



Water-Data Report 2009

**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 mi<sup>2</sup>.

**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 telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 12	0530	*1,430	*3.43
May 7	0500	954	3.06
Jul 21	1615	655	2.83
Aug 2	1500	1,360	3.38

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

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**  
[*e*, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	e34	27	64	42	30	27	30	27	24	59	94	29
<b>2</b>	29	26	38	41	31	29	43	33	24	94	293	28
<b>3</b>	26	25	32	39	34	27	65	32	28	50	118	27
<b>4</b>	25	24	30	38	31	26	54	32	61	36	60	26
<b>5</b>	35	25	29	38	28	26	35	36	52	32	47	25
<b>6</b>	30	29	28	38	27	27	48	68	48	32	42	24
<b>7</b>	25	27	28	97	27	29	45	255	31	32	37	24
<b>8</b>	24	26	26	69	42	29	34	65	29	78	34	24
<b>9</b>	24	26	26	44	40	41	31	59	119	38	33	24
<b>10</b>	23	25	46	39	34	35	30	40	50	33	64	25
<b>11</b>	22	24	139	40	37	31	39	35	74	30	40	39
<b>12</b>	22	23	620	36	46	28	33	35	93	e41	40	62
<b>13</b>	23	31	84	34	38	26	29	33	48	29	41	38
<b>14</b>	22	63	56	34	32	27	29	32	46	27	36	28
<b>15</b>	22	107	49	32	30	26	33	34	163	25	32	26
<b>16</b>	22	93	48	30	29	26	30	32	121	25	30	26
<b>17</b>	21	46	60	29	28	26	28	72	53	28	28	26
<b>18</b>	21	36	49	31	30	26	26	37	198	e69	27	26
<b>19</b>	20	32	46	32	47	27	26	33	141	e34	26	25
<b>20</b>	21	31	44	31	34	27	35	32	73	e29	26	24
<b>21</b>	21	29	44	30	29	26	91	30	110	180	55	24
<b>22</b>	20	27	41	29	29	25	61	29	69	74	136	24
<b>23</b>	19	26	37	28	28	25	44	28	52	42	50	24
<b>24</b>	19	27	54	29	27	24	34	26	47	41	34	23
<b>25</b>	46	47	102	28	26	25	31	26	43	49	30	21
<b>26</b>	78	36	60	27	26	26	30	e26	42	37	29	22
<b>27</b>	32	30	54	26	27	38	28	26	43	45	27	53
<b>28</b>	109	28	72	53	29	28	27	26	37	85	32	33
<b>29</b>	63	27	65	55	---	41	25	37	35	154	80	28
<b>30</b>	35	42	51	34	---	39	25	29	52	87	50	26
<b>31</b>	29	---	48	31	---	29	---	26	---	162	34	---
<b>Total</b>	962	1,065	2,170	1,184	896	892	1,119	1,331	2,006	1,777	1,705	854
<b>Mean</b>	31.0	35.5	70.0	38.2	32.0	28.8	37.3	42.9	66.9	57.3	55.0	28.5
<b>Max</b>	109	107	620	97	47	41	91	255	198	180	293	62
<b>Min</b>	19	23	26	26	26	24	25	26	24	25	26	21
<b>Cfsm</b>	1.89	2.16	4.27	2.33	1.95	1.75	2.27	2.62	4.08	3.50	3.35	1.74
<b>In.</b>	2.18	2.42	4.92	2.69	2.03	2.02	2.54	3.02	4.55	4.03	3.87	1.94

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2009, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	29.0	37.0	37.5	37.0	41.7	51.7	54.8	41.0	31.9	26.7	26.1	24.5
<b>Max</b>	136	102	91.7	85.9	90.0	95.6	152	108	101	85.5	84.9	96.5
(WY)	(2006)	(1978)	(1984)	(1996)	(1973)	(2008)	(2007)	(1989)	(1972)	(1984)	(1955)	(1971)
<b>Min</b>	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)

**SUMMARY STATISTICS**

	Calendar Year 2008		Water Year 2009		Water Years 1955 - 2009	
<b>Annual total</b>	19,117		15,961			
<b>Annual mean</b>	52.2		43.7		b36.5	
<b>Highest annual mean</b>					b61.3	1984
<b>Lowest annual mean</b>					b16.1	1965
<b>Highest daily mean</b>	620	Dec 12	620	Dec 12	b1,360	Apr 16, 2007
<b>Lowest daily mean</b>	17	Aug 31	19	Oct 23	b2.5	Jul 13, 1966
<b>Annual seven-day minimum</b>	18	Aug 26	20	Oct 18	b2.8	Aug 2, 1966
<b>Maximum peak flow</b>			a1,430	Dec 12	a4,670	Sep 16, 1999
<b>Maximum peak stage</b>			3.43	Dec 12	7.32	Sep 16, 1999
<b>Instantaneous low flow</b>			14	Oct 24	b1.9	Aug 2, 1966
<b>Annual runoff (cfsm)</b>	3.18		2.67		b2.23	
<b>Annual runoff (inches)</b>	43.36		36.20		b30.27	
<b>10 percent exceeds</b>	83		69		b65	
<b>50 percent exceeds</b>	38		32		b26	
<b>90 percent exceeds</b>	20		25		b11	

<sup>a</sup> From rating extended above 850 ft<sup>3</sup>/s on basis of flow-over-dam computation.

<sup>b</sup> Statistics based on water years 1954-73, 1977-96, and 2006 to current year.

