Water-Data Report 2012

07324200 WASHITA RIVER NEAR HAMMON, OK

Washita Basin
Washita Headwaters Subbasin

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, OK, 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.--1,367 mi^2 of which 12 mi^2 probably is noncontributing, revised. 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 1969 to September 1987, October 1989 to current year.

REVISED RECORDS.--OK-92-2: 1987. WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,643.22 ft above NGVD of 1929.

REMARKS.--Records good except for estimated periods which are poor. Flow regulated since 1961 by numerous flood-retarding structures. U.S. Geological Survey satellite telemeter at station.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 07324200, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/07324200.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.11	0.37	0.41	0.34	0.41	5.9	13	17	0.27	0.00	0.00	0.00
2	0.11	0.42	0.39	0.53	0.38	6.0	12	15	0.24	0.00	0.00	0.00
3	0.12	0.43	0.60	0.38	0.99	5.2	11	17	0.27	0.00	0.00	0.00
4	0.12	0.45	0.99	0.40	12	5.5	13	15	0.42	0.00	0.00	0.00
5	0.11	0.43	0.60	0.42	11	5.3	14	12	7.3	0.00	0.00	e0.00
6	0.11	0.49	e0.38	0.44	3.2	4.8	12	9.9	14	0.00	0.00	e0.00
7	0.13	2.9	e0.34	0.50	1.4	5.0	10	7.6	19	0.00	0.00	e1.4
8	0.32	1.6	0.34	0.45	0.81	5.0	9.0	6.4	9.5	0.00	0.00	e0.70
9	0.20	1.0	0.39	0.42	0.68	4.2	8.9	5.2	3.6	0.00	0.00	e0.85
10	0.15	0.44	0.42	0.51	0.66	4.8	8.7	4.1	1.8	0.00	0.00	e0.00
11	0.15	0.42	0.39	0.57	e0.40	7.9	8.4	4.2	1.1	0.00	0.00	e0.00
12	0.16	0.39	0.33	e0.33	e0.35	8.8	8.3	4.3	0.74	0.00	0.00	0.00
13	0.16	0.36	0.30	e0.37	e0.50	9.1	7.6	3.7	0.64	0.00	0.00	0.00
14	0.17	0.38	0.47	e0.52	e0.70	10	7.3	3.0	0.53	0.00	0.00	0.00
15	0.17	0.38	0.58	0.57	2.7	11	9.0	2.5	0.43	0.00	0.00	0.00
16	0.19	0.39	0.42	0.59	4.8	11	9.9	2.0	0.38	0.00	0.00	0.00
17	0.20	0.39	0.34	0.50	5.8	11	8.2	1.6	0.33	0.00	0.00	0.00
18	0.19	0.38	0.31	e0.44	6.4	11	8.3	1.3	0.28	0.00	0.00	0.00
19	0.21	0.41	0.46	0.48	5.9	13	9.1	1.1	0.22	0.00	0.00	0.00
20	0.23	0.43	1.4	0.52	5.9	15	7.6	1.1	0.23	0.00	0.00	0.00
21	0.25	0.82	0.66	0.50	5.9	20	5.6	1.1	0.30	0.00	0.00	0.00
22	0.26	1.0	0.56	0.53	6.0	25	4.6	1.6	0.29	0.00	0.00	0.00
23	0.26	0.84	0.37	0.51	6.0	27	3.8	1.2	0.24	0.00	0.00	0.00
24	0.26	0.58	0.37	0.61	5.5	25	3.5	0.77	0.18	0.00	0.00	0.00
25	0.27	0.53	0.35	1.8	5.7	24	2.6	0.60	0.16	0.00	0.00	0.00
26	0.28	0.54	0.38	1.6	5.2	22	1.8	0.62	0.13	0.00	0.00	0.00
27	0.43	0.44	0.40	0.83	5.0	20	1.2	0.42	0.08	0.00	0.00	26
28	0.37	0.42	0.36	0.51	5.2	19	0.82	0.38	0.03	0.00	0.00	5.3
29	0.37	0.43	0.39	0.44	5.6	17	66	0.34	0.00	0.00	0.00	0.63
30	0.37	0.43	0.40	0.41	---	16	41	0.30	0.00	0.00	0.00	0.04
31	0.38	---	0.42	0.44	---	14	---	0.26	---	0.00	0.00	---
Total	6.81	18.49	14.52	17.46	115.08	388.5	326.22	141.59	62.69	0.00	0.00	34.92
Mean	0.22	0.62	0.47	0.56	3.97	12.5	10.9	4.57	2.09	0.00	0.00	1.16
Max	0.43	2.9	1.4	1.8	12	27	66	17	19	0.00	0.00	26
Min	0.11	0.36	0.30	0.33	0.35	4.2	0.82	0.26	0.00	0.00	0.00	0.00
Ac-ft	14	37	29	35	228	771	647	281	124	0.00	0.00	69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	37.9	41.0	38.0	45.4	53.0	73.8	88.1	149	125	36.4	26.1	37.9
Max	384	253	258	342	299	548	528	755	502	158	170	450
(WY)	(1987)	(1987)	(1998)	(1998)	(1998)	(1998)	(1997)	(1982)	(1997)	(1997)	(1997)	(1997)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
(WY)	(1973)	(1972)	(1973)	(1973)	(1972)	(1972)	(1972)	(1971)	(1972)	(2012)	(1972)	(1976)

