

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)
May 13	1500	*144	*4.62	June 6	2100	105	4.44

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.36	1.1	21	e4.4	41	e4.5	23	21	9.0	1.6	0.45	0.21
2	0.34	1.1	14	e5.0	44	e4.3	15	24	7.4	1.5	0.39	0.21
3	0.31	1.9	8.9	e6.2	26	8.4	12	28	5.9	1.3	0.50	0.21
4	0.27	1.5	6.5	2.9	17	12	8.5	21	5.2	1.2	0.35	0.20
5	0.26	1.5	5.3	2.4	10	13	7.5	15	9.5	1.2	0.32	0.19
6	0.26	1.3	4.4	2.2	7.7	11	7.0	11	78	1.0	0.28	0.18
7	0.30	1.2	3.7	2.2	6.4	8.9	6.4	9.0	73	0.90	0.23	0.16
8	0.30	1.2	3.1	2.0	5.4	7.2	7.1	7.2	31	0.81	0.21	0.15
9	0.26	1.2	3.0	1.9	4.5	6.5	9.2	12	17	0.97	0.20	0.14
10	0.25	0.95	2.7	2.1	4.7	6.6	11	35	11	1.2	0.19	0.14
11	0.24	0.85	2.4	2.0	e7.0	5.8	13	28	7.4	0.78	0.19	0.14
12	0.25	0.76	2.2	2.0	10	5.9	12	64	5.6	0.66	0.18	0.13
13	0.31	0.67	2.7	2.0	11	5.8	16	131	4.5	0.65	0.18	0.12
14	0.73	0.65	4.3	1.8	e8.0	5.7	42	102	18	0.63	0.17	0.13
15	1.9	0.65	9.9	1.8	7.6	5.2	86	60	44	0.51	0.18	3.0
16	1.4	0.65	12	1.8	6.9	5.3	45	34	37	0.45	0.56	2.5
17	1.8	0.59	19	1.8	6.1	4.5	25	22	23	0.40	0.67	0.86
18	1.2	0.53	74	1.7	e4.4	5.0	17	34	15	0.39	0.36	0.45
19	0.89	0.58	40	e1.5	e4.0	5.6	13	44	9.6	0.42	0.28	0.50
20	0.81	1.1	22	e1.6	4.4	8.4	11	28	6.8	0.47	0.24	0.52
21	0.72	0.77	14	e1.6	5.5	13	8.7	18	5.2	0.37	0.20	0.33
22	0.68	0.67	9.5	e1.7	5.6	15	7.8	12	4.5	0.32	3.5	0.31
23	0.71	0.65	7.8	e1.7	6.4	13	6.4	9.2	3.8	1.6	2.4	0.25
24	3.7	0.60	7.1	5.4	6.7	10	5.3	7.6	3.1	1.0	1.2	0.21
25	2.5	7.8	5.8	19	6.8	8.7	5.2	6.0	2.6	0.60	0.71	0.21
26	1.8	11	5.0	17	7.0	28	4.7	7.3	2.4	0.70	0.42	0.21
27	1.8	7.3	4.8	12	6.4	66	4.2	5.4	3.3	0.66	0.32	5.2
28	1.7	5.2	4.4	11	5.5	36	41	5.0	3.2	1.1	0.28	4.1
29	1.3	6.4	4.0	12	---	28	67	6.2	2.1	1.3	0.26	1.8
30	1.2	13	3.3	20	---	37	35	9.5	1.8	0.91	0.24	1.2
31	1.2	---	e3.4	23	---	34	---	11	---	0.62	0.22	---
TOTAL	29.75	73.37	330.2	173.7	286.0	428.3	572.0	827.4	449.9	26.22	15.88	23.96
MEAN	0.960	2.446	10.65	5.603	10.21	13.82	19.07	26.69	15.00	0.846	0.512	0.799
MAX	3.7	13	74	23	44	66	86	131	78	1.6	3.5	5.2
MIN	0.24	0.53	2.2	1.5	4.0	4.3	4.2	5.0	1.8	0.32	0.17	0.12
CFSM	0.18	0.47	2.03	1.07	1.95	2.64	3.64	5.09	2.86	0.16	0.10	0.15
IN.	0.21	0.52	2.34	1.23	2.03	3.04	4.06	5.87	3.19	0.19	0.11	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	4.391	8.945	10.81	8.337	11.01	17.31	17.12	11.07	6.522	2.688	2.386	3.182
MAX	22.1	29.3	27.8	23.8	30.7	33.0	48.3	26.7	30.9	10.2	25.8	15.7
(WY)	1982	1986	1973	1996	1976	1979	1970	2002	1972	1994	1994	1987
MIN	0.10	0.31	2.02	0.83	0.98	4.25	5.34	1.95	0.50	0.26	0.19	0.080
(WY)	1965	1965	1990	1981	1980	1981	1976	1999	1999	1966	1991	1964

e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002	
ANNUAL TOTAL	2130.81		3236.68			
ANNUAL MEAN	5.84		8.87		8.63	
HIGHEST ANNUAL MEAN					14.5	1994
LOWEST ANNUAL MEAN					5.11	1965
HIGHEST DAILY MEAN	80	May 27	131	May 13	e300	Jan 19 1996
LOWEST DAILY MEAN	0.18	Sep 12	0.12	Sep 13	0.00	Sep 14 1964
ANNUAL SEVEN-DAY MINIMUM	0.20	Sep 6	0.14	Sep 8	0.01	Sep 13 1964
MAXIMUM PEAK FLOW			a144	May 13	a828	Sep 28 1967
MAXIMUM PEAK STAGE			4.62	May 13	6.32	Sep 28 1967
INSTANTANEOUS LOW FLOW					0.00	Sep 14 1964
ANNUAL RUNOFF (CFSM)	1.11		1.69		1.65	
ANNUAL RUNOFF (INCHES)	15.13		22.98		22.39	
10 PERCENT EXCEEDS	15		23		21	
50 PERCENT EXCEEDS	1.9		4.0		3.5	
90 PERCENT EXCEEDS	0.30		0.26		0.41	

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.

