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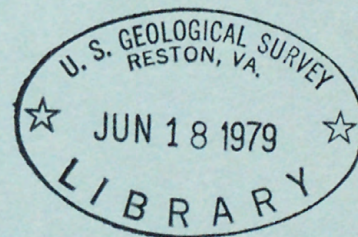
UNITED STATES
(DEPARTMENT OF THE INTERIOR)
GEOLOGICAL SURVEY,

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**DRAINAGE AREAS OF THE
TWELVEPOLE CREEK BASIN, WEST
VIRGINIA; BIG SANDY RIVER
BASIN, WEST VIRGINIA; TUG FORK
BASIN, VIRGINIA, KENTUCKY, WEST
VIRGINIA**

Open-File Report
79-746



Prepared in cooperation with the U.S. Army Corps of Engineers,
Huntington District; ^{Geological Survey} West Virginia Geologic and Economic Survey;
and the West Virginia ^{Division of Water Resources} Department of Natural Resources, Water
Resources Division



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ABSTRACT

This report lists in tabular form: 61 drainage areas in the Twelvepole Creek basin, of West Virginia, 11 drainage areas of the Big Sandy River basin within West Virginia, and 210 drainage areas in the Tug Fork basin of Virginia, Kentucky, and West Virginia. Drainage areas were compiled in a downstream direction, at the mouth of all streams having drainage areas of approximately 5 square miles and for sