01365500 CHESTNUT CREEK AT GRAHAMSVILLE, NY

Upper Hudson Basin
Rondout Subbasin

LOCATION.--Lat 41°50′42″, long 74°32′27″ referenced to North American Datum of 1927, Sullivan County, NY, Hydrologic Unit 02020007, on right bank 600 ft downstream from Red Brook, and 0.6 mi upstream from bridge on State Highway 55, in Grahamsville.

DRAINAGE AREA.--20.9 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to March 1987, October 1998 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 878.96 ft above NGVD of 1929. Prior to October 1998, at datum 2.00 ft higher. Concrete control destroyed April 2005.

REMARKS.--Records fair except those for estimated daily discharges and those above 800 ft^3/s, which are poor. Slight seasonal regulation caused by Beaverdam Pond on Red Brook. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft^3/s, Oct. 15, 1955, gage height, 7.02 ft, present datum, from rating curve extended above 1,400 ft^3/s on basis of slope-area measurement at gage height 6.68 ft, present datum; minimum discharge, 1.4 ft^3/s, Nov. 1, 1964.

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 28	1030	674	3.04
Nov 8	1715	588	2.91
Apr 16	0230	*1,850	a*4.24

a Recorded; outside gage height was 4.91 ft, from crest-stage gage.

Minimum discharge, 3.8 ft^3/s, Sept. 25, 26, gage height, 0.46 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	48	66	56	77	e20	13	78	41	12	6.5	6.1	4.7
2	34	88	49	55	e19	75	81	47	11	6.3	5.7	4.5
3	27	66	42	45	e18	48	76	40	11	6.1	5.5	4.4
4	25	57	40	42	e18	33	123	37	36	15	5.2	4.3
5	24	53	40	52	e18	27	103	33	20	27	4.9	4.2
6	21	48	41	113	e17	20	76	30	17	22	5.1	4.2
7	20	44	44	68	e16	21	64	29	15	12	5.0	4.2
8	19	179	35	196	e15	19	55	28	12	9.5	14	4.4
9	17	161	33	110	e14	18	49	31	11	8.8	6.4	5.0
10	15	94	32	75	e12	19	44	30	10	7.5	45	4.6
11	18	77	30	62	e11	36	39	37	10	7.9	21	15
12	47	70	30	58	e11	35	58	25	10	8.5	12	7.2
13	29	69	40	60	e11	55	57	23	9.7	6.8	9.3	5.2
14	24	72	38	70	e11	142	50	21	10	6.1	7.4	4.9
15	23	62	34	147	e11	175	380	21	10	6.0	6.7	6.0
16	21	122	30	129	e10	94	954	24	11	5.9	6.9	5.0
17	69	152	27	e60	e11	73	236	23	10	5.5	9.5	4.6
18	94	91	26	e54	e10	54	129	21	8.4	9.5	6.6	4.5
19	57	77	23	e51	e11	45	93	22	8.5	8.2	6.1	4.5
20	158	68	23	e42	13	41	76	21	12	7.2	6.0	4.4
21	97	64	23	e38	15	37	67	19	8.2	6.1	10	4.4
22	67	60	27	e34	14	62	60	18	7.6	5.7	9.4	4.4
23	56	78	74	e31	14	116	53	17	7.2	14	7.7	4.2
24	48	72	46	e32	13	136	46	16	7.0	12	7.4	4.0
25	43	58	38	e28	13	184	51	15	7.0	7.3	6.7	4.0
26	38	50	65	e28	13	142	55	14	7.0	6.3	5.9	4.0
27	36	46	51	e28	13	213	65	13	9.1	6.8	5.5	5.1
28	333	44	44	e24	13	174	55	16	10	10	5.4	4.6
29	167	43	40	e24	---	117	49	13	7.5	12	5.3	4.2
30	100	44	38	e23	---	92	44	12	6.6	9.3	5.1	4.1
31	78	---	37	e19	---	81	---	11	---	6.8	5.1	---
Total	1,853	2,275	1,196	1,875	385	2,397	3,366	748	331.8	288.6	267.9	148.8
Mean	59.8	75.8	38.6	60.5	13.8	77.3	112	24.1	11.1	9.31	8.64	4.96
Max	333	179	74	196	20	213	954	47	36	27	45	15
Min	15	43	23	19	10	13	39	11	6.6	5.5	4.9	4.0
Cfsm	2.86	3.63	1.85	2.89	0.66	3.70	5.37	1.15	0.53	0.45	0.41	0.24
In.	3.30	4.05	2.13	3.34	0.69	4.27	5.99	1.33	0.59	0.51	0.48	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	28.1	36.8	44.6	39.1	39.9	72.9	79.4	49.2	33.2	21.5	15.6	17.3
Max	207	92.4	102	102	129	143	176	101	106	123	89.3	105
(WY)	(1956)	(2004)	(2004)	(2006)	(1981)	(1977)	(1956)	(1984)	(1973)	(1945)	(1955)	(2004)
Min	2.93	3.51	10.7	7.46	10.8	21.8	23.2	11.4	8.00	4.66	3.56	3.20
(WY)	(1965)	(1965)	(1999)	(1981)	(1980)	(2006)	(1946)	(1941)	(1965)	(1955)	(1962)	(1941)

