



2004 Water Year NESHAMINY CREEK BASIN

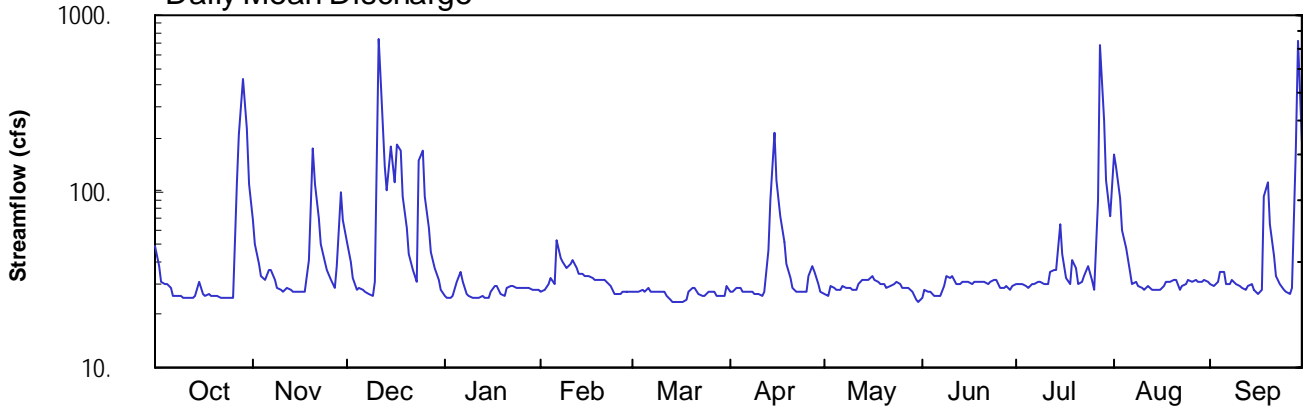
01464645 NB Neshaminy Cr bl Lake Galena nr New Britain, PA

Latitude: 40° 18' 44"
Bucks County

Longitude: 075° 12' 25"
Datum: 280 feet

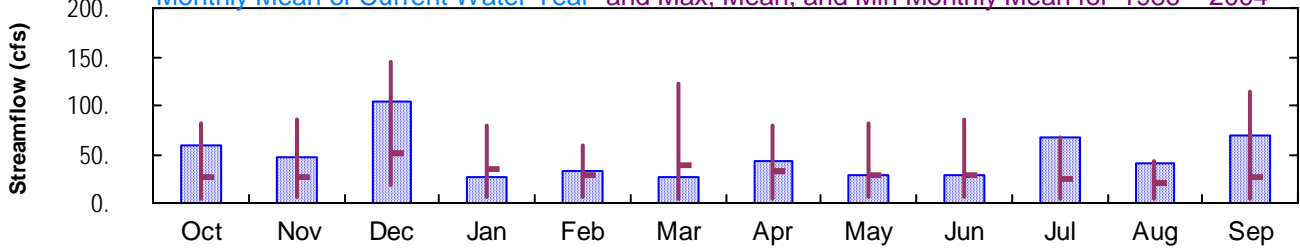
Hydrologic Unit Code: 02040201
Drainage Area: 16.2 mi²

Daily Mean Discharge

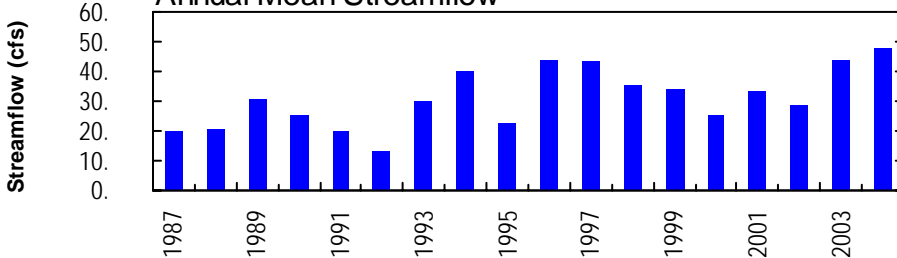


Monthly Statistics

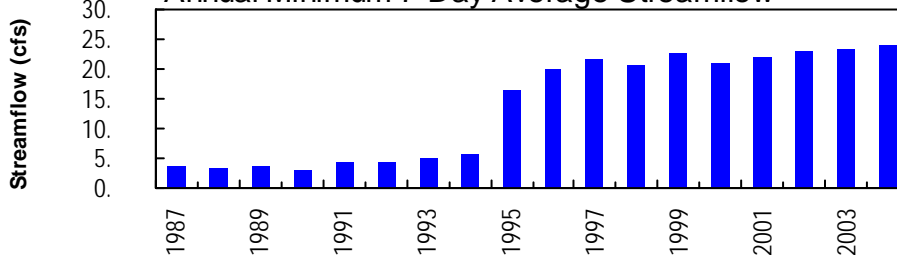
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1986 – 2004



