34°50′16″, long 98°07′27″, referenced to North American Datum of 1927, in NW ¼ NW ¼ sec. 11, T.4 N., R.9 W., Comanche County, Okla., Hydrologic Unit 11130302, on left bank near downstream side of county road bridge, 5 mi south of Cement, 7 mi east northeast of Fletcher, 8 mi northeast of Sterling, and at mile 23.7.

DRAINAGE AREA. - 61.9 mi².

PERIOD OF RECORD.-February 1992 to current year.

REMARKS.-Flow affected since 1971 by numerous flood retention reservoirs.

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1992-2007

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	118	2.48	20.3	13.5	7.3
Nov.	37.4	3.76	15.4	15.5	5.5
Dec.	77.1	5.28	18.7	14.3	6.7
Jan.	73.3	4.32	19.6	13.7	7.0
Feb.	62.2	3.74	22.5	16.9	8.1
Mar.	97.6	5.75	29.4	26.8	10.6
Apr.	69.9	5.68	30.0	20.9	10.8
May	124	3.38	33.6	31.7	12.1
Jun.	244	0.41	43.4	21.9	15.6
Jul.	59.4	0.07	17.7	9.78	6.4
Aug.	88.9	0.20	14.8	4.83	5.3
Sep.	48.4	1.34	13.0	5.95	4.6
Annual	51.6	5.23	22.2	17.0	_

Magnitu	ıde and probabili	ty of annual insta	ıntaneous peak fl	ow based on 15 y	ears of record, 1	993-2007
Dischar	ge, in ft³/s, for ind	icated recurrenc	e interval, in yea	rs, and exceeder	ıce probability, ir	n percent
2	5	10	25	50	100	500
50 %	20%	10%	4%	2%	1%	0.2%
949	1,710	2,200	2,760	3,120	3,450	4,080

				Duratio	on table	of daily r	nean flo	w for pe	riod of re	cord, 19	92-2007				
			Discha	rge, in ft	3/s, whic	h was e	qualed o	r excee	led for i	ndicated	percent	of time			
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
249	142	67.3	44.7	34.3	27.4	20.6	16.0	12.7	9.71	7.05	4.82	2.89	1.38	0.65	0.09

Magnitude	Magnitude and probability of annual low flow based on period of record, 1993-2007									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	1.85	0.56	0.24	0.00						
3	1.96	0.59	0.26	0.00						
7	2.11	0.66	0.29	0.00						
10	2.30	0.73	0.33	0.00						
30	5.30	0.80	0.39	0.02						
60	5.36	1.34	0.50	0.19						

Magnitude and probability of annual low flow based on period of record, 1992-2007 spring season, April 1 through May 31										
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent									
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	9.76	3.57	1.89	1.05						
3	10.4	3.89	2.09	1.17						
7	11.5	4.47	2.46	1.42						
10	11.9	4.74	2.68	1.60						
30	16.0	7.28	4.75	3.32						
60	23.0	10.0	6.32	4.26						

Magnitude and probability of annual low flow based on period of record, 1992-2006 summer season, June 1 through October 31									
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	1.85	0.56	0.24	0.00					
3	1.96	0.59	0.26	0.00					
7	2.11	0.66	0.29	0.00					
10	2.30	0.73	0.34	0.00					
30	5.32	0.80	0.39	0.02					
60	5.39	1.34	0.50	0.19					

$Magnitude\ and\ probability\ of\ annual\ low\ flow\ based\ on\ period\ of\ record,\ 1992-2007\ winter\ season,\ November\ 1\ through\ March\ 31$								
_	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedand	e probability, in percent				
Period	2	5	10	20				
(consecutive days)	50 %	20%	10%	5%				
1	7.50	4.06	2.83	2.05				
3	7.84	4.26	2.98	2.17				
7	8.50	4.85	3.52	2.66				
10	9.00	5.22	3.82	2.91				
30	10.5	6.03	4.48	3.50				
60	11.8	6.99	5.39	4.38				

07327490 LITTLE WASHITA RIVER NEAR NINNEKAH, OKLA.

LOCATION. – Lat 34°56′41″, long 97°57′08″, referenced to North American Datum of 1927, in SE ¼ SE ¼ sec. 32, T.6 N., R.7W., Grady County, Okla., Hydrologic Unit 11130302, at left bank on downstream side of bridge on U.S. Highway 81, 1.0 mi upstream from Rock Creek, 1.5 mi west of Ninnekah, 5.5 mi south of Chickasha, and at mile 8.4.

