



Water-Data Report 2010

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 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR US-2009: 2007(M,P).

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

REMARKS.--Records good. Occasional regulation from unknown sources. Several measurements of water temperature were made during the year.
Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 9	1945	93	4.18
Dec 14	1245	54	3.57
Dec 27	0300	*215	*4.87
Feb 24	1900	86	4.11
Mar 13	2315	198	4.80
Mar 23	2000	53	3.55
Mar 31	0030	81	4.04

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.2	25	9.7	38	13	35	61	14	5.9	5.2	1.0	0.50
2	5.7	19	10	36	12	34	47	12	5.5	4.2	0.98	0.49
3	4.8	16	34	29	12	33	37	11	5.0	3.5	0.98	0.49
4	4.3	14	41	24	13	32	30	10	4.6	3.1	0.96	0.49
5	3.8	13	40	20	13	31	26	10	4.4	2.7	0.93	0.49
6	3.4	12	45	19	10	27	23	9.0	4.1	2.5	0.91	0.48
7	3.3	10	39	18	11	23	20	7.8	3.8	2.3	0.88	0.49
8	3.3	9.7	32	18	12	21	18	7.2	3.7	2.1	0.87	0.49
9	3.2	9.1	65	16	12	19	23	6.8	3.6	2.1	0.83	0.48
10	3.0	9.1	84	13	13	17	24	6.4	4.2	2.2	0.82	0.49
11	3.0	9.3	62	12	15	16	22	6.1	3.8	2.4	0.80	0.49
12	2.9	13	45	11	16	17	19	7.3	3.5	2.2	0.80	0.52
13	2.8	19	40	11	17	81	16	8.9	4.2	2.6	0.80	0.56
14	2.8	21	53	11	17	178	15	9.3	8.2	6.0	0.78	0.56
15	3.5	20	48	12	18	117	14	13	7.9	6.1	0.82	0.55
16	5.5	16	38	12	19	83	13	14	7.2	4.7	0.83	0.70
17	6.3	14	31	15	19	64	14	13	6.0	3.9	0.80	0.81
18	12	12	24	27	18	50	14	21	4.9	3.3	0.85	0.74
19	12	11	18	29	19	39	13	30	4.2	3.0	0.85	0.72
20	11	11	15	25	20	32	12	29	3.8	2.9	0.81	0.70
21	8.8	9.8	19	20	22	27	11	21	3.4	2.8	0.80	0.68
22	7.2	9.2	19	16	24	30	13	16	3.2	2.6	0.96	0.76
23	6.7	8.9	20	14	41	49	12	14	3.1	2.3	0.75	0.88
24	7.8	9.5	20	13	77	49	12	12	3.5	2.1	0.68	0.84
25	14	9.7	20	23	79	41	13	11	5.4	2.5	0.68	0.81
26	15	10	76	41	59	38	26	9.5	3.9	3.1	0.65	0.81
27	18	9.7	179	42	51	34	41	8.5	3.4	2.3	0.60	0.89
28	36	9.1	95	33	42	29	37	8.5	4.2	1.9	0.58	0.93
29	47	8.6	63	24	---	51	26	7.7	8.7	1.6	0.56	0.93
30	43	8.6	47	17	---	72	19	7.1	6.2	1.4	0.54	1.2
31	33	---	39	14	---	77	---	6.4	---	1.2	0.53	---
Total	340.3	376.3	1,370.7	653	694	1,446	671	367.5	143.5	90.8	24.63	19.97
Mean	11.0	12.5	44.2	21.1	24.8	46.6	22.4	11.9	4.78	2.93	0.79	0.67
Max	47	25	179	42	79	178	61	30	8.7	6.1	1.0	1.2
Min	2.8	8.6	9.7	11	10	16	11	6.1	3.1	1.2	0.53	0.48
Cfsm	1.12	1.28	4.53	2.16	2.54	4.77	2.29	1.21	0.49	0.30	0.08	0.07
In.	1.30	1.43	5.22	2.49	2.64	5.51	2.55	1.40	0.55	0.35	0.09	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.78	9.31	14.9	14.6	14.4	19.7	18.0	10.9	7.04	4.74	4.45	4.86
Max	19.7	30.8	44.2	26.5	26.4	46.6	44.3	29.3	25.5	19.0	15.2	21.5
(WY)	(1990)	(2007)	(2010)	(1991)	(2004)	(2010)	(2007)	(1989)	(2003)	(1989)	(1989)	(2003)
Min	0.75	1.21	1.60	3.17	2.40	5.81	5.14	4.44	1.38	0.51	0.56	0.56
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2009)	(2002)	(2006)	(1999)	(2008)	(2002)	(2001)

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	Calendar Year 2009		Water Year 2010		Water Years 1988 - 2010	
Annual total	4,663.0		6,197.70			
Annual mean	12.8		17.0		10.8	
Highest annual mean					17.0	2010
Lowest annual mean					2.75	2002
Highest daily mean	179	Dec 27	179	Dec 27	373	Apr 16, 2007
Lowest daily mean	1.5	Jul 11	0.48	Sep 6, 9	0.30	Oct 8, 2007
Annual seven-day minimum	1.9	Jul 5	0.49	Sep 3	0.33	Oct 2, 2007
Maximum peak flow			215	Dec 27	410	Apr 16, 2007
Maximum peak stage			4.87	Dec 27	5.45	Apr 16, 2007
Instantaneous low flow			0.48	Sep 1-12	0.20	Jul 23, 2008
Annual runoff (cfsm)	1.31		1.74		1.10	
Annual runoff (inches)	17.75		23.60		15.01	
10 percent exceeds	28		41		24	
50 percent exceeds	8.6		11		7.2	
90 percent exceeds	3.5		0.81		1.2	

