07160500 SKELETON CREEK NEAR LOVELL, OK

Lower Cimarron Basin
Lower Cimarron-Skeleton Subbasin

LOCATION.--Lat 36°03′36″, long 97°35′05″ referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.1, T.18 N., R.4 W., Logan County, OK, Hydrologic Unit 11050002, on right bank downstream bridge abutment on State Highway 74, 2 mi upstream from Otter Creek, 2.8 mi east of Lovell, and at mile14.6.

DRAINAGE AREA.--410 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1949 to September 1993, October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 899.76 ft above NGVD of 1929 (Oklahoma State Highway Department datum). Prior to Dec. 5, 1949, nonrecording gage at site 60 ft downstream at datum 14.70 ft higher. Prior to Oct. 1, 1979, gage at present site and datum 15.00 ft higher, prior to Oct. 1, 2001, 10 ft higher.

REMARKS.--Records rated fair. U.S. Geological Survey satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,300 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 9	1800	6,670	27.07
Oct 29	2200	4,220	21.91
May 20	0830	*9,100	*32.20
May 26	1300	6,140	25.80
May 31	1330	2,480	18.10
Jun 15	1630	5,450	24.36
Jul 6	1000	2,850	18.91
Jul 12	0400	2,370	17.84

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11	117	32	38	e40	68	69	56	509	40	26	89
2	10	74	33	35	43	63	78	50	165	38	24	97
3	8.8	58	33	32	52	60	95	45	104	45	23	33
4	10	50	33	e29	93	58	78	42	85	77	22	23
5	11	44	32	e28	156	57	83	41	74	219	21	20
6	10	41	33	e30	150	55	187	40	66	1,860	21	18
7	12	38	33	e28	118	55	88	40	71	363	21	17
8	370	38	33	e23	90	63	62	38	131	967	21	18
9	5,770	36	33	e24	e90	403	55	37	91	257	20	28
10	1,890	35	e26	e30	e82	265	51	38	102	94	20	47
11	165	45	33	31	70	164	49	40	93	93	20	27
12	82	47	34	32	64	118	48	42	61	968	20	21
13	61	39	34	36	61	89	48	187	54	111	19	18
14	52	37	34	39	59	77	48	525	384	68	18	81
15	47	37	32	39	55	71	45	195	4,480	54	19	43
16	42	41	30	37	52	67	49	91	1,390	47	29	26
17	38	45	32	36	50	64	187	70	764	42	31	21
18	32	40	34	35	49	66	313	55	266	39	65	20
19	28	38	33	33	48	64	649	2,010	124	35	38	19
20	25	37	33	34	48	68	274	8,420	88	33	24	17
21	25	36	33	36	854	82	144	2,150	72	32	21	16
22	32	36	33	36	619	128	107	297	62	29	28	16
23	93	35	34	36	204	171	114	170	57	29	23	16
24	44	34	34	35	118	155	200	117	61	31	19	17
25	33	34	e32	34	93	126	120	823	53	49	60	28
26	28	33	e25	32	86	129	81	5,050	47	54	42	22
27	26	33	e25	32	81	109	67	572	100	36	25	18
28	25	33	e28	33	73	87	61	213	95	31	21	16
29	1,910	32	e32	e32	---	74	56	138	46	35	19	16
30	2,290	32	e35	e29	---	69	56	106	42	31	17	16
31	299	---	37	e38	---	67	---	1,440	---	28	17	---
Total	13,479.8	1,275	998	1,022	3,598	3,192	3,562	23,138	9,737	5,835	794	864
Mean	435	42.5	32.2	33.0	128	103	119	746	325	188	25.6	28.8
Max	5,770	117	37	39	854	403	649	8,420	4,480	1,860	65	97
Min	8.8	32	25	23	40	55	45	37	42	28	17	16
Ac-ft	26,740	2,530	1,980	2,030	7,140	6,330	7,070	45,890	19,310	11,570	1,570	1,710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	175	96.1	50.5	52.7	74.9	154	141	379	281	118	83.8	128
Max	2,450	1,285	369	357	667	1,320	847	2,850	1,967	992	966	1,046
(WY)	(1987)	(1975)	(1993)	(1993)	(1975)	(2004)	(1988)	(1957)	(2007)	(2007)	(1992)	(1961)
Min	0.40	1.34	2.13	3.23	3.81	2.55	2.80	4.72	8.41	0.34	3.45	0.40
(WY)	(1953)	(1955)	(1955)	(1953)	(1953)	(1955)	(1955)	(1971)	(1959)	(1954)	(1971)	(1956)

