

WEST BRANCH SUSQUEHANNA RIVER BASIN

01545000 KETTLE CREEK NEAR WESTPORT, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 41°19'10", long 77°52'27", Clinton County, Hydrologic Unit 02050203, on left bank on SR 4001, 0.4 mi upstream from Short Bond Run, 3.5 mi upstream from mouth and Westport, and 5.0 mi downstream from Alvin R. Bush Dam (Kettle Creek Lake).

DRAINAGE AREA.--233 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 728.24 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 14, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since February 1962 by Alvin R. Bush Dam (station 01544800). Several measurements of water temperature were made during the year. Satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	163	1230	e190	840	208	860	1020	205	111	37	7.3
2	172	155	1250	e170	1090	207	731	1060	178	106	30	7.1
3	142	159	934	e180	1060	241	609	1070	191	87	21	7.0
4	121	150	714	e170	937	300	482	1020	154	87	20	6.9
5	115	136	568	191	682	324	411	834	168	78	25	6.0
6	105	123	473	166	549	355	392	665	367	64	29	5.9
7	93	118	388	160	476	361	362	565	660	64	20	5.6
8	85	113	343	141	400	326	334	471	589	59	15	5.6
9	78	108	335	e130	351	308	305	484	465	52	13	5.6
10	65	108	275	152	314	313	303	496	392	63	12	5.6
11	65	103	241	152	556	265	273	482	324	60	13	5.5
12	68	98	233	133	677	246	274	757	279	47	13	5.4
13	64	93	229	118	740	246	304	2640	239	38	8.2	5.4
14	58	88	272	e120	627	231	390	3660	301	38	8.1	4.4
15	112	88	449	128	541	220	1050	3440	914	38	8.1	5.7
16	115	88	634	109	494	226	1190	1930	1620	38	8.3	102
17	119	79	778	103	440	209	958	1290	1250	35	9.4	95
18	122	75	1420	107	359	201	748	1180	828	33	9.4	31
19	116	81	1680	e110	311	211	649	1310	628	33	9.2	15
20	113	81	1330	e100	297	232	527	1280	476	32	9.3	18
21	116	81	962	115	304	357	494	1040	378	31	8.8	23
22	123	80	691	113	278	456	397	784	309	29	6.9	29
23	118	71	598	120	232	460	350	629	272	24	9.8	13
24	230	70	522	121	238	453	296	525	230	53	32	6.6
25	267	190	428	208	227	437	285	448	225	57	22	6.4
26	263	680	358	296	238	659	287	353	185	41	13	15
27	264	681	324	336	250	2170	237	301	164	36	11	94
28	237	567	305	349	224	1780	329	287	183	34	8.6	212
29	204	533	266	348	---	1430	1050	258	145	126	7.5	105
30	190	633	217	456	---	1150	1250	234	118	74	7.7	84
31	178	---	e210	587	---	961	---	252	---	45	7.4	---
TOTAL	4312	5793	18657	5879	13732	15543	16127	30765	12437	1713	452.7	938.0
MEAN	139.1	193.1	601.8	189.6	490.4	501.4	537.6	992.4	414.6	55.26	14.60	31.27
MAX	267	681	1680	587	1090	2170	1250	3660	1620	126	37	212
MIN	58	70	210	100	224	201	237	234	118	24	6.9	4.4

e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01545000 KETTLE CREEK NEAR WESTPORT, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	186.5	348.1	416.4	345.0	451.8	724.1	804.8	477.7	274.9	143.2	97.74	119.3
MAX	1096	1060	954	857	1330	1739	2453	992	1278	677	927	1058
(WY)	1991	1971	1973	1979	1981	1979	1993	2002	1972	1972	1994	1975
MIN	13.5	5.37	55.4	63.8	78.8	167	309	141	39.8	8.06	7.69	13.0
(WY)	1965	1965	1999	1981	1963	1968	1976	1999	1999	1962	1962	1991

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1962 - 2002
ANNUAL TOTAL	94311	126348.7	
ANNUAL MEAN	258	346	365
HIGHEST ANNUAL MEAN			575
LOWEST ANNUAL MEAN			203
HIGHEST DAILY MEAN	2120	Apr 10	7200
LOWEST DAILY MEAN	13	Aug 13-15	4.4
ANNUAL SEVEN-DAY MINIMUM	15	Aug 9	4.6
MAXIMUM PEAK FLOW		3860	7540
MAXIMUM PEAK STAGE		7.31	10.17
INSTANTANEOUS LOW FLOW			3.0
10 PERCENT EXCEEDS	651	882	866
50 PERCENT EXCEEDS	127	211	180
90 PERCENT EXCEEDS	45	13	29

