

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 good 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)
July 31	0115	*809	*2.96	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	63	121	98	e64	398	212	148	138	125	451	48
2	149	92	113	95	e62	328	197	147	128	114	605	52
3	126	173	110	94	e60	277	185	134	120	107	359	47
4	136	134	106	94	63	241	228	125	110	105	286	44
5	145	123	100	98	62	215	202	120	105	99	216	40
6	121	114	115	82	57	193	182	114	169	89	185	37
7	110	108	109	81	55	175	174	108	145	83	167	39
8	104	101	91	77	50	166	172	104	112	79	139	38
9	101	97	87	77	50	160	207	98	97	75	123	37
10	128	93	90	112	55	152	182	110	94	75	112	38
11	122	88	90	160	61	177	172	119	93	70	109	38
12	106	82	84	134	60	358	174	98	144	64	108	37
13	103	80	82	130	53	346	162	103	201	63	100	95
14	111	78	122	115	100	302	155	143	157	61	92	55
15	99	75	192	109	121	265	151	104	145	71	87	72
16	93	70	197	e100	106	239	149	96	135	98	80	55
17	91	66	181	e88	108	313	146	92	123	97	73	46
18	88	64	163	e88	106	280	174	95	121	72	72	42
19	81	63	146	e88	105	270	153	163	116	64	71	48
20	e98	63	153	e86	96	248	144	163	106	62	65	54
21	e88	63	195	e78	91	237	203	158	108	59	61	44
22	80	59	175	e76	89	344	326	157	287	58	58	39
23	88	57	168	85	99	319	322	164	223	53	60	38
24	80	56	157	84	129	285	279	242	183	51	62	39
25	74	61	142	81	187	256	244	299	171	50	56	37
26	69	87	135	e75	269	234	218	269	194	51	51	42
27	69	254	130	e64	284	213	203	233	171	110	50	45
28	67	206	119	e64	632	312	189	206	165	80	52	38
29	65	163	113	74	533	283	174	184	147	63	55	33
30	66	137	108	66	---	260	161	164	142	167	49	34
31	63	---	103	e66	---	235	---	150	---	453	46	---
TOTAL	3110	2970	3997	2819	3807	8081	5840	4610	4350	2868	4100	1351
MEAN	100	99.0	129	90.9	131	261	195	149	145	92.5	132	45.0
MAX	189	254	197	160	632	398	326	299	287	453	605	95
MIN	63	56	82	64	50	152	144	92	93	50	46	33
(†)	-2.6	-2.0	-2.4	-2.0	-1.9	-3.8	-2.5	-2.6	-2.5	-1.7	-3.0	-1.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	96.7	146	184	170	174	246	237	179	114	100	85.4	87.4
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

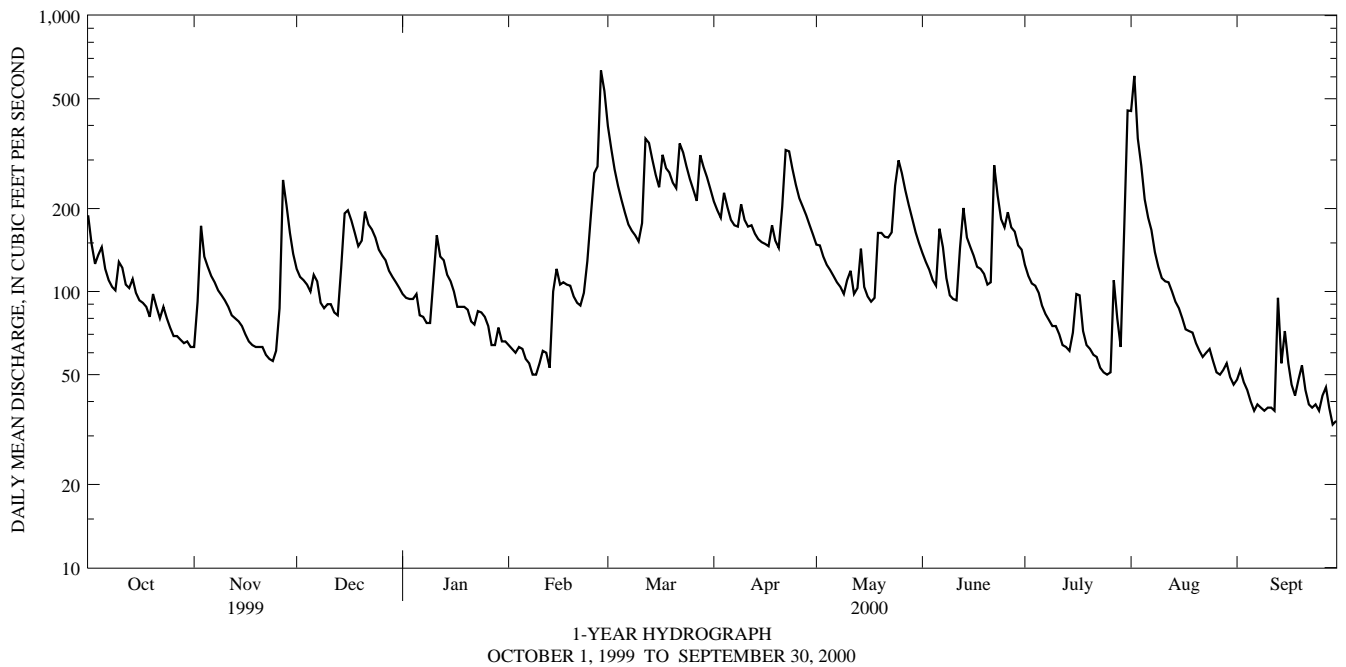
† Figures of net diversion, equivalent in cubic feet per second. Includes water diverted from Pohopoco Creek to Aquashicola Creek.
e Estimated.

LEHIGH RIVER BASIN

01450500 AQUASHICOLA CREEK AT PALMERTON, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR			FOR 2000 WATER YEAR			WATER YEARS 1940 - 2000	
ANNUAL TOTAL	41107			47903				
ANNUAL MEAN	113			131			151	
HIGHEST ANNUAL MEAN							242	1952
LOWEST ANNUAL MEAN							69.2	1965
HIGHEST DAILY MEAN	1070	Jan 24		632	Feb 28		4680	Jul 10 1945
LOWEST DAILY MEAN	e15	Aug 6,7		33	Sep 29		9.1	Sep 15 1964
ANNUAL SEVEN-DAY MINIMUM	a16	Aug 5		38	Sep 6		10	Sep 10 1964
INSTANTANEOUS PEAK FLOW				809	Jul 31		b11700	Jul 10 1945
INSTANTANEOUS PEAK STAGE				2.96	Jul 31		13.63	Jul 10 1945
INSTANTANEOUS LOW FLOW							2.6	Sep 12 1957
10 PERCENT EXCEEDS	195			241			303	
50 PERCENT EXCEEDS	90			106			100	
90 PERCENT EXCEEDS	22			53			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.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000