

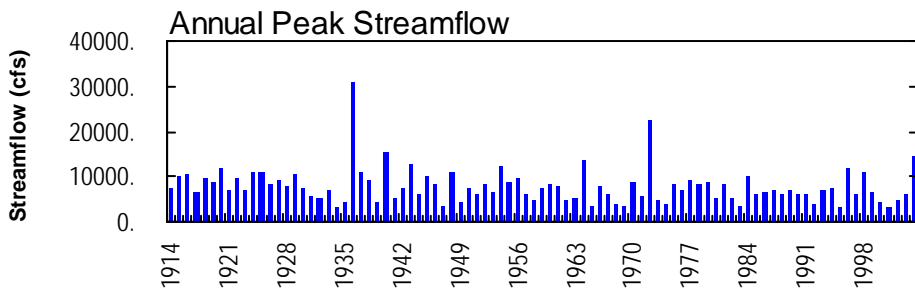
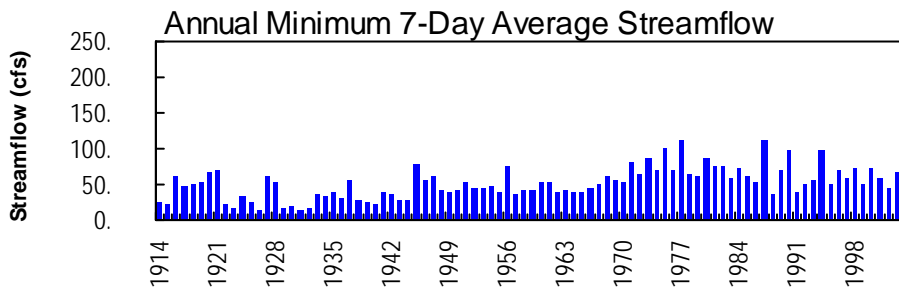
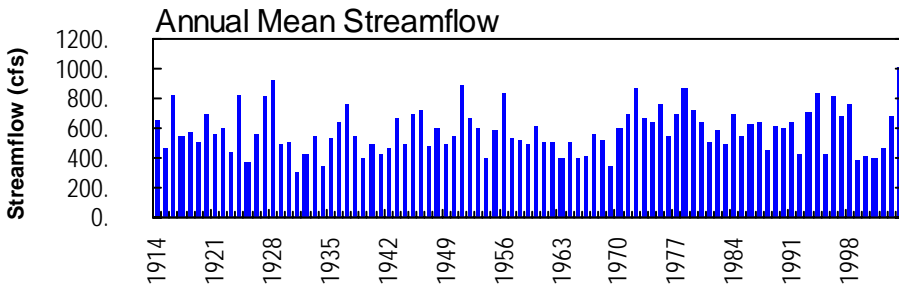
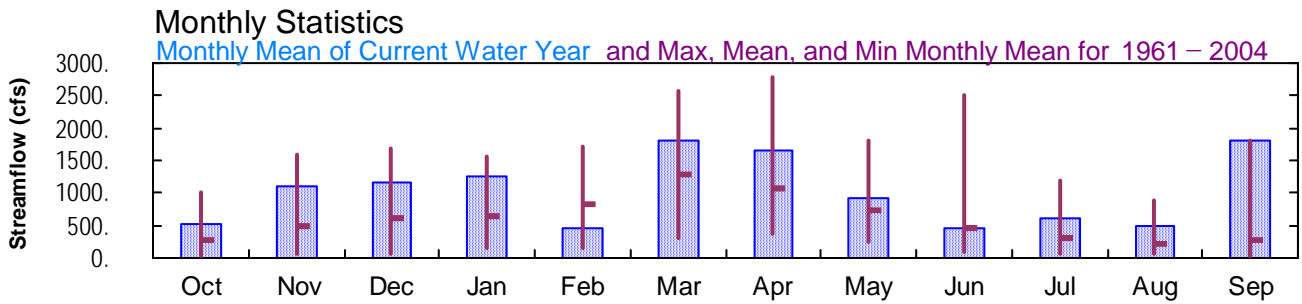
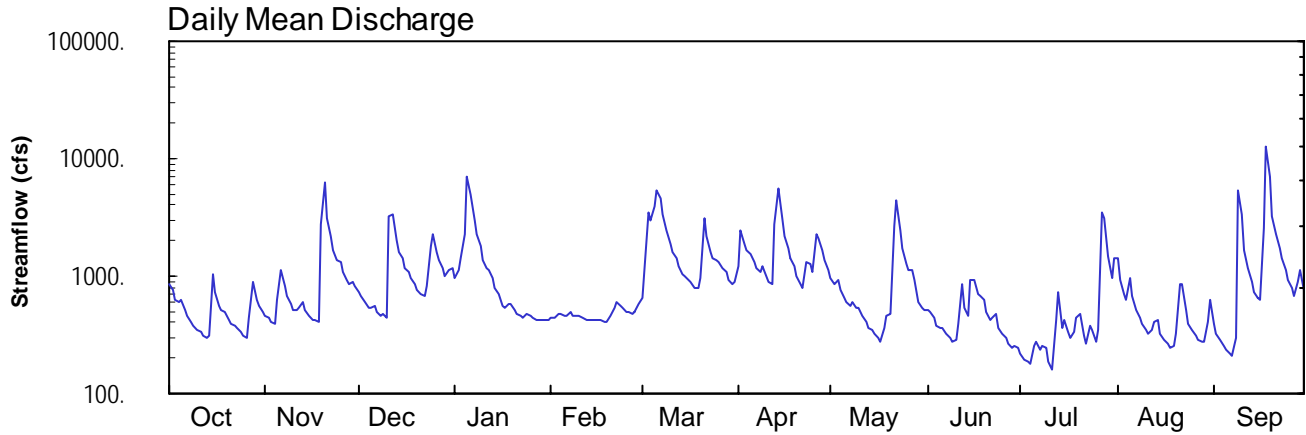


