



2005 Water Year
LEHIGH RIVER BASIN
01450500 Aquashicola Creek at Palmerton, PA

Latitude: 40° 48 ' 22"

Longitude: 075° 35 ' 54"

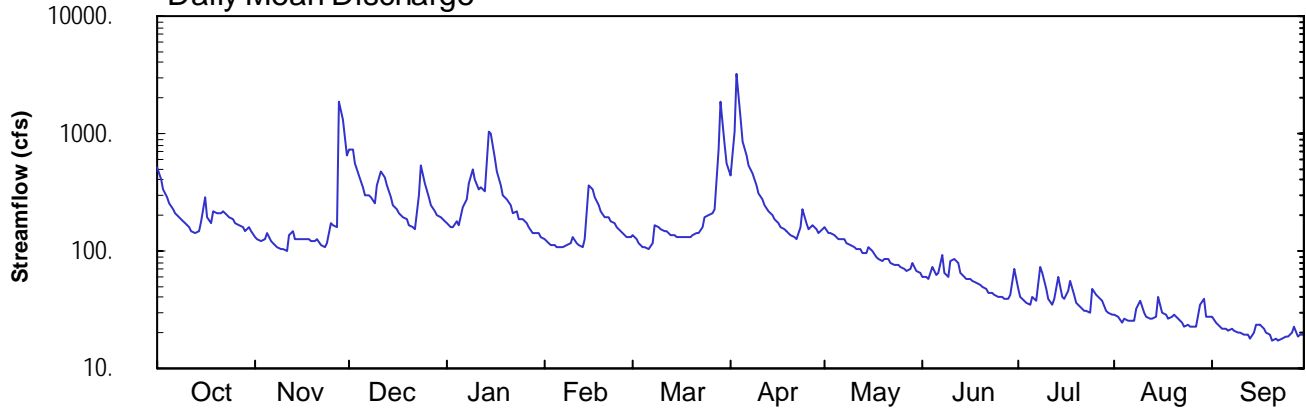
Hydrologic Unit Code: 02040106

Carbon County

Datum: 389.08 feet

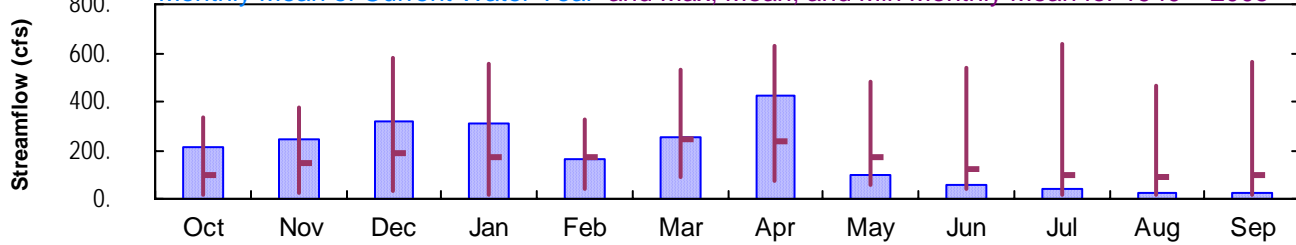
Drainage Area: 76.7 mi²

Daily Mean Discharge

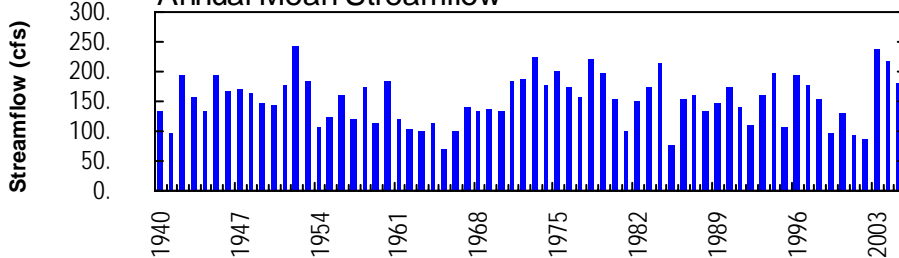


Monthly Statistics

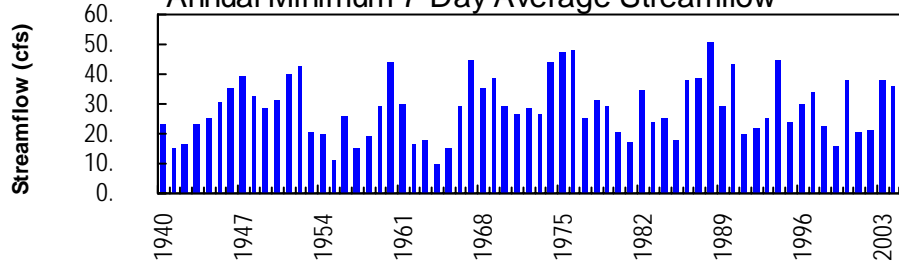
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1940 – 2005



