



Water-Data Report 2007

01391000 HOHOKUS BROOK AT HO-HO-KUS, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°59'52", long 74°06'43" referenced to North American Datum of 1983, Ho-Ho-Kus Borough, Bergen County, NJ, Hydrologic Unit 02030103, on left bank 500 ft upstream from bridge on Maple Avenue in Ho-Ho-Kus, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--16.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous-record gaging station, water years 1954-73, 1977-96, and 2006 to current year. Annual maximum, water years 1997 to 2005.

REVISED RECORDS.--WDR NJ-77-1: 1955(M), 1968(M), 1976(M). WDR NJ-95-1: 1984-94(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 120.09 ft above NGVD of 1929.

REMARKS.--Records fair. Some regulation and diurnal fluctuation at low and medium flows caused by unknown sources, possibly sewage treatment plant upstream of gage. Several measurements of water temperature were made during the year. Satellite stage telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 28	0945	969	3.08
Nov 8	1715	2,350	4.33
Mar 2	0900	2,470	4.47
Apr 15	2300	*3,180	*5.33
Jul 11	1830	568	2.77
Aug 8	0645	1,050	3.14

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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	75	40	50	159	30	31	41	52	25	20	20	17
2	38	53	79	84	31	764	45	61	24	19	19	16
3	27	41	46	52	33	104	43	50	30	18	19	17
4	26	35	42	46	30	65	80	47	135	25	20	16
5	69	34	39	44	28	51	70	44	51	36	17	17
6	31	32	37	45	27	43	49	42	31	22	18	18
7	26	31	38	41	27	39	45	41	28	19	18	20
8	24	767	35	163	27	37	43	39	27	18	174	20
9	25	275	33	78	27	35	41	39	26	18	33	18
10	25	88	34	55	27	35	39	38	25	18	72	24
11	70	67	33	47	26	44	39	50	25	74	39	43
12	134	60	33	45	26	39	e144	41	25	53	25	26
13	44	57	37	47	26	38	78	36	24	23	21	19
14	33	72	39	47	28	38	52	34	24	20	21	18
15	30	53	34	52	29	49	1,140	34	23	18	20	17
16	29	61	33	46	25	63	1,360	84	24	19	20	16
17	57	111	32	41	25	59	194	76	22	18	24	17
18	103	61	32	39	25	48	120	40	22	71	22	16
19	46	51	31	41	23	42	97	37	22	53	19	16
20	68	46	30	39	25	52	85	36	26	26	18	16
21	47	43	30	35	28	58	73	33	24	20	68	16
22	37	43	30	35	35	74	67	31	26	18	38	19
23	35	75	90	35	42	109	63	30	21	134	25	18
24	32	74	56	34	30	81	60	29	20	62	23	16
25	30	50	42	35	28	76	56	29	20	28	21	16
26	29	45	69	32	29	61	60	27	20	24	20	16
27	29	42	45	32	28	58	175	27	27	22	19	16
28	394	41	38	33	29	54	82	26	44	38	19	16
29	93	40	36	33	---	48	64	26	28	25	18	15
30	52	39	34	31	---	45	58	26	22	24	18	15
31	44	---	33	31	---	43	---	25	---	22	17	---
Total	1,802	2,527	1,270	1,577	794	2,383	4,563	1,230	891	1,005	925	550
Mean	58.1	84.2	41.0	50.9	28.4	76.9	152	39.7	29.7	32.4	29.8	18.3
Max	394	767	90	163	42	764	1,360	84	135	134	174	43
Min	24	31	30	31	23	31	39	25	20	18	17	15
Cfsm	3.54	5.14	2.50	3.10	1.73	4.69	9.27	2.42	1.81	1.98	1.82	1.12
In.	4.09	5.73	2.88	3.58	1.80	5.41	10.35	2.79	2.02	2.28	2.10	1.25