2004 Water Year  
WEST BRANCH SUSQUEHANNA RIVER BASIN  
**01541500 Clearfield Creek at Dimeling, PA**

Latitude: 40° 58' 18"  
Clearfield County

Longitude: 078° 24' 22"  
Datum: 1146.08 feet

Hydrologic Unit Code: 02050201  
Drainage Area: 371. mi<sup>2</sup>



**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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	865	461	746	965	e440	e650	1230	955	519	216	1440	399
2	754	434	683	1110	e440	e1200	2500	864	493	197	911	320
3	636	410	596	1410	e470	3440	1880	927	433	186	691	282
4	601	388	543	2280	e470	3000	1680	749	374	178	620	258
5	627	626	e540	6920	e460	3840	1530	651	358	258	948	237
6	524	1120	e560	5010	e450	5440	1300	596	358	280	676	219
7	455	809	497	3010	e490	4630	1170	550	326	237	522	209
8	407	677	465	2260	e460	3290	1080	596	299	251	449	299
9	377	583	475	1820	e450	2430	1230	527	281	248	391	5430
10	354	525	449	1390	e450	1900	1010	531	282	183	349	3320
11	332	506	3270	1170	e440	1580	894	454	399	162	324	1680
12	311	536	3340	1140	e430	1420	863	401	844	428	346	1190
13	296	596	2020	971	e420	1230	2790	368	532	733	404	898
14	311	519	1600	e800	e420	1050	5530	343	465	366	423	721
15	1060	458	1400	e700	e420	994	3130	325	942	418	323	653
16	736	429	1180	e550	e420	914	2220	300	923	337	283	618
17	553	420	1080	e540	e420	876	1740	279	692	293	262	2510
18	515	403	970	e580	e410	806	1430	364	685	330	245	12600
19	498	2710	861	e570	e400	805	1210	465	636	443	256	7170
20	431	6180	773	e520	e450	960	1020	483	491	467	326	3240
21	395	3100	700	e470	e540	3100	870	2650	421	308	861	2300
22	375	2150	677	e450	e600	2190	797	4390	444	261	870	1750
23	364	1650	828	e440	e560	1630	1310	2500	473	377	508	1400
24	340	1390	1830	e470	e540	1420	1260	1700	365	349	399	1140
25	316	1320	2250	e460	e500	1360	1090	1260	320	276	350	940
26	303	1070	1620	e440	e500	1300	2240	1140	293	355	308	795
27	441	932	1350	e420	e470	1190	2130	1130	266	3440	284	686
28	889	868	1160	e420	e500	1070	1660	916	248	3130	273	897
29	638	903	995	e420	e585	925	1360	614	253	1480	276	1110
30	564	809	1140	e420	---	841	1120	544	245	980	401	756
31	501	---	1170	e430	---	888	---	508	---	1430	628	---
TOTAL	15769	32982	35768	38556	13605	56369	49274	28080	13660	18597	15347	54027
MEAN	509	1099	1154	1244	469	1818	1642	906	455	600	495	1801
MAX	1060	6180	3340	6920	600	5440	5530	4390	942	3440	1440	12600
MIN	296	388	449	420	400	650	797	279	245	162	245	209

e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01541500 CLEARFIELD CREEK AT DIMELING, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	268	480	621	642	815	1280	1080	736	452	296	218	284
MAX	1024	1603	1693	1549	1708	2578	2786	1800	2522	1189	895	1801
(WY)	1980	1998	1973	1996	1976	1979	1993	1978	1972	1977	2003	2004
MIN	41.1	73.3	68.4	139	154	318	378	248	90.3	46.1	55.3	43.4
(WY)	1964	1965	1961	1961	1963	1969	1968	1976	1965	1965	1965	1964

