



Water-Data Report 2009

01463620 ASSUNPINK CREEK NEAR CLARKSVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°16'11", long 74°40'19" referenced to North American Datum of 1983, Lawrence Township, Mercer County, NJ, Hydrologic Unit 02040105, on left bank 250 ft upstream from bridge on Quaker Bridge Road (County Route 533), 0.7 mi downstream from dam at Lake Mercer, 1.9 mi south of Clarksville, 2.0 mi upstream from Shipetaukin Creek, and 7.6 mi upstream from mouth.

DRAINAGE AREA.--34.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements water years 1963-67. Daily values for October 1972 to September 1981 and March 1992 to October 1995. Daily values for growing season only (growing season is April through October) for April 1996 to October 1999. Daily values for April 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 49.28 ft above NGVD of 1929.

REMARKS.--Records fair. Regulation from several flood-control dams since late 1970s and ponds upstream. Diversions for irrigation upstream from station. Several measurements of water temperature made during the year. Satellite gage-height telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug 28, 1971 reached a stage of 10.9 ft, discharge, 1,500 ft³/s.

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01463620 ASSUNPINK CREEK NEAR CLARKSVILLE, NJ—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	50	38	64	52	48	25	54	27	23	56	61	49
2	47	29	75	50	43	28	50	28	20	64	130	39
3	38	23	67	45	42	27	51	32	28	53	196	32
4	30	20	55	41	42	27	70	53	40	41	151	27
5	25	19	44	39	39	29	74	80	49	34	111	23
6	22	24	36	38	35	29	68	90	66	29	81	21
7	20	30	31	83	33	31	75	125	62	25	61	19
8	18	36	27	153	36	34	77	136	52	22	47	18
9	17	38	24	154	41	35	69	118	56	20	39	17
10	16	34	25	136	42	34	58	93	69	19	35	17
11	15	30	45	108	42	33	57	72	63	17	32	24
12	13	26	220	90	42	31	70	56	56	23	42	42
13	13	27	226	77	43	29	72	44	65	28	114	51
14	12	41	220	67	41	27	69	35	112	32	96	48
15	12	59	210	58	37	26	71	35	100	30	66	41
16	12	93	183	49	34	26	73	33	87	26	45	35
17	12	97	162	42	32	25	71	30	74	23	34	31
18	12	81	150	38	31	24	63	26	72	22	27	27
19	11	62	141	37	31	24	57	23	79	20	25	25
20	11	47	173	36	30	24	54	21	85	18	22	23
21	10	37	170	34	29	23	74	19	97	21	20	22
22	9.9	30	164	32	28	23	79	18	105	21	46	20
23	9.5	26	146	31	27	22	75	17	90	28	96	19
24	9.9	24	122	31	25	21	68	15	80	44	64	32
25	12	29	113	30	25	21	59	15	80	47	47	35
26	19	34	104	29	25	21	51	15	74	44	35	33
27	19	34	94	28	24	25	45	14	76	62	28	45
28	35	32	84	32	25	28	38	14	77	59	28	60
29	71	29	77	53	---	36	33	18	74	53	31	65
30	67	32	69	64	---	52	29	23	63	67	52	55
31	53	---	62	58	---	58	---	25	---	56	56	---
Total	721.3	1,161	3,383	1,815	972	898	1,854	1,350	2,074	1,104	1,918	995
Mean	23.3	38.7	109	58.5	34.7	29.0	61.8	43.5	69.1	35.6	61.9	33.2
Max	71	97	226	154	48	58	79	136	112	67	196	65
Min	9.5	19	24	28	24	21	29	14	20	17	20	17
Cfsm	0.68	1.13	3.18	1.71	1.01	0.84	1.80	1.27	2.02	1.04	1.80	0.97
In.	0.78	1.26	3.67	1.97	1.05	0.97	2.01	1.46	2.25	1.20	2.08	1.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	36.1	45.2	72.2	72.8	65.3	77.9	67.2	44.6	40.0	27.8	26.1	29.7
Max	93.8	112	142	151	136	204	186	115	92.7	142	77.4	126
(WY)	(1997)	(1973)	(1993)	(1979)	(1994)	(1994)	(2007)	(1998)	(2003)	(1975)	(1994)	(1999)
Min	5.75	6.75	13.9	12.9	19.0	29.0	23.7	16.0	9.24	2.95	4.34	5.67
(WY)	(2002)	(2002)	(2002)	(1981)	(2002)	(2009)	(1995)	(1992)	(1999)	(2002)	(2002)	(2001)

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1973 - 2009	
Annual total	15,969.0		18,245.3			
Annual mean	43.6		50.0		^a 50.2	
Highest annual mean					^a 74.7	1994
Lowest annual mean					^a 16.6	2002
Highest daily mean	226	Dec 13	226	Dec 13	^a 832	Feb 26, 1979
Lowest daily mean	1.7	Aug 29	9.5	Oct 23	^a 1.0	Sep 6, 1995
Annual seven-day minimum	2.1	Aug 27	10	Oct 18	^a 1.2	Jul 26, 1999
Maximum peak flow			239	Dec 12	1,050	Jul 21, 1975
Maximum peak stage			6.60	Dec 12	9.36	Jul 21, 1975
Instantaneous low flow			9.4	Oct 22, 23	^a 1.0	Sep 6, 1995
Annual runoff (cfsm)	1.27		1.46		^a 1.46	
Annual runoff (inches)	17.32		19.79		^a 19.89	
10 percent exceeds	93		93		^a 103	
50 percent exceeds	34		37		^a 35	
90 percent exceeds	7.2		19		^a 11	

^a Not all periods have daily or annual values available. See Period of Record section.

