01375000 CROTON RIVER AT NEW CROTON DAM, NEAR CROTON-ON-HUDSON, NY

LOCATION.--Lat 41°13'30", long 73°51'35", Westchester County, Hydrologic Unit 02030101, on left bank 1,000 ft downstream from New Croton Dam, and 1.8 mi northeast of Croton-On-Hudson.

DRAINAGE AREA.--378 mi^2.

PERIOD OF RECORD.--July 1933 to current year. Prior to Oct. 1, 1941, published as "at Quaker Bridge," (low-flow records at this site are not equivalent owing to well pumpage upstream). Fragmentary records published during August 1933 to September 1941 for "at Cornell Dam near Croton" and "at New Croton near Croton" are equivalent. Oct. 1, 1941 to Sept. 30, 1955 published as "at New Croton Dam near Croton".

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 50 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1941, supplementary water-stage recorder and concrete control at site 1.1 mi downstream at Quaker Bridge.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Entire flow, except for periods of spilling and releases to augment Croton-on-Hudson water supply, diverted from New Croton Reservoir for municipal supply of City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,400 ft^3/s, Oct. 16, 1955, gage height, 18.44 ft, from floodmarks, from rating curve extended above 9,700 ft^3/s, on basis of slope-area measurements of peak flow; minimum discharge not determined; minimum gage height, 0.11 ft, July 15, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,930 ft^3/s, Sept. 18, gage height, 7.60 ft; minimum discharge, 16 ft^3/s, July 10, 11, gage height, 1.16 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,010	1,470	1,100	1,190	e430	445	1,150	688	381	56	187	440
2	938	1,300	995	1,130	e420	489	1,170	662	401	50	135	433
3	817	1,180	918	1,090	e600	650	884	716	355	49	90	421
4	731	1,110	854	1,130	753	638	795	762	299	49	78	410
5	672	1,100	853	1,520	693	578	747	698	242	77	122	408
6	618	1,250	971	1,460	802	703	605	753	238	92	111	394
7	571	1,230	975	1,170	1,400	791	510	670	242	73	67	398
8	530	1,090	828	998	1,110	684	458	570	209	49	55	1,810
9	524	964	814	911	859	661	441	575	177	26	60	2,880
10	539	899	829	850	733	662	426	598	203	17	53	1,740
11	562	880	2,580	e840	682	610	402	619	183	17	126	1,090
12	562	911	3,590	e800	630	520	409	543	144	32	349	860
13	562	883	2,310	e780	593	456	1,070	509	117	206	332	743
14	543	871	1,880	e740	574	432	2,360	437	111	172	313	652
15	911	775	2,130	e700	560	411	1,800	369	118	106	318	607
16	876	726	1,880	e680	e490	477	1,190	464	109	70	613	727
17	720	723	2,010	e660	e480	530	972	405	149	60	709	656
18	661	714	3,080	e640	e460	497	893	320	349	68	465	3,820
19	653	833	2,350	e620	466	520	797	301	278	45	561	3,280
20	644	2,210	1,870	e600	470	519	760	265	165	35	588	1,800
21	633	1,830	1,560	e580	484	739	665	272	82	24	1,450	1,280
22	711	1,310	1,390	e580	532	759	617	277	61	19	1,810	1,030
23	640	1,100	1,310	e560	527	596	659	275	65	329	1,020	892
24	589	1,010	2,300	e540	495	537	685	382	49	770	768	786
25	563	1,070	3,860	e520	467	517	612	373	71	378	635	718
26	567	997	2,580	e520	427	494	980	305	183	223	542	679
27	1,130	925	2,080	e520	396	518	1,390	363	117	210	506	625
28	2,310	968	1,740	e560	382	501	1,060	509	67	542	494	980
29	2,490	1,490	1,540	e540	409	432	834	509	98	414	478	3,270
30	2,390	1,310	1,400	491	---	417	748	382	76	269	468	2,290
31	1,790	---	1,290	459	---	702	---	332	---	219	464	---
TOTAL	27,457	33,129	53,867	24,379	17,324	17,485	26,089	14,903	5,339	4,746	13,967	36,119
MEAN	886	1,104	1,738	786	597	564	870	481	178	153	451	1,204
MAX	2,490	2,210	3,860	1,520	1,400	791	2,360	762	401	770	1,810	3,820
MIN	524	714	814	459	382	411	402	265	49	17	53	394