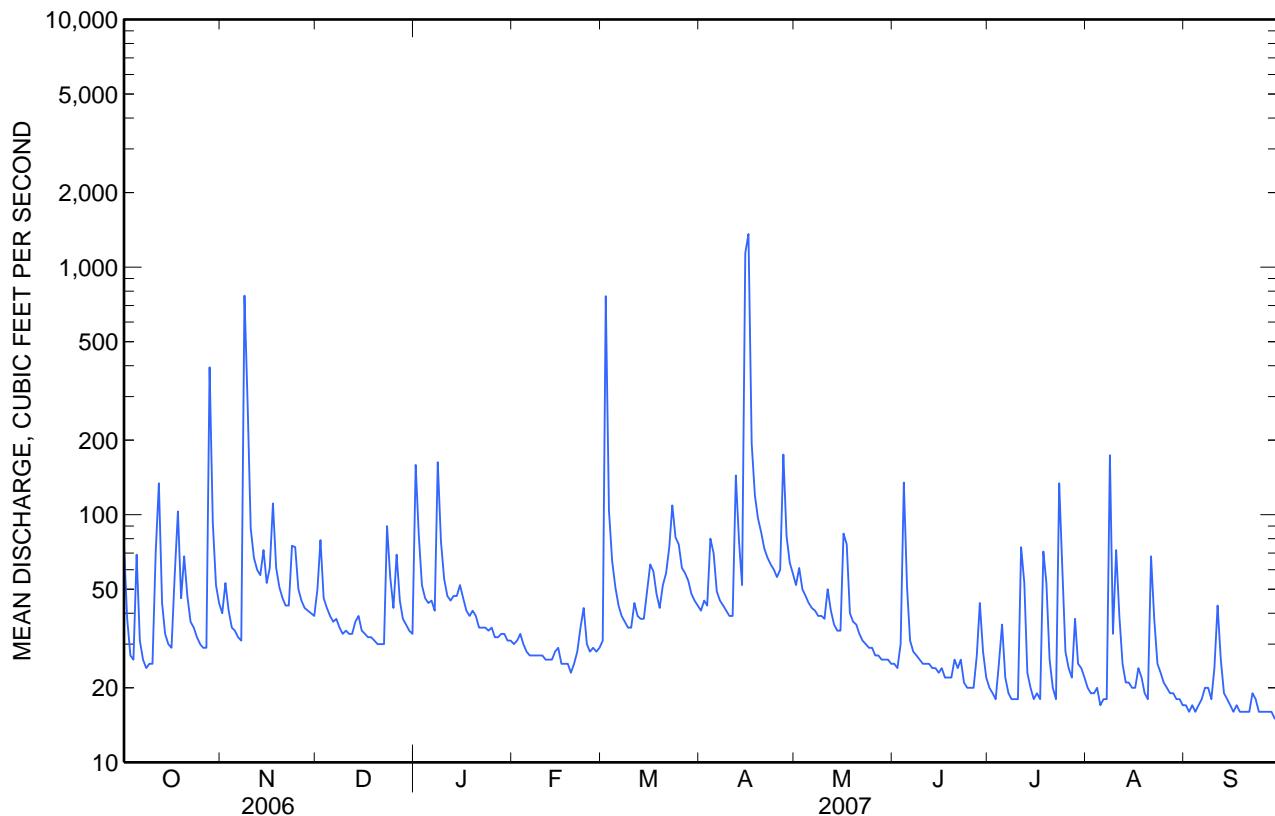
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	28.9	37.5	36.8	36.8	41.0	51.4	55.9	40.5	31.1	25.9	25.1	23.3
Max	136	102	91.7	85.9	90.0	93.4	152	108	101	85.5	84.9	96.5
(WY)	(2006)	(1978)	(1984)	(1996)	(1973)	(1994)	(2007)	(1989)	(1972)	(1984)	(1955)	(1971)
Min	6.21	7.10	12.3	9.07	15.3	20.8	19.4	13.9	7.58	3.91	5.17	5.78
(WY)	(1965)	(1965)	(1981)	(1981)	(1980)	(1981)	(1985)	(1955)	(1965)	(1966)	(1966)	(1964)

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	Calendar Year 2006	Water Year 2007		Water Years 1954 - 2007	
Annual total	17,195		19,517		
Annual mean	47.1		53.5		^a 36.0
Highest annual mean					^a 61.3
Lowest annual mean					^a 16.1
Highest daily mean	767	Nov 8	1,360	Apr 16	^a 1,360 Apr 16, 2007
Lowest daily mean	17	Aug 22	15	Sep 29, 30	^a 2.5 Jul 13, 1966
Annual seven-day minimum	18	Aug 18	16	Sep 24	^a 2.8 Aug 2, 1966
Maximum peak flow			3,180	Apr 15	4,670 Sep 16, 1999
Maximum peak stage			5.33	Apr 15	7.32 Sep 16, 1999
Instantaneous low flow			10	Sep 29, 30	1.9 Aug 2, 1966
Annual runoff (cfsm)	2.87		3.26		^a 2.19
Annual runoff (inches)	39.00		44.27		^a 29.81
10 percent exceeds	75		75		^a 64
50 percent exceeds	32		34		^a 25
90 percent exceeds	22		18		^a 11

^a Monthly and annual statistics based on water years 1954-73, 1977-96, and 2006 to current year.



01391000 HOHOKUS BROOK AT HO-HO-KUS, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1959, 1962-63, 1979-80, 2001, 2007.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 2

[Remark codes: E, estimated.]

Date	Time	Turbdty white Instan- taneous dis- charge, corrctd light, det ang 90+/-30	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfiltrd field, std units (00400)	Specif- ic conduc- tance, wat unf 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	ANC, wat unf fixed end pt, lab, CaCO ₃ (90410)	Chlor- ide, water, filtrd, mg/L (00940)	Residue on evap. 180degC wat flt mg/L (70300)	
Jul 19...	1250	45	4.1	750	8.2	95	7.6	629	24.5	22.9	78	112	381
Aug 02...	1030	20	1.7	757	8.3	99	7.7	877	25.0	24.0	104	157	521
Sep 17...	1300	20	1.9	765	9.4	105	7.8	929	18.5	20.4	108	173	549

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 2

[Remark codes: E, estimated.]

Date	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, unfiltrd mg/L (00625)	Nitrate + Ammonia water, filtrd, mg/L (00608)	Total nitrite water, unfiltrd mg/L (00631)	Phos- phorus, water, filtrd, mg/L (00600)	Phos- phorus, water, unfiltrd mg/L (00666)	Organic carbon, water, unfiltrd mg/L (00680)	Chloro- phyll a, phyto- plankton, fluoro, µg/L (70953)	Pheo- phytin a, phyto- plankton, fluoro, µg/L (62360)	Boron, water, unfiltrd recover- able, µg/L (01022)	Iron, water, unfiltrd recover- able, µg/L (01045)	
Jul 19...	3	.78	.065	6.80	7.6	1.13	1.18	6.3	3.5	2.9	108	211
Aug 02...	1	.66	E.039	9.92	11	1.75	1.75	5.4	1.9	2.3	163	127
Sep 17...	2	.71	.023	13.0	14	2.36	2.22	5.8	1.3	1.6	258	102