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1961 - 2004

ANNUAL TOTAL		303139		372034								
ANNUAL MEAN		831		1016					596			
HIGHEST ANNUAL MEAN									1016			2004
LOWEST ANNUAL MEAN									350			1969
HIGHEST DAILY MEAN				6180	Nov 20		12600	Sep 18	21100		Jun 23	1972
LOWEST DAILY MEAN				e170	Aug 25		162	Jul 11	30		Aug 17	1988
ANNUAL SEVEN-DAY MINIMUM				a211	Feb 13		218	Jun 28	37		Aug 12	1988
MAXIMUM PEAK FLOW							14700	Sep 18	b22400		Jun 23	1972
MAXIMUM PEAK STAGE							14.35	Sep 18	17.56		Jun 23	1972
10 PERCENT EXCEEDS				1680			2230		1340			
50 PERCENT EXCEEDS				600			596		337			
90 PERCENT EXCEEDS				248			299		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	876	1355	1533	2152	1996	4153	2470	1656	1931	1233	901	1370
(WY)	1928	1922	1924	1937	1915	1936	1940	1960	1946	1956	1956	1926
MIN	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		b30600				Mar 18		1936				
MAXIMUM PEAK STAGE		c18.49				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 From rating curve extended above 15,000 ft<sup>3</sup>/s.
- c From floodmark in gage.
- e Estimated.

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 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (90095)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, unfltrd recover-able, mg/L (00927)
OCT 2003 23...	1245	1028	9813	363	11.5	7.0	6.5	500	471	8.4	230	49.9	25.0
DEC 22...	1115	1028	9813	724	13.6	7.1	6.8	458	449	1.2	220	50.1	23.7
APR 2004 26...	1320	1028	9813	2490	10.6	6.7	6.9	315	313	10.9	140	31.6	15.0
JUN 22...	1215	1028	9813	434	9.0	7.1	7.2	433	431	19.0	190	43.5	19.8
AUG 16...	1245	1028	9813	297	10.2	7.4	6.7	523	504	19.5	240	53.6	25.6

Date	ANC, wat unfltrd 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 as P mg/L (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recover-able, µg/L (01105)	Copper, water, unfltrd recover-able, µg/L (01042)
OCT 2003 23...	18	214	474	12	.030	.28	<.040	<.01	<.010	.44	1.5	600	<10
DEC 22...	17	187	400	8	.030	.53	<.040	<.01	<.010	.36	1.2	1200	<10
APR 2004 26...	12	116	228	46	<.020	.43	<.040	<.01	.030	.73	2.4	2200	<10
JUN 22...	24	167	352	4	<.020	.54	<.040	<.01	.012	.59	1.6	300	<10
AUG 16...	25	201	444	12	<.020	.35	<.040	<.01	<.010	.46	1.7	500	<10

Date	Iron, water, unfltrd recover-able, µg/L (01045)	Lead, water, unfltrd recover-able, µg/L (01051)	Manganese, water, unfltrd recover-able, µg/L (01055)	Nickel, water, unfltrd recover-able, µg/L (01067)	Zinc, water, unfltrd recover-able, µg/L (01092)
OCT 2003 23...	1830	<1.0	2450	50	80
DEC 22...	2830	<1.0	2140	60	90
APR 2004 26...	3670	1.3	1430	<50	80
JUN 22...	910	<1.0	1620	<50	40
AUG 16...	1430	<1.0	2130	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	10/23/03
Benthic Macroinvertebrate	Count
Nemertea (PROBOSCIS WORMS)	
Enopla	
Hoplonemertea	
Tetrastemmatidae	
<i>Prostoma</i>	1
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Ancylidae	
<i>Ferrissia</i>	2
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	14
Insecta	
Ephemeroptera (MAYFLIES)	
Leptophlebiidae	
<i>Paraleptophlebia</i>	1
Plecoptera (STONEFLIES)	
Taeniopterygidae	
<i>Taeniopteryx</i>	2
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<i>Hydropsyche sp</i>	34
Lepidoptera (MOTHS AND BUTTERFLIES)	
Pyralidae	1
Diptera (TRUE FLIES)	1
Ceratopogonidae (BITING MIDGES)	
<i>Probezzia</i>	4
Chironomidae (MIDGES)	4
Empididae (DANCE FLIES)	
<i>Hemerodromia</i>	4
Total Organisms	68
Total Taxa	11