Water-Data Report 2013

07327550 LITTLE WASHITA RIVER EAST OF NINNEKAH, OK

Washita Basin
Upper Washita Subbasin

LOCATION.--Lat 34°57′48″, long 97°53′57″ referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.25, T.6 N., R.7 W., Grady County, OK, Hydrologic Unit 11130302, on downstream left bank at bridge on county road 1.5 mi northeast of East Ninnekah and at mile 3.0.

DRAINAGE AREA.--232 mi^2, 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.--February 1992 to current year.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,041.16 ft.

REMARKS.--Records poor. Flow regulated by numerous flood retarding structures. U.S. Geological Survey satellite telemeter at station.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 07327550, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07327550.2013.pdf

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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	15	4.0	4.5	e10	10	20	11	24	37	3.4	13	3.8
2	7.9	4.3	4.8	e9.5	9.2	16	53	21	21	2.5	10	3.6
3	4.0	4.2	7.3	e9.4	8.9	15	48	21	15	2.0	8.4	3.5
4	2.4	3.4	7.0	e9.2	8.7	15	57	19	35	2.0	7.2	3.3
5	1.6	3.9	7.1	9.2	8.9	14	31	18	260	2.9	6.3	3.2
6	1.5	4.2	7.3	9.2	9.5	14	20	17	90	2.0	5.6	3.2
7	1.6	4.0	7.3	9.3	9.6	12	15	17	49	1.6	4.9	3.0
8	1.5	4.1	7.7	9.3	9.6	11	13	17	30	2.4	5.4	e2.7
9	2.3	5.3	7.7	9.7	9.6	14	11	16	36	2.0	17	e2.5
10	2.3	4.6	7.2	15	9.5	20	66	20	31	1.8	10	e2.3
11	2.1	7.9	7.1	21	9.5	19	58	20	20	1.9	8.9	e2.3
12	2.2	11	7.0	16	12	16	30	16	15	1.5	7.5	e2.3
13	2.9	8.6	6.9	12	e16	14	19	14	12	1.6	31	e2.2
14	6.0	6.1	7.6	e10	16	13	15	12	9.9	3.4	27	e2.2
15	5.9	5.1	8.6	e9.6	13	13	11	12	10	7.9	17	e2.2
16	5.5	4.8	9.3	e9.4	11	12	8.6	16	14	10	31	e2.5
17	3.3	4.6	9.6	e9.2	10	12	107	16	244	12	45	3.9
18	2.3	5.1	8.7	9.2	9.8	12	e2,100	16	69	13	22	3.6
19	2.0	5.2	8.2	9.2	9.6	11	e498	30	38	7.8	14	3.4
20	2.7	5.6	7.6	9.2	11	10	e265	40	25	e4.6	10	3.4
21	3.2	5.8	7.6	9.2	24	10	174	71	17	3.5	8.3	3.3
22	3.5	6.2	7.6	9.1	27	10	120	e61	13	e3.0	7.2	3.3
23	3.3	6.0	7.2	9.1	19	11	66	36	8.9	e2.8	6.6	3.1
24	4.2	5.7	7.5	9.1	15	11	44	23	7.1	14	6.1	2.9
25	4.5	3.8	e7.4	9.3	24	11	37	19	6.3	14	5.7	e2.6
26	3.7	5.0	e7.3	9.4	39	9.9	34	25	5.5	339	5.1	e2.4
27	3.8	5.8	e7.2	9.3	29	9.1	93	20	4.9	155	4.8	e2.3
28	3.4	6.2	e7.1	9.8	22	7.5	37	16	4.4	59	4.8	e6.3
29	3.0	3.9	e8.7	17	---	8.3	30	16	4.1	33	4.6	9.9
30	3.5	6.0	e11	20	---	9.1	26	23	4.0	21	4.5	7.8
31	4.0	---	e11	13	---	11	---	69	---	16	4.0	---
Total	115.1	160.4	238.1	338.9	410.4	390.9	4,097.6	761	1,136.1	746.6	362.9	103.0
Mean	3.71	5.35	7.68	10.9	14.7	12.6	137	24.5	37.9	24.1	11.7	3.43
Max	15	11	11	21	39	20	2,100	71	260	339	45	9.9
Min	1.5	3.4	4.5	9.1	8.7	7.5	8.6	12	4.0	1.5	4.0	2.2
Ac-ft	228	318	472	672	814	775	8,130	1,510	2,250	1,480	720	204

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	36.6	35.6	43.4	47.6	57.2	68.2	82.3	88.4	91.3	36.4	29.5	25.2
Max	164	105	185	264	196	320	249	325	488	162	219	85.4
(WY)	(2001)	(1993)	(1993)	(1998)	(1993)	(1998)	(2008)	(1993)	(2007)	(2007)	(2007)	(1992)
Min	3.71	5.35	7.68	8.75	7.39	12.6	12.8	12.8	3.06	0.41	0.64	1.65
(WY)	(2013)	(2013)	(2013)	(2004)	(2004)	(2006)	(2005)	(2006)	(2011)	(2006)	(2012)	(2012)

