

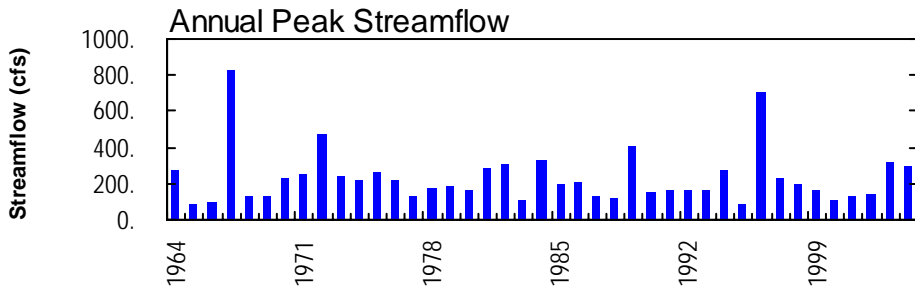
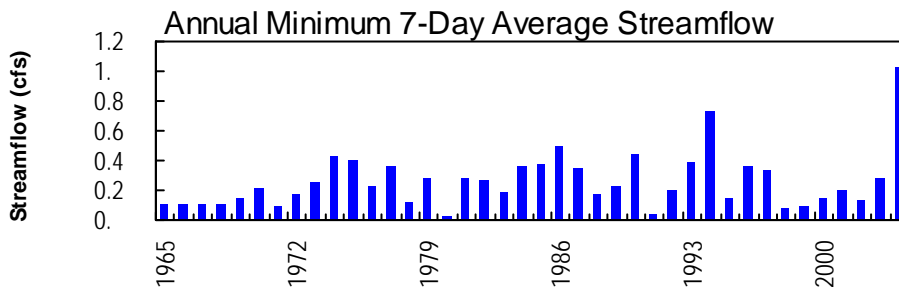
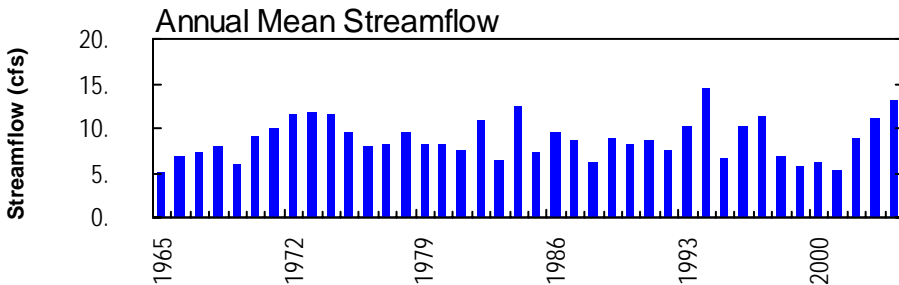
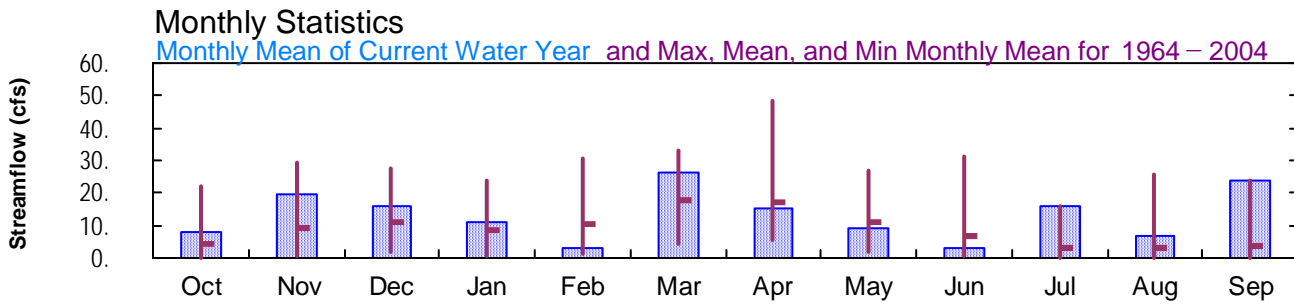
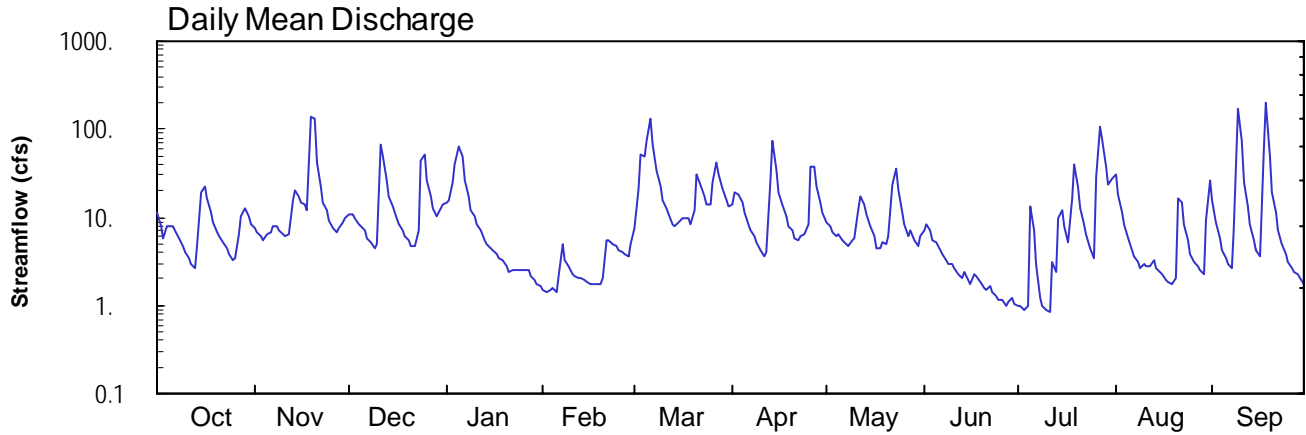


