



2004 Water Year NESHAMINY CREEK BASIN

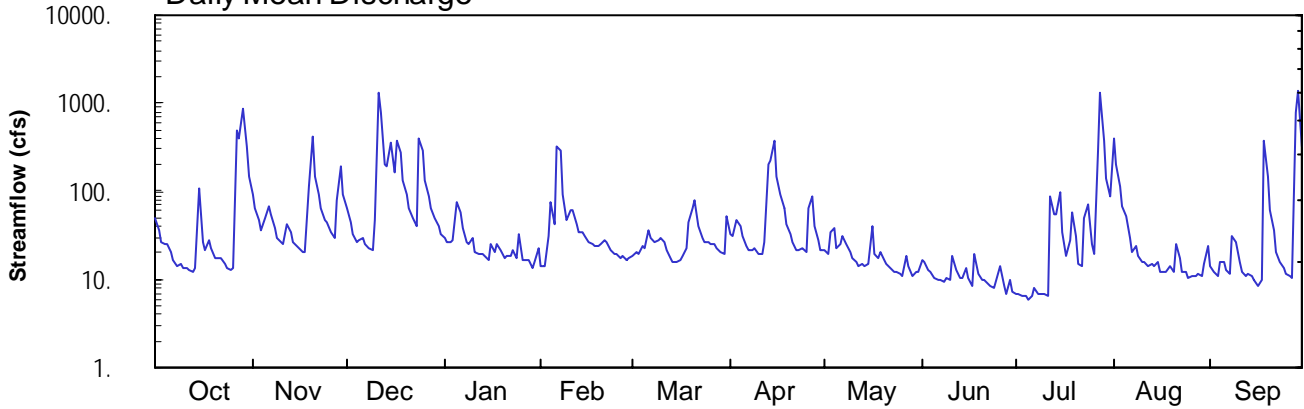
01464720 NB Neshaminy Creek at Chalfont, PA

Latitude: 40° 17' 17"
Bucks County

Longitude: 075° 12' 15"
Datum: 250 feet

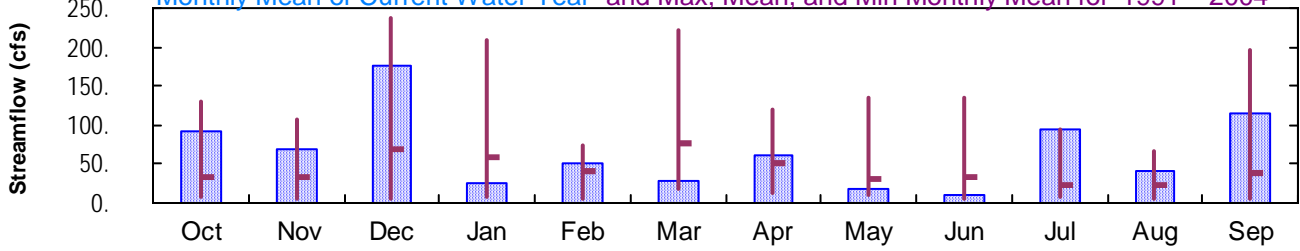
Hydrologic Unit Code: 02040201
Drainage Area: 31.5 mi²

Daily Mean Discharge

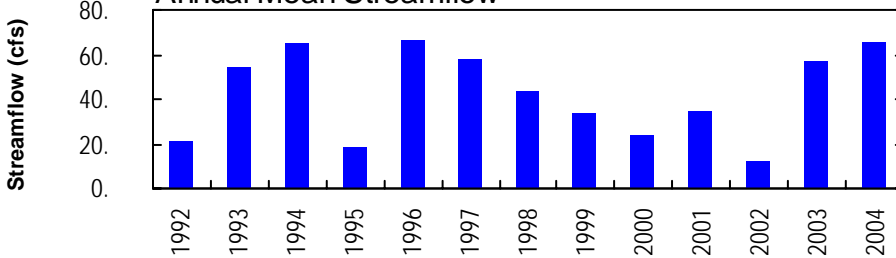


Monthly Statistics

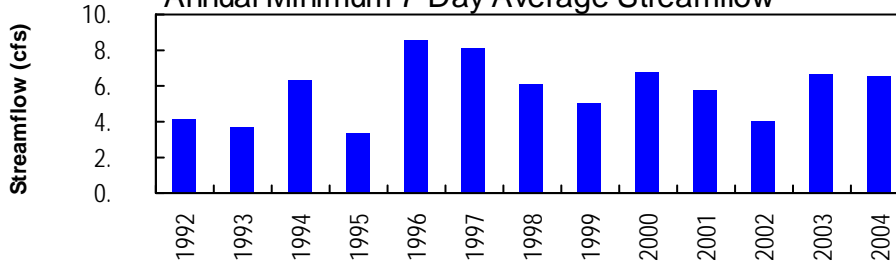
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1991 – 2004



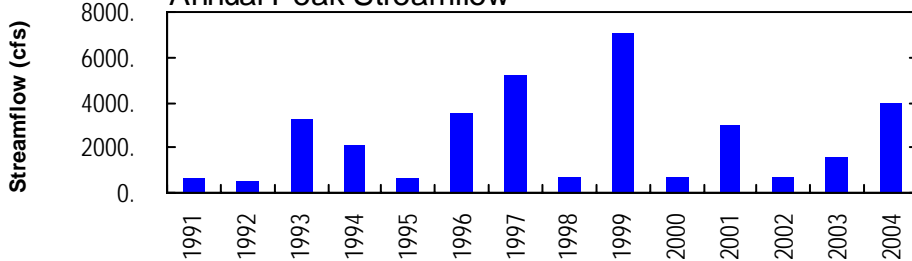
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NESHAMINY CREEK BASIN

01464720 NORTH BRANCH NESHAMINY CREEK AT CHALFONT, PA

LOCATION.--Lat 40°17'17", long 75°12'15", Bucks County, Hydrologic Unit 02040201, on right bank 250 ft upstream from Route 202 bridge in Chalfont, and 0.6 mi upstream from mouth.

