



2005 Water Year  
WEST BRANCH SUSQUEHANNA RIVER BASIN  
01545600 Young Womans Creek near Renovo, PA

Latitude: 41° 23 ' 22"

Longitude: 077° 41 ' 28"

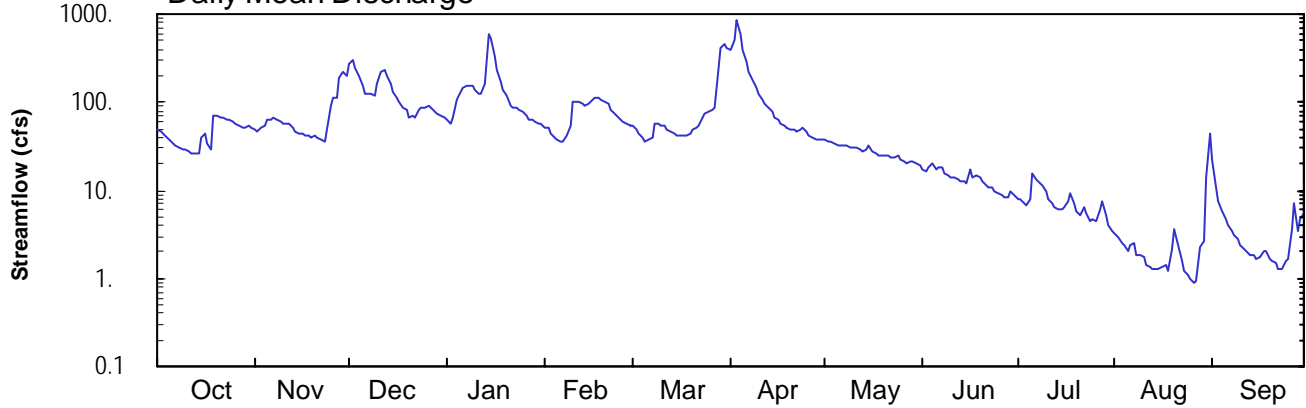
Hydrologic Unit Code: 02050203

Clinton County

Datum: 780.41 feet

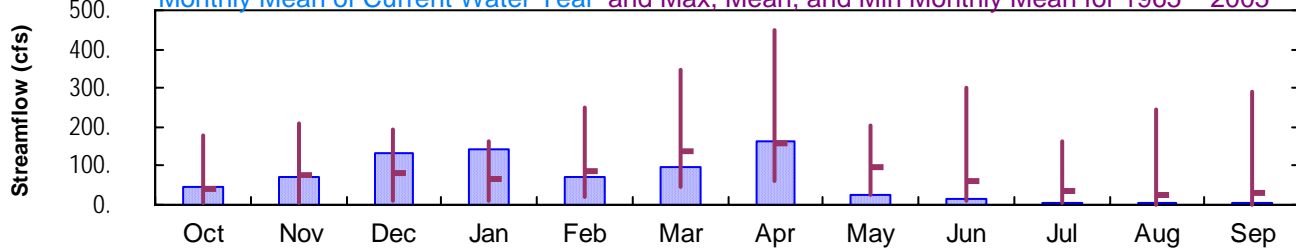
Drainage Area: 46.2 mi<sup>2</sup>

### Daily Mean Discharge

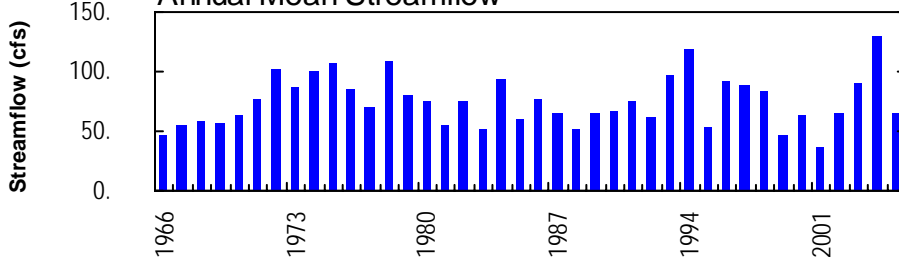


### Monthly Statistics

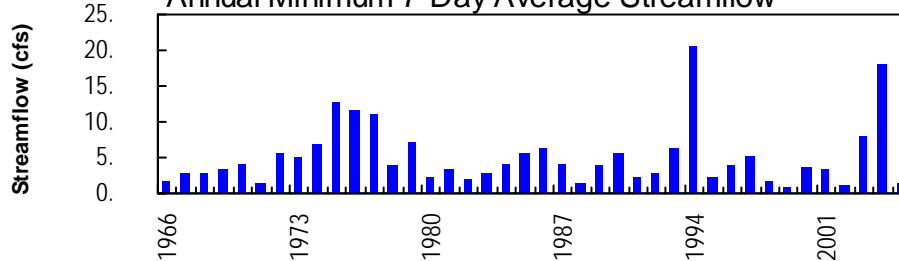
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1965 – 2005



