2004 Water Year

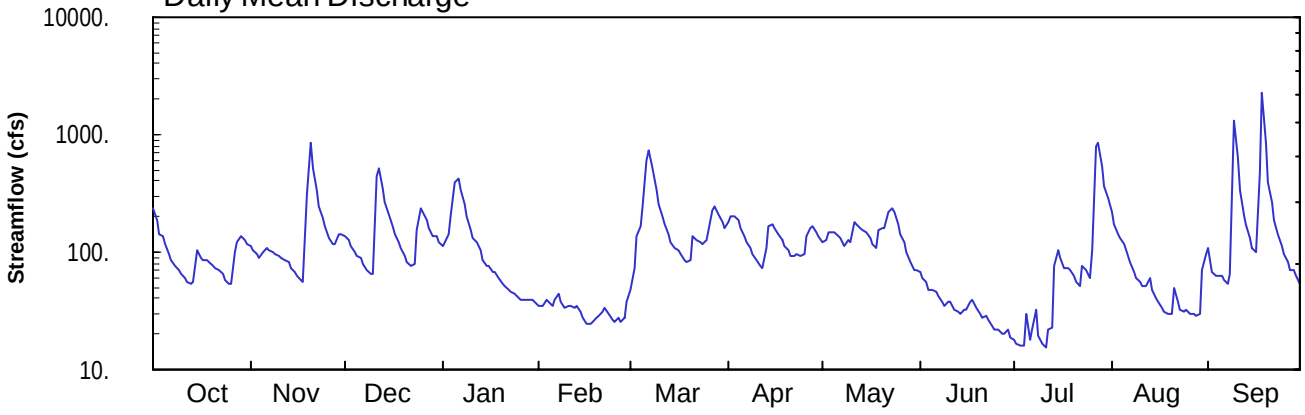
WEST BRANCH SUSQUEHANNA RIVER BASIN

01545600 Young Womans Creek near Renovo, PA

Latitude: 41°23'22" Longitude: 077°41'28" Hydrologic Unit Code: 02050203

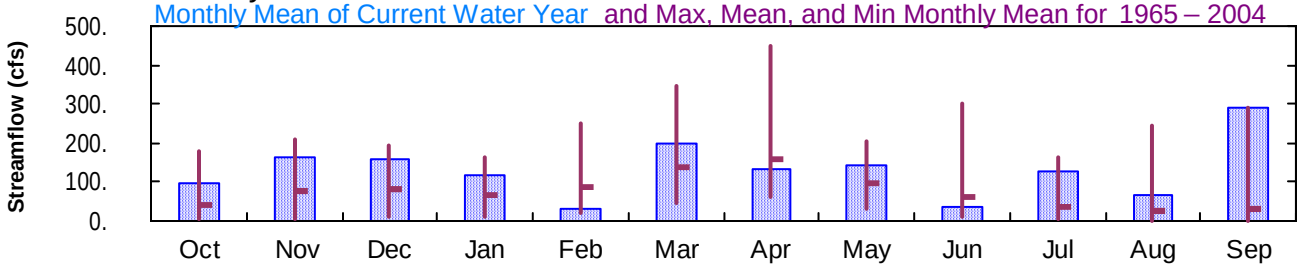
Clinton County Datum: 780.41 feet Drainage Area: 46.2 mi^2

Daily Mean Discharge

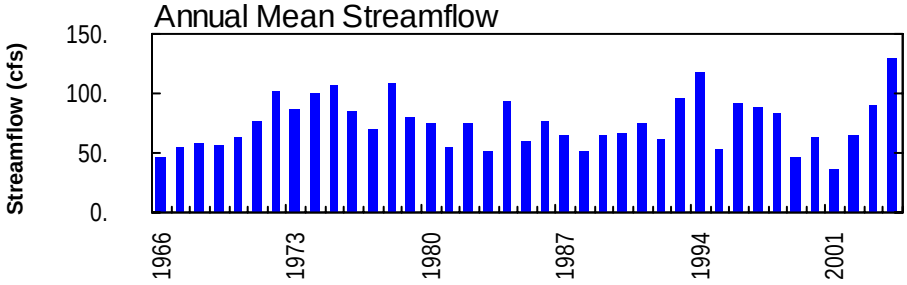


Monthly Statistics

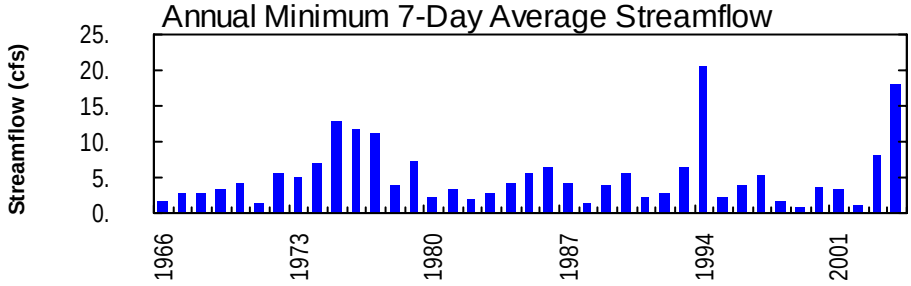
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1965 – 2004



