

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 sea level. July 25, 1963, to Aug. 27, 1964, crest-stage gage at same site and datum.

REMARKS.--Records fair 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)
Jan. 24	1045	*160	*4.68	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.40	e.84	1.1	e2.0	9.9	5.7	41	4.9	.85	.40	.89	.10
2	e.31	.77	1.1	e1.7	15	4.9	45	4.3	.88	4.2	.25	.10
3	e.32	.70	1.1	e3.0	20	7.4	37	3.9	1.0	1.0	.14	.10
4	e.49	.68	1.1	e1.8	22	24	29	3.6	.83	.74	.14	.10
5	e.80	.70	1.4	e1.4	18	e19	19	3.2	.71	.57	.49	.08
6	e.58	.65	1.3	e1.2	16	e15	15	2.9	.67	.66	.18	.11
7	e.35	.63	1.3	e1.2	14	e11	13	2.6	.63	e1.8	.14	.42
8	e6.8	.63	1.3	e1.4	11	e9.4	10	2.8	.60	e1.0	.40	.19
9	e4.5	.63	1.2	e1.5	9.2	e8.0	14	2.6	.57	e.74	.41	.15
10	e4.0	.78	1.1	e1.5	8.8	7.4	22	2.0	.55	1.8	.18	.13
11	e3.0	e1.0	1.1	e1.4	9.0	e6.2	23	1.8	.51	.81	.17	.12
12	e2.0	e1.4	1.0	e1.3	14	e5.0	21	1.7	.49	.64	.15	.13
13	e1.7	e1.1	1.0	e1.5	22	e4.5	19	1.6	.46	.50	.14	.14
14	e1.4	e.98	e.94	e1.9	17	4.1	15	1.5	.51	.39	.52	.42
15	e1.2	e.86	e.82	e2.9	13	4.1	12	1.3	.58	.29	.72	.25
16	e1.1	e.80	.93	e2.6	11	4.2	10	1.2	.43	.22	e.38	.80
17	e1.0	.84	.98	e2.3	13	7.1	9.9	1.1	.37	.20	e.21	.88
18	e.96	.84	e.92	e13	19	21	10	1.1	.38	.18	.14	.36
19	e1.6	.84	.91	e30	17	23	12	1.1	.31	.17	.13	.17
20	e1.4	.90	.98	e10	13	18	13	1.1	.22	.21	.22	.16
21	e1.2	.94	4.4	8.3	10	18	14	.98	.18	.17	.42	.42
22	e1.1	.86	66	8.1	e7.8	17	13	.98	.18	e.16	.20	.27
23	e1.0	.84	e30	28	e6.6	14	14	.98	.17	e.15	.15	.15
24	e.94	.84	e15	126	e5.4	14	17	2.4	.16	e.13	.13	.13
25	e.84	.84	10	e52	4.6	19	19	2.0	.16	e.12	.13	.12
26	e.74	1.2	e9.0	e23	4.1	20	15	1.5	.17	e.12	.15	.11
27	e.70	1.1	e5.6	18	3.6	21	11	1.3	.16	e.12	.16	.11
28	e.74	.99	4.7	16	5.2	26	8.8	1.1	.53	.11	.19	.11
29	e.86	.98	3.9	17	---	33	7.1	.98	1.0	.13	.14	.38
30	e.96	.98	e3.0	15	---	36	5.8	.94	.66	.12	.12	4.0
31	e.92	---	e2.5	12	---	36	---	.87	---	.21	.10	---
TOTAL	43.91	26.14	175.68	407.0	339.2	463.0	514.6	60.33	14.92	18.06	7.89	10.71
MEAN	1.42	.87	5.67	13.1	12.1	14.9	17.2	1.95	.50	.58	.25	.36
MAX	6.8	1.4	66	126	22	36	45	4.9	1.0	4.2	.89	4.0
MIN	.31	.63	.82	1.2	3.6	4.1	5.8	.87	.16	.11	.10	.08
CFSM	.27	.17	1.08	2.51	2.31	2.85	3.27	.37	.09	.11	.05	.07
IN.	.31	.19	1.25	2.89	2.41	3.29	3.65	.43	.11	.13	.06	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	4.68	9.48	11.1	8.70	11.1	17.8	17.1	10.7	6.34	2.84	2.55	3.40
MAX	22.1	29.3	27.8	23.8	30.7	33.0	48.3	25.0	31.0	10.2	25.8	15.7
(WY)	1982	1986	1973	1996	1976	1979	1970	1984	1972	1994	1994	1987
MIN	.10	.31	2.02	.83	.98	4.25	5.34	1.95	.50	.26	.19	.080
(WY)	1965	1965	1990	1981	1980	1981	1976	1999	1999	1966	1991	1964

e Estimated.

