

LEHIGH RIVER BASIN

01450500 AQUASHICOLA CREEK AT PALMERTON, PA

LOCATION.--Lat 40°48'22", long 75°35'54", Carbon County, Hydrologic Unit 02040106, on right bank 1,200 ft upstream from bridge on Sixth Street in Palmerton, and 1.2 mi upstream from mouth.

DRAINAGE AREA.--76.7 mi².

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1051: 1940-45 (monthly net diversion), Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 389.08 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Occasional diversion from Pohopoco Creek into Aquashicola Creek upstream of station. Several measurements of water temperature were made during the year. Satellite telemetry at station.

COOPERATION.--Records of diversion provided by Palmer Water Company.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	1745	*1,540	*4.14	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	e24	43	e72	108	188	374	90	92	74	35	25
2	31	e25	36	e68	117	183	318	87	148	76	32	23
3	31	e25	e29	e65	116	170	276	84	122	66	34	23
4	30	e25	e29	72	111	161	244	81	109	67	52	23
5	32	e24	34	70	118	159	220	78	101	71	40	25
6	33	e24	e29	73	117	146	215	74	98	66	35	23
7	31	e23	29	69	108	139	205	72	93	58	33	20
8	28	e24	29	66	99	137	185	70	87	e66	31	21
9	27	e26	30	64	97	142	175	69	82	e68	30	20
10	27	56	e29	59	127	140	174	67	80	e58	30	20
11	26	46	37	59	160	138	168	64	78	e75	38	24
12	27	36	37	e55	148	138	166	63	81	e54	44	20
13	27	33	e27	54	147	268	155	60	e76	51	e37	21
14	27	36	e47	e51	143	328	146	58	e68	49	e36	38
15	26	39	58	55	150	304	142	56	e66	e45	e35	29
16	26	35	56	56	153	282	157	53	e70	45	32	23
17	28	33	784	55	169	290	146	54	137	44	29	21
18	51	e28	706	54	153	292	154	56	e84	e44	31	19
19	50	e25	360	69	149	271	136	56	e74	e43	30	21
20	38	e25	263	89	149	253	130	52	e70	e38	29	43
21	33	e26	e190	74	147	264	128	58	e72	37	26	273
22	31	e24	e160	58	131	357	127	107	e82	e37	28	93
23	30	e23	e130	e54	132	345	124	88	e110	e35	27	64
24	30	e23	e110	e56	120	318	120	67	e95	e34	29	59
25	30	e24	e100	e56	143	285	113	59	e80	e34	28	354
26	30	e58	e95	e54	187	257	108	80	e76	53	26	219
27	29	e70	e92	60	197	231	104	140	e74	42	28	142
28	e26	52	e86	58	199	211	100	139	75	36	25	110
29	27	e44	e83	55	---	196	96	110	73	34	29	90
30	27	e47	e81	84	---	372	92	100	70	32	27	79
31	e25	---	e77	107	---	434	---	94	---	33	26	---
TOTAL	946	1003	3896	1991	3895	7399	4998	2386	2623	1565	992	1965
MEAN	30.5	33.4	126	64.2	139	239	167	77.0	87.4	50.5	32.0	65.5
MAX	51	70	784	107	199	434	374	140	148	76	52	354
MIN	25	23	27	51	97	137	92	52	66	32	25	19
(†)	-1.8	-1.7	-2.4	-1.7	-2.1	-3.2	-2.8	-1.8	-2.8	-2.1	-1.8	-2.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	95.6	144	183	168	173	246	236	177	114	99.3	84.5	87.0
MAX	331	379	583	558	325	534	625	480	412	638	468	417
(WY)	1956	1973	1997	1996	1971	1977	1983	1989	1972	1945	1942	1987
MIN	17.2	21.6	30.2	19.4	38.4	86.5	74.7	55.9	38.8	19.8	13.7	15.2
(WY)	1964	1965	1999	1981	1940	1985	1985	1941	1955	1955	1964	1964

† Figures of net diversion, equivalent in cubic feet per second. Includes water diverted from Pohopoco Creek to Aquashicola Creek.
e Estimated.

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01450500 AQUASHICOLA CREEK AT PALMERTON, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	43671		33659			
ANNUAL MEAN	119		92.2		151	
HIGHEST ANNUAL MEAN					242	1952
LOWEST ANNUAL MEAN					69.2	1965
HIGHEST DAILY MEAN	784	Dec 17	784	Dec 17	4680	Jul 10 1945
LOWEST DAILY MEAN	e 23	Nov 7	19	Sep 18	9.1	Sep 15 1964
ANNUAL SEVEN-DAY MINIMUM	a 24	Nov 1, 19	21	Sep 7	10	Sep 10 1964
MAXIMUM PEAK FLOW			1540	Dec 17	b 11700	Jul 10 1945
MAXIMUM PEAK STAGE			4.14	Dec 17	13.63	Jul 10 1945
INSTANTANEOUS LOW FLOW					2.6	Sep 12 1957
10 PERCENT EXCEEDS	250		189		301	
50 PERCENT EXCEEDS	92		66		99	
90 PERCENT EXCEEDS	29		26		35	

- a** Computed using estimated daily discharges.
- b** From rating curve extended above 2,300 ft³/s on basis of contracted-opening measurement of peak flow.
- e** Estimated.