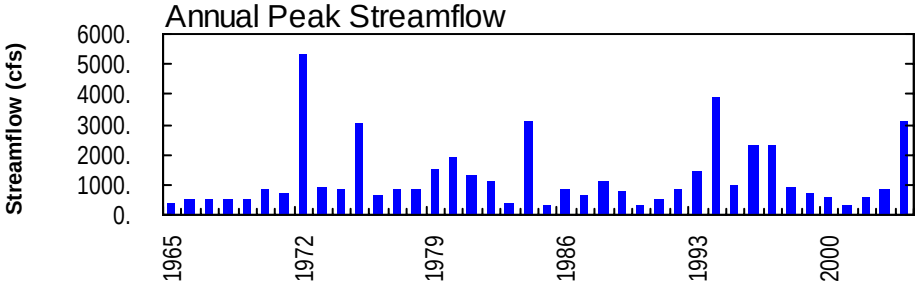
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



WEST BRANCH SUSQUEHANNA RIVER BASIN

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA

LOCATION.--Lat 41°23'22", long 77°41'28", Clinton County, Hydrologic Unit 02050203, on left bank on SR 4005, 0.3 mi downstream from Laurelly Fork, 1.5 mi upstream from Left Branch Young Womans Creek, 3.7 mi upstream from mouth, and 5.0 mi northeast of Renovo.

DRAINAGE AREA.--46.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 780.41 ft above National Geodetic Vertical Datum of 1929.

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 460 ft^3/s and maximum (*):

Date	Time	Discharge ft^3/s	Gage Height (ft)
Nov. 20	0215	933	4.03
Dec. 11	1400	560	3.40
Mar. 6	2200	843	3.88
July 27	2000	1,000	4.14
Sept. 9	Unknown	1.650	5.05
Sept. 18	Unknown	*3,110	*6.49

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	240	113	138	113	e35	47	179	122	69	18	221	e110
2	183	105	125	120	e35	74	204	127	61	17	175	68
3	143	97	111	140	e39	135	204	150	55	16	144	62
4	135	90	101	205	e38	169	187	147	48	16	131	62
5	116	99	94	387	e35	247	162	148	48	30	118	62
6	97	106	88	423	e39	605	137	134	46	18	94	57
7	85	104	78	333	e45	744	120	129	42	22	81	54
8	77	102	70	255	e37	508	108	111	38	32	69	e66
9	71	97	65	201	e33	342	96	125	35	20	60	e1300
10	65	92	64	151	e35	254	84	123	38	17	55	e640
11	60	88	443	e130	e35	203	76	177	38	16	52	e330
12	57	86	516	e120	e33	173	72	173	33	22	52	e210
13	54	81	355	103	e34	141	107	160	31	22	60	e170
14	55	74	265	87	e31	120	165	155	30	77	47	e130
15	106	67	208	e76	e27	110	173	151	32	105	41	e110
16	89	62	165	e75	e24	104	160	132	33	89	37	e100
17	86	58	142	e68	e25	96	144	116	38	74	34	e470
18	85	56	122	e66	e25	87	127	109	40	73	31	e2300
19	82	308	106	e60	e27	82	113	156	34	70	30	846
20	77	853	93	e54	e29	87	102	160	29	62	30	e390
21	73	522	81	e52	e31	135	92	159	27	55	50	e270
22	70	333	75	e47	e34	126	92	216	29	51	38	190
23	64	244	79	e46	e30	122	97	239	26	76	32	143
24	59	198	152	e43	e26	118	91	216	24	71	31	114
25	54	164	233	e42	e25	129	96	175	22	61	32	95
26	53	134	217	e40	e27	155	135	144	22	106	30	81
27	98	116	186	e40	e26	227	160	120	20	779	30	70
28	123	119	157	e40	e28	242	163	100	20	839	28	71
29	134	142	136	e40	38	212	150	83	21	535	30	62
30	129	141	138	e39	---	181	135	71	19	360	72	54
31	119	---	120	e37	---	162	---	70	---	284	e96	---
TOTAL	2939	4851	4923	3633	926	6137	3931	4398	1048	4033	2031	8687
MEAN	94.8	162	159	117	31.9	198	131	142	34.9	130	65.5	290
MAX	240	853	516	423	45	744	204	239	69	839	221	2300
MIN	53	56	64	37	24	47	72	70	19	16	28	54
CFSM	2.05	3.50	3.44	2.54	0.69	4.29	2.84	3.07	0.76	2.82	1.42	6.27
IN.	2.37	3.91	3.96	2.93	0.75	4.94	3.17	3.54	0.84	3.25	1.64	6.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	39.0	75.5	82.5	66.2	85.9	138	158	97.6	60.6	36.4	24.6	32.0
MAX	181	211	194	164	250	349	447	204	303	162	244	290
(WY)	1991	1997	1973	1996	1984	1979	1993	1996	1972	1992	1994	2004
MIN	4.05	4.65	8.63	8.25	19.6	44.7	60.9	31.8	9.09	4.64	2.47	2.17
(WY)	1983	1999	1999	1981	1987	1969	1988	1999	1991	1966	1999	1998

