



Water-Data Report 2009

01399500 LAMINGTON (BLACK) RIVER NEAR POTTERSVILLE, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°43'39", long 74°43'49" referenced to North American Datum of 1983, Washington Township, Morris County, NJ, Hydrologic Unit 02030105, on right bank 1.1 mi upstream from bridge on County Highway 512 (Black River Road), 1.2 mi northwest of Pottersville, and 5.5 mi upstream from Cold Brook.

DRAINAGE AREA.--32.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for October and November 1921, published in WSP 1302. Prior to October 1952, published as "Black River near Pottersville".

REVISED RECORDS.--WSP 741: 1932. WSP 781: Drainage area. WSP 1552: 1922, 1924-29(M), 1931(M), 1933-34(M), 1938(P), 1939(M), 1940, 1941(M), 1942-46(P), 1947(M), 1948-49(P), 1951-52(P), 1953(M). WDR NJ-80-1: Correction 1979(P).

GAGE.--Water-stage recorder. Concrete control since July 1, 1937. Datum of gage is 284.14 ft above NGVD of 1929 (levels from New Jersey Geological Survey benchmark). Prior to July 1, 1922, non-recording gage on downstream side of highway bridge at Pottersville, 1.1 mi downstream at different datum.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Flow regulated occasionally by ponds above station. 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 380 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 12	0115	554	3.31
Aug 2	1415	*813	*3.65

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e32	75	64	e83	e40	42	43	32	27	44	45	30
2	28	61	49	82	e40	e38	53	37	25	124	161	29
3	25	50	46	69	e42	e33	84	35	33	102	126	28
4	22	40	48	e62	e40	e32	87	42	77	106	101	26
5	22	34	44	61	e34	e32	73	50	59	102	102	25
6	20	36	38	61	e34	e36	75	63	65	81	87	23
7	18	33	35	94	e35	50	66	139	59	65	71	22
8	17	31	31	90	e57	54	56	98	54	56	56	21
9	17	32	31	e75	e57	59	51	104	59	50	48	20
10	16	30	47	e70	e53	59	47	87	48	46	41	19
11	16	27	107	e65	e65	57	48	72	66	42	35	21
12	16	26	319	e57	e78	53	45	61	85	47	33	36
13	15	31	185	e53	e61	48	42	54	77	39	41	32
14	15	47	173	e50	e50	45	43	48	87	35	38	26
15	14	70	134	e45	e45	43	57	47	70	33	34	25
16	14	81	113	e36	e39	41	47	42	64	32	34	25
17	14	64	109	e33	e35	39	44	47	62	32	33	25
18	13	63	97	e38	e36	37	43	42	119	39	32	24
19	13	58	86	e41	e42	39	40	41	103	31	30	22
20	13	50	78	e43	e42	38	40	40	97	31	28	20
21	13	40	76	e44	e39	37	50	37	110	39	32	19
22	13	e34	e59	e45	e39	37	52	33	97	40	75	18
23	13	e31	e58	e45	e37	36	48	31	84	38	69	18
24	13	e31	94	e42	e34	33	47	31	75	36	42	19
25	24	52	158	e38	e35	32	43	32	64	33	38	18
26	52	41	103	e35	38	32	40	28	57	32	37	17
27	31	40	112	e35	39	39	37	29	52	33	34	36
28	90	41	132	e40	44	37	35	28	47	29	37	28
29	101	39	121	e51	---	43	32	37	44	40	44	25
30	84	43	107	e43	---	47	31	32	44	42	35	24
31	82	---	96	e42	---	41	---	29	---	41	31	---
Total	876	1,331	2,950	1,668	1,230	1,289	1,499	1,528	2,010	1,540	1,650	721
Mean	28.3	44.4	95.2	53.8	43.9	41.6	50.0	49.3	67.0	49.7	53.2	24.0
Max	101	81	319	94	78	59	87	139	119	124	161	36
Min	13	26	31	33	34	32	31	28	25	29	28	17
Cfsm	0.86	1.35	2.90	1.64	1.34	1.27	1.52	1.50	2.04	1.51	1.62	0.73
In.	0.99	1.51	3.35	1.89	1.40	1.46	1.70	1.73	2.28	1.75	1.87	0.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	35.5	49.9	61.4	65.6	70.0	89.2	87.5	65.7	46.7	36.5	32.5	32.4
Max	116	163	207	225	144	230	239	169	191	165	126	123
(WY)	(1956)	(1928)	(1997)	(1979)	(1973)	(1936)	(1984)	(1989)	(1972)	(1984)	(1928)	(1971)
Min	5.69	9.61	15.4	11.7	19.7	31.0	25.9	19.0	10.1	5.48	5.28	3.76
(WY)	(1931)	(2002)	(1981)	(1981)	(2002)	(2002)	(1985)	(1965)	(1965)	(1965)	(2002)	(1964)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1922 - 2009	
Annual total	24,617.0		18,292			
Annual mean	67.3		50.1		56.0	
Highest annual mean					104	1928
Lowest annual mean					20.5	1965
Highest daily mean	474	Mar 8	319	Dec 12	905	Jan 25, 1979
Lowest daily mean	9.3	Aug 29	13	Oct 18-24	1.5	Oct 4, 1930
Annual seven-day minimum	10	Aug 23	13	Oct 18	2.4	Sep 22, 1964
Maximum peak flow			813	Aug 2	^a 3,460	Jul 7, 1984
Maximum peak stage			3.65	Aug 2	5.94	Jul 7, 1984
Instantaneous low flow			11	Oct 19	1.3	Oct 4, 1930
Annual runoff (cfsm)	2.05		1.53		1.71	
Annual runoff (inches)	27.92		20.75		23.19	
10 percent exceeds	131		88		112	
50 percent exceeds	52		41		43	
90 percent exceeds	16		24		14	

^a From rating curve extended above 800 ft³/s on basis of slope-area measurement at gage height 4.71 ft.