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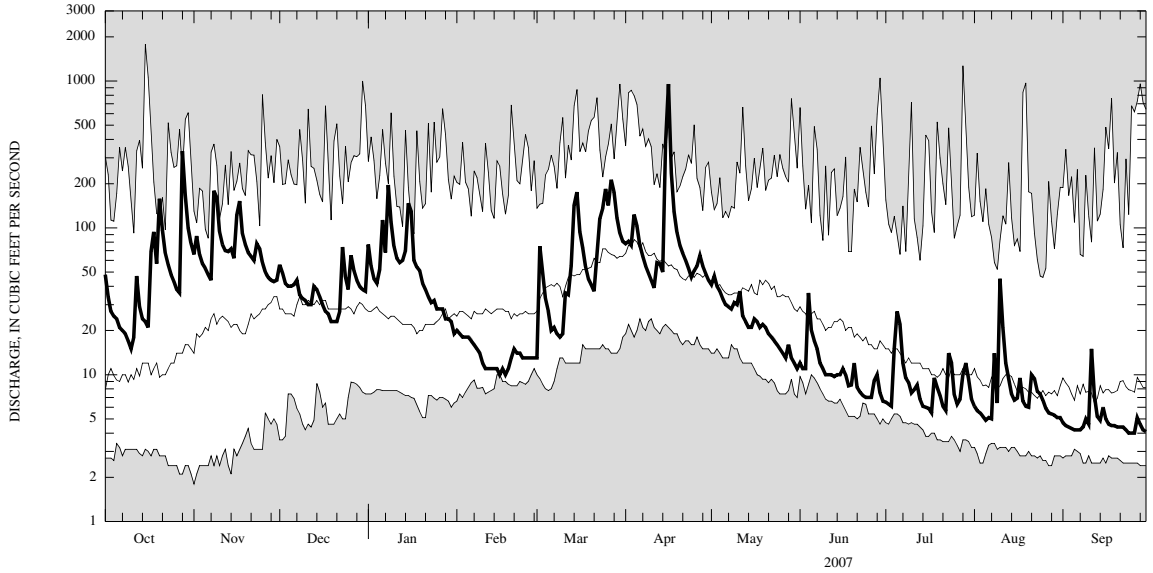
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1939 - 2007	
Annual total	18,794.8		15,132.1			
Annual mean	51.5		41.5		39.9	
Highest annual mean					63.7	2004
Lowest annual mean					18.3	1965
Highest daily mean	595	Jun 28	954	Apr 16	1,780	Oct 15, 1955
Lowest daily mean	7.2	Aug 18	4.0	Sep 24	1.8	Nov 1, 1964
Annual seven-day minimum	7.7	Aug 12	4.2	Sep 20	2.1	Oct 27, 1964
Annual runoff (cfsm)	2.46		1.98		1.91	
Annual runoff (inches)	33.45		26.93		25.93	
10 percent exceeds	94		84		84	
50 percent exceeds	34		23		23	
90 percent exceeds	15		5.5		6.0	



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.