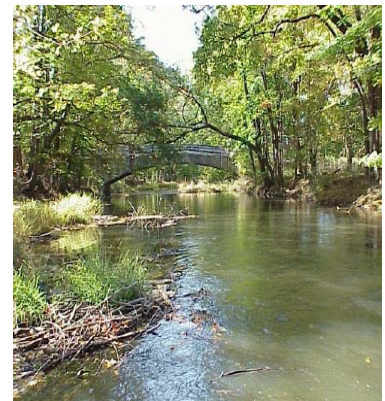
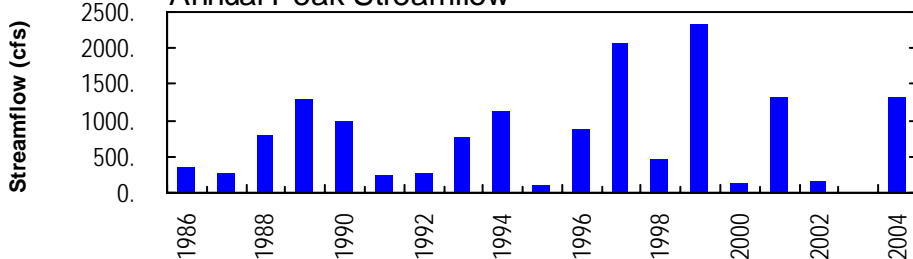
Annual Mean Streamflow



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.--No estimated daily discharges. Records 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	69	51	25	27	27	27	26	25	30	160	30
2	37	50	39	25	27	27	27	26	28	30	138	29
3	31	39	32	25	29	27	28	29	27	30	92	31
4	30	33	28	25	32	27	28	28	27	29	61	34
5	30	31	28	31	30	27	27	27	26	28	47	34
6	29	36	27	35	52	29	27	27	26	30	35	30
7	26	36	27	30	42	27	27	29	26	30	30	30
8	26	32	26	26	39	27	27	28	29	31	30	31
9	25	28	26	25	37	27	26	28	33	30	29	30
10	25	27	31	25	39	27	26	28	32	30	28	29
11	25	27	741	25	41	27	26	27	33	30	28	28
12	25	28	397	25	37	26	27	29	30	35	29	28
13	25	27	139	26	34	24	46	32	30	36	28	29
14	25	27	101	25	34	24	89	31	30	36	28	30
15	30	27	178	25	33	23	213	31	31	64	27	28
16	26	27	112	27	33	24	116	33	30	44	27	26
17	26	27	182	29	32	23	71	32	30	33	29	27
18	26	27	172	29	32	24	51	31	30	30	31	94
19	26	40	94	26	32	27	39	30	31	41	30	113
20	26	176	62	26	31	29	32	29	31	36	32	65
21	25	109	45	29	31	28	28	28	31	30	32	43
22	25	70	36	29	31	26	27	29	30	31	27	33
23	25	50	31	29	29	26	27	29	30	33	29	30
24	25	40	150	28	26	25	27	31	31	37	30	28
25	25	36	172	28	26	27	27	30	31	32	31	27
26	25	31	94	28	26	27	33	28	28	28	30	26
27	114	28	62	28	27	27	38	28	28	89	31	29
28	211	38	45	28	27	26	35	28	29	673	31	170
29	434	100	37	27	27	26	30	27	28	251	31	718
30	226	69	31	27	---	26	27	24	29	115	32	192
31	110	---	27	27	---	29	---	24	---	72	30	---
TOTAL	1813	1385	3223	843	943	816	1279	887	880	2074	1273	2072
MEAN	58.5	46.2	104	27.2	32.5	26.3	42.6	28.6	29.3	66.9	41.1	69.1
MAX	434	176	741	35	52	29	213	33	33	673	160	718
MIN	25	27	26	25	26	23	26	24	25	28	27	26
(≠)	+1.5	-1.7	-3.6	-16.3	+6.4	+3.1	+6.7	-4.1	+2.7	+5.7	-5.0	+10.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
MEAN	25.5	26.1	50.1	34.4	28.0	39.7	32.6	29.0	28.4	24.2	21.1	27.5								
MAX	81.8	86.4	145	80.4	58.8	123	80.0	81.1	85.6	66.9	43.8	114								
(WY)	1997	1996	1997	1996	1988	1994	1996	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.

NESHAMINY CREEK BASIN

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

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1986 - 2004	
ANNUAL TOTAL	19303		17488			
ANNUAL MEAN	52.9		47.8		31.1	
HIGHEST ANNUAL MEAN					47.8	
LOWEST ANNUAL MEAN					13.1	
HIGHEST DAILY MEAN	741	Dec 11	741	Dec 11	1040	Sep 17 1999
LOWEST DAILY MEAN	23	Feb 8,9	23	Mar 15,17	3.1	Dec 22 1989
ANNUAL SEVEN-DAY MINIMUM	24	Feb 3	24	Mar 12	3.1	Dec 22 1989
MAXIMUM PEAK FLOW			a1330	Dec 11	a2340	Sep 16 1999
MAXIMUM PEAK STAGE			4.50	Dec 11	4.96	Sep 16 1999
10 PERCENT EXCEEDS	106		71		55	
50 PERCENT EXCEEDS	31		29		24	
90 PERCENT EXCEEDS	25		26		5.2	

a From rating curve extended above 580 ft³/s on basis of slope-conveyance computation.