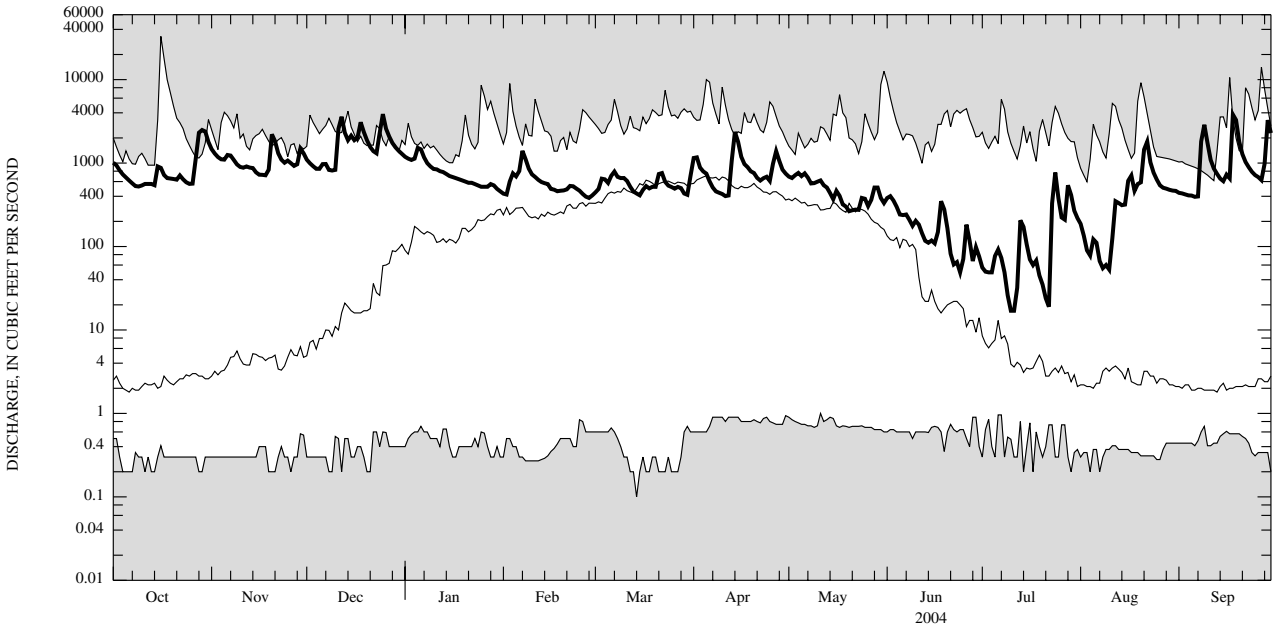
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2004, BY WATER YEAR (WY)

MEAN	178	203	323	335	410	663	690	422	240	106	113	130
MAX	3,160	1,815	1,950	1,123	1,608	1,599	2,469	1,667	1,832	921	1,179	1,204
(WY)	(1956)	(1956)	(1997)	(1978)	(1970)	(1953)	(1983)	(1989)	(1972)	(1984)	(1990)	(2004)
MIN	0.30	0.40	0.52	0.59	0.90	0.38	0.91	0.75	0.85	0.71	0.36	0.48
(WY)	(1966)	(1966)	(1966)	(1966)	(1967)	(1965)	(1965)	(1963)	(1965)	(1965)	(1981)	(1981)

01375000 CROTON RIVER AT NEW CROTON DAM, NEAR CROTON-ON-HUDSON, NY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1933 - 2004	
ANNUAL TOTAL	300,005		274,804			
ANNUAL MEAN	822		751		317	
HIGHEST ANNUAL MEAN					849	1956
LOWEST ANNUAL MEAN					0.90	1965
HIGHEST DAILY MEAN	3,860	Dec 25	3,860	Dec 25	33,000	Oct 16, 1955
LOWEST DAILY MEAN	130	Feb 16	17	Jul 10	0.10	Mar 14, 1965
ANNUAL SEVEN-DAY MINIMUM	151	Feb 12	44	Jul 6	0.20	Mar 12, 1965
10 PERCENT EXCEEDS	1,700		1,480		926	
50 PERCENT EXCEEDS	640		602		33	
90 PERCENT EXCEEDS	232		111		1.0	

e Estimated



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.