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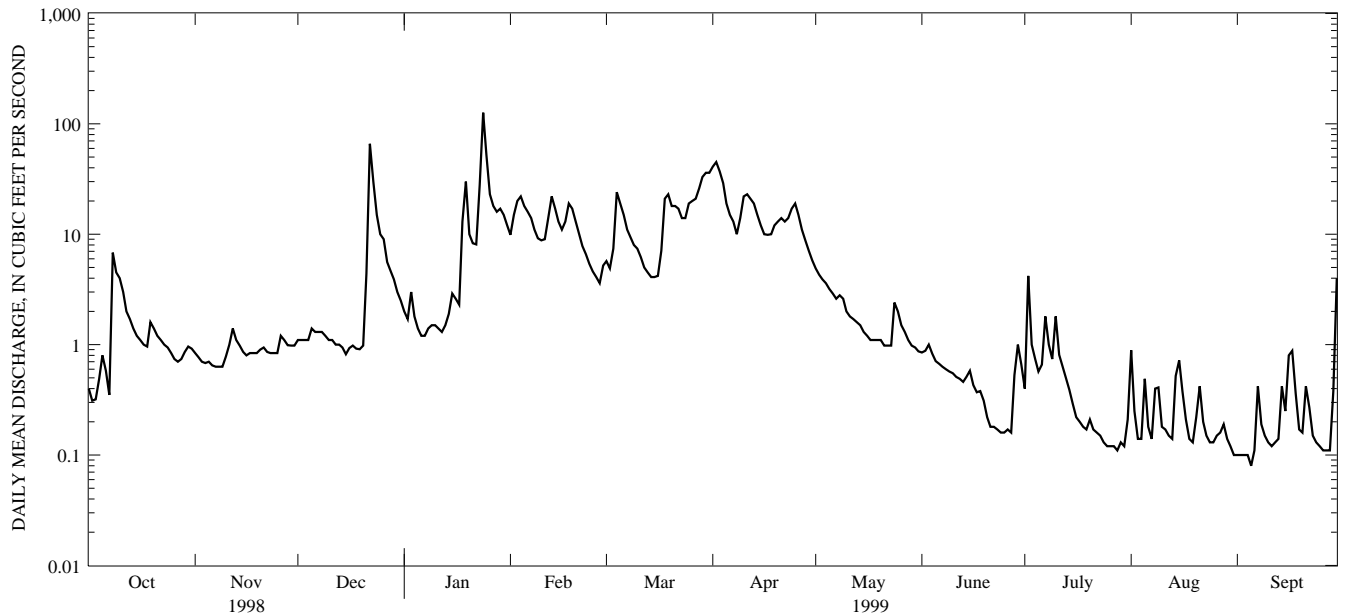
01542810 WALDY RUN NEAR EMPORIUM, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	2246.97		2081.44		8.79	
ANNUAL MEAN	6.16		5.70		14.5	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	153	Jan 8	126	Jan 24	e300	Jan 19 1996
LOWEST DAILY MEAN	e.06	Aug 8,9	.08	Sep 5	.00	Sep 14 1964
ANNUAL SEVEN-DAY MINIMUM	a.08	Aug 3	.10	Aug 31	.01	Sep 13 1964
INSTANTANEOUS PEAK FLOW			b160	Jan 24	b828	Sep 28 1967
INSTANTANEOUS PEAK STAGE			4.68	Jan 24	6.32	Sep 28 1967
INSTANTANEOUS LOW FLOW					.00	Sep 14 1964
ANNUAL RUNOFF (CFSM)	1.17		1.09		1.68	
ANNUAL RUNOFF (INCHES)	15.95		14.78		22.79	
10 PERCENT EXCEEDS	15		17		21	
50 PERCENT EXCEEDS	1.4		1.1		3.6	
90 PERCENT EXCEEDS	.25		.15		.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.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999