



2005 Water Year  
WEST BRANCH SUSQUEHANNA RIVER BASIN  
01541500 Clearfield Creek at Dimeling, PA

Latitude: 40° 58 ' 18"

Longitude: 078° 24 ' 22"

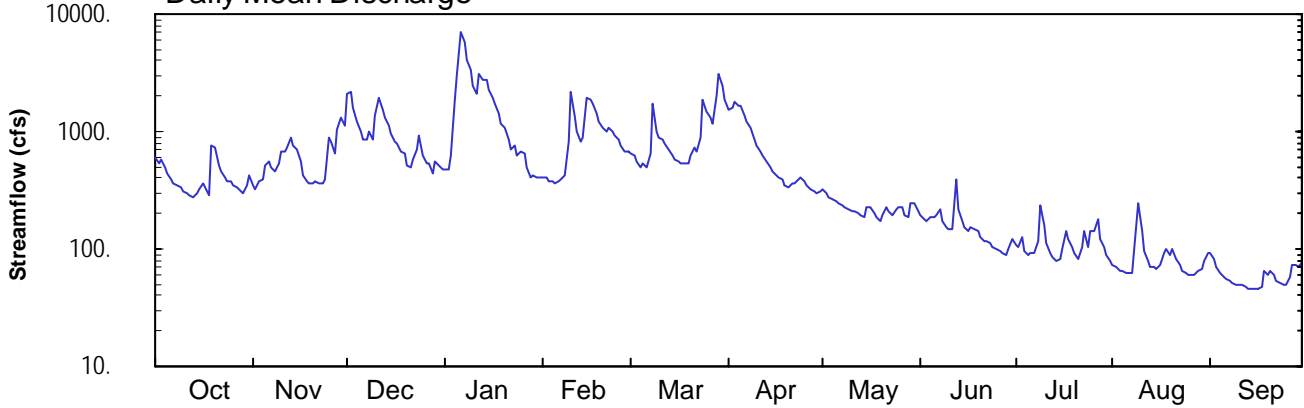
Hydrologic Unit Code: 02050201

Clearfield County

Datum: 1146.08 feet

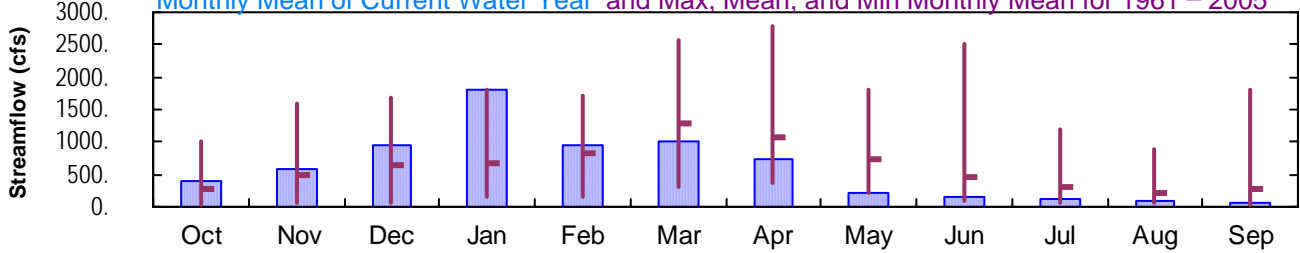
Drainage Area: 371. mi<sup>2</sup>

### Daily Mean Discharge

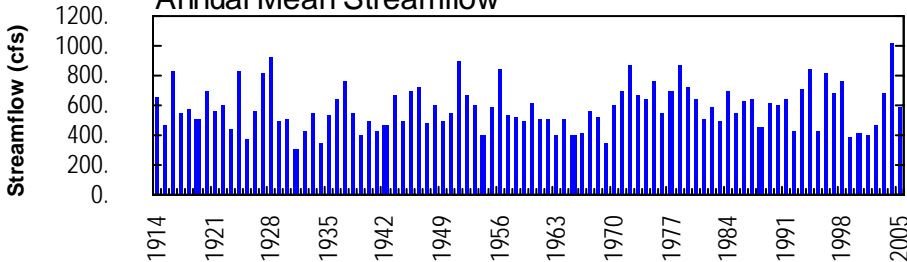


### Monthly Statistics

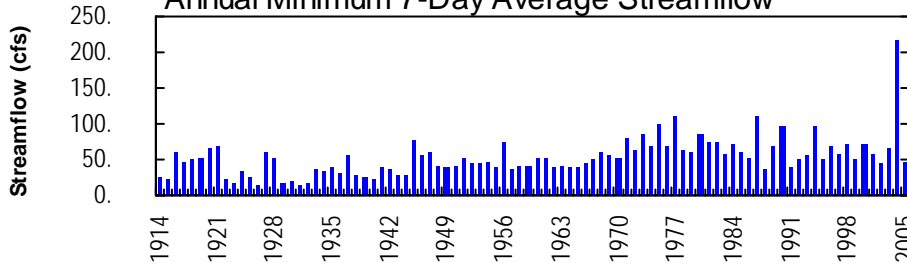
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1961 – 2005



