

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 mi².

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 good 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. Landward wall of gage well collapsed July 28; gage out of operation July 28 to Sept. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	302	330	1870	e240	e420	632	301	942	264	e1700	e2000
2	76	273	302	5910	e250	e400	897	286	858	246	e1100	e2800
3	69	227	e240	3200	e270	e390	832	271	689	229	e1000	e3200
4	73	197	e170	2030	e320	e380	729	255	1550	219	e1900	e3000
5	74	180	e240	1490	e340	e500	2530	262	1590	207	e1500	e1900
6	74	241	e220	1210	e300	e690	2500	324	1260	200	e1100	e1400
7	70	325	e210	1070	e270	e650	1670	307	1170	251	e760	e1000
8	64	289	e200	1030	e250	e600	1430	399	1420	285	e720	e840
9	59	255	e190	1030	e240	e1000	1310	554	1180	221	e1000	e600
10	57	225	e180	1120	e230	1360	1170	704	984	216	e2600	e510
11	62	222	e180	939	e230	934	1330	973	798	500	e1100	e440
12	94	259	e180	794	e220	e750	1600	803	810	420	e850	e380
13	174	369	e200	723	e220	e1200	1280	729	886	262	e580	e360
14	132	481	e360	e660	e220	2290	1080	697	773	218	e500	e340
15	101	457	e520	e640	e210	1920	931	590	659	193	e440	e370
16	99	488	e480	e590	e210	2370	835	652	552	221	e400	e400
17	157	846	e440	e500	e200	3090	748	933	481	203	e370	e340
18	203	1090	e420	e400	e210	3220	667	745	735	214	e330	e300
19	151	854	e410	e380	e210	2830	606	824	926	355	e280	604
20	135	773	e850	e360	e220	2610	558	691	651	236	e250	1500
21	122	653	1660	e330	e240	3120	516	798	668	192	e230	705
22	107	604	1060	e270	e280	2500	514	812	804	474	e210	557
23	96	593	876	e270	e580	1920	497	660	645	547	e190	1110
24	91	554	752	e260	e630	1510	437	730	529	364	e180	941
25	84	524	672	e260	e500	1230	397	750	455	297	e170	710
26	237	507	608	e250	e420	1040	385	745	400	253	e490	702
27	268	437	527	e250	e390	896	388	751	362	260	e1400	616
28	195	368	465	e240	e370	759	357	715	331	e500	e550	1760
29	153	348	459	e250	---	683	340	634	301	e400	e440	1590
30	174	333	421	e250	---	685	321	556	280	e280	e2900	1070
31	300	---	439	e240	---	658	---	600	---	e190	e2500	---
TOTAL	3839	13274	14261	28816	8270	42605	27487	19051	23689	8917	27740	32045
MEAN	124	442	460	930	295	1374	916	615	790	288	895	1068
MAX	300	1090	1660	5910	630	3220	2530	973	1590	547	2900	3200
MIN	57	180	170	240	200	380	321	255	280	190	170	300

e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01541500 CLEARFIELD CREEK AT DIMELING, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	263	466	609	628	824	1267	1067	732	452	289	212	249
MAX	1024	1603	1693	1549	1708	2578	2786	1800	2522	1189	895	1393
(WY)	1980	1998	1973	1996	1976	1979	1993	1978	1972	1977	2003	1996
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 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1961 - 2003

ANNUAL TOTAL	184689	249994	
ANNUAL MEAN	506	685	587
HIGHEST ANNUAL MEAN			866 1972, 1978
LOWEST ANNUAL MEAN			350 1969
HIGHEST DAILY MEAN	4480	Mar 27	5910 Jan 2 21100 Jun 23 1972
LOWEST DAILY MEAN	42	Sep 14	57 Oct 10 30 Aug 17 1988
ANNUAL SEVEN-DAY MINIMUM	46	Sep 8	66 Oct 5 37 Aug 12 1988
MAXIMUM PEAK FLOW			6260 Jan 2 a22400 Jun 23 1972
MAXIMUM PEAK STAGE			9.82 Jan 2 17.56 Jun 23 1972
10 PERCENT EXCEEDS	1130	1490	1330
50 PERCENT EXCEEDS	330	480	330
90 PERCENT EXCEEDS	65	191	82

