



Water-Data Report 2007

**01411456 LITTLE EASE RUN NEAR CLAYTON, NJ**

MAURICE RIVER BASIN

LOCATION.--Lat 39°39'32", long 75°04'03" referenced to North American Datum of 1983, Clayton Borough, Gloucester County, NJ, Hydrologic Unit 02040206, on right bank 30 ft downstream from bridge on Academy Road (County Route 610), 0.9 mi west of Fries Mill, 1.3 mi east of Clayton, and 1.4 mi downstream from Beaverdam Branch.

DRAINAGE AREA.--9.77 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1966, 1976-84, 1987. February 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 100.94 ft above NGVD of 1929.

REMARKS.--Records fair, except for estimated discharges, which are poor. Occasional regulation from unknown sources. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov 9	1715	61	3.62
Nov 14	0015	72	3.80
Jan 9	0100	77	3.87
Mar 3	0415	52	3.48
Apr 16	1115	*253	*5.45

## 01411456 LITTLE EASE RUN NEAR CLAYTON, NJ—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**  
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.3	21	18	25	8.6	17	8.4	24	3.6	2.9	0.97	0.82
2	3.4	18	17	48	8.6	37	8.0	20	3.4	2.5	0.93	0.78
3	2.9	15	16	47	9.0	51	7.6	17	3.7	2.1	0.85	0.78
4	2.6	12	15	37	8.4	43	13	16	9.4	1.9	0.82	0.75
5	2.3	11	14	29	7.4	30	23	15	8.1	2.2	0.79	0.71
6	5.4	9.5	13	25	6.2	21	23	e13	6.9	3.3	0.86	0.71
7	9.4	8.7	12	22	5.5	16	20	e11	6.1	2.9	0.86	0.71
8	8.3	29	12	56	5.0	13	15	e10	5.3	2.4	0.86	0.71
9	7.2	58	11	72	4.7	12	12	e10	4.5	2.0	0.95	0.71
10	5.8	56	11	57	4.5	12	11	e9.6	3.9	1.7	1.2	0.71
11	5.2	43	11	40	4.4	13	9.4	e9.2	3.6	1.8	0.96	0.72
12	8.8	34	10	29	4.4	12	15	e9.3	3.3	2.9	0.89	0.71
13	8.0	57	10	23	4.8	11	22	e9.9	3.3	2.1	0.86	0.68
14	7.0	70	11	20	10	10	21	e9.3	3.1	1.8	0.82	0.69
15	6.2	57	11	19	13	9.5	73	e9.2	3.0	1.6	0.78	0.71
16	e5.3	44	11	17	12	19	239	9.4	2.8	1.5	0.78	0.71
17	8.1	44	10	15	10	40	164	12	2.6	1.4	0.77	0.71
18	19	37	9.9	14	10	43	102	12	2.3	1.4	0.70	0.72
19	18	31	9.6	13	9.4	34	69	11	2.2	1.3	0.79	0.76
20	22	26	9.2	13	8.9	30	49	9.9	2.6	1.5	1.0	0.75
21	23	22	8.8	12	11	28	38	8.9	2.4	1.3	2.1	0.77
22	19	22	8.8	12	12	24	32	8.0	2.1	1.3	2.9	0.69
23	16	29	18	11	13	22	26	7.3	1.9	1.2	2.5	0.68
24	13	33	21	11	11	21	22	6.6	1.7	1.2	2.2	0.66
25	11	31	21	11	10	18	20	6.1	1.7	1.1	1.9	0.65
26	8.9	26	30	10	14	16	18	5.6	1.8	1.1	1.6	0.65
27	8.1	23	29	9.7	16	14	24	5.3	1.6	0.99	1.5	0.64
28	23	20	25	10	17	13	40	5.1	2.6	0.94	1.3	0.55
29	30	19	21	10	---	11	40	4.7	3.5	0.93	1.2	0.48
30	28	18	18	9.5	---	9.9	31	4.3	3.5	0.99	1.1	0.45
31	25	---	15	9.3	---	9.0	---	3.9	---	1.1	0.95	---
<b>Total</b>	363.2	924.2	457.3	736.5	258.8	659.4	1,195.4	312.6	106.5	53.35	36.69	20.77
<b>Mean</b>	11.7	30.8	14.8	23.8	9.24	21.3	39.8	10.1	3.55	1.72	1.18	0.69
<b>Max</b>	30	70	30	72	17	51	239	24	9.4	3.3	2.9	0.82
<b>Min</b>	2.3	8.7	8.8	9.3	4.4	9.0	7.6	3.9	1.6	0.93	0.70	0.45
<b>Cfsm</b>	1.20	3.15	1.51	2.43	0.95	2.18	4.08	1.03	0.36	0.18	0.12	0.07
<b>In.</b>	1.38	3.52	1.74	2.80	0.99	2.51	4.55	1.19	0.41	0.20	0.14	0.08

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	5.97	9.75	13.8	14.5	14.3	19.5	18.4	11.0	7.29	5.02	4.41	4.89
<b>Max</b>	19.7	30.8	42.2	26.5	26.4	38.7	39.8	29.3	25.5	19.0	15.2	21.5
(WY)	(1990)	(2007)	(2004)	(1991)	(2004)	(1994)	(2007)	(1989)	(2003)	(1989)	(1989)	(2003)
<b>Min</b>	0.75	1.21	1.60	3.17	2.40	6.16	5.14	4.44	1.38	0.70	0.56	0.56
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2006)	(1999)	(2002)	(2002)	(2001)

**01411456 LITTLE EASE RUN NEAR CLAYTON, NJ—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2006</b>		<b>Water Year 2007</b>		<b>Water Years 1988 - 2007</b>	
<b>Annual total</b>	4,539.50		5,124.71			
<b>Annual mean</b>	12.4		14.0		10.8	
<b>Highest annual mean</b>					16.3	2004
<b>Lowest annual mean</b>					2.75	2002
<b>Highest daily mean</b>	77	Jul 6	239	Apr 16	239	Apr 16, 2007
<b>Lowest daily mean</b>	0.87	Jun 23	0.45	Sep 30	0.41	Aug 16, 1988
<b>Annual seven-day minimum</b>	1.2	Jun 17	0.58	Sep 24	0.42	Aug 17, 2002
<b>Maximum peak flow</b>			253	Apr 16	253	Apr 16, 2007
<b>Maximum peak stage</b>			5.45	Apr 16	5.45	Apr 16, 2007
<b>Instantaneous low flow</b>			0.45	Sep 29, 30	0.35	Aug 15, 1988
<b>Annual runoff (cfsm)</b>	1.27		1.44		1.11	
<b>Annual runoff (inches)</b>	17.28		19.51		15.04	
<b>10 percent exceeds</b>	26		31		24	
<b>50 percent exceeds</b>	8.4		9.5		7.3	
<b>90 percent exceeds</b>	2.3		0.82		1.3	