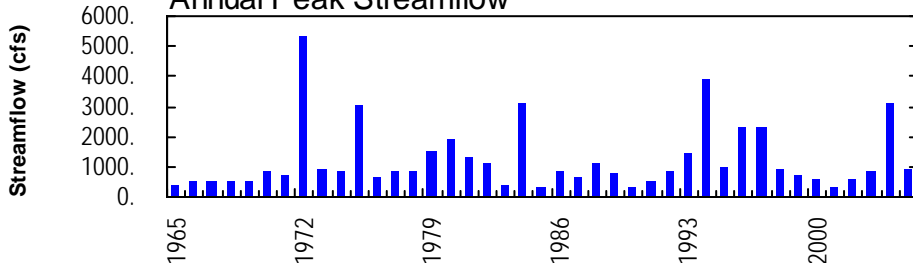
### Annual Mean Streamflow



### 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<sup>2</sup>.

## 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 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 460 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Jan. 14	2000	681	3.61	Apr. 3	1000	*933	*4.03

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	48	272	62	53	54	388	38	17	8.1	3.2	22
2	46	46	301	57	50	50	520	36	16	8.0	2.9	11
3	44	51	252	67	44	e45	871	35	18	7.2	2.6	7.5
4	40	53	194	108	40	e40	608	34	20	6.6	2.3	5.8
5	37	63	154	120	37	e35	386	33	17	7.9	2.1	4.8
6	34	63	127	146	36	e38	281	32	18	16	2.4	3.9
7	33	65	122	154	36	e40	223	32	19	13	2.5	3.5
8	31	64	125	157	41	e58	180	32	16	12	1.8	3.2
9	29	61	120	153	55	56	146	31	15	11	1.8	2.8
10	29	58	163	140	100	e55	124	31	14	9.6	1.7	2.4
11	27	56	226	124	103	55	107	30	14	7.8	1.4	2.1
12	26	56	234	126	102	e50	95	29	14	7.0	1.3	1.9
13	26	51	204	161	94	e47	85	28	13	6.5	1.3	1.8
14	26	47	164	585	89	e43	76	29	13	6.1	1.3	1.8
15	40	45	134	542	96	e42	68	31	12	6.2	1.3	1.7
16	44	44	114	335	105	e41	62	28	17	6.5	1.3	1.8
17	33	42	101	231	111	42	58	27	14	7.6	1.4	2.1
18	30	42	89	170	113	43	55	25	15	9.4	1.2	2.0
19	70	40	82	137	107	43	52	24	14	7.1	2.2	1.7
20	70	42	e66	117	99	48	50	25	12	5.7	3.5	1.6
21	68	40	e70	e92	94	52	48	25	12	5.2	2.4	1.5
22	66	38	66	e88	84	54	46	23	11	6.3	1.6	1.3
23	63	36	84	e85	75	67	48	23	11	5.4	1.2	1.3
24	63	49	88	e82	69	75	51	24	9.7	4.4	1.1	1.6
25	60	93	88	e80	64	79	46	23	9.2	4.6	0.98	1.6
26	56	113	90	72	59	84	43	22	8.7	4.4	0.88	3.6
27	54	113	85	e64	e56	85	40	20	8.3	6.2	0.92	7.3
28	51	189	e80	e62	53	248	38	21	8.4	7.6	2.3	3.5
29	50	226	e75	e60	---	416	37	21	9.5	5.2	2.6	4.7
30	54	202	70	e58	---	470	39	20	8.8	4.0	14	5.4
31	52	---	65	57	---	410	---	19	---	3.5	44	---
TOTAL	1401	2136	4105	4492	2065	2965	4871	851	404.6	226.1	111.48	117.2
MEAN	45.2	71.2	132	145	73.8	95.6	162	27.5	13.5	7.29	3.60	3.91
MAX	70	226	301	585	113	470	871	38	20	16	44	22
MIN	26	36	65	57	36	35	37	19	8.3	3.5	0.88	1.3
CFSM	0.98	1.54	2.87	3.14	1.60	2.07	3.51	0.59	0.29	0.16	0.08	0.08
IN.	1.13	1.72	3.31	3.62	1.66	2.39	3.92	0.69	0.33	0.18	0.09	0.09