e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	41496		47537			
ANNUAL MEAN	114		130		75.2	
HIGHEST ANNUAL MEAN					130	2004
LOWEST ANNUAL MEAN					37.4	2001
HIGHEST DAILY MEAN	853	Nov 20	**e**2300	Sep 18	3310	Jun 23 1972
LOWEST DAILY MEAN	15	Jul 17	16	Jul 3,4,11	0.53	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	21	Jul 12	18	Jun 28	0.92	Aug 30 1999
MAXIMUM PEAK FLOW			**a**3110	Sep 18	**a**5370	Jun 23 1972
MAXIMUM PEAK STAGE			6.49	Sep 18	7.98	Jun 23 1972
ANNUAL RUNOFF (CFSM)	2.46		2.81		1.63	
ANNUAL RUNOFF (INCHES)	33.41		38.28		22.11	
10 PERCENT EXCEEDS	225		229		172	
50 PERCENT EXCEEDS	83		90		42	
90 PERCENT EXCEEDS	30		30		6.6	

a From rating curve extended above 1,000 ft^3/s on basis of slope-area measurement of peak flow.
e Estimated.

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to 1999, 2004 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: October 1980 to September 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, µS/cm 25 degC (90095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 2003										
14...	0630	1028	83613	52	6.6	36	9.3	3.85	.96	.73
14...	2219	1028	83613	75	6.8	36	10.7	3.62	.94	1.19
15...	0439	1028	83613	127	6.8	38	10.5	3.80	.97	1.15
17...	1009	1028	83613	86	6.6	37	8.0	3.69	.94	.79
17...	1014	1028	83613	86	6.7	37	8.0	3.67	.94	.70
20...	0737	1028	83613	78	6.7	36	6.9	3.68	.94	.71
27...	1005	1028	83613	87	6.7	36	9.5	3.79	.95	.85
27...	2213	1028	83613	126	6.8	38	8.5	3.82	.97	.85
NOV										
11...	0830	1028	83613	88	6.8	36	--	3.72	.93	.65
19...	0925	1028	83613	92	6.3	35	--	3.70	.93	.75
19...	2114	1028	83613	806	6.2	37	--	3.58	.92	1.16
21...	0053	1028	83613	684	6.3	34	--	3.43	1.00	.75
DEC										
09...	0745	1028	83613	66	6.4	34	--	3.52	.92	.60
JAN 2004										
05...	0543	1028	83613	339	5.9	33	4.9	3.14	.77	.60
06...	0845	1028	83613	435	5.8	34	4.7	3.21	.79	.62
FEB										
02...	1145	1028	83613	E35	6.0	35	-.1	3.46	.89	.55
MAR										
02...	0745	1028	83613	56	6.4	39	1.5	4.03	1.04	.60
04...	1850	1028	83613	185	6.4	37	4.3	3.76	.92	--
06...	1730	1028	83613	777	6.3	34	5.2	3.10	.78	--
07...	0353	1028	83613	819	6.2	33	4.7	3.07	.80	.65
21...	0715	1028	83613	136	6.5	35	3.5	3.29	.84	--
30...	0920	1028	83613	185	6.3	31	5.4	3.03	.80	.59
APR										
01...	2048	1028	83613	208	6.5	34	6.7	3.27	.84	--
27...	0715	1028	83613	155	6.5	35	7.5	3.70	.92	--
JUN										
22...	0645	1028	83613	28	6.8	39	14.5	4.04	1.00	--
JUL										
20...	0700	1028	83613	64	7.0	39	14.4	4.18	.98	--
AUG										
17...	0545	1028	83613	35	6.7	36	13.9	3.75	.94	--
SEP										
09...	0311	1028	83613	E1300	6.7	33	15.5	3.38	.84	--
09...	1456	1028	83613	E1300	6.4	30	14.7	2.98	.69	--
10...	1746	1028	83613	E640	6.6	32	13.4	3.20	.79	--
14...	0700	1028	83613	E130	6.8	32	12.5	3.25	.86	--
17...	1750	1028	83613	E470	6.7	37	13.8	3.83	.96	--
17...	2121	1028	83613	E470	6.4	33	13.7	3.49	.86	--
17...	2235	1028	83613	E470	6.7	33	13.7	3.38	.84	--
18...	0231	1028	83613	E2300	6.3	31	13.2	3.22	.77	--
18...	0731	1028	83613	E2300	6.3	30	12.5	3.12	.74	--
18...	1756	1028	83613	E2300	6.3	31	12.2	3.21	.79	--
19...	0906	1028	83613	906	6.5	31	10.7	3.19	.79	--
28...	0610	1028	83613	76	6.7	35	12.9	3.61	.93	--