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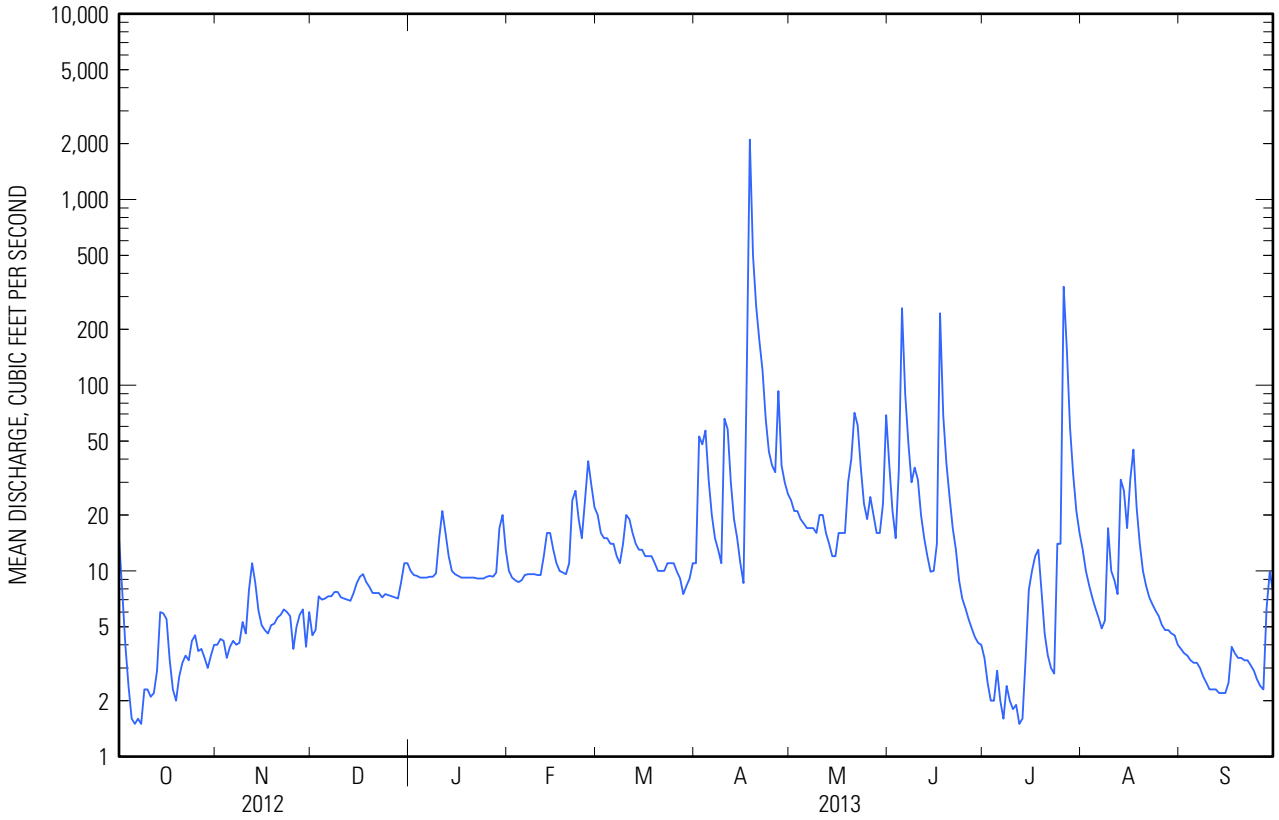
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1992 - 2013	
Annual total	3,989.60		8,861.0			
Annual mean	10.9		24.3		51.5	
Highest annual mean					137	1993
Lowest annual mean					12.1	2012
Highest daily mean	252	May 20	[b]2,100	Apr 18	3,570	May 30, 1997
Lowest daily mean	0.00	Aug 3[a]	1.5	Oct 6[c]	0.00	At times
Annual seven-day minimum	0.13	Jul 31	1.8	Jul 7	0.00	Jul 21, 2006
Maximum peak flow			3,160	Apr 18	[d]9,920	May 9, 1993
Maximum peak stage			17.16	Apr 18	21.73	Aug 19, 2007
Annual runoff (ac-ft)	7,910		17,580		37,320	
10 percent exceeds	22		33		98	
50 percent exceeds	6.2		9.3		25	
90 percent exceeds	0.49		2.9		4.8	

[a] Also Aug. 4.
[b] Estimated.
[c] Also Oct. 8, Jul. 12.
[d] From rating extended above 2,300 ft³/s.