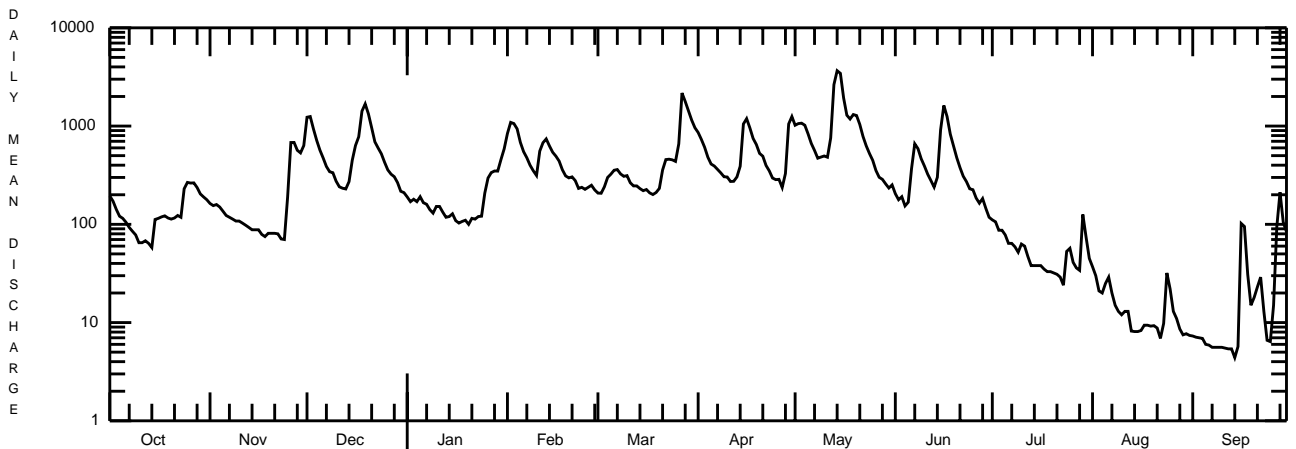
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1961, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	192	247	373	297	387	837	1066	541	204	131	120	72.8
MAX	709	647	708	564	713	1373	1496	1103	631	318	276	177
(WY)	1956	1960	1957	1959	1961	1955	1958	1960	1960	1958	1956	1958
MIN	23.7	41.3	27.0	27.6	127	394	411	151	63.9	25.1	16.9	24.3
(WY)	1958	1961	1961	1961	1958	1960	1955	1955	1955	1955	1957	1957

SUMMARY STATISTICS WATER YEARS 1955 - 1961

ANNUAL MEAN	372
HIGHEST ANNUAL MEAN	492
LOWEST ANNUAL MEAN	266
HIGHEST DAILY MEAN	5970
LOWEST DAILY MEAN	8.9
ANNUAL SEVEN-DAY MINIMUM	10
MAXIMUM PEAK FLOW	b7970
MAXIMUM PEAK STAGE	c13.31
INSTANTANEOUS LOW FLOW	8.9
ANNUAL RUNOFF (CFSM)	1.60
ANNUAL RUNOFF (INCHES)	21.69
10 PERCENT EXCEEDS	942
50 PERCENT EXCEEDS	160
90 PERCENT EXCEEDS	26

- a Also Nov. 6, 12, 1964, Sept. 14, 2002.
- b Gage height 10.48 ft.
- c Backwater from ice.



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002

WEST BRANCH SUSQUEHANNA RIVER BASIN

01545000 KETTLE CREEK NEAR WESTPORT, 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 306-334.

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 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS AS CACO3 (00900)	CALCIUM DIS-SOLVED AS CA (00915)	CALCIUM TOTAL RECOV-ERABLE AS CA (00916)	MAGNE-SIUM, DIS-SOLVED AS MG (00925)	MAGNE-SIUM, TOTAL RECOV-ERABLE AS MG (00927)
APR 2002	24...	9813	295	30	12.3	7.2	49	10.7	19	5.19	5.3	1.41	1.4
JUN	17...	9813	1240	30	11.1	7.5	44	13.3	17	4.85	4.9	1.23	1.3
AUG	13...	9813	8.1	30	10.0	8.7	94	27.2	35	9.62	9.6	2.57	2.6

Date	ACIDITY TOTAL HEATED (MG/L AS CAC03) (70508)	ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)	
APR 2002	24...	.0	10	10.8	46	<2	<.020	.22	<.040	.36	<.01	.015	.5	<4
JUN	17...	.0	10	8.7	56	<2	<.020	.28	<.040	.37	.02	.012	.9	<4
AUG	13...	.0	17	19.6	72	<2	<.020	<.04	<.040	.13	<.01	<.010	1.2	<4

Date	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, DIS-SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, DIS-SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	
APR 2002	24...	<4	20	160	<1.0	<1.0	40	40	<4.0	<4.0	<5.0	<5.0
JUN	17...	<4	30	170	<1.0	<1.0	20	40	<4.0	<4.0	<5.0	5.2
AUG	13...	<4	<20	30	<1.0	<1.0	8.1	10	<4.0	<4.0	<5.0	5.5