

Water-Data Report 2013

07141770 WALNUT CREEK NEAR ALEXANDER, KS

Middle Arkansas Basin
Lower Walnut Creek Subbasin

LOCATION.--Lat 38°27'53", long 99°37'20" referenced to North American Datum of 1927, in NW ¼ NW ¼ NW ¼ sec.26, T.18 S., R.21 W., Ness County, KS, Hydrologic Unit 11030008, at right bank of downstream side of bridge, 3.6 mi west of Alexander, and at mile 105.0.

DRAINAGE AREA.--1,025 mi² of which 104 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1994 to April 2013 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 2,068.19 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.—No peak discharges greater than base discharge of 700 ft³/s were available this year.

07141770 WALNUT CREEK NEAR ALEXANDER, KS—Continued

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	e13	0.34	0.17	e0.80	1.7	2.7	2.3	---	---	---	---	---
2	6.8	0.35	0.26	e0.76	1.6	2.4	3.4	---	---	---	---	---
3	e3.2	0.27	0.28	e0.87	1.6	2.4	4.8	---	---	---	---	---
4	e2.1	0.27	0.58	e1.0	1.4	2.5	4.2	---	---	---	---	---
5	e0.86	0.29	0.38	e1.2	1.4	2.5	3.8	---	---	---	---	---
6	e0.53	0.32	0.32	e1.3	1.5	2.4	2.9	---	---	---	---	---
7	e0.43	0.30	0.32	e1.3	1.4	2.3	2.4	---	---	---	---	---
8	e0.36	0.18	0.33	e1.3	1.2	2.4	2.5	---	---	---	---	---
9	e0.31	0.19	e0.29	1.1	1.2	2.2	3.2	---	---	---	---	---
10	e0.29	0.22	e0.24	1.7	2.2	2.2	3.3	---	---	---	---	---
11	e0.28	0.23	0.22	e2.7	1.2	2.1	2.5	---	---	---	---	---
12	e0.26	0.18	0.28	e2.7	1.2	2.1	2.1	---	---	---	---	---
13	e1.1	0.23	0.26	2.3	1.3	2.1	1.8	---	---	---	---	---
14	e1.8	0.27	0.28	2.1	1.1	2.0	1.3	---	---	---	---	---
15	e0.55	0.27	0.62	1.7	0.86	2.3	1.1	---	---	---	---	---
16	e0.31	0.27	0.76	1.4	0.85	2.3	2.1	---	---	---	---	---
17	e0.31	0.28	0.78	1.2	0.90	1.7	2.4	---	---	---	---	---
18	e0.30	0.27	0.95	1.2	1.2	1.9	2.1	---	---	---	---	---
19	e0.30	0.22	1.2	1.3	1.1	2.1	1.8	---	---	---	---	---
20	e0.29	0.31	e1.5	e1.5	1.5	1.7	1.7	---	---	---	---	---
21	e0.30	0.26	1.1	e1.6	3.7	1.4	1.6	---	---	---	---	---
22	e0.30	0.18	0.83	1.6	3.6	1.4	1.4	---	---	---	---	---
23	e0.29	0.19	0.80	1.5	3.2	1.4	2.1	---	---	---	---	---
24	e0.30	0.19	0.74	1.3	2.8	1.7	2.2	---	---	---	---	---
25	0.37	0.19	e0.70	1.2	2.9	1.8	2.1	---	---	---	---	---
26	0.34	0.19	e0.64	1.3	3.1	1.6	2.0	---	---	---	---	---
27	0.28	0.20	e0.69	1.6	2.9	1.8	1.6	---	---	---	---	---
28	0.33	0.19	e0.75	1.6	3.4	2.0	1.1	---	---	---	---	---
29	0.33	0.20	e0.81	1.7	---	2.1	1.1	---	---	---	---	---
30	0.33	0.20	e0.87	2.1	---	2.4	0.89	---	---	---	---	---
31	0.32	---	e0.89	1.9	---	2.6	---	---	---	---	---	---
Mean	1.19	0.24	0.61	1.51	1.86	2.08	2.26	---	---	---	---	---
Max	13	0.35	1.5	2.7	3.7	2.7	4.8	---	---	---	---	---
Min	0.26	0.18	0.17	0.76	0.85	1.4	0.89	---	---	---	---	---
Ac-ft	73	14	37	93	103	128	134	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.24	8.29	6.52	7.10	8.25	11.7	12.5	17.5	25.0	27.6	33.0	10.6
Max	22.6	67.5	22.1	20.5	27.6	50.2	60.2	87.4	148	141	123	100
(WY)	(1997)	(1997)	(2007)	(2007)	(2007)	(2000)	(2007)	(1995)	(1996)	(2007)	(2006)	(1996)
Min	0.23	0.24	0.61	1.16	1.42	1.55	1.24	0.87	0.17	0.06	0.23	0.33
(WY)	(2006)	(2013)	(2013)	(2006)	(2006)	(2006)	(2006)	(2012)	(2012)	(2005)	(2003)	(2005)

07141770 WALNUT CREEK NEAR ALEXANDER, KS—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Years 1995 - 2013	
Annual mean	2.73		14.7	
Highest annual mean			38.3	2007
Lowest annual mean			1.87	2005
Highest daily mean	144	Aug 26	1,550	Jun 1, 1996
Lowest daily mean	0.00	Jun 25	0.00	Jun 4, 2006
Annual seven-day minimum	0.01	Jun 24	0.00	Jun 12, 2006
Maximum peak flow			3,070	Jun 1, 1996
Maximum peak stage			21.19	Jun 1, 1996
Instantaneous low flow			0.00	Jul 12, 2005
Annual runoff (ac-ft)	1,980		10,660	
10 percent exceeds	3.3		19	
50 percent exceeds	0.69		5.1	
90 percent exceeds	0.05		0.67	

