



2005 Water Year  
WEST BRANCH SUSQUEHANNA RIVER BASIN  
01550000 Lycoming Creek near Trout Run, PA

Latitude: 41° 25 ' 06"

Longitude: 077° 01 ' 59"

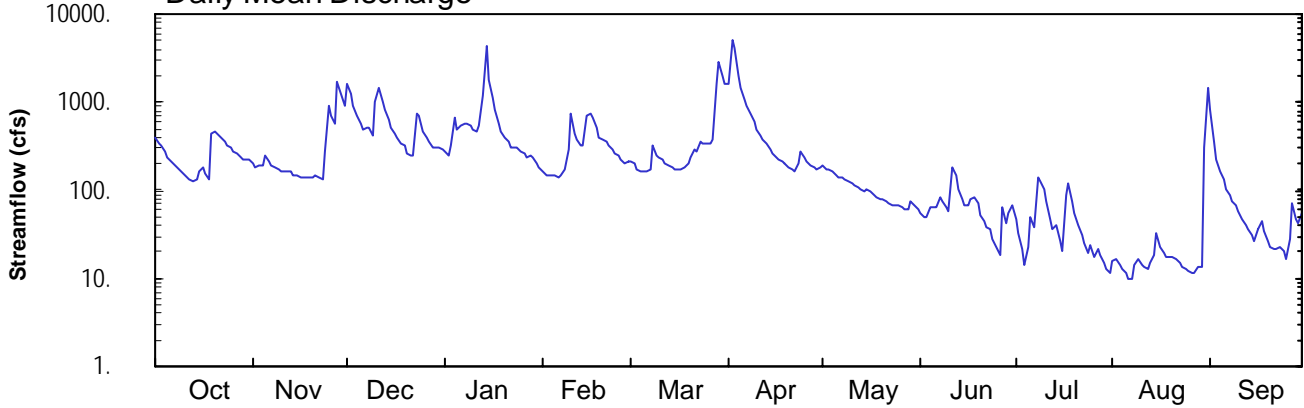
Hydrologic Unit Code: 02050206

Lycoming County

Datum: 693.95 feet

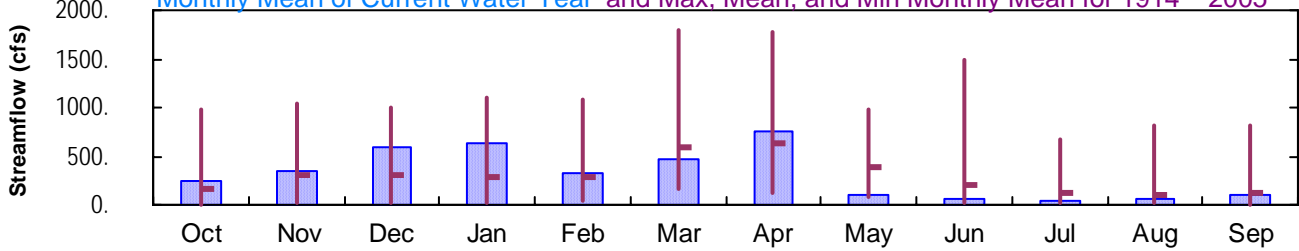
Drainage Area: 173. mi<sup>2</sup>

### Daily Mean Discharge

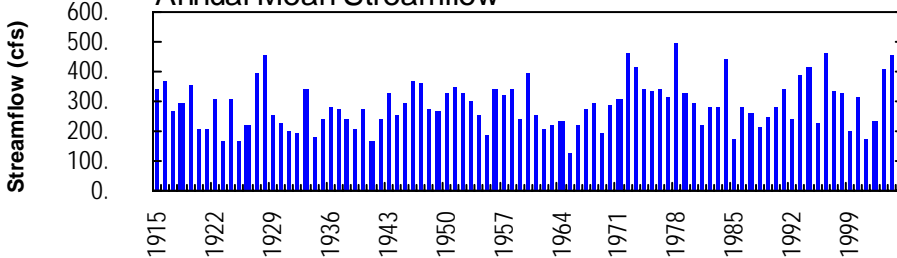


### Monthly Statistics

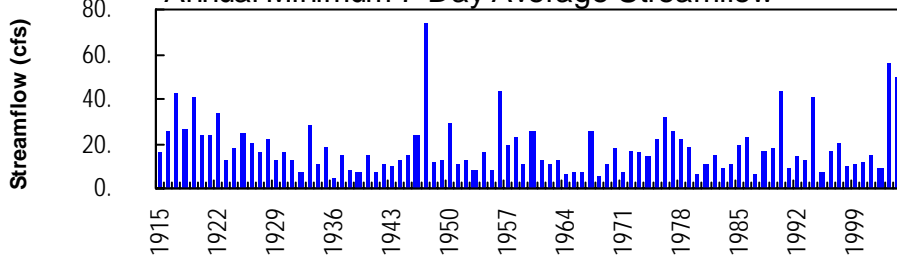
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1914 – 2005



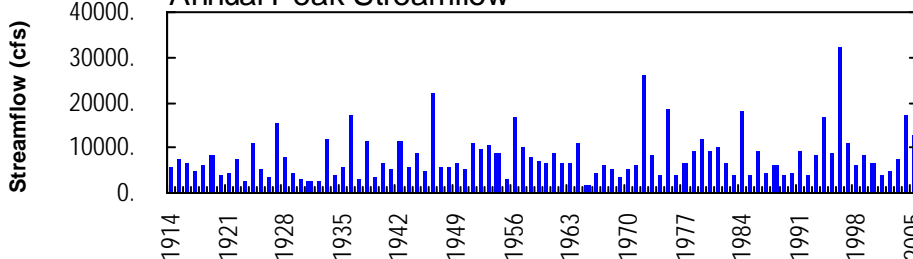
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



WEST BRANCH SUSQUEHANNA RIVER BASIN

01550000 LYCOMING CREEK NEAR TROUT RUN, PA  
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 41°25'06", long 77°01'59", Lycoming County, Hydrologic Unit 02050206, on right bank 150 ft upstream from bridge on Township Route 840, 0.5 mi downstream from Grays Run, and 2.6 mi northeast of Trout Run.

DRAINAGE AREA.--173 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1913 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 921: 1933, 1934(M), 1935-39. WSP 1302: 1914-16, 1922(M), 1932-25, 1926(M), 1927-28, 1930, 1931(M). WSP 1502: 1920-21(M), 1932(M), 1933.

GAGE.--Water-stage recorder. Datum of gage is 693.95 ft above National Geodetic Vertical Datum of 1929. Prior to June 1, 1939, nonrecording gage at site 150 ft downstream at same datum.

REMARKS.--Records good except for period June 8 to Sept. 30, which is fair, and 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 2,900 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)
Nov. 28	1215	3,330	7.81	Mar. 29	0730	3,270	7.74
Jan. 14	0845	6,620	10.48	Apr. 2	2030	*12,600	*13.63