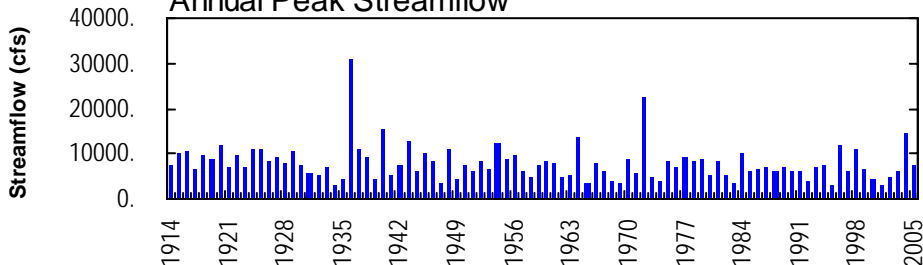
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



## WEST BRANCH SUSQUEHANNA RIVER BASIN

01541500 CLEARFIELD CREEK AT DIMELING, PA  
(Pennsylvania Water-Quality Network Station)

**LOCATION.**--Lat 40°58'18", long 78°24'22", Clearfield County, Hydrologic Unit 02050201, on right bank at downstream side of highway bridge on SR 2024 at Dimeling, 600 ft downstream from Little Clearfield Creek, and 4.0 mi southeast of Clearfield.

**DRAINAGE AREA.**--371 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--October 1913 to current year.

**REVISED RECORDS.**--WSP 756: Drainage area. WSP 891: 1936-39. WSP 1302: 1915-17, 1918-19(M). WSP 1502: 1939. WDR PA-87-2: 1986(M).

**GAGE.**--Water-stage recorder. Datum of gage is 1,146.08 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 17, 1928, nonrecording gage, and Oct. 17, 1928, to Oct. 25, 1967, water-stage recorder at site 200 ft upstream at same datum.

**REMARKS.**--Records fair except those for estimated daily discharges, which are poor. Flow regulated since December 1960 by Glendale Dam (station 01541340) about 25 mi upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

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	602	347	2140	e470	e400	655	1550	324	193	110	e73	93
2	537	325	2220	e480	e400	617	1590	301	176	104	e69	84
3	575	373	1590	e620	380	e550	1830	278	176	127	e66	e70
4	501	392	1200	e1900	e370	e500	1680	265	188	97	e64	e63
5	438	517	986	e3000	e360	e530	1640	253	184	89	e63	e58
6	395	561	855	e7000	382	e500	1350	242	194	92	e62	e55
7	370	489	857	e5800	395	e650	1200	235	220	91	e64	e53
8	350	450	1000	4030	e430	e1700	1070	231	174	118	e100	e52
9	331	545	853	3330	828	e1000	869	221	155	232	e250	e50
10	315	674	1370	2460	2220	883	757	213	147	160	142	e50
11	299	682	1940	2140	1340	860	684	206	149	112	96	e49
12	284	738	1560	3050	999	785	622	199	385	93	e79	e47
13	274	879	1330	2780	832	707	553	191	221	85	e72	e46
14	298	752	1130	2740	879	632	500	189	173	80	e69	e46
15	317	701	946	e2300	1920	581	463	230	151	82	e68	e45
16	358	567	827	1930	1870	553	425	225	145	100	e74	e45
17	331	420	782	1720	1750	530	400	199	151	142	e92	e48
18	292	379	687	1440	e1400	538	385	184	147	123	99	e65
19	760	359	644	1180	e1200	537	355	173	142	103	90	e59
20	718	364	511	1070	e1100	624	337	197	127	92	101	e64
21	521	379	493	865	e1000	745	357	231	118	82	e83	e61
22	450	361	590	700	1090	681	356	211	118	103	e72	e54
23	408	358	709	749	1010	882	387	196	112	144	e66	e52
24	384	393	914	630	910	1900	404	222	105	103	e63	e50
25	372	880	615	686	839	1490	372	228	99	142	e61	e50
26	355	811	543	639	752	1310	352	223	97	141	e61	e58
27	333	651	534	495	668	1160	328	193	93	180	e61	e74
28	314	1040	440	403	670	2010	307	187	89	122	e65	e73
29	302	1310	561	e420	---	3070	299	250	101	103	e69	e71
30	355	1130	515	e410	---	2440	309	246	123	90	e80	e78
31	416	---	471	e400	---	1880	---	211	---	78	93	---
TOTAL	12555	17827	29813	55837	26394	31500	21731	6954	4653	3520	2567	1763
MEAN	405	594	962	1801	943	1016	724	224	155	114	82.8	58.8
MAX	760	1310	2220	7000	2220	3070	1830	324	385	232	250	93
MIN	274	325	440	400	360	500	299	173	89	78	61	45

e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01541500 CLEARFIELD CREEK AT DIMELING, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	271	483	629	668	818	1274	1072	725	446	292	215	279
MAX (WY)	1024	1603	1693	1801	1708	2578	2786	1800	2522	1189	895	1801
MIN (WY)	41.1	73.3	68.4	139	154	318	378	224	90.3	46.1	55.3	43.4
(WY)	1964	1965	1961	1961	1963	1969	1968	2005	1965	1965	1965	1964