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium, water, fltrd, mg/L (00930)	ANC, water, unfltrd Gran titr., µeq/L (00409)	Chlor-ide, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water, fltrd, mg/L as N (00618)	Organic carbon, water, fltrd, mg/L (00681)	Alum-inum, water, fltrd, µg/L (01106)	Organic mono-meric alum-inum, wat unf µg/L (49288)
OCT 2003										
14...	.81	104	1.0	2.14	7.3	<.028	.10	1.2	<27	<40
14...	.77	125	1.1	2.01	7.0	.036	.05	5.1	33	<40
15...	.78	124	1.2	2.10	7.1	.056	.16	4.5	38	<40
17...	.77	109	1.1	2.16	7.9	<.028	.09	2.7	<27	<40
17...	.78	105	1.1	2.22	8.0	.063	.17	2.5	<27	<40
20...	.78	102	1.1	2.15	8.0	.040	.13	2.8	<27	<40
27...	.80	111	1.1	1.98	7.3	<.028	.08	4.0	<27	<40
27...	.82	100	1.2	2.09	7.6	.029	.24	3.5	31	<40
NOV										
11...	.75	89	1.0	2.09	8.0	<.028	.21	1.1	<27	<40
19...	.79	107	1.1	1.88	7.6	<.028	.16	4.8	<27	<40
19...	.62	68	.9	1.84	8.0	<.028	.61	3.2	48	<40
21...	.62	63	.8	2.15	8.2	<.028	.32	1.8	31	<40
DEC										
09...	.77	77	1.0	2.09	8.3	<.028	.27	1.2	<27	<40
JAN 2004										
05...	.72	64	.9	1.84	7.4	<.028	.31	2.4	<27	57
06...	.63	52	.8	1.94	8.0	<.028	.38	1.2	<27	56
FEB										
02...	.84	79	1.1	1.92	7.6	<.028	.29	.7	<27	<40
MAR										
02...	.83	88	.9	1.84	8.1	<.028	.58	.9	<27	<40
04...	--	68	1.1	1.91	9.0	.140	.74	1.7	<27	<40
06...	--	55	.8	1.78	7.3	.148	.57	1.6	<27	<40
07...	.61	41	.8	1.90	7.6	.084	.51	1.7	<27	<40
21...	--	68	1.1	1.75	7.3	.038	.47	1.7	<27	<40
30...	.68	50	.8	1.98	7.5	<.028	.29	1.1	<27	<40
APR										
01...	--	75	1.2	1.85	8.3	.131	.39	2.0	58	<40
27...	--	78	1.0	1.93	9.0	<.028	.48	1.0	48	<40
JUN										
22...	--	142	1.0	1.99	6.9	<.028	.29	1.0	89	<40
JUL										
20...	--	150	.3	2.03	4.3	<.028	.17	1.7	<27	--
AUG										
17...	--	141	1.1	1.97	7.4	<.028	.20	1.0	<27	--
SEP										
09...	--	106	.8	1.79	5.3	--	.33	4.7	48	--
09...	--	53	.6	1.96	7.0	--	.21	2.9	61	--
10...	--	73	.6	2.21	7.3	--	.16	2.2	<27	--
14...	--	88	.8	2.26	7.0	--	.18	1.5	<27	--
17...	--	122	.6	1.97	6.5	--	.38	4.1	43	--
17...	--	100	.7	1.87	6.2	<.028	.34	3.7	54	--
17...	--	87	.6	2.20	7.3	--	.22	2.3	<27	--
18...	--	69	.5	1.88	7.0	<.028	.28	3.6	49	--
18...	--	53	.5	2.01	7.5	<.028	.24	3.0	37	--
18...	--	59	.6	2.21	7.9	<.028	.21	2.3	31	--
19...	--	68	.6	2.25	8.0	<.028	.19	2.2	65	--
28...	--	113	.9	2.30	7.4	<.028	.17	1.2	<27	--