

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 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)
May 26	2200	*128	*4.55	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	.27	.65	3.2	e1.6	3.5	3.9	17	4.2	7.8	3.9	.34	1.2
2	.26	.63	2.4	e1.6	3.4	3.5	18	4.0	6.8	2.6	.31	.48
3	.26	.63	e1.8	e1.3	3.2	3.2	17	3.5	6.3	2.1	1.3	.32
4	.53	.63	e1.6	e1.0	e3.0	2.8	14	3.1	5.3	1.9	.84	.30
5	1.4	.63	e1.8	e1.2	2.8	2.9	14	2.9	4.9	1.8	.53	.28
6	13	.63	e1.4	e1.2	2.8	3.4	21	2.6	4.6	1.6	.40	.23
7	4.3	.57	e1.2	e.90	2.7	2.7	29	2.3	4.1	1.3	.33	.21
8	2.5	.57	e1.1	e.85	2.5	2.4	31	2.2	3.5	1.3	.30	.21
9	1.6	.68	e1.3	e.75	3.6	2.3	28	2.3	3.0	1.2	.26	.20
10	1.3	2.2	e1.1	e.84	26	2.1	22	2.1	2.7	1.2	.28	.20
11	1.1	1.9	e1.2	e.91	28	1.9	18	2.0	2.9	1.9	.27	.20
12	1.0	1.6	6.8	e.81	18	2.3	15	3.8	2.4	1.2	.25	.18
13	.91	1.5	6.6	e.90	13	8.3	11	2.4	2.0	.99	.24	.41
14	.85	1.3	6.5	e1.0	12	15	9.0	2.3	1.8	.85	.21	2.0
15	.91	1.1	5.0	e1.0	28	14	7.8	2.1	1.6	.81	.19	.54
16	.86	1.1	6.4	e.90	30	12	11	1.9	3.8	.91	.23	.35
17	1.2	1.1	37	e.86	22	12	15	1.8	2.6	1.2	.61	.28
18	3.0	1.0	31	e.84	16	13	17	1.8	1.8	.85	.30	.25
19	2.2	.94	18	e.84	12	13	14	1.8	1.6	.72	.25	.23
20	1.8	.90	11	e.90	10	15	13	1.6	1.4	.64	.25	.32
21	1.5	.86	7.3	e.80	8.2	26	15	1.7	1.4	.57	.24	.33
22	1.3	e.77	e5.0	e.74	e7.0	70	19	2.7	7.4	.52	.21	.61
23	1.1	e.80	e3.6	e.70	6.2	39	18	13	30	.52	.46	.36
24	1.1	.74	e3.2	e.70	e5.5	29	15	13	30	.51	.53	1.5
25	1.1	.67	e2.9	e.76	4.8	21	11	11	15	.52	.27	3.1
26	.98	3.4	e2.4	e.70	4.6	15	8.5	22	8.2	.77	.29	1.3
27	.98	5.9	e3.0	e.64	3.8	11	7.4	80	5.4	.52	.90	1.0
28	.94	5.6	e2.4	e.64	3.5	8.6	6.0	49	4.0	.39	.43	.86
29	.77	4.6	e2.2	e.70	---	7.3	5.0	28	3.2	.35	.41	.60
30	.72	4.0	e2.0	1.5	---	10	4.5	16	2.7	.43	.26	.46
31	.70	---	e1.8	3.5	---	15	---	10	---	.44	1.0	---
TOTAL	50.44	47.60	182.2	31.58	286.1	387.6	451.2	297.1	178.2	34.51	12.69	18.51
MEAN	1.63	1.59	5.88	1.02	10.2	12.5	15.0	9.58	5.94	1.11	.41	.62
MAX	13	5.9	37	3.5	30	70	31	80	30	3.9	1.3	3.1
MIN	.26	.57	1.1	.64	2.5	1.9	4.5	1.6	1.4	.35	.19	.18
CFSM	.31	.30	1.12	.19	1.95	2.39	2.87	1.83	1.13	.21	.08	.12
IN.	.36	.34	1.29	.22	2.03	2.75	3.20	2.11	1.27	.24	.09	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	4.48	9.12	10.8	8.41	11.0	17.4	17.1	10.6	6.29	2.74	2.44	3.24
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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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	2166.55		1977.73			
ANNUAL MEAN	5.92		5.42		8.63	
HIGHEST ANNUAL MEAN					14.5	1994
LOWEST ANNUAL MEAN					5.11	1965
HIGHEST DAILY MEAN	92	Apr 4	80	May 27	e300	Jan 19 1996
LOWEST DAILY MEAN	.13	Sep 7	.18	Sep 12	.00	Sep 14 1964
ANNUAL SEVEN-DAY MINIMUM	.15	Sep 4	.20	Sep 6	.01	Sep 13 1964
MAXIMUM PEAK FLOW			a128	May 26	a828	Sep 28 1967
MAXIMUM PEAK STAGE			4.55	May 26	6.32	Sep 28 1967
INSTANTANEOUS LOW FLOW					.00	Sep 14 1964
ANNUAL RUNOFF (CFSM)	1.13		1.03		1.65	
ANNUAL RUNOFF (INCHES)	15.38		14.04		22.37	
10 PERCENT EXCEEDS	14		15		21	
50 PERCENT EXCEEDS	2.1		1.8		3.5	
90 PERCENT EXCEEDS	.40		.33		.41	

a 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.

