

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

**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 sea level, 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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	23	24	25	30	23	81	26	24	29	29	31
2	23	30	24	25	30	23	52	30	101	27	32	26
3	23	23	22	25	29	23	39	31	81	27	35	26
4	24	22	22	24	28	23	32	31	51	26	34	27
5	23	21	21	25	32	23	26	29	37	25	33	29
6	23	22	24	24	31	23	29	28	28	26	32	31
7	21	22	24	23	31	24	29	37	26	26	32	30
8	21	24	23	25	30	24	29	36	29	25	34	30
9	21	24	22	26	31	24	31	30	31	25	36	29
10	23	23	22	25	44	24	39	33	31	28	37	30
11	23	22	23	26	33	23	37	30	31	29	29	30
12	23	22	24	26	32	23	47	31	32	33	27	31
13	25	32	23	25	32	31	42	29	30	33	27	30
14	23	23	27	25	32	26	35	30	30	29	27	30
15	23	22	23	25	32	27	29	31	32	30	28	24
16	23	23	23	26	32	28	31	30	163	31	29	26
17	24	23	51	24	33	37	29	30	943	31	30	28
18	23	23	30	24	32	39	39	28	220	30	28	30
19	23	23	29	31	31	29	30	27	93	30	27	30
20	24	22	29	34	31	24	24	28	55	31	28	28
21	24	22	28	31	28	46	24	29	38	31	31	27
22	24	23	28	28	26	127	23	34	29	31	30	26
23	24	22	27	27	26	83	26	29	39	31	31	26
24	24	22	27	26	26	54	28	27	51	31	29	29
25	23	21	27	26	28	40	26	26	36	32	30	28
26	23	22	26	26	29	33	26	29	29	31	30	29
27	23	23	26	26	27	27	28	50	31	27	31	28
28	24	23	26	25	25	24	27	51	31	27	33	27
29	24	22	24	25	---	24	26	35	31	28	33	26
30	24	23	25	34	---	150	26	29	28	29	30	27
31	24	---	25	32	---	128	---	25	---	30	30	---
TOTAL	720	692	799	819	851	1257	990	969	2411	899	952	849
MEAN	23.2	23.1	25.8	26.4	30.4	40.5	33.0	31.3	80.4	29.0	30.7	28.3
MAX	25	32	51	34	44	150	81	51	943	33	37	31
MIN	21	21	21	23	25	23	23	25	24	25	27	24
(#)	-4.6	-11.4	-2.3	+0.3	+22.5	+14.6	-12.8	+5.7	+9.6	-12.5	-0.2	-7.9

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2001, BY WATER YEAR (WY)**

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	23.2	24.5	48.4	34.9	27.9	39.3	31.8	28.3	24.7	20.4	17.7	23.9				
MAX	81.8	86.4	145	80.4	58.8	123	80.0	81.1	80.4	55.3	41.7	114				
(WY)	1997	1996	1997	1996	1988	1994	1996	1998	2001	1988	1994	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.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1986 - 2001	
ANNUAL TOTAL	9451		12208			
ANNUAL MEAN	25.8		33.4		29.2	
HIGHEST ANNUAL MEAN					44.3	1996
LOWEST ANNUAL MEAN					13.1	1992
HIGHEST DAILY MEAN	82	May 25	943	Jun 17	1040	Sep 17 1999
LOWEST DAILY MEAN	20	May 21	21	Oct 7-9a	3.1	Dec 22 1989
ANNUAL SEVEN-DAY MINIMUM	21	Jan 26	22	Nov 20	3.1	Dec 22 1989
MAXIMUM PEAK FLOW			b1310	Jun 16	b2340	Sep 16 1999
MAXIMUM PEAK STAGE			4.35	Jun 16	4.96	Sep 16 1999
10 PERCENT EXCEEDS	29		36		55	
50 PERCENT EXCEEDS	24		28		22	
90 PERCENT EXCEEDS	22		23		4.9	

a Also Nov. 5, 25, Dec. 5.

b From rating curve extended above 270 ft<sup>3</sup>/s on basis of slope-conveyance computation.