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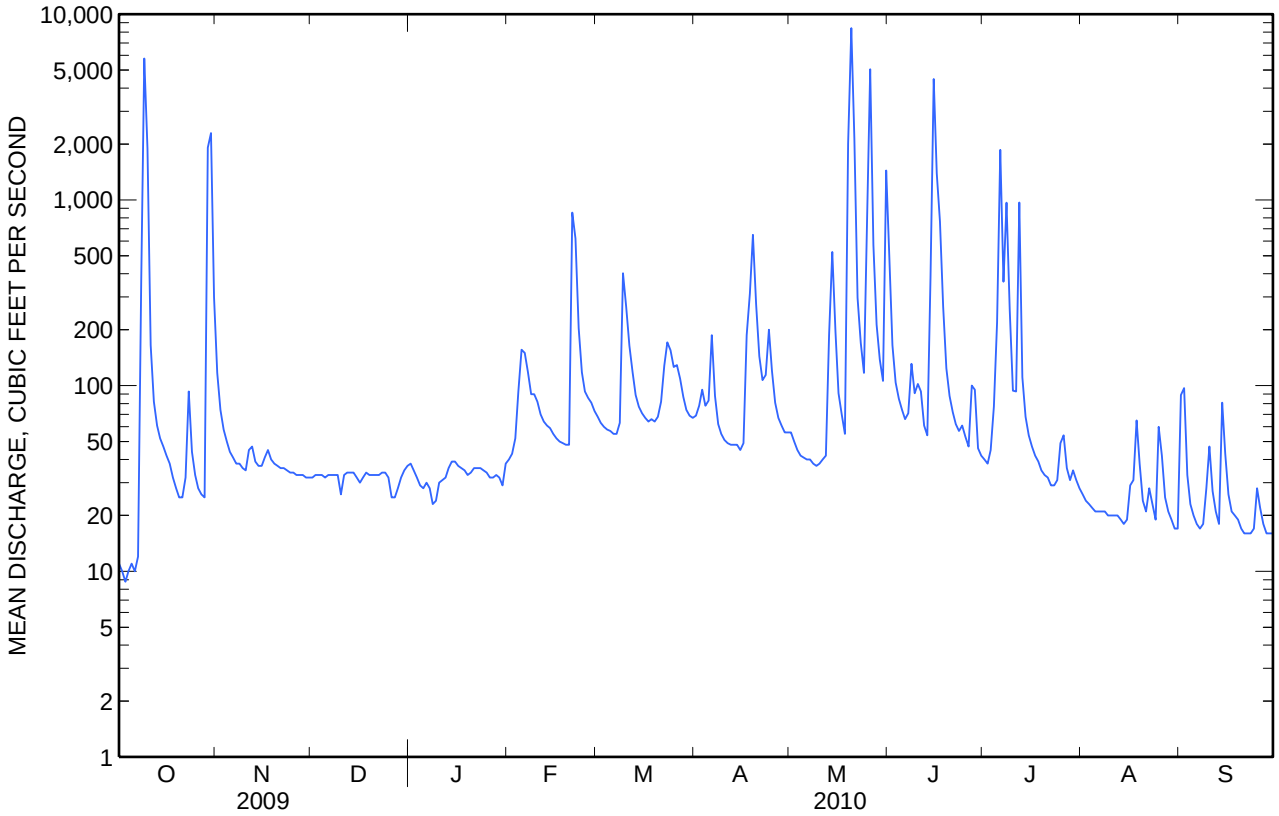
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1950 - 2010	
Annual total	31,561.7		67,494.8			
Annual mean	86.5		185		145	
Highest annual mean					501	1987
Lowest annual mean					16.9	1953
Highest daily mean	5,770	Oct 9	8,420	May 20	39,200	May 16, 1957
Lowest daily mean	8.8	Oct 3	8.8	Oct 3	0.00	Sep 23, 1953[a]
Annual seven-day minimum	10	Sep 29	10	Oct 1	0.00	Sep 23, 1953
Maximum peak flow			9,100	May 20	[b]75,200	May 16, 1957
Maximum peak stage			32.20	May 20	45.47	May 9, 1993
Annual runoff (ac-ft)	62,600		133,900		105,000	
10 percent exceeds	82		202		181	
50 percent exceeds	27		43		18	
90 percent exceeds	12		21		4.2	

[a] Also at times in 1953, 1954, 1956.

[b] Gage height 44.58 ft.