07159100 CIMARRON RIVER NEAR DOVER, OK

Lower Cimarron Basin
Lower Cimarron-Skeleton Subbasin

LOCATION.--Lat 35°57′06″, long 97°54′51″ referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.14, T.17 N., R.7 W., Kingfisher County, OK, Hydrologic Unit 11050002, near right bank on downstream bridge on U.S. Highway 81, 1.0 mi downstream from Turkey Creek, 2.0 mi south of Dover, 2.5 mi upstream from Kingfisher Creek, and at mile 160.6.

DRAINAGE AREA.--15,809 mi^2 of which 4,075 mi^2 probably is noncontributing, from automated delineation using 10-meter National Elevation Dataset digital elevation model data dated 10/01/2006 and Watershed Boundary Dataset dated 10/01/2006, using Albers Equal-Area Projection, North American Datum 1983.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 999.19 ft above NGVD of 1929.

REMARKS.--Records poor. U.S. Army Corps of Engineers' telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 27	0300	*11,000	16.82
Aug 10	1630	9,440	*16.85

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	95	29	30	42	40	465	92	104	549	29	4,040	150
2	67	29	31	42	38	379	109	101	186	30	1,410	e145
3	52	28	29	36	39	284	141	127	109	29	779	e143
4	42	28	29	e34	38	244	312	128	e926	26	538	e138
5	36	27	29	34	38	242	306	130	e1,140	24	423	e132
6	32	27	29	38	38	226	206	120	761	23	350	e128
7	31	28	30	38	39	199	179	112	702	22	309	e123
8	31	27	31	37	40	181	166	106	466	21	1,920	e117
9	31	26	29	37	38	172	150	278	326	20	2,440	e115
10	30	27	28	45	40	164	202	546	237	20	8,350	e109
11	30	31	29	51	38	225	802	464	e180	22	4,720	e106
12	43	32	28	48	44	646	676	431	132	e22	2,180	104
13	89	32	29	e41	52	398	444	250	111	e23	1,780	104
14	59	32	30	e37	53	262	331	182	92	45	1,360	e111
15	43	32	33	e36	50	205	254	155	86	124	1,220	109
16	36	31	34	e34	50	165	206	138	79	163	2,300	117
17	32	31	35	e35	47	141	183	122	285	209	1,640	114
18	29	29	33	45	41	130	179	117	368	418	814	165
19	27	30	e33	42	45	130	163	117	163	227	878	e115
20	27	31	e25	40	49	121	150	236	117	98	655	e110
21	27	31	30	39	76	112	139	210	92	63	434	e102
22	27	30	29	38	85	109	132	146	e74	50	349	e100
23	27	27	29	37	76	114	140	161	e60	41	300	e96
24	27	27	30	36	74	115	215	170	e52	39	e270	98
25	26	28	e27	36	288	113	153	115	e48	35	e240	99
26	23	27	e26	36	1,090	110	134	95	42	4,670	e215	e88
27	25	27	e26	36	782	106	141	86	39	7,420	e200	e86
28	26	28	e27	38	589	104	190	80	34	1,850	e185	106
29	27	28	e26	89	---	105	137	87	33	1,430	e175	159
30	28	30	e28	71	---	106	116	e660	30	3,310	e160	797
31	28	---	41	48	---	99	---	511	---	7,300	156	---
Total	1,153	870	923	1,296	3,917	6,172	6,748	6,285	7,519	27,803	40,790	4,186
Mean	37.2	29.0	29.8	41.8	140	199	225	203	251	897	1,316	140
Max	95	32	41	89	1,090	646	802	660	1,140	7,420	8,350	797
Min	23	26	25	34	38	99	92	80	30	20	156	86
Ac-ft	2,290	1,730	1,830	2,570	7,770	12,240	13,380	12,470	14,910	55,150	80,910	8,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	726	726	424	386	548	1,080	1,045	1,798	1,529	605	482	542
Max	9,071	5,171	1,864	1,549	2,410	4,840	6,442	11,750	6,969	3,684	2,622	2,576
(WY)	(1987)	(1999)	(1998)	(1998)	(1987)	(1998)	(1999)	(1993)	(1995)	(2007)	(1995)	(2008)
Min	15.3	28.9	29.8	41.8	75.6	77.4	60.7	115	113	16.6	10.2	6.09
(WY)	(2007)	(2007)	(2013)	(2013)	(1981)	(1977)	(1981)	(2006)	(2011)	(2012)	(2011)	(2011)

