



2005 Water Year NESHAMINY CREEK BASIN

01464645 NB Neshaminy Cr bl Lake Galena nr New Britain, PA

Latitude: 40° 18' 44"

Longitude: 075° 12' 25"

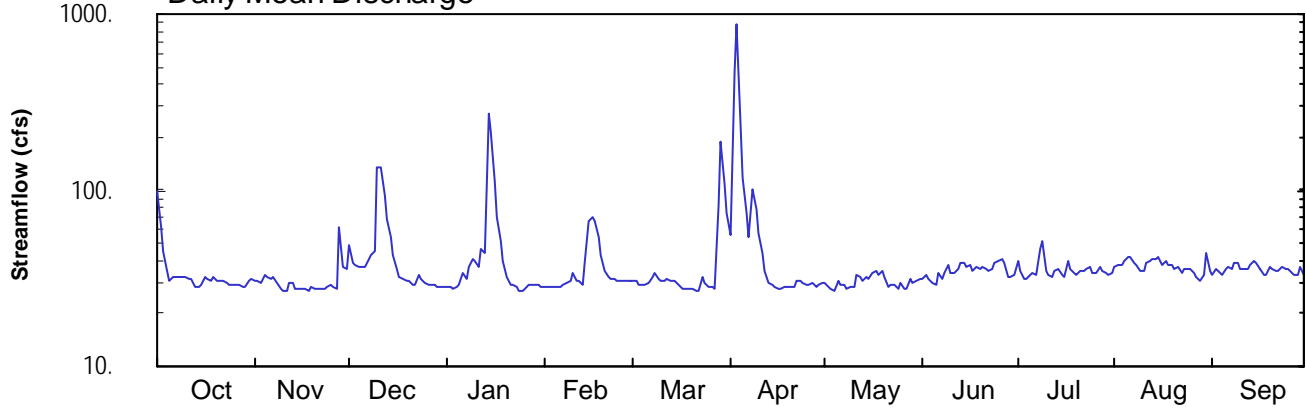
Hydrologic Unit Code: 02040201

Bucks County

Datum: 280 feet

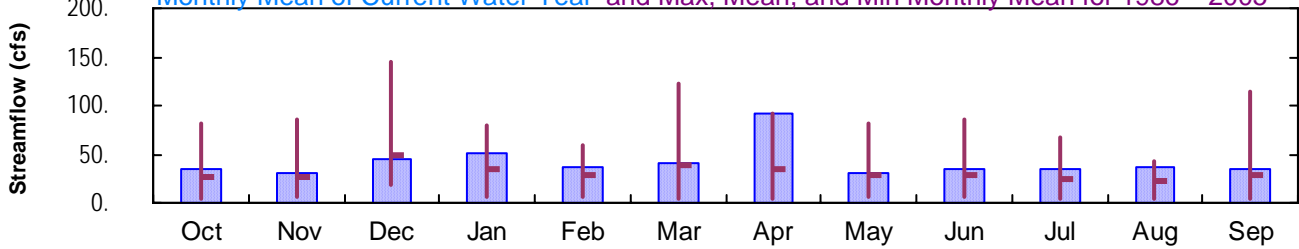
Drainage Area: 16.2 mi²

Daily Mean Discharge

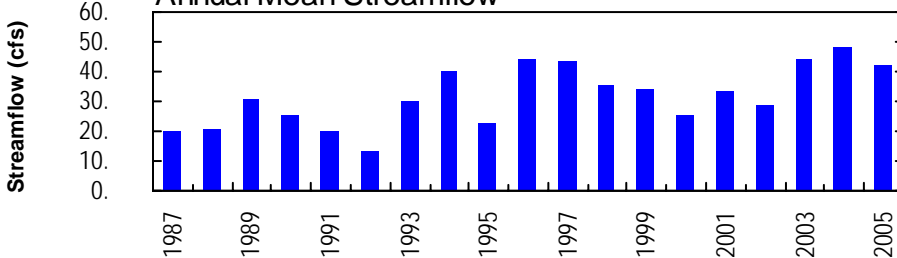


Monthly Statistics

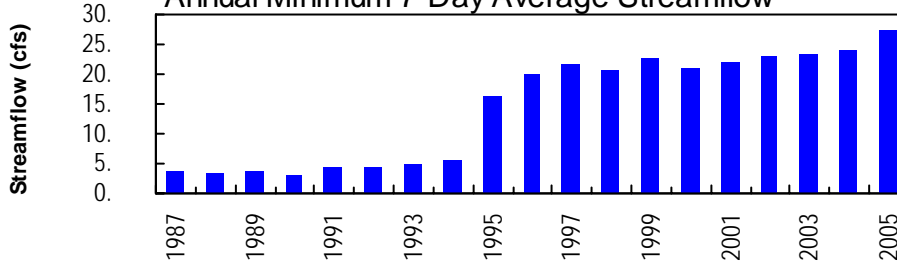
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1986 – 2005



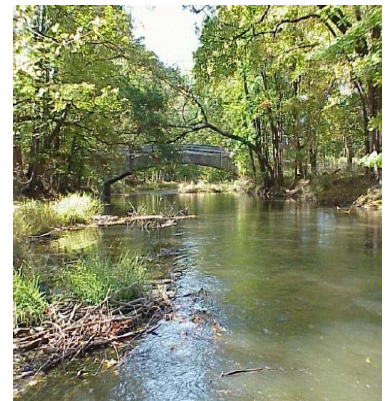
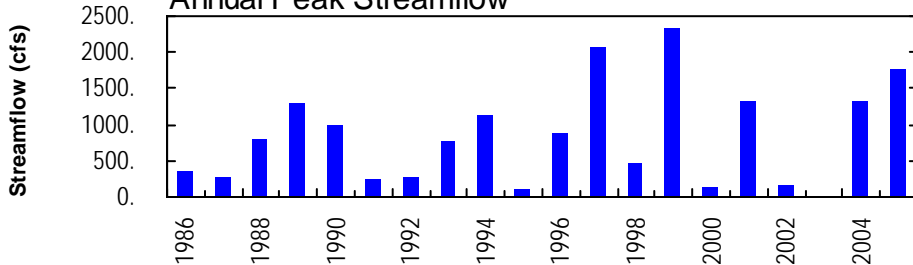
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NESHAMINY CREEK BASIN

01464645 NORTH BRANCH NESHAMINY CREEK BELOW LAKE GALENA NEAR NEW BRITAIN, PA

LOCATION.--Lat 40°18'44", long 75°12'25", Bucks County, Hydrologic Unit 02040201, on left bank 0.3 mi downstream from Lake Galena (Peace Valley Reservoir), 1.5 mi west of New Britain, 2.0 mi north of Chalfont on Callowhill Road, and 4.0 mi west of Doylestown.

DRAINAGE AREA.--16.2 mi².

PERIOD OF RECORD.--November 1985 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 280 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Lake Galena (Peace Valley Reservoir). Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