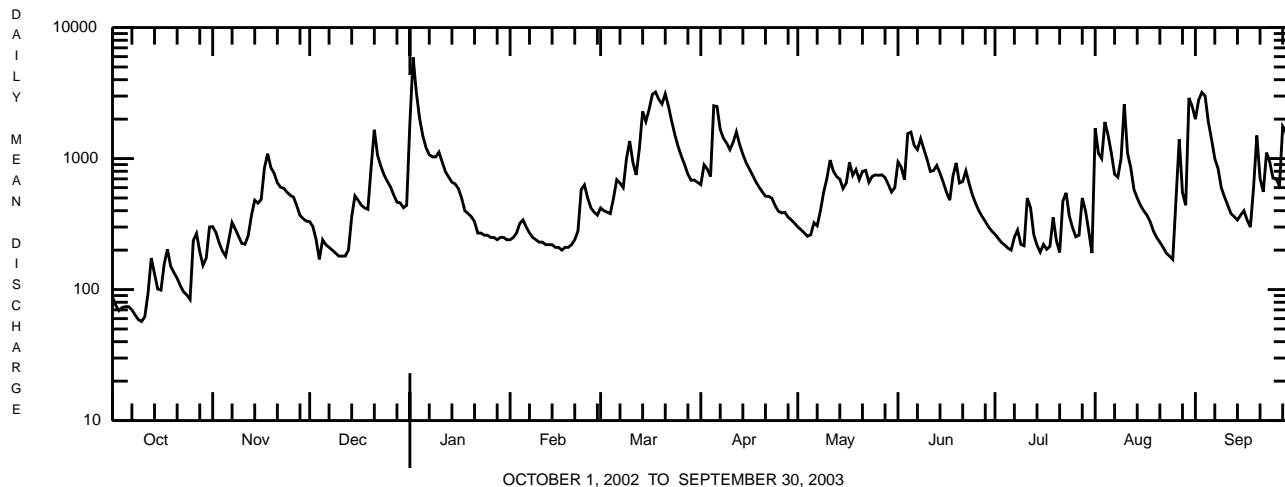
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1960, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	a30600 Mar 18 1936
MAXIMUM PEAK STAGE	b18.49 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 From rating curve extended above 15,000 ft³/s.
- b From floodmark in gage.



OCTOBER 1, 2002 TO SEPTEMBER 30, 2003

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.

REMARKS.--Other data for the Water-Quality Network can be found on pages 368-434.

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 2002 TO SEPTEMBER 2003

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)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water unfltrd recover mg/L (00916)	Magnesium, water, unfltrd recover mg/L (00927)	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)
NOV 2002	12...	1028	9813	274	30	12.0	7.3	518	8.2	230	59.0	20.4	20
JAN 2003	21...	1028	9813	E330	30	11.6	6.8	565	.0	230	51.4	23.8	20
MAR	19...	1028	9813	2960	30	11.6	6.8	239	6.5	100	23.6	10.5	7
MAY	27...	1028	9813	776	30	10.7	7.4	357	13.9	150	34.4	16.5	13
JUL	23...	1028	9813	624	30	9.1	7.3	503	19.6	210	49.0	21.5	15
SEP	29...	1028	9813	1520	30	9.9	7.3	270	13.0	104	24.0	10.6	16

Date	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 mg/L as N (00610)	Nitrate water, unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (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 recover mg/L (01105)	Copper, water, unfltrd recover mg/L (01042)	Iron, water, unfltrd recover mg/L (01045)
NOV 2002	213	434	14	.050	.58	<.040	<.01	<.010	.98	1.8	500	<10	2360
JAN 2003	204	400	10	.090	.85	<.040	<.01	<.010	1.0	1.2	400	<10	2060
MAR	83.5	160	34	<.020	.71	<.040	<.01	.022	.85	1.9	1600	<10	2890
MAY	139	296	2	<.020	.40	<.040	<.01	.013	.44	1.4	700	<10	1570
JUL	206	446	30	<.020	.29	<.040	.01	.018	.42	2.4	1200	<10	3220
SEP	91.3	222	34	<.020	.41	<.040	.03	.030	.90	3.9	--	<10	2537

Date	Lead, water, unfltrd recover mg/L (01051)	Manganese, water, unfltrd recover mg/L (01055)	Nickel, water, unfltrd recover mg/L (01067)	Zinc, water, unfltrd recover mg/L (01092)
NOV 2002	<1.0	2060	<50	50
JAN 2003	<1.0	2310	64	110
MAR	1.1	1050	<50	80
MAY	<1.0	1670	50	80
JUL	<1.0	2340	67	80
SEP	1.2	1085	<50	151

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01541500 CLEARFIELD CREEK AT DIMELING, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using rapid bioassessment protocols for benthic macroinvertebrates using a D-Frame net with a mesh size of 500 μm .
Samples represent counts per 100 (approximate) subsamples.

Date	8/27/02
Benthic Macroinvertebrate	Count
Insecta	
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<u>Hydropsyche</u> sp	1
<u>Macrostemum</u> sp	2
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<u>Optioservus</u> sp	1
Hymenoptera	
	2
Total Organisms	6