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	397	198	1590	280	e160	210	1590	189	54	47	16	825
2	344	182	1220	253	e150	199	5030	176	49	33	17	350
3	323	190	912	315	151	175	e4200	170	50	21	14	226
4	278	192	697	678	148	163	e2000	160	66	14	13	168
5	241	247	567	481	144	166	1440	150	65	23	11	131
6	213	213	477	531	142	162	1080	144	63	50	9.9	105
7	198	195	505	559	147	173	901	138	82	38	9.8	89
8	180	182	520	577	174	329	743	130	76	137	14	76
9	166	174	429	553	297	253	594	123	65	129	16	66
10	155	167	1000	492	759	230	497	118	58	104	14	57
11	144	162	1470	467	430	221	425	113	182	74	13	48
12	133	163	1040	537	375	205	371	106	150	47	13	41
13	125	161	809	1170	330	190	332	100	101	36	15	36
14	135	151	637	4340	314	179	297	97	79	40	18	31
15	160	145	512	1830	719	169	267	101	67	27	33	27
16	183	142	434	1120	757	169	241	96	69	21	23	36
17	153	141	394	819	657	169	224	89	81	e90	20	44
18	132	140	343	e560	510	182	210	84	82	e120	17	34
19	451	140	320	e460	405	199	197	79	70	75	18	26
20	474	139	e260	e400	383	236	184	77	51	55	18	22
21	421	145	e250	e350	364	285	175	75	44	41	16	21
22	392	139	248	e310	330	278	161	70	39	31	15	21
23	355	131	742	e300	296	365	201	67	36	26	14	23
24	330	272	704	e300	264	347	277	67	28	20	13	20
25	307	931	461	e280	249	341	242	67	22	24	12	17
26	280	720	400	e260	229	347	209	64	18	18	11	28
27	256	572	360	e240	206	368	196	60	65	21	11	70
28	239	1680	e310	e250	214	1620	184	62	42	18	13	46
29	223	1260	314	e230	---	2920	176	73	54	15	14	43
30	225	890	304	202	---	1950	179	66	68	13	300	54
31	220	---	289	180	---	1590	---	60	---	12	1430	---
TOTAL	7833	10164	18518	19324	9304	14390	22823	3171	1976	1420	2171.7	2781
MEAN	253	339	597	623	332	464	761	102	65.9	45.8	70.1	92.7
MAX	474	1680	1590	4340	759	2920	5030	189	182	137	1430	825
MIN	125	131	248	180	142	162	161	60	18	12	9.8	17
CFSM	1.46	1.96	3.45	3.60	1.92	2.68	4.40	0.59	0.38	0.26	0.40	0.54
IN.	1.68	2.19	3.98	4.16	2.00	3.09	4.91	0.68	0.42	0.31	0.47	0.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	163	301	315	276	293	590	623	382	205	116	93.6	115
MAX	983	1044	1003	1095	1082	1788	1783	979	1488	674	812	807
(WY)	1991	1927	1997	1996	1981	1936	1993	1919	1972	1915	1994	2004
MIN	7.65	13.4	26.4	20.5	37.8	160	132	74.8	18.0	16.0	10.3	6.25
(WY)	1965	1965	1965	1931	1931	1969	1946	1941	1991	1964	1964	1964

e Estimated.