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)

MEAN	39.2	75.4	83.7	68.1	85.6	137	158	95.9	59.4	35.7	24.1	31.4
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	27.5	9.09	4.64	2.47	2.17
(WY)	1983	1999	1999	1981	1987	1969	1988	2005	1991	1966	1999	1998

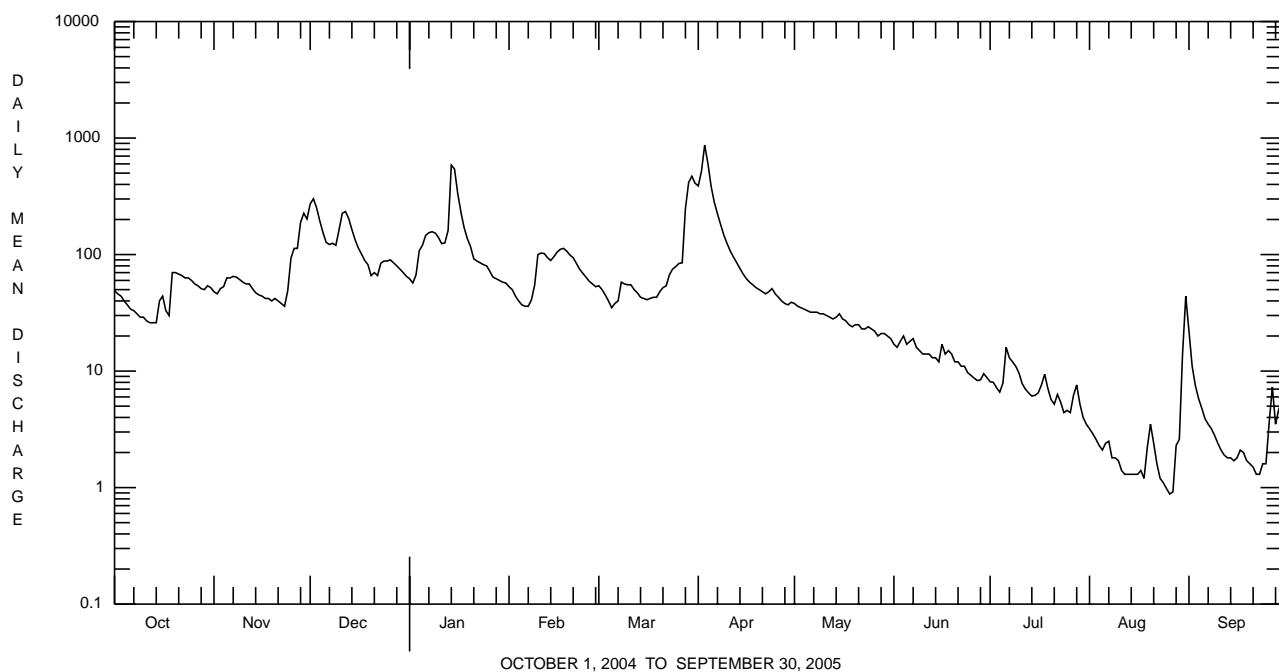
e Estimated.

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005	
ANNUAL TOTAL	42466		23745.38			
ANNUAL MEAN	116		65.1		74.9	
HIGHEST ANNUAL MEAN					130	2004
LOWEST ANNUAL MEAN					37.4	2001
HIGHEST DAILY MEAN	e2300	Sep 18	871	Apr 3	3310	Jun 23 1972
LOWEST DAILY MEAN	16	Jul 3,4,11	0.88	Aug 26	0.53	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	18	Jun 28	1.3	Aug 22	0.92	Aug 30 1999
MAXIMUM PEAK FLOW			933	Apr 3	a5370	Jun 23 1972
MAXIMUM PEAK STAGE			4.03	Apr 3	7.98	Jun 23 1972
ANNUAL RUNOFF (CFSM)	2.51		1.41		1.62	
ANNUAL RUNOFF (INCHES)	34.19		19.12		22.03	
10 PERCENT EXCEEDS	211		142		171	
50 PERCENT EXCEEDS	70		41		42	
90 PERCENT EXCEEDS	29		2.4		6.5	