DRAINAGE AREA.--31.5 mi².

PERIOD OF RECORD.--December 1990 to current year.

REVISED RECORDS.--WDR PA-99-1: 1993-98(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 250 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those above 1.270 ft³/s, which are poor. Diversion for municipal supply by Forest Park Water Company upstream of gage. Flow regulated by Lake Galena (Peace Valley Reservoir) 1.8 mi upstream, drainage area 15.8 mi², normal pool capacity 6,539 acre-ft. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

COOPERATION.--Records of diversion 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	51	92	63	29	14	18	32	22	17	6.7	393	15
2	37	64	45	26	14	21	31	20	16	6.8	204	12
3	27	48	33	26	32	20	47	35	13	6.4	112	11
4	25	37	26	27	76	24	40	37	12	6.5	68	15
5	26	50	28	74	42	23	32	23	11	6.0	53	16
6	21	69	29	59	315	37	24	25	9.9	6.4	29	13
7	16	55	25	37	289	29	22	32	10	7.8	21	12
8	14	39	23	26	91	26	21	25	9.4	6.8	24	31
9	15	30	22	25	48	28	23	21	10	7.0	19	27
10	13	26	48	30	60	29	20	17	10	6.7	16	15
11	14	26	1320	21	60	26	19	16	18	6.4	16	12
12	13	42	801	20	42	21	26	14	13	90	14	11
13	12	34	202	20	34	17	199	15	11	56	15	12
14	13	26	187	18	35	16	223	14	11	54	14	11
15	105	24	357	17	31	15	377	15	13	95	15	9.8
16	27	23	163	26	26	17	150	40	11	34	12	8.4
17	22	21	370	20	25	19	93	20	8.5	18	12	9.7
18	29	20	277	25	24	23	63	17	19	28	12	370
19	22	114	135	22	24	45	43	21	12	59	14	149
20	18	428	90	17	25	65	33	17	10	32	12	63
21	17	151	63	18	28	78	26	15	9.7	15	25	36
22	17	92	49	18	27	40	22	13	8.9	14	17	20
23	15	63	41	21	22	29	21	12	8.6	49	12	16
24	13	47	391	18	20	26	23	12	7.8	71	12	14
25	13	46	292	33	20	27	20	11	10	26	11	12
26	14	35	133	16	17	25	65	11	14	19	11	11
27	497	29	89	17	18	25	89	18	8.6	289	11	10
28	398	79	65	17	17	23	41	14	6.8	1290	11	770
29	868	196	49	14	17	20	27	11	9.8	380	11	1370
30	320	92	41	16	---	20	22	12	7.2	137	15	331
31	145	---	32	23	---	53	---	12	---	89	24	---
TOTAL	2837	2098	5489	776	1493	885	1874	587	336.2	2918.5	1235	3412.9
MEAN	91.5	69.9	177	25.0	51.5	28.5	62.5	18.9	11.2	94.1	39.8	114
MAX	868	428	1320	74	315	78	377	40	19	1290	393	1370
MIN	12	20	22	14	14	15	19	11	6.8	6.0	11	8.4
(†)	22.8	22.5	22.3	22.7	23.7	23.1	24.2	25.9	26.0	25.8	25.4	24.6
(≠)	+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 1991 - 2004, BY WATER YEAR (WY)

MEAN	32.4	32.7	69.9	58.3	39.6	76.7	49.8	31.2	32.5	23.6	23.1	37.2
MAX	131	108	236	209	74.6	222	121	136	136	94.1	67.5	197
(WY)	1997	1996	1997	1996	1998	1994	1996	1998	2003	2004	1994	1999
MIN	6.76	4.86	5.06	7.43	6.09	18.6	11.8	11.1	5.92	7.65	4.82	5.86
(WY)	2002	2002	2002	2002	2002	2002	1995	1995	1995	1999	1995	1992

† Diversion by Forest Park Water Company, equivalent in cubic feet per second.

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

NESHAMINY CREEK BASIN

01464720 NORTH BRANCH NESHAMINY CREEK AT CHALFONT, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1991 - 2004	
ANNUAL TOTAL	27062.4		23941.6			
ANNUAL MEAN	74.1		65.4		42.6	
HIGHEST ANNUAL MEAN					67.0 1996	
LOWEST ANNUAL MEAN					12.1 2002	
HIGHEST DAILY MEAN	1320	Dec 11	1370	Sep 29	2090	Sep 16 1999
LOWEST DAILY MEAN	e 7.0	Feb 21	6.0	Jul 5	2.3	Aug 18 1991
ANNUAL SEVEN-DAY MINIMUM	a 7.9	Feb 15	6.6	Jun 30	3.0	Aug 12 1991
MAXIMUM PEAK FLOW			b 3950	Sep 28	b 6930	Sep 16 1999
MAXIMUM PEAK STAGE			9.21	Sep 28	11.36	Sep 16 1999
10 PERCENT EXCEEDS	186		134		83	
50 PERCENT EXCEEDS	28		23		16	
90 PERCENT EXCEEDS	11		11		6.4	

a Computed using estimated daily discharges.

b From rating curve extended above 1,270 ft³/s on basis of velocity-area study of peak flow at gage height 11.36 ft.

e Estimated.