

TUNKHANNOCK CREEK BASIN

01534000 TUNKHANNOCK CREEK NEAR TUNKHANNOCK, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 41°33'30", long 75°53'42", Wyoming County, Hydrologic Unit 02050106, on left bank 300 ft upstream from bridge on U.S. Highway 6 at Dixon, 3.0 mi northeast of Tunkhannock, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--383 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1914 to current year. Prior to October 1965, published as "at Dixon".

REVISED RECORDS.--WSP 756: Drainage area. WSP 1051: 1921(M), 1932, 1934-35(M), 1936, 1938(M), 1939-40, 1942-44, 1945(M). WSP 1302: 1922, 1923(M), 1924-25, 1927-28. WSP 1432: 1919(M), 1920, 1933, 1934(P). WDR PA-85-2: 1954(P), 1955(M), 1956(P), 1957(M), 1958-64(P), 1967-71(P), 1977(M), 1978(P), 1981(M), 1982-84(P). WDR PA-96-2: 1947(M), 1986(M).

GAGE.--Water-stage recorder. Datum of gage is 610.10 ft above National Geodetic Vertical Datum of 1929 (Pennsylvania Department of Transportation bench mark). Prior to Aug. 10, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good except 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 5,700 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 27	0530	6,700	7.95	May 13	2345	*10,600	*9.94

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	166	73	260	e210	1670	267	956	1380	553	173	46	29
2	156	74	240	216	1710	257	822	1500	380	159	40	27
3	144	72	209	193	1120	363	737	1410	306	148	52	26
4	124	77	192	176	924	370	728	1020	262	136	56	40
5	110	104	181	162	e720	259	603	839	344	123	46	62
6	110	103	162	145	e600	264	548	704	1280	110	56	48
7	109	95	151	142	558	263	492	629	2450	101	51	34
8	84	85	142	199	519	254	450	560	1240	95	39	27
9	75	79	161	185	451	245	428	616	833	91	33	25
10	62	78	181	172	441	312	481	690	624	139	28	22
11	58	78	168	170	2440	281	411	518	494	116	25	21
12	57	74	167	172	1470	256	359	735	429	92	24	27
13	54	64	189	163	1170	259	347	4510	438	82	22	30
14	55	58	239	151	866	258	386	6660	613	75	20	28
15	70	58	347	151	793	245	1110	3190	1190	70	19	32
16	100	57	296	e150	737	405	851	1940	1530	64	19	44
17	98	57	317	e150	695	447	674	1500	1050	57	19	47
18	117	56	1590	e150	597	377	575	3200	753	53	19	42
19	104	58	1170	e130	497	369	507	2450	916	77	17	36
20	83	60	838	e130	424	444	471	1660	616	88	17	32
21	80	59	670	e140	468	707	439	1320	475	75	15	32
22	82	58	530	151	458	747	397	1070	396	61	15	223
23	68	54	455	142	401	606	377	885	355	65	20	760
24	127	49	456	228	349	587	336	743	321	134	36	318
25	182	71	421	512	336	541	323	637	278	102	98	178
26	135	359	e340	490	320	901	437	542	274	76	73	133
27	110	238	e290	483	320	4710	346	477	262	66	43	362
28	99	188	e260	539	300	2250	1240	466	247	63	31	889
29	90	182	e240	679	---	1560	2860	536	220	67	28	410
30	79	206	e220	1510	---	1210	1660	420	192	61	32	263
31	77	---	e210	1610	---	973	---	462	---	54	34	---
TOTAL	3065	2924	11292	9801	21354	20987	20351	43269	19321	2873	1073	4247
MEAN	98.87	97.47	364.3	316.2	762.6	677.0	678.4	1396	644.0	92.68	34.61	141.6
MAX	182	359	1590	1610	2440	4710	2860	6660	2450	173	98	889
MIN	54	49	142	130	300	245	323	420	192	53	15	21
CFSM	0.26	0.25	0.95	0.83	1.99	1.77	1.77	3.64	1.68	0.24	0.09	0.37
IN.	0.30	0.28	1.10	0.95	2.07	2.04	1.98	4.20	1.88	0.28	0.10	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

MEAN	310.9	528.0	612.7	556.5	658.6	1162	1111	640.6	346.3	209.5	167.6	194.2
MAX	1772	1934	1919	1978	1682	2910	3202	1806	1939	1007	841	1130
(WY)	1956	1973	1997	1979	1925	1936	1993	1989	1972	1947	1994	1975
MIN	21.4	25.9	51.6	59.0	76.3	288	235	122	48.4	23.9	19.0	12.4
(WY)	1965	1965	1923	1981	1980	1915	1946	1941	1962	1962	1930	1964