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



## WEST BRANCH SUSQUEHANNA RIVER BASIN

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 2004 TO SEPTEMBER 2005

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat un- lab, µS/cm 25 degC (90095)	Temper- ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
OCT 2004										
26...	0555	1028	83613	57	6.8	36	9.7	3.86	1.02	.72
NOV										
16...	0825	1028	83613	44	6.4	34	3.3	3.63	.91	.60
DEC										
14...	0830	1028	83613	170	6.1	34	4.8	3.19	.84	.63
JAN 2005										
11...	0645	1028	83613	126	6.0	34	-.4	3.36	.86	.60
FEB										
08...	0530	1028	83613	37	6.5	36	2.6	3.53	.89	.63
08...	0745	1028	83613	39	6.5	33	1.6	3.44	.85	.58
APR										
02...	1220	1028	83613	471	6.2	30	6.7	2.91	.76	.60
02...	2055	1028	83613	703	6.2	29	6.1	2.79	.71	.62
03...	1310	1028	83613	917	6.2	30	5.8	2.89	.74	.62
05...	0745	1028	83613	410	6.3	31	4.8	3.06	.79	.61
26...	0708	1028	83613	43	6.6	35	4.8	3.61	.89	.74
MAY										
04...	1308	1028	83613	35	6.1	35	--	3.75	.91	.69
31...	0600	1028	83613	19	6.2	38	8.8	4.25	.99	.73
JUN										
28...	0415	1028	83613	8.1	6.3	43	19.4	4.87	1.10	.88
29...	1619	1028	83613	11	6.2	42	22.2	4.91	1.10	1.01
30...	0354	1028	83613	9.1	6.5	47	19.9	5.26	1.16	.92
JUL										
05...	2319	1028	83613	13	6.5	47	19.6	5.75	1.15	.96
06...	0300	1028	83613	22	6.6	47	19.4	5.40	1.14	.96
17...	1535	1028	83613	7.1	6.3	44	22.9	4.87	1.09	.92
18...	2200	1028	83613	8.6	6.5	46	22.6	5.14	1.16	.93
26...	0540	1028	83613	4.5	6.8	49	19.5	5.26	1.20	.93
AUG										
08...	1235	1028	83613	1.8	6.4	54	--	6.07	1.24	1.00
23...	0740	1028	83613	1.4	6.9	53	16.9	5.76	1.31	.97
SEP										
20...	0730	1028	83613	1.6	6.7	52	17.0	5.68	1.31	.93

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Sodium, water, fltrd, mg/L (00930)	ANC, water, unfltrd Gran titr., ueq/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 2004										
26...	.76	125	1.0	2.08	8.2	<.028	.20	1.0	<27	<40
NOV										
16...	.76	93	1.0	1.90	7.3	<.028	.23	.9	<27	<40
DEC										
14...	.59	83	.8	2.03	8.2	<.028	.29	1.4	39	<40
JAN 2005										
11...	.65	76	.9	1.93	8.3	<.028	.37	.9	35	<40
FEB										
08...	.86	83	1.1	1.68	7.4	.078	.40	1.0	<27	<40
08...	.79	84	1.1	1.81	8.1	<.028	.34	1.0	<27	<40
APR										
02...	.64	57	.9	1.74	6.9	.048	.26	2.1	<27	<40
02...	.63	46	.9	1.64	6.8	.038	.27	2.2	<27	<40
03...	.55	45	.7	1.75	7.3	.047	.30	1.7	<27	<40
05...	.58	53	.8	1.88	7.6	.036	.31	.9	<27	<40
26...	.83	96	1.2	1.91	7.8	.067	.28	.8	<27	<40
MAY										
04...	.89	110	1.1	1.84	7.2	<.028	.21	3.3	<27	<40
31...	1.02	131	1.4	1.89	7.4	<.028	.24	1.0	<27	<40
JUN										
28...	1.26	186	1.4	1.80	7.1	<.028	.33	1.2	43	<40
29...	1.22	165	1.6	1.75	6.8	<.028	<.03	7.8	<27	<40
30...	1.28	219	1.5	1.81	6.9	.368	<.03	5.6	74	<40
JUL										
05...	1.27	207	1.4	1.64	6.8	.240	<.03	7.4	363	<40
06...	1.25	207	1.4	1.75	7.1	.305	<.03	5.2	233	<40
17...	1.31	203	1.6	1.47	6.4	<.028	<.03	8.2	<27	<40
18...	1.36	213	1.6	1.52	6.7	<.028	<.03	6.4	<27	<40
26...	1.47	235	2.0	1.35	7.7	.038	.27	1.0	<27	<40
AUG										
08...	1.71	242	2.5	1.17	6.9	.318	<.03	10.8	217	<40
23...	1.80	253	2.5	1.21	6.8	.053	<.03	1.0	<27	<40
SEP										
20...	1.78	242	2.6	1.07	7.6	<.028	.19	.9	<27	<40