

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Feb. 28	1030	*11,800	*10.49	May 24	1215	6,200	7.64

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	695	166	409	e230	e270	2640	908	539	463	403	920	88
2	469	209	364	231	e270	2190	788	519	438	318	519	87
3	335	1180	353	258	e260	1710	754	466	544	270	364	147
4	788	707	361	305	e260	1400	2780	408	378	297	385	134
5	883	503	359	431	e240	1210	2530	399	356	270	274	112
6	629	402	366	320	e230	1040	1720	367	1080	223	225	93
7	523	340	379	291	e220	909	1340	334	1330	197	458	83
8	466	305	330	266	e210	879	1210	306	792	179	332	78
9	493	298	300	262	e200	778	3190	281	567	165	251	75
10	628	293	277	570	e200	851	2350	469	450	160	294	74
11	803	281	287	1690	e200	954	2170	1290	414	148	249	73
12	598	255	265	998	e220	3130	1810	772	1270	136	210	75
13	499	236	253	e740	e230	2080	1470	927	949	126	189	698
14	601	226	300	e620	723	1590	1240	1250	1070	123	176	260
15	550	221	708	e550	2670	1290	1060	811	863	223	199	230
16	401	211	765	e470	1780	1120	921	621	667	611	181	228
17	366	208	616	e410	e1300	2370	913	504	536	294	157	178
18	349	190	529	e410	e1100	1630	2410	443	512	211	138	151
19	340	183	480	e400	e920	1390	2210	1480	624	173	131	140
20	317	179	450	e390	e830	1170	1630	1880	463	154	122	150
21	306	180	519	e360	e770	1010	1710	1550	390	140	115	136
22	269	184	469	e330	e720	902	2250	1410	698	151	107	118
23	269	173	e380	e340	e700	780	1780	2330	471	142	118	105
24	258	169	e320	e330	e900	674	e1500	4310	357	125	178	102
25	244	176	e300	e320	e1500	600	1200	3420	311	117	144	98
26	236	209	e320	e310	3460	730	996	2100	582	103	120	97
27	223	825	e280	e300	4300	589	851	1490	745	104	108	103
28	211	630	e260	e280	8400	2430	943	1130	728	108	102	99
29	198	500	e260	e270	3980	1850	805	874	482	113	98	88
30	179	461	e250	e280	---	1360	648	689	545	820	93	81
31	172	---	e240	e280	---	1100	---	552	---	1210	90	---
TOTAL	13298	10100	11749	13242	37063	42356	46087	33921	19075	7814	7047	4181
MEAN	429	337	379	427	1278	1366	1536	1094	636	252	227	139
MAX	883	1180	765	1690	8400	3130	3190	4310	1330	1210	920	698
MIN	172	166	240	230	200	589	648	281	311	103	90	73
CFSM	1.12	.88	.99	1.12	3.34	3.57	4.01	2.86	1.66	.66	.59	.36
IN.	1.29	.98	1.14	1.29	3.60	4.11	4.48	3.29	1.85	.76	.68	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2000, BY WATER YEAR (WY)

MEAN	314	536	615	563	657	1169	1117	637	343	212	170	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1914 - 2000	
ANNUAL TOTAL	162857.9		245933			
ANNUAL MEAN	446		672		542	
HIGHEST ANNUAL MEAN					897	1928
LOWEST ANNUAL MEAN					220	1965
HIGHEST DAILY MEAN	7870	Jan 24	8400	Feb 28	22700	Apr 16 1983
LOWEST DAILY MEAN	9.9	Sep 5	73	Sep 11	6.9	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	12	Aug 31	79	Sep 6	7.9	Sep 18 1964
INSTANTANEOUS PEAK FLOW			11800	Feb 28	^a 30300	Jan 19 1996
INSTANTANEOUS PEAK STAGE			10.49	Feb 28	19.99	Jan 19 1996
INSTANTANEOUS LOW FLOW					6.2	Sep 24 1964
ANNUAL RUNOFF (CFSM)	1.16		1.75		1.42	
ANNUAL RUNOFF (INCHES)	15.82		23.89		19.23	
10 PERCENT EXCEEDS	979		1520		1240	
50 PERCENT EXCEEDS	281		382		260	
90 PERCENT EXCEEDS	29		126		50	

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