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1961 - 2005	
ANNUAL TOTAL	347710		215114			
ANNUAL MEAN	950		589		596	
HIGHEST ANNUAL MEAN					1016	
LOWEST ANNUAL MEAN					350	
HIGHEST DAILY MEAN	12600	Sep 18	e7000	Jan 6	21100	Jun 23 1972
LOWEST DAILY MEAN	162	Jul 11	e45	Sep 15,16	30	Aug 17 1988
ANNUAL SEVEN-DAY MINIMUM	218	Jun 28	a47	Sep 11	37	Aug 12 1988
MAXIMUM PEAK FLOW			b7500	Jan 6	c22400	Jun 23 1972
MAXIMUM PEAK STAGE			b10.60	Jan 6	17.56	Jun 23 1972
10 PERCENT EXCEEDS	1910		1420		1350	
50 PERCENT EXCEEDS	550		361		337	
90 PERCENT EXCEEDS	293		69		83	

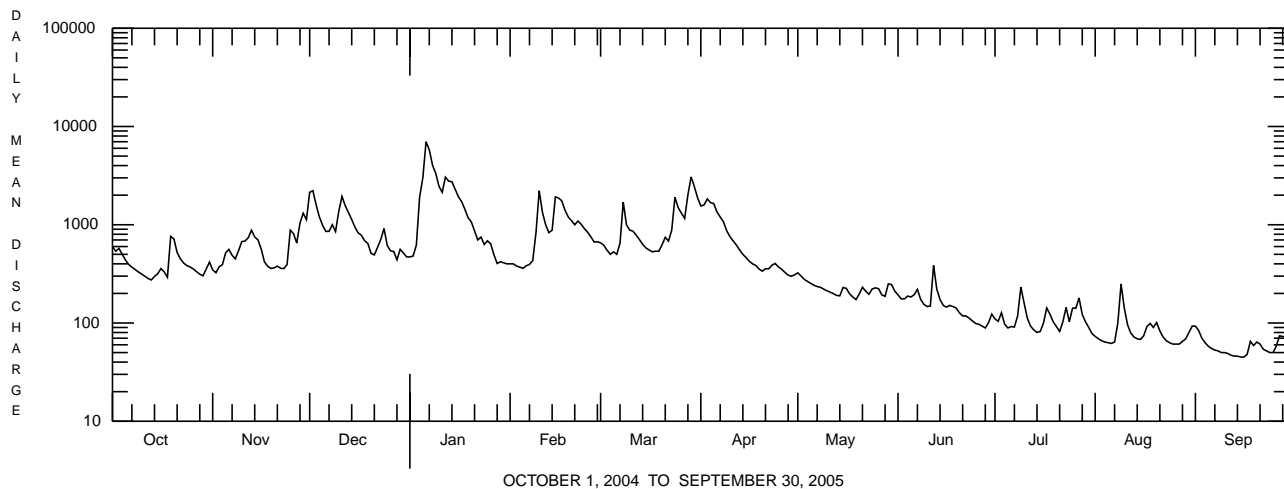
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1960, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	253	386	557	764	789	1284	1059	781	457	241	194	152
MAX (WY)	876	1355	1533	2152	1996	4153	2470	1656	1931	1233	901	1370
MIN (WY)	1928	1922	1924	1937	1915	1936	1940	1960	1946	1956	1956	1926
(WY)	16.9	26.0	55.1	34.3	103	390	245	121	102	68.7	24.9	22.3
(WY)	1931	1931	1931	1931	1934	1915	1925	1926	1949	1936	1930	1932

SUMMARY STATISTICS WATER YEARS 1914 - 1960

ANNUAL MEAN	576	
HIGHEST ANNUAL MEAN	921	1928
LOWEST ANNUAL MEAN	309	1931
HIGHEST DAILY MEAN	27100	Mar 18 1936
LOWEST DAILY MEAN	7.1	Oct 1 1925
ANNUAL SEVEN-DAY MINIMUM	13	Oct 4 1925
MAXIMUM PEAK FLOW	c30600	Mar 18 1936
MAXIMUM PEAK STAGE	d18.49	Mar 18 1936
INSTANTANEOUS LOW FLOW	6.0	Oct 1,9 1925
ANNUAL RUNOFF (CFSM)	1.55	
ANNUAL RUNOFF (INCHES)	21.08	
10 PERCENT EXCEEDS	1380	
50 PERCENT EXCEEDS	278	
90 PERCENT EXCEEDS	54	

- a Computed using estimated daily discharges.
- b About.
- c From rating curve extended above 15,000 ft<sup>3</sup>/s.
- d From floodmark in gage.
- e Estimated.