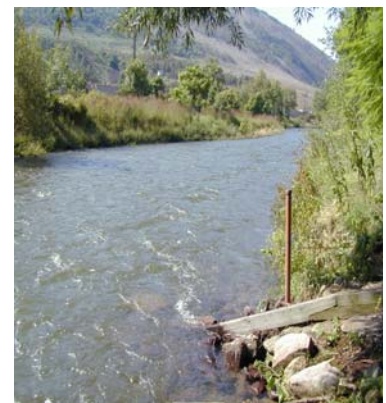
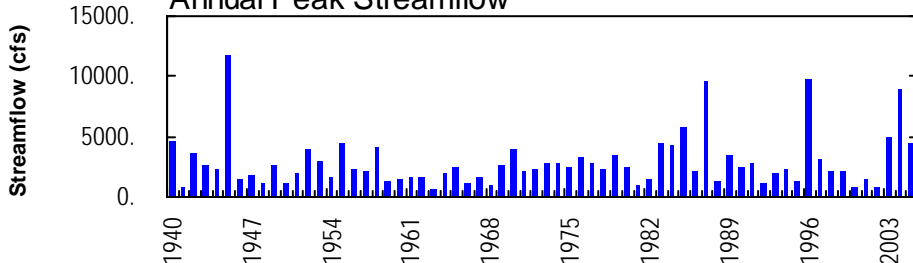
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. 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)
Nov. 28	1745	3,400	6.84	Mar. 29	0445	2,510	5.56
Jan. 14	1800	1,570	4.11	Apr. 3	0500	*4,440	*8.18

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	509	133	738	175	125	136	442	162	60	48	28	27
2	404	125	736	162	119	126	1050	142	59	42	28	25
3	339	120	551	161	113	117	3220	141	59	38	24	23
4	291	126	434	179	113	110	1370	135	73	36	26	22
5	255	140	355	166	110	107	866	127	63	34	26	22
6	228	121	300	238	109	105	646	127	65	40	25	21
7	209	116	294	278	110	115	528	124	92	38	25	22
8	193	110	285	376	111	164	456	119	64	73	32	21
9	182	105	253	497	116	159	363	114	61	66	38	21
10	172	103	358	411	129	151	308	110	81	48	30	20
11	160	101	469	334	118	147	272	104	86	40	28	19
12	149	138	430	347	113	147	242	103	78	35	27	19
13	144	145	356	329	110	139	219	97	66	39	26	18
14	146	128	289	1040	129	135	199	96	60	61	28	20
15	179	125	248	1000	368	130	184	107	58	41	41	24
16	282	125	226	622	330	132	171	99	57	39	29	24
17	194	125	212	474	284	133	161	88	55	46	29	22
18	171	124	192	369	245	133	153	85	54	55	27	20
19	218	121	187	301	214	131	146	82	52	42	27	20
20	209	121	166	274	197	139	138	87	50	37	29	17
21	208	124	157	243	197	142	132	85	48	34	27	18
22	220	113	152	208	180	142	127	79	44	31	25	17
23	203	107	299	217	171	162	158	77	44	31	23	18
24	197	118	544	190	158	194	231	75	42	29	23	19
25	188	176	381	184	150	203	170	72	41	48	23	19
26	175	164	291	175	141	210	153	71	40	43	22	20
27	165	162	250	158	130	223	164	69	39	39	23	23
28	157	1870	214	141	129	742	155	72	40	37	35	19
29	149	1330	203	141	---	1850	144	80	43	31	39	19
30	162	643	192	142	---	820	152	67	71	30	27	19
31	148	---	182	131	---	558	---	66	---	29	28	---
TOTAL	6606	7259	9944	9663	4519	7902	12720	3062	1745	1280	868	618
MEAN	213	242	321	312	161	255	424	98.8	58.2	41.3	28.0	20.6
MAX	509	1870	738	1040	368	1850	3220	162	92	73	41	27
MIN	144	101	152	131	109	105	127	66	39	29	22	17
(†)	-2.5	-2.1	-3.7	-2.9	-1.4	-2.5	-4.0	-1.1	-0.8	-0.6	-0.6	-0.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	101	147	187	169	170	244	236	175	119	97.9	86.8	97.1
MAX	331	379	583	558	325	534	625	480	536	638	468	566
(WY)	1956	1973	1997	1996	1971	1977	1983	1989	2003	1945	1942	2004
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.

LEHIGH RIVER BASIN

01450500 AQUASHICOLA CREEK AT PALMERTON, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	73914		66186			
ANNUAL MEAN	202		181		152	
HIGHEST ANNUAL MEAN					242	1952
LOWEST ANNUAL MEAN					69.2	1965
HIGHEST DAILY MEAN	4150	Sep 18	3220	Apr 3	4680	Jul 10 1945
LOWEST DAILY MEAN	33	Jul 11	17	Sep 20,22	9.1	Sep 15 1964
ANNUAL SEVEN-DAY MINIMUM	36	Jul 5	18	Sep 19	10	Sep 10 1964
MAXIMUM PEAK FLOW			a4440	Apr 3	a11700	Jul 10 1945
MAXIMUM PEAK STAGE			8.18	Apr 3	13.63	Jul 10 1945
INSTANTANEOUS LOW FLOW					2.6	Sep 12 1957
10 PERCENT EXCEEDS	309		357		305	
50 PERCENT EXCEEDS	138		126		100	
90 PERCENT EXCEEDS	79		25		35	

a From rating curve extended above 1,000 ft³/s on basis of contracted-opening measurement of peak flow.