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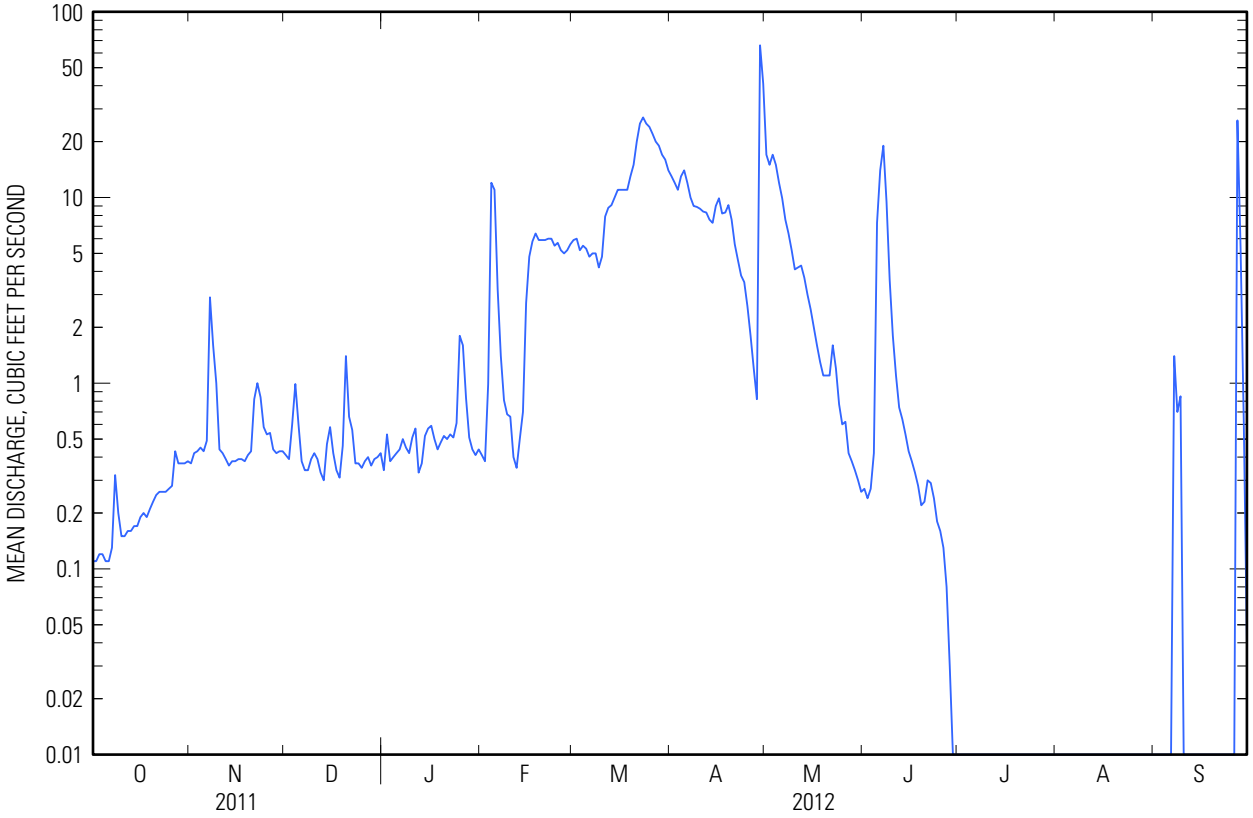
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1970 - 2012	
Annual total	4,562.34		1,126.28			
Annual mean	12.5		3.08		62.6	
Highest annual mean					262	1997
Lowest annual mean					0.49	1972
Highest daily mean	63	Feb 16	66	Apr 29	4,340	May 17, 1982
Lowest daily mean	0.10	Aug 31 [a]	0.00	Many days	0.00	At times
Annual seven-day minimum	0.11	Aug 28	0.00	Jun 29	0.00	Jul 13, 1970
Maximum peak flow			161	Apr 29	[b]6,000	May 17, 1982
Maximum peak stage			9.13	Apr 29	23.44	May 17, 1982
Annual runoff (ac-ft)	9,050		2,230		45,340	
10 percent exceeds	41		10		134	
50 percent exceeds	0.58		0.42		25	
90 percent exceeds	0.13		0.00		0.18	

[a] Also Sep 1, 30
[b] From rating curve extended above 2,500 ft³/s on basis of slope-area measurement.