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Water-Data Report 2010

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

**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 telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug 28, 1971 reached a stage of 10.9 ft, discharge, 1,500 ft<sup>3</sup>/s.

## Water-Data Report 2010

## 01463620 ASSUNPINK CREEK NEAR CLARKSVILLE, NJ—Continued

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

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	42	100	36	147	52	186	238	71	133	8.1	8.1	3.5
<b>2</b>	32	84	35	130	47	180	234	62	124	7.4	8.2	3.2
<b>3</b>	26	70	73	88	44	163	231	61	103	7.1	7.3	3.0
<b>4</b>	24	60	94	63	43	157	224	60	83	6.9	6.7	2.4
<b>5</b>	23	52	92	89	42	148	222	54	64	6.9	5.9	1.9
<b>6</b>	21	46	106	70	45	133	217	48	50	7.1	5.2	1.8
<b>7</b>	19	42	103	62	43	117	204	42	40	6.6	4.6	1.7
<b>8</b>	18	39	91	60	42	103	157	37	33	6.3	4.3	1.5
<b>9</b>	16	37	161	57	41	93	130	33	31	7.5	3.9	1.3
<b>10</b>	15	36	210	52	50	83	113	31	35	9.3	3.7	1.2
<b>11</b>	14	35	199	48	53	74	100	29	35	8.5	3.6	1.1
<b>12</b>	13	34	156	45	53	71	91	33	33	7.4	3.5	1.3
<b>13</b>	12	35	128	43	53	146	81	34	32	16	3.4	1.7
<b>14</b>	12	41	156	40	51	248	76	36	29	43	2.8	2.1
<b>15</b>	13	48	148	38	49	300	71	46	27	47	2.7	2.1
<b>16</b>	16	51	126	38	49	359	67	42	25	44	2.8	3.5
<b>17</b>	18	47	103	43	48	299	63	37	23	39	3.0	7.3
<b>18</b>	22	42	87	69	47	250	59	45	21	33	3.1	6.2
<b>19</b>	24	40	78	79	47	234	56	63	19	28	3.0	5.7
<b>20</b>	23	76	73	77	51	225	53	63	18	25	2.8	5.0
<b>21</b>	21	93	69	69	57	222	51	55	16	22	2.6	4.3
<b>22</b>	20	77	69	62	61	220	51	45	15	19	2.8	4.0
<b>23</b>	19	63	65	56	79	226	50	39	15	17	3.4	5.2
<b>24</b>	22	54	60	51	178	220	49	37	14	15	4.1	5.2
<b>25</b>	56	48	57	75	209	213	57	34	13	14	4.7	4.7
<b>26</b>	61	45	120	125	206	185	81	32	13	14	4.9	4.1
<b>27</b>	65	41	209	125	201	146	122	30	12	12	4.8	6.0
<b>28</b>	133	37	202	106	194	121	122	31	11	10	4.6	8.6
<b>29</b>	164	35	189	87	---	179	103	31	11	9.1	4.3	8.8
<b>30</b>	141	34	164	72	---	233	84	30	9.4	8.4	4.2	12
<b>31</b>	113	---	151	60	---	241	---	38	---	7.6	3.7	---
<b>Total</b>	1,218	1,542	3,610	2,226	2,135	5,775	3,457	1,329	1,087.4	512.2	132.7	120.4
<b>Mean</b>	39.3	51.4	116	71.8	76.2	186	115	42.9	36.2	16.5	4.28	4.01
<b>Max</b>	164	100	210	147	209	359	238	71	133	47	8.2	12
<b>Min</b>	12	34	35	38	41	71	49	29	9.4	6.3	2.6	1.1
<b>Cfsm</b>	1.15	1.50	3.40	2.09	2.22	5.43	3.36	1.25	1.06	0.48	0.12	0.12
<b>In.</b>	1.32	1.67	3.92	2.41	2.32	6.26	3.75	1.44	1.18	0.56	0.14	0.13

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2010, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	36.2	45.5	74.2	72.7	65.8	82.8	68.9	44.5	39.8	27.4	25.3	28.8
<b>Max</b>	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)
<b>Min</b>	5.75	6.75	13.9	12.9	19.0	29.0	23.7	16.0	9.24	2.95	4.28	4.01
(WY)	(2002)	(2002)	(2002)	(1981)	(2002)	(2009)	(1995)	(1992)	(1999)	(2002)	(2010)	(2010)

**SUMMARY STATISTICS**

	Calendar Year 2009		Water Year 2010		Water Years 1973 - 2010	
<b>Annual total</b>	19,350		23,144.7			
<b>Annual mean</b>	53.0		63.4		<sup>a</sup> 50.8	
<b>Highest annual mean</b>					<sup>a</sup> 74.7	1994
<b>Lowest annual mean</b>					<sup>a</sup> 16.6	2002
<b>Highest daily mean</b>	210	Dec 10	359	Mar 16	<sup>a</sup> 832	Feb 26, 1979
<b>Lowest daily mean</b>	12	Oct 13	1.1	Sep 11	<sup>a</sup> 1.0	Sep 6, 1995
<b>Annual seven-day minimum</b>	14	Oct 9	1.4	Sep 7	<sup>a</sup> 1.2	Jul 26, 1999
<b>Maximum peak flow</b>			377	Mar 16	1,050	Jul 21, 1975
<b>Maximum peak stage</b>			7.38	Mar 16	9.36	Jul 21, 1975
<b>Instantaneous low flow</b>			0.88	Sep 11	<sup>a</sup> 0.88	Sep 11, 2010
<b>Annual runoff (cfsm)</b>	1.55		1.85		<sup>a</sup> 1.48	
<b>Annual runoff (inches)</b>	20.99		25.10		<sup>a</sup> 20.13	
<b>10 percent exceeds</b>	100		164		<sup>a</sup> 105	
<b>50 percent exceeds</b>	42		43		<sup>a</sup> 35	
<b>90 percent exceeds</b>	21		4.3		<sup>a</sup> 11	

<sup>a</sup> Not all periods have daily or annual values available. See Period of Record section.

