

## TUNKHANNOCK CREEK BASIN

## 01534000 TUNKHANNOCK CREEK NEAR TUNKHANNOCK, PA

**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 mi<sup>2</sup>.

**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 sea level (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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Dec. 17	1815	*10,100	*9.69	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	154	241	e290	486	434	1800	283	123	153	33	148
2	76	148	214	e280	e440	434	1460	267	385	217	31	120
3	83	144	e180	e270	e420	411	1200	248	485	169	31	75
4	85	145	e180	e260	e390	415	1170	231	471	144	48	60
5	89	142	e170	e260	e360	398	1200	216	335	156	52	65
6	429	141	e160	275	e340	426	1280	198	264	149	40	61
7	326	136	e160	254	e320	395	1410	181	219	129	34	48
8	215	135	159	243	301	366	1560	168	185	134	73	42
9	179	135	162	239	380	353	1590	164	159	244	70	37
10	160	276	e130	e240	1810	335	3060	161	142	191	54	35
11	151	837	177	e220	1310	295	1850	155	133	159	82	35
12	141	510	e170	e210	834	298	1450	151	195	145	72	34
13	131	390	e160	e210	770	596	1210	156	183	121	60	32
14	123	358	183	e200	884	960	971	146	152	107	49	46
15	119	403	185	200	1670	778	816	136	131	93	41	75
16	116	337	178	198	1230	754	788	127	137	e86	35	59
17	120	304	5840	200	1190	1080	720	119	1520	e79	51	46
18	1010	275	3760	198	805	1460	677	118	649	e74	114	39
19	1060	259	1870	200	704	1190	555	120	380	70	74	54
20	563	243	1400	211	675	1200	493	116	290	64	72	51
21	413	234	1000	e200	814	1390	542	113	385	60	66	75
22	335	222	856	e190	537	3280	898	122	303	58	52	82
23	288	e200	626	e180	e500	2460	675	182	477	53	46	63
24	256	e190	576	e170	e480	2070	573	180	611	48	45	81
25	232	e190	e440	e170	492	1570	500	159	386	45	44	1440
26	215	204	e400	e160	781	1240	442	144	290	43	38	675
27	206	268	e360	e160	611	973	402	162	238	52	36	358
28	197	258	e340	e160	526	850	377	214	204	49	34	297
29	182	232	e320	157	---	764	332	193	178	42	35	261
30	169	240	e300	186	---	3380	302	160	160	39	35	205
31	162	---	e290	386	---	2670	---	140	---	36	47	---
TOTAL	7909	7710	21187	6777	20060	33225	30303	5230	9770	3209	1594	4699
MEAN	255	257	683	219	716	1072	1010	169	326	104	51.4	157
MAX	1060	837	5840	386	1810	3380	3060	283	1520	244	114	1440
MIN	76	135	130	157	301	295	302	113	123	36	31	32
CFSM	.67	.67	1.78	.57	1.87	2.80	2.64	.44	.85	.27	.13	.41
IN.	.77	.75	2.06	.66	1.95	3.23	2.94	.51	.95	.31	.15	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2001, BY WATER YEAR (WY)

MEAN	313	533	616	559	657	1168	1115	632	343	211	169	195
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.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1914 - 2001	
ANNUAL TOTAL	247592		151673		541	
ANNUAL MEAN	676		416		897	
HIGHEST ANNUAL MEAN					1928	
LOWEST ANNUAL MEAN					220	
HIGHEST DAILY MEAN	8400	Feb 28	5840	Dec 17	22700	Apr 16 1983
LOWEST DAILY MEAN	73	Sep 11	31	Aug 2,3	6.9	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	79	Sep 6	37	Jul 29	7.9	Sep 18 1964
MAXIMUM PEAK FLOW			10100	Dec 17	a30300	Jan 19 1996
MAXIMUM PEAK STAGE			9.69	Dec 17	19.99	Jan 19 1996
INSTANTANEOUS LOW FLOW					6.2	Sep 24 1964
ANNUAL RUNOFF (CFSM)	1.77		1.08		1.41	
ANNUAL RUNOFF (INCHES)	24.05		14.73		19.18	
10 PERCENT EXCEEDS	1630		1070		1240	
50 PERCENT EXCEEDS	333		204		260	
90 PERCENT EXCEEDS	118		51		50	

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