2004 Water Year
WEST BRANCH SUSQUEHANNA RIVER BASIN
01542810 Waldy Run near Emporium, PA

Latitude: 41° 34' 44"
Cameron County

Longitude: 078° 17' 34"
Datum: 1263.62 feet

Hydrologic Unit Code: 02050202
Drainage Area: 5.24 mi²



WEST BRANCH SUSQUEHANNA RIVER BASIN

01542810 WALDY RUN NEAR EMPORIUM, PA

LOCATION.--Lat 41°34'44", long 78°17'34", Cameron County, Hydrologic Unit 02050202, on left bank 15 ft downstream from highway bridge on Township Route 318 at North Creek Chapel, 0.1 mi upstream from mouth, and 5.5 mi northwest of Emporium.

DRAINAGE AREA.--5.24 mi².

PERIOD OF RECORD.--Occasional discharge measurements and annual maximum, water years 1963-64. September 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,263.62 ft above National Geodetic Vertical Datum of 1929. July 25, 1963, to Aug. 27, 1964, crest-stage gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 19	2015	*299	*5.16	Sept. 9	0945	220	4.90
Mar. 6	1030	147	4.65	Sept. 18	0145	284	5.11
July 27	1430	132	4.59				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	7.5	11	15	1.5	7.4	14	8.7	7.3	0.99	30	15
2	8.0	6.7	11	15	1.4	21	19	8.0	8.3	0.96	18	8.6
3	5.9	6.1	9.6	25	e1.5	50	19	6.7	7.1	e0.90	11	5.7
4	7.7	5.5	8.5	39	1.6	49	15	6.0	5.6	e1.0	8.2	4.3
5	7.7	6.5	7.9	65	1.4	73	11	6.3	5.2	e1.3	5.8	3.5
6	7.9	6.9	7.1	49	2.1	129	8.2	5.6	4.3	e7.0	4.3	2.9
7	7.2	8.0	5.8	27	5.0	66	7.1	5.3	3.7	e3.0	3.6	2.6
8	5.8	8.0	e5.2	17	e3.3	35	6.3	4.7	3.3	1.2	3.1	7.7
9	4.7	7.0	4.6	12	e2.8	23	5.2	5.6	3.0	1.0	2.6	166
10	4.0	6.3	4.9	e10	2.2	16	4.2	5.8	3.0	0.90	3.0	73
11	3.4	6.2	68	e8.5	2.2	13	3.7	12	2.7	0.83	2.7	25
12	2.9	6.6	50	7.3	2.0	11	4.0	17	2.3	3.2	2.7	13
13	2.7	16	26	5.5	2.0	8.5	26	14	2.0	2.4	3.3	8.5
14	4.7	20	17	e5.0	1.9	8.0	76	11	2.4	9.9	2.7	5.5
15	19	17	13	e4.5	1.8	8.6	33	7.8	2.0	12	2.4	4.2
16	22	15	9.7	e4.2	e1.7	9.9	20	5.9	1.8	8.0	2.2	3.5
17	16	14	8.4	e3.8	e1.7	e10	14	4.4	2.3	5.2	2.0	61
18	12	12	7.2	e3.4	1.7	e9.5	10	4.6	2.2	17	1.8	196
19	8.9	139	6.2	3.2	1.8	8.5	8.0	5.2	1.8	40	1.8	49
20	6.9	132	5.4	2.8	2.1	12	7.0	4.9	1.6	22	2.1	19
21	6.0	41	4.8	2.5	5.6	30	5.9	6.3	1.5	13	16	11
22	5.3	22	4.7	2.5	5.4	e23	5.5	23	1.6	8.3	15	7.0