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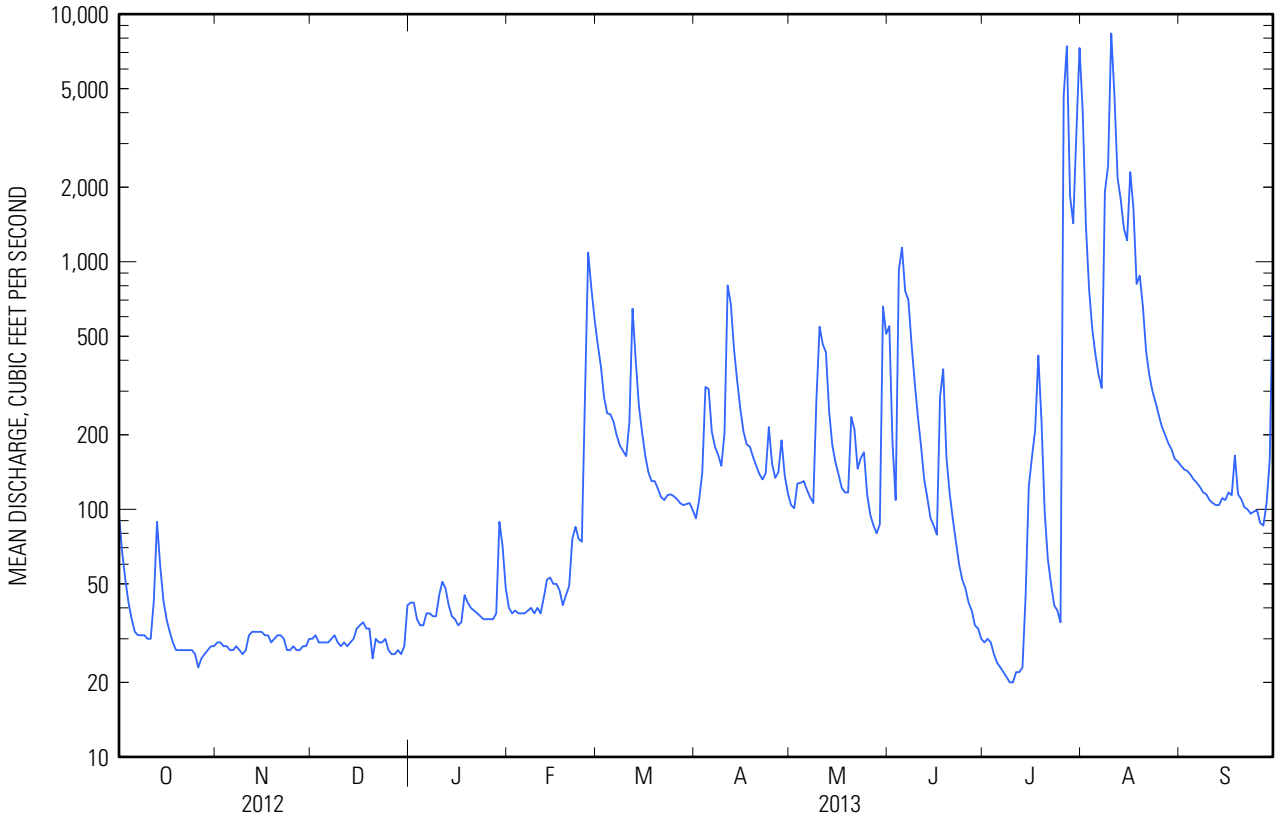
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1974 - 2013	
Annual total	77,202.7		107,662			
Annual mean	211		295		825	
Highest annual mean					2,804	1987
Lowest annual mean					119	2011
Highest daily mean	[a]5,440	Feb 5	8,350	Aug 10	80,200	Oct 3, 1986
Lowest daily mean	4.9	Aug 6	20	Jul 9[b]	[a]2.5	Sep 3, 2011
Annual seven-day minimum	5.4	Jul 31	21	Jul 6	2.9	Sep 9, 2011
Maximum peak flow			11,000	Jul 27	123,000	Oct 3, 1986
Maximum peak stage			16.85	Aug 10	[c]26.10	Oct 3, 1986
Annual runoff (ac-ft)	153,100		213,500		597,500	
10 percent exceeds	426		541		1,620	
50 percent exceeds	53		92		267	
90 percent exceeds	11		28		53	

[a] Estimated
[b] Also July 10.
[c] From high-water mark.