## WEST BRANCH SUSQUEHANNA RIVER BASIN

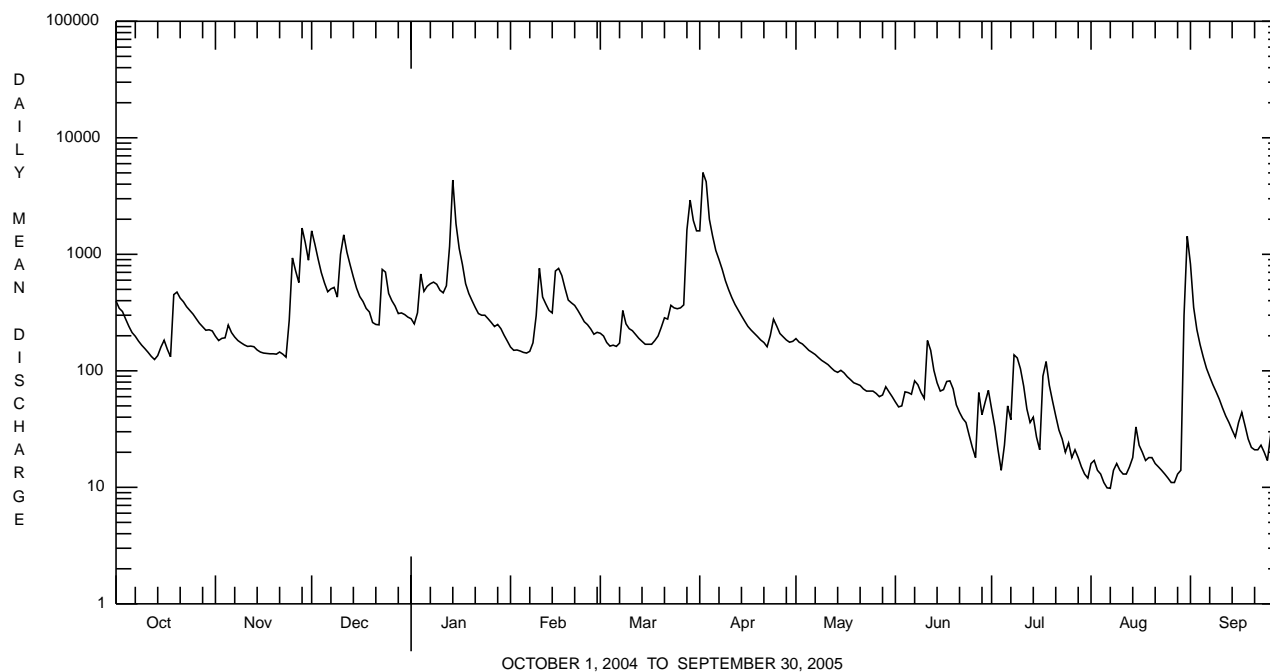
## 01550000 LYCOMING CREEK NEAR TROUT RUN, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	149963		113875.7			
ANNUAL MEAN	410		312		289	
HIGHEST ANNUAL MEAN					491	1978
LOWEST ANNUAL MEAN					124	1965
HIGHEST DAILY MEAN	10100	Sep 18	5030	Apr 2	15000	Jan 19 1996
LOWEST DAILY MEAN	31	Jul 4	9.8	Aug 7	4.0	Sep 19-24 1936 <sup>a</sup>
ANNUAL SEVEN-DAY MINIMUM	50	Jun 30	13	Aug 3	4.1	Sep 18 1936
MAXIMUM PEAK FLOW			<sup>b</sup> 12600	Apr 2	<sup>b</sup> 32000	Jan 19 1996
MAXIMUM PEAK STAGE			13.63	Apr 2	<sup>c</sup> 22.68	Jan 19 1996
INSTANTANEOUS LOW FLOW					3.2	Sep 27 1936
ANNUAL RUNOFF (CFSM)	2.37		1.80		1.67	
ANNUAL RUNOFF (INCHES)	32.25		24.49		22.69	
10 PERCENT EXCEEDS	814		700		665	
50 PERCENT EXCEEDS	260		173		142	
90 PERCENT EXCEEDS	86		20		25	

<sup>a</sup> Also Sept. 27, 28, 1936 and Sept. 1, 1968.

<sup>b</sup> From rating curve extended above 5,300 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

<sup>c</sup> From floodmark in gage.



## WEST BRANCH SUSQUEHANNA RIVER BASIN

01550000 LYCOMING CREEK NEAR TROUT RUN, PA--Continued  
(Pennsylvania Water-Quality Network Station)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Some values for "dissolved" parameters exceed values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

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

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd lab, $\mu$ S/cm 25 degC (90095)	Specif. conductance, wat unfltrd lab, $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
Date	Calcium water unfltrd recoverable, mg/L (00916)	Magnesium water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recoverable, mg/L (00927)	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat fltrd mg/L (00515)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water, unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)
OCT 2004													
20...	6.7	1.44	1.4	16	--	8.2	46	12	<.020	.30	<.040	<.01	<.010
NOV 08...	7.4	1.51	1.6	16	--	9.8	64	2	<.020	.33	<.040	<.01	<.010
DEC 14...	5.2	1.14	1.2	10	2.0	9.3	44	2	.020	.50	<.040	<.01	<.010
JAN 2005													
25...	5.5	1.18	1.2	11	--	10.2	32	<2	<.020	.64	<.040	<.01	<.010
MAR 15...	6.7	1.50	1.5	13	--	10.6	50	<2	<.020	.56	<.040	<.01	<.010
MAY 19...	7.4	1.48	1.5	14	--	11.4	76	<2	<.020	.36	<.040	<.01	.021
JUL 21...	9.1	1.67	1.7	18	--	11.1	60	6	<.020	.34	<.040	<.01	<.010