23	4.4	15	7.0	e2.5	4.9	17	6.2	35	1.5	6.4	8.5	4.8
24	3.7	12	43	e2.5	4.6	14	6.4	20	1.3	4.4	5.4	3.8
25	3.3	9.3	51	e2.5	e4.3	14	8.5	12	1.2	3.4	3.9	3.1
26	3.5	7.6	27	e2.5	e4.0	25	37	8.5	1.1	29	3.1	2.7
27	6.4	6.8	17	2.5	3.7	41	38	6.1	e1.0	109	2.7	2.4
28	10	7.6	13	2.2	e3.7	31	22	7.1	e1.1	77	2.5	2.2
29	13	8.9	10	1.9	4.9	22	15	5.6	1.2	38	2.3	2.0
30	10	9.6	12	1.8	---	16	11	4.7	1.0	24	9.5	1.8
31	8.3	---	14	1.7	---	13	---	6.0	---	27	26	---
TOTAL	242.3	586.1	490.0	347.3	82.8	814.4	466.2	283.8	84.4	489.98	208.2	714.8
MEAN	7.82	19.5	15.8	11.2	2.86	26.3	15.5	9.15	2.81	15.8	6.72	23.8
MAX	22	139	68	65	5.6	129	76	35	8.3	109	30	196
MIN	2.7	5.5	4.6	1.7	1.4	7.4	3.7	4.4	1.0	0.83	1.8	1.8
CFSM	1.49	3.73	3.02	2.14	0.54	5.01	2.97	1.75	0.54	3.02	1.28	4.55
IN.	1.72	4.16	3.48	2.47	0.59	5.78	3.31	2.01	0.60	3.48	1.48	5.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	4.41	9.19	10.9	8.38	10.7	17.8	17.0	10.9	6.49	3.20	3.06	3.86
MAX	22.1	29.3	27.8	23.8	30.7	33.0	48.3	26.7	30.9	15.8	25.8	23.8
(WY)	1982	1986	1973	1996	1976	1979	1970	2002	1972	2004	1994	2004
MIN	0.10	0.31	2.02	0.83	0.98	4.25	5.34	1.95	0.50	0.26	0.19	0.08
(WY)	1965	1965	1990	1981	1980	1981	1976	1999	1999	1966	1991	1964

e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01542810 WALDY RUN NEAR EMPORIUM, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	4805.97		4810.28			
ANNUAL MEAN	13.2		13.1		8.81	
HIGHEST ANNUAL MEAN					14.5	1994
LOWEST ANNUAL MEAN					5.11	1965
HIGHEST DAILY MEAN	177	Aug 10	196	Sep 18	e300	Jan 19 1996
LOWEST DAILY MEAN	e0.45	Jan 23	0.83	Jul 11	0.00	Sep 14 1964
ANNUAL SEVEN-DAY MINIMUM	a0.72	Jan 20	a1.0	Jun 27	0.01	Sep 13 1964
MAXIMUM PEAK FLOW			b299	Nov 19	b828	Sep 28 1967
MAXIMUM PEAK STAGE			5.16	Nov 19	6.32	Sep 28 1967
INSTANTANEOUS LOW FLOW					0.00	Sep 14 1964
ANNUAL RUNOFF (CFSM)	2.51		2.51		1.68	
ANNUAL RUNOFF (INCHES)	34.12		34.15		22.84	
10 PERCENT EXCEEDS	29		27		21	
50 PERCENT EXCEEDS	6.4		6.6		3.6	
90 PERCENT EXCEEDS	1.4		1.9		0.43	

a Computed using estimated daily discharges.

b From rating curve extended above 80 ft³/s on basis of slope-area measurements at gage heights 5.09 ft, 5.86 ft, and at peak flow.

e Estimated.