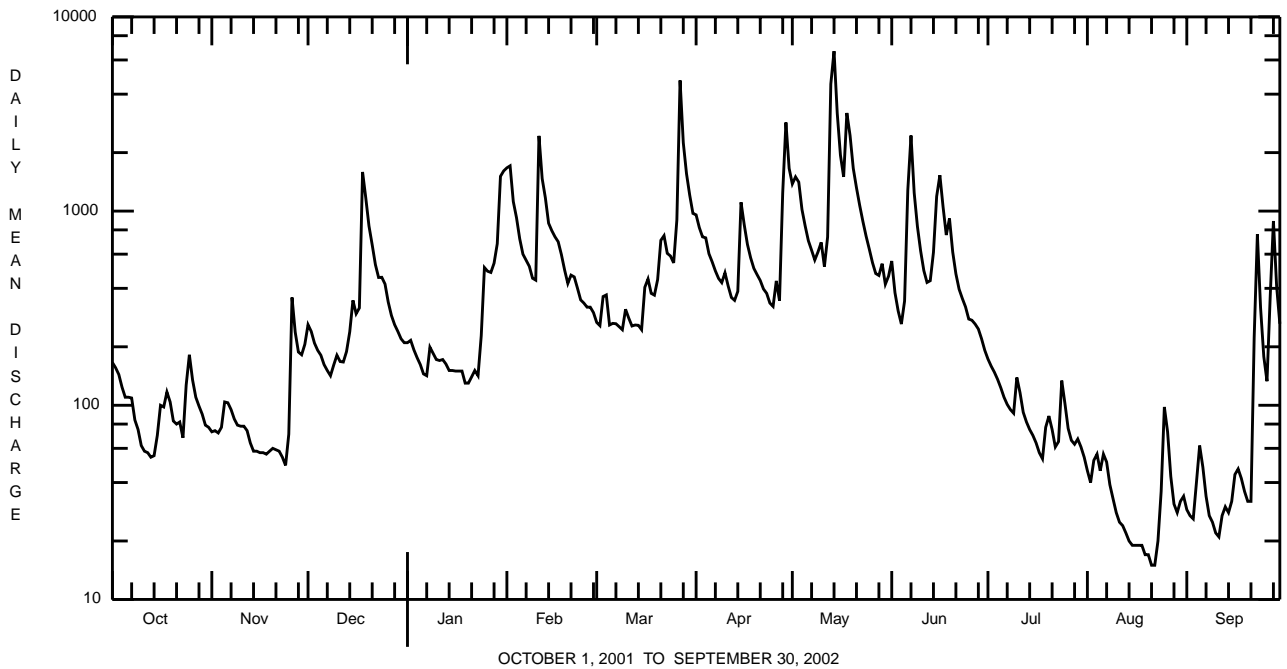
e Estimated.

TUNKHANNOCK CREEK BASIN

01534000 TUNKHANNOCK CREEK NEAR TUNKHANNOCK, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1914 - 2002	
ANNUAL TOTAL	132148		160557			
ANNUAL MEAN	362		440		539	
HIGHEST ANNUAL MEAN					897	1928
LOWEST ANNUAL MEAN					220	1965
HIGHEST DAILY MEAN	3380	Mar 30	6660	May 14	22700	Apr 16 1983
LOWEST DAILY MEAN	31	Aug 2,3	15	Aug 21,22	6.9	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	37	Jul 29	17	Aug 16	7.9	Sep 18 1964
MAXIMUM PEAK FLOW			10600	May 13	a30300	Jan 19 1996
MAXIMUM PEAK STAGE			9.94	May 13	19.99	Jan 19 1996
INSTANTANEOUS LOW FLOW					6.2	Sep 24 1964
ANNUAL RUNOFF (CFSM)	0.95		1.15		1.41	
ANNUAL RUNOFF (INCHES)	12.84		15.59		19.13	
10 PERCENT EXCEEDS	964		1060		1230	
50 PERCENT EXCEEDS	181		223		259	
90 PERCENT EXCEEDS	50		40		50	

a From computation of slope-area measurement of peak flow.



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01534000 TUNKHANNOCK CREEK NEAR TUNKHANNOCK, 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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
APR 2002													
16...	1300	9813	825	30	10.7	7.8	139	16.5	37	12.1	1.6	26	10.9
JUN													
19...	1430	9813	910	30	9.7	7.9	148	19.1	47	15.9	1.7	34	9.2

Date	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE 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)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)
APR 2002													
16...	106	12	<.020	.27	<.040	.55	.02	.030	3.2	<10	230	<1.0	30
JUN													
19...	96	10	<.020	.25	<.040	.58	.03	.040	4.5	<10	360	<1.0	80

Date	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)
APR 2002		
16...	<50	<10
JUN		
19...	<50	<10