01374559 WEST BRANCH CROTON RIVER AT RICHARDSVILLE, NY

Lower Hudson Basin
Lower Hudson Subbasin

LOCATION.--Lat 41°28′14″, long 73°45′38″ referenced to North American Datum of 1927, Putnam County, NY, Hydrologic Unit 02030101, on right bank 200 ft downstream from State Highway 301, and 0.9 mi northeast of Richardsville.

DRAINAGE AREA.--11.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1995 to current year.

REVISED RECORDS.--WDR NY-00-1: 1996-99 (P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 587.46 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Occasional regulation by small lakes upstream from station. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,290 ft^3/s, Sept. 17, 1999, gage height, 4.88 ft; maximum gage height, 5.05 ft, Apr. 16, 2007; minimum, no flow part of each day Aug. 8-10, 24, 1999, Sept. 13-14, 19-20, 2001.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 2	0145	114	2.42
Dec 2	1130	140	2.57
Mar 7	0600	716	4.73
Mar 11	1200	546	4.18
Apr 17	1415	289	3.24
Aug 28	1430	*807	a*5.01
Sep 8	1200	425	3.76
Sep 30	0600	111	2.40

a Recorded; outside gage height was 4.39 ft, from crest-stage gage.

Minimum discharge, 0.14 ft^3/s, July 27, gage height, 0.27 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01374559, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01374559.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	62	8.2	37	13	e9.5	80	20	28	13	8.8	0.37	66
2	97	7.6	124	15	e9.5	78	25	23	9.5	6.1	1.4	46
3	57	6.9	99	18	e9.7	70	23	20	6.6	5.4	0.81	31
4	36	11	69	17	e9.5	58	20	22	5.2	6.6	0.59	24
5	25	23	53	16	e9.4	54	20	25	4.3	5.8	0.38	21
6	20	29	43	14	e11	125	23	21	2.5	4.6	0.53	54
7	15	24	35	e13	e12	574	22	17	2.3	3.6	14	146
8	12	20	29	e12	e13	301	20	16	2.6	3.8	12	347
9	9.1	18	23	e11	e14	178	17	17	3.9	6.0	10	254
10	8.5	16	19	e10	e12	133	16	13	9.3	5.0	14	148
11	8.5	14	17	e10	e11	427	15	11	8.0	3.7	9.4	91
12	7.7	12	34	e10	e10	294	16	9.7	9.1	4.0	5.5	63
13	6.9	11	73	e10	e10	176	30	8.7	16	4.0	3.3	47
14	6.7	11	72	e9.0	e10	121	33	7.9	14	2.7	6.4	37
15	14	10	55	e9.0	e12	91	16	12	12	1.7	27	32
16	22	10	44	e9.0	e12	83	15	20	8.3	1.2	39	30
17	21	18	36	e9.0	e12	79	216	30	12	0.83	26	24
18	15	24	31	e9.0	e15	65	171	60	15	0.65	14	19
19	12	21	28	e13	24	53	99	90	9.6	0.59	11	16
20	10	17	25	e14	28	44	77	75	5.9	0.60	12	15
21	9.0	15	22	e13	e29	41	60	55	4.3	0.53	10	16
22	8.0	13	21	e11	e28	41	45	39	15	0.48	11	18
23	7.3	13	19	e10	26	38	49	35	41	0.41	8.0	19
24	6.8	12	18	e10	23	36	58	42	43	0.38	5.4	22
25	6.3	11	16	e9.0	36	34	47	35	39	0.22	5.1	20
26	6.2	13	e15	e9.0	54	29	38	27	20	0.19	5.5	16
27	9.6	14	e15	e9.0	57	25	34	21	12	0.18	7.8	12
28	14	12	e14	e11	63	23	35	17	8.7	0.18	480	11
29	13	11	e14	e11	---	20	43	14	14	0.23	350	52
30	11	11	e13	e10	---	19	34	15	14	0.24	161	100
31	9.1	---	14	e9.0	---	17	---	18	---	0.20	94	---
Total	565.7	436.7	1,127	353.0	569.6	3,407	1,337	844.3	380.1	78.91	1,345.48	1,797
Mean	18.2	14.6	36.4	11.4	20.3	110	44.6	27.2	12.7	2.55	43.4	59.9
Max	97	29	124	18	63	574	216	90	43	8.8	480	347
Min	6.2	6.9	13	9.0	9.4	17	15	7.9	2.3	0.18	0.37	11
Cfsm	1.66	1.32	3.30	1.04	1.85	9.99	4.05	2.48	1.15	0.23	3.95	5.45
In.	1.91	1.48	3.81	1.19	1.93	11.52	4.52	2.86	1.29	0.27	4.55	6.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	20.3	23.4	33.4	28.4	23.2	46.3	35.4	18.6	16.0	7.84	6.52	12.6
Max	98.4	52.0	79.2	75.6	61.3	110	84.6	38.0	44.0	39.6	43.4	59.9
(WY)	(2006)	(1996)	(2004)	(2006)	(2008)	(2011)	(2007)	(1998)	(2009)	(2009)	(2011)	(2011)
Min	0.23	1.38	3.23	3.90	6.21	10.6	13.3	6.20	1.88	0.21	0.02	0.12
(WY)	(2002)	(2002)	(2002)	(2002)	(2007)	(2006)	(1999)	(2001)	(2010)	(2010)	(1999)	(2007)