DRAINAGE AREA. - 208 mi².

PERIOD OF RECORD.-October 1963 to December 1985.

REMARKS.—Small diversions above stations for irrigation. Statistical analyses include streamflow record from nearby station Little Washita River at Ninnekah, Okla. (07327500), October 1951 to September 1963. Flow regulated since 1974 by numerous floodwater-retarding structures.

UNREGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges, and average percent
of annual runoff, based on period of record, 1952-1973

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	288	1.19	20.6	15.2	5.1
Nov.	84.9	3.07	22.8	20.2	5.6
Dec.	89.5	6.16	27.6	20.4	6.8
Jan.	65.9	7.82	37.3	36.2	9.2
Feb.	78.2	7.86	96.7	40.0	23.9
Mar.	70.4	7.88	50.7	31.2	12.5
Apr.	99.3	4.56	23.5	9.30	5.8
May	686	6.55	9.50	6.70	2.3
Jun.	167	4.57	31.4	15.2	7.7
Jul.	188	0.44	38.8	12.1	9.6
Aug.	39.2	0.00	23.9	14.5	5.9
Sep.	143	0.00	22.1	14.2	5.5
Annual	101	9.89	33.8	27.4	_

Magnitude a	agnitude and probability of annual instantaneous peak flow based on 27 historic years of record, 1947-1973										
Discharç	Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent										
2	2 5 10 25 50 100										
50 %	20%	10%	4%	2%	1%	0.2%					
3,250	7,430	12,000	20,900	30,500	43,500	93,300					

				Duratio	on table	of daily r	nean flo	w for pe	riod of re	cord, 19	52-1973				
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50 %	60%	70 %	80%	90%	95%	98%	99%
437	227	83.9	49.2	37.0	31.6	23.3	17.8	13.8	10.9	7.64	4.63	0.83	0.04	0.01	0.01

Magnitude	Magnitude and probability of annual low flow based on period of record, 1953-1973								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	0.00	0.00	0.00	0.00					
3	0.00	0.00	0.00	0.00					
7	0.00	0.00	0.00	0.00					
10	0.02	0.00	0.00	0.00					
30	0.91	0.10	0.00	0.00					
60	3.19	0.57	0.17	0.00					

Magnitude and	Magnitude and probability of annual low flow based on period of record, 1952-1973 spring season, April 1 through May 31								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20					
(consecutive days)	50%	20%	10%	5%					
1	10.5	3.57	1.50	0.62					
3	10.9	4.20	2.00	0.95					
7	11.8	5.69	3.48	2.18					
10	12.6	6.77	4.58	3.21					
30	23.2	12.2	8.46	6.14					
60	45.5	20.8	13.6	9.53					

Magnitude and pro	Magnitude and probability of annual low flow based on period of record, 1952-1972 summer season, June 1 through October 31									
	Discharge, in ft³/s, for in	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent								
Period	2	5	10	20						
(consecutive days)	50 %	20%	10%	5%						
1	0.00	0.00	0.00	0.00						
3	0.00	0.00	0.00	0.00						
7	0.00	0.00	0.00	0.00						
10	0.02	0.00	0.00	0.00						
30	0.91	0.10	0.00	0.00						
60	3.19	0.57	0.17	0.01						

Magnitude and prob	Magnitude and probability of annual low flow based on period of record, 1952-1973 winter season, November 1 through March 31								
	Discharge, in ft³/s, for in	dicated recurrence interval,	in years, and nonexceedand	e probability, in percent					
Period	2	5	10	20					
(consecutive days)	50 %	20%	10%	5%					
1	5.56	2.29	1.43	0.96					
3	6.45	2.68	1.68	1.13					
7	7.85	3.76	2.58	1.89					
10	8.46	4.18	2.92	2.18					
30	11.2	6.00	4.32	3.29					
60	13.0	7.67	5.98	4.94					