COOPERATION.--Records of change in contents in Lake Galena provided by Forest Park Water Company.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	31	48	28	28	31	56	30	31	39	37	33
2	62	31	39	28	28	30	473	28	33	35	38	36
3	46	30	38	28	28	29	883	28	32	31	38	35
4	35	33	37	28	28	29	241	27	30	32	40	33
5	31	32	36	29	28	29	117	31	29	34	42	36
6	33	32	36	34	29	29	74	29	34	34	42	37
7	33	32	41	31	29	33	54	29	31	33	39	36
8	33	29	43	37	30	34	103	28	34	46	37	39
9	33	28	45	41	31	31	79	28	37	51	35	38
10	32	27	135	40	34	31	57	28	34	35	35	36
11	32	27	136	37	31	31	44	33	34	33	39	36
12	32	30	95	46	30	31	35	32	36	32	40	36
13	28	30	68	45	29	31	29	31	39	35	41	38
14	28	27	54	271	39	31	29	32	39	36	41	39
15	29	27	43	217	67	30	28	32	37	33	42	39
16	32	28	35	112	70	28	28	34	38	32	37	35
17	32	28	32	71	67	27	28	35	35	39	39	33
18	31	27	31	51	54	27	28	33	37	36	37	33
19	32	29	31	39	43	27	28	35	36	34	38	37
20	31	27	31	32	35	27	28	32	37	33	36	36
21	31	27	29	29	33	27	28	28	36	35	37	35
22	30	27	29	29	31	27	31	29	35	35	34	35
23	30	27	33	28	31	32	31	29	36	35	36	e37
24	29	28	31	27	31	30	30	28	38	36	36	e36
25	29	29	30	27	31	28	29	30	40	34	36	e36
26	29	28	29	28	31	28	29	28	40	34	34	e34
27	29	28	29	29	31	28	30	28	39	37	33	33
28	28	61	29	29	31	83	29	31	32	35	30	33
29	28	37	28	29	---	189	29	30	32	34	33	37
30	30	36	28	29	---	111	30	31	33	33	44	33
31	31	---	28	29	---	74	---	32	---	34	35	---
TOTAL	1067	913	1377	1558	1008	1253	2738	939	1054	1095	1161	1070
MEAN	34.4	30.4	44.4	50.3	36.0	40.4	91.3	30.3	35.1	35.3	37.5	35.7
MAX	98	61	136	271	70	189	883	35	40	51	44	39
MIN	28	27	28	27	28	27	28	27	29	31	30	33
(≠)	-27.2	+10.9	+2.9	+1.3	+2.3	+5.0	-14.5	+3.7	+2.9	+3.3	-9.1	-22.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2005, BY WATER YEAR (WY)

MEAN	26.0	26.3	49.8	35.2	28.4	39.8	35.6	29.0	28.7	24.8	21.9	27.9
MAX	81.8	86.4	145	80.4	58.8	123	91.3	81.1	85.6	66.9	43.8	114
(WY)	1997	1996	1997	1996	1988	1994	2005	1998	2003	2004	2003	1999
MIN	3.91	5.85	17.5	6.62	5.36	4.75	4.68	6.55	5.38	4.92	4.97	3.63
(WY)	1989	1992	1995	1986	1989	1988	1988	1986	1986	1990	1987	1988

≠ Change in contents, equivalent in cubic feet per second, in Lake Galena.

e Estimated.

NESHAMINY CREEK BASIN

01464645 NORTH BRANCH NESHAMINY CREEK BELOW LAKE GALENA NEAR NEW BRITAIN, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1986 - 2005	
ANNUAL TOTAL	14424		15233			
ANNUAL MEAN	39.4		41.7		31.6	
HIGHEST ANNUAL MEAN					47.8	
LOWEST ANNUAL MEAN					13.1	
HIGHEST DAILY MEAN	718	Sep 29	883	Apr 3	1040	Sep 17 1999
LOWEST DAILY MEAN	23	Mar 15	27	Nov 10 ^a	3.1	Dec 22 1989
ANNUAL SEVEN-DAY MINIMUM	24	Mar 12	27	Mar 16	3.1	Dec 22 1989
MAXIMUM PEAK FLOW			b1770	Apr 2	b2340	Sep 16 1999
MAXIMUM PEAK STAGE			4.83	Apr 2	4.96	Sep 16 1999
10 PERCENT EXCEEDS	43		45		54	
50 PERCENT EXCEEDS	30		33		25	
90 PERCENT EXCEEDS	26		28		5.3	

^a Also Nov. 11, 14, 15, 18, 20-23; Jan. 24, 25; Mar. 17-22; May 4.
^b From rating curve extended above 580 ft³/s on basis of slope-conveyance computation.