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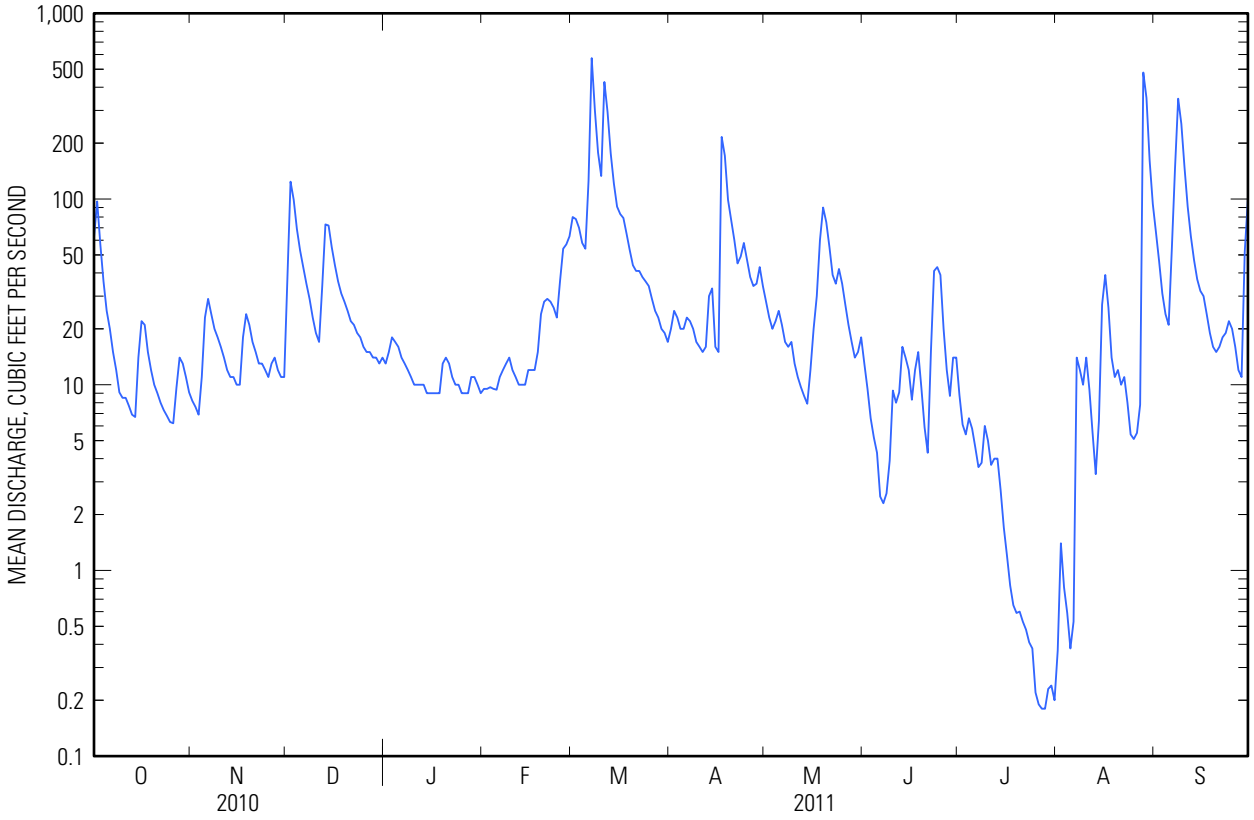
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1996 - 2011	
Annual total	8,280.74		12,241.79			
Annual mean	22.7		33.5		22.7	
Highest annual mean					33.5	2011
Lowest annual mean					9.23	2002
Highest daily mean	376	Mar 14	574	Mar 7	823	Sep 17, 1999
Lowest daily mean	0.02	Sep 9	0.18	Jul 27	0.01	Sep 22, 1997
Annual seven-day minimum	0.03	Sep 6	0.21	Jul 25	0.01	Jul 30, 1999
Annual runoff (cfsm)	2.06		3.05		2.06	
Annual runoff (inches)	28.00		41.40		28.00	
10 percent exceeds	58		69		49	
50 percent exceeds	11		15		13	
90 percent exceeds	0.09		4.5		0.55