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01550000 LYCOMING CREEK NEAR TROUT RUN, PA--Continued

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

Date	Total nitrogen, water, unfltrd mg/L (00600)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recover -able, µg/L (01105)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	Manganese, water, fltrd, µg/L (01056)	Manganese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)
OCT 2004 20...	.39	.5	40	90	<4	<4	20	90	<1.0	<1.0	20	30	<4.0
NOV 08...	.44	1.1	30	40	<4	<4	<20	<20	<1.0	<1.0	10	10	<4.0
DEC 14...	.61	.7	50	100	<4	<4	20	60	<1.0	<1.0	20	30	<4.0
JAN 2005 25...	.73	.4	30	100	<4	<4	<20	40	<1.0	<1.0	20	30	<4.0
MAR 15...	.63	2.6	30	60	<4	<4	<20	<20	<1.0	<1.0	20	20	<4.0
MAY 19...	.36	.8	10	20	<4	<4	<20	<20	<1.0	<1.0	10	10	<4.0
JUL 21...	.32	.6	<10	<10	<4	<4	<20	30	<1.0	<1.0	10	10	<4.0

Date	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover -able, µg/L (01092)
OCT 2004 20...	<4.0	5.7	6.2
NOV 08...	<4.0	<5.0	<5.0
DEC 14...	<4.0	7.0	7.1
JAN 2005 25...	<4.0	7.0	8.0
MAR 15...	<4.0	5.8	5.4
MAY 19...	<4.0	<5.0	<5.0
JUL 21...	<4.0	<5.0	<5.0

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01550000 LYCOMING CREEK NEAR TROUT RUN, PA--Continued

BIOLOGICAL DATA  
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using a D-Frame net with a mesh size of 500  $\mu$ m. Samples represent counts per 200 animal (approximate) subsamples.

Date	11/05/03
Benthic macroinvertebrate	Count
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Lumbriculida	
Lumbriculidae	12
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	2
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<i>Acentrella</i>	2
<i>Baetis</i>	2
Ephemerellidae	
<i>Ephemerella</i>	33
<i>Eurylophella</i>	2
Heptageniidae	
<i>Epeorus</i>	39
<i>Leucrocuta</i>	8
<i>Rhithrogena</i>	4
<i>Stenonema</i>	19
Isonychiidae	
<i>Isonychia</i>	12
Leptophlebiidae	
<i>Paraleptophlebia</i>	31
Plecoptera (STONEFLIES)	
Chloroperlidae	
<i>Alloperla</i>	1
Perlidae	
<i>Acroneuria</i>	2
Perlodidae	
<i>Isoperla</i>	9
Taeniopterygidae	
<i>Taenionema</i>	1
<i>Taeniopteryx</i>	2
Trichoptera (CADDISFLIES)	
Apataniidae	
<i>Apatania</i>	6
Brachycentridae	
<i>Brachycentrus</i>	1
Glossosomatidae	
<i>Glossosoma</i>	2
Hydropsychidae	
<i>Cheumatopsyche</i>	3
<i>Hydropsyche</i>	6
Leptoceridae	
<i>Setodes</i>	1
Philopotamidae	
<i>Dolophilodes</i>	3
Rhyacophilidae	
<i>Rhyacophila</i>	17
Uenoidae	
<i>Neophylax</i>	5

## WEST BRANCH SUSQUEHANNA RIVER BASIN

01550000 LYCOMING CREEK NEAR TROUT RUN, PA--Continued

BIOLOGICAL DATA  
BENTHIC MACROINVERTEBRATES--Continued

Date	11/05/03
Benthic macroinvertebrate	Count
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Dubiraphia</i>	1
<i>Optioservus</i>	2
<i>Oulimnius</i>	1
Psephenidae (WATER PENNIES)	
<i>Psephenus</i>	3
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	17
Empididae (DANCE FLIES)	
<i>Chelifera</i>	1
Tipulidae (CRANE FLIES)	
<i>Antocha</i>	1
<i>Hexatoma</i>	1
Total Organisms	252
Total Taxa	34