OCTOBER 1, 2004 TO SEPTEMBER 30, 2005

## WEST BRANCH SUSQUEHANNA RIVER BASIN

01541500 CLEARFIELD CREEK AT DIMELING, PA--Continued  
(Pennsylvania Water-Quality Network Station)

## WATER-QUALITY RECORDS

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

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 unfltrd recoverable, mg/L (00916)
NOV 2004 17...	1210	1028	9813	406	30	12.6	7.0	6.6	360	358	5.8	160	35.4
JAN 2005 04...	1430	1028	9813	E1900	30	11.5	6.8	7.2	339	335	6.0	140	37.7
MAR 22...	0845	1028	9813	690	30	11.6	7.3	6.7	394	391	3.4	170	38.5
MAY 19...	1215	1028	9813	173	30	9.2	7.6	7.4	643	651	15.6	310	69.4
JUL 05...	1630	1028	9813	86	30	7.8	7.5	7.5	723	719	26.2	360	81.7
SEP 13...	1245	1028	9813	E46	30	8.4	7.4	7.3	923	967	20.9	500	110

Date	Magnesium, water, unfltrd recoverable, mg/L (00927)	ANC, wat fixed end pt, lab, mg/L as CaCO3 (00417)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, unfltrd as N mg/L (00610)	Nitrate water, unfltrd as N mg/L (00620)	Nitrite water, unfltrd as N mg/L (00615)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recoverable, $\mu$ g/L (01105)
NOV 2004 17...	16.4	19	131	294	<2	.070	.28	<.040	<.01	<.010	.56	1.8	500
JAN 2005 04...	14.7	18	125	202	56	.060	.50	<.040	<.01	.032	.82	2.5	1900
MAR 22...	18.6	12	152	194	10	.040	.61	<.040	<.01	.015	.92	1.3	1000
MAY 19...	33.2	22	309	528	6	<.020	.19	<.040	<.01	<.010	.20	--	260
JUL 05...	37.7	17	361	640	<2	<.020	.19	<.040	<.01	.011	.23	--	<200
SEP 13...	53.4	10	515	730	<2	.030	.12	<.040	<.01	<.010	.13	--	<200

Date	Copper, water, unfltrd recoverable, $\mu$ g/L (01042)	Iron, water, unfltrd recoverable, $\mu$ g/L (01045)	Lead, water, unfltrd recoverable, $\mu$ g/L (01051)	Manganese, water, unfltrd recoverable, $\mu$ g/L (01055)	Nickel, water, unfltrd recoverable, $\mu$ g/L (01067)	Zinc, water, unfltrd recoverable, $\mu$ g/L (01092)
NOV 2004 17...	<10	1830	<1.0	1750	<50	50
JAN 2005 04...	<10	4750	1.5	1480	<50	70
MAR 22...	<10	2260	<1.0	1980	<50	80
MAY 19...	<10	660	<1.0	2450	60	50
JUL 05...	<10	280	<1.0	2530	<50	40
SEP 13...	<10	160	<1.0	2430	50	40

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01541500 CLEARFIELD CREEK AT DIMELING, PA--Continued

BIOLOGICAL DATA  
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using a D-Frame net with a mesh size of 500 µm. Samples represent counts per 100 animal (approximate) subsamples.

Date	10/21/04
Benthic macroinvertebrate	Count
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	35
Entognatha	
Collembola (SPRINGTAILS)	
Isotomidae	
<i>Isotomurus</i>	2
Insecta	
Ephemeroptera (MAYFLIES)	
Heptageniidae	
<i>Stenonema</i>	2
Plecoptera (STONEFLIES)	
Taeniopterygidae	
<i>Taeniopteryx</i>	1
Hemiptera	
Mesoveliidae	
<i>Mesovelia</i>	1
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<i>Hydropsyche</i>	41
Hydroptilidae	
<i>Leucotrichia</i>	1
Leptoceridae	
<i>Oecetis</i>	1
Psychomyiidae	
<i>Psychomyia</i>	1
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Optioservus</i>	2
Diptera (TRUE FLIES)	
Empididae (DANCE FLIES)	
<i>Hemerodromia</i>	9
Tipulidae (CRANE FLIES)	
<i>Antocha</i>	1
Total Organisms	97
Total Taxa	12