Water-Data Report 2013

01422747 EAST BROOK EAST OF WALTON, NY

Upper Delaware Basin
Upper Delaware Subbasin

LOCATION.--Lat 42°10′22″, long 75°07′17″ referenced to North American Datum of 1983, Delaware County, NY, Hydrologic Unit 02040101, on right bank 150 ft downstream from East Street, in Walton, and 0.55 mi upstream from mouth (at West Branch Delaware River).

DRAINAGE AREA.--24.7 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,221.48 ft above NGVD of 1929 (Federal Emergency Management Agency flood-insurance study reference mark).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,110 ft^3/s, June 28, 2006, gage height, 9.95 ft, outside gage height was 10.28 ft, from crest-stage gage, from rating curve extended above 2,600 ft^3/s; minimum discharge, 0.83 ft^3/s, Sept. 23, 2010, result of unknown regulation; minimum gage height, 1.37 ft, Aug. 30, 31, 2001.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 19	1330	1,230	5.09
Mar 12	1615	804	4.59
Jun 28	2000	999	4.84
Aug 13	1145	515	4.21
Sep 2	2300	*1,670	*5.62

Minimum discharge, 6.0 ft^3/s, July 22; minimum gage height, 2.13 ft, July 21.

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 01422747, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/01422747.2013.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	45	88	17	39	96	27	45	30	53	86	11	45
2	37	84	18	37	e76	22	42	26	49	83	15	313
3	32	75	19	34	e63	20	39	23	56	66	14	332
4	37	67	17	33	e53	19	38	21	39	54	11	136
5	35	60	23	30	e46	18	38	19	32	51	8.8	94
6	31	53	20	29	e40	17	36	17	29	41	7.5	69
7	30	48	21	28	e34	17	35	15	36	38	7.1	56
8	28	43	31	27	e33	17	36	25	37	39	7.2	50
9	25	39	30	27	e32	19	38	32	28	41	78	39
10	24	35	37	23	e34	23	58	26	33	40	41	37
11	22	32	63	23	31	35	69	32	54	34	29	54
12	20	29	51	37	31	330	102	29	50	26	23	75
13	19	63	47	77	28	217	88	25	99	22	143	69
14	24	50	45	110	27	144	76	24	113	19	82	55
15	22	44	42	97	26	110	65	24	81	16	58	48
16	20	42	39	89	e24	89	70	22	66	13	43	43
17	18	40	39	76	e20	72	78	19	57	11	35	38
18	17	37	90	63	e17	60	62	17	48	9.8	29	32
19	473	35	74	57	e17	58	78	16	39	8.6	26	28
20	270	34	65	e48	e16	51	122	15	32	7.8	22	25
21	154	32	192	e39	e15	45	89	13	27	7.0	19	23
22	108	29	138	e31	e14	40	79	14	23	7.1	17	31
23	100	28	111	e26	15	37	70	16	19	61	16	21
24	96	29	92	e22	16	35	63	22	16	23	14	18
25	77	26	78	e22	14	35	58	51	15	16	12	16
26	68	24	66	e21	14	35	48	62	14	13	13	14
27	61	22	64	e21	22	35	42	42	13	11	53	12
28	55	20	54	e19	33	34	39	38	319	17	32	11
29	62	19	50	e29	---	33	37	76	172	18	37	10
30	115	18	46	75	---	32	34	113	117	12	27	9.4
31	94	---	42	162	---	35	---	67	---	10	35	---
Total	2,219	1,245	1,721	1,451	887	1,761	1,774	971	1,766	901.3	965.6	1,803.4
Mean	71.6	41.5	55.5	46.8	31.7	56.8	59.1	31.3	58.9	29.1	31.1	60.1
Max	473	88	192	162	96	330	122	113	319	86	143	332
Min	17	18	17	19	14	17	34	13	13	7.0	7.1	9.4
Cfsm	2.90	1.68	2.25	1.89	1.28	2.30	2.39	1.27	2.38	1.18	1.26	2.43
In.	3.34	1.88	2.59	2.19	1.34	2.65	2.67	1.46	2.66	1.36	1.45	2.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	44.8	49.5	62.9	54.1	45.0	94.9	77.5	43.2	44.5	19.8	23.0	38.6
Max	105	98.8	111	118	90.0	183	129	94.7	256	54.7	83.4	187
(WY)	(2011)	(2007)	(2009)	(2006)	(2008)	(2011)	(2011)	(2011)	(2006)	(2006)	(2011)	(2011)
Min	3.14	3.29	9.88	17.4	9.76	36.3	29.5	15.5	6.88	3.82	1.76	2.48
(WY)	(2002)	(2002)	(1999)	(2001)	(2004)	(2006)	(2012)	(2001)	(2007)	(2010)	(1999)	(2005)