07327490 LITTLE WASHITA RIVER NEAR NINNEKAH, OKLA.—Continued

REGULATED STREAMFLOW PERIOD

[ft³/s, cubic feet per second; %, percent; monthly values may not add to 100]

Monthly and annual mean, median, maximum and minimum discharges and average percent of annual runoff, based on period of record, 1974-1985

Month	Maximum	Minimum	Mean	Median	Average % of Annual Runoff
Oct.	515	3.36	67.7	22.1	12.4
Nov.	50.0	6.76	26.4	25.7	4.8
Dec.	110	9.50	30.2	25.2	5.5
Jan.	87.2	9.63	29.8	28.2	5.4
Feb.	148	10.6	40.9	30.4	7.5
Mar.	290	16.1	56.8	35.8	10.4
Apr.	176	16.3	46.8	38.9	8.6
May	233	21.9	111	95.8	20.2
Jun.	189	21.4	76.3	50.8	14.0
Jul.	172	4.66	28.2	11.8	5.2
Aug.	48.1	1.17	15.0	11.9	2.7
Sep.	44.1	1.43	18.0	13.0	3.3
Annual	105	16.8	45.6	35.2	_

Magnitu	Magnitude and probability of annual instantaneous peak flow based on 13 years of record, 1974-1986 Discharge, in ft³/s, for indicated recurrence interval, in years, and exceedence probability, in percent										
Discharg											
2 5 10 25 50 100											
15%	5%	10%	4%	2%	1%	0.2%					
2,700	4,540	6,020	8,220	10,100	12,200	18,100					

	Duration table of daily mean flow for period of record, 1974-1985														
	Discharge, in ft³/s, which was equaled or exceeded for indicated percent of time														
1%	2%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%
568	338	130	66.6	51.0	44.2	34.4	28.2	22.2	17.5	13.5	9.30	5.16	3.28	1.35	0.84

Magnitude and probability of annual low flow based on period of record, 1975-1985								
	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent							
Period	2	5	10 10%	20				
(consecutive days)	50 %	20%		5%				
1	1.30	0.29	0.06	0.00				
3	1.54	0.41	0.20	0.11				
7	2.07	0.72	0.42	0.27				
10	2.30	0.92	0.59	0.41				
30	4.38	1.94	1.26	0.87				
60	6.88	3.02	1.87	1.23				

Magnitude and probability of annual low flow based on period of record, 1974-1985
spring season. April 1 through May 31

	Discharge, in ft ³ /s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50%	20%	10%	5%			
1	16.0	11.0	9.26	8.11			
3	16.3	11.3	9.55	8.41			
7	17.4	12.4	10.6	9.56			
10	18.5	13.1	11.3	10.2			
30	27.6	18.6	15.7	13.9			
60	69.7	45.1	35.4	28.9			

Magnitude and probability of annual low flow based on period of record, 1974-1985 summer season, June 1 through October 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5 %			
1	1.65	0.33	0.08	0.00			
3	1.90	0.47	0.22	0.12			
7	2.48	0.81	0.45	0.27			
10	2.73	1.02	0.62	0.41			
30	4.95	2.09	1.32	0.90			
60	8.38	3.42	2.02	1.28			

Magnitude and probability of annual low flow based on period of record, 1974-1985 winter season, November 1 through March 31

	Discharge, in ft³/s, for indicated recurrence interval, in years, and nonexceedance probability, in percent						
Period	2	5	10	20			
(consecutive days)	50 %	20%	10%	5%			
1	11.1	6.60	4.92	3.81			
3	11.8	7.04	5.25	4.08			
7	12.6	7.67	5.76	4.49			
10	13.5	8.25	6.16	4.75			
30	18.2	11.2	8.33	6.37			
60	21.0	13.4	10.5	8.49			