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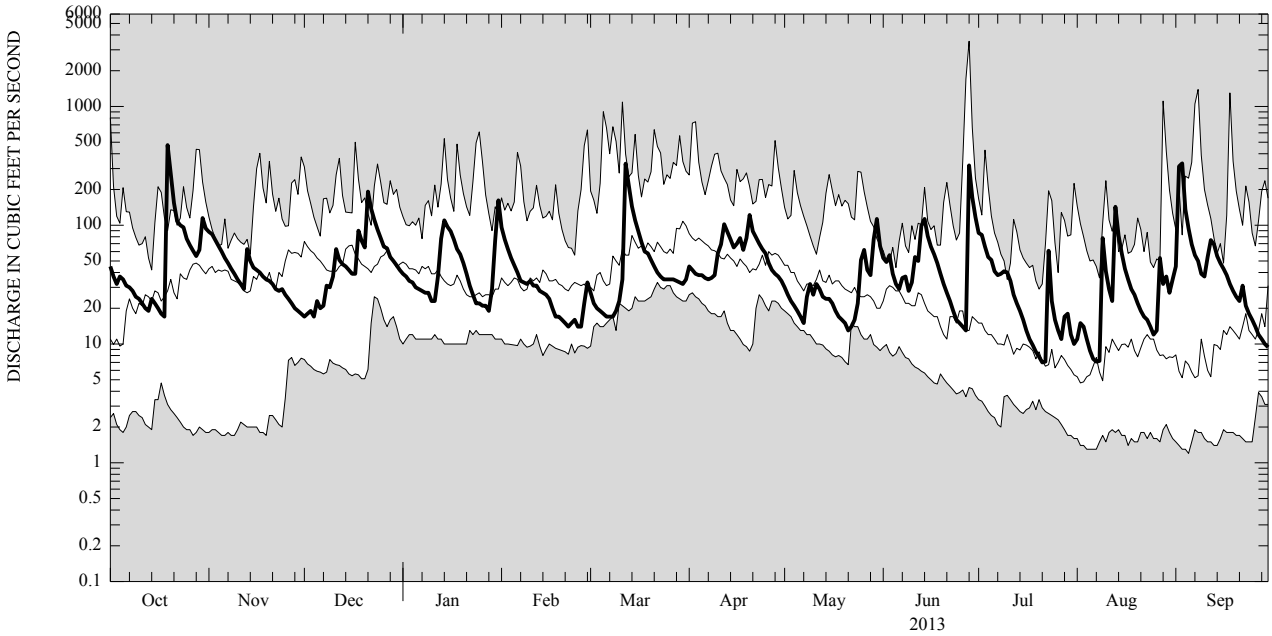
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1999 - 2013	
Annual total	13,721.6		17,465.3			
Annual mean	37.5		47.9		49.8	
Highest annual mean					86.7	2011
Lowest annual mean					28.4	1999
Highest daily mean	473	Oct 19	473	Oct 19	3,540	Jun 28, 2006
Lowest daily mean	1.8	Aug 9	7.0	Jul 21	1.2	Sep 5, 1999
Annual seven-day minimum	2.4	Aug 3	9.2	Jul 16	1.4	Aug 2, 1999
Annual runoff (cfsm)	1.52		1.94		2.02	
Annual runoff (inches)	20.67		26.30		27.41	
10 percent exceeds	73		89		102	
50 percent exceeds	29		35		31	
90 percent exceeds	4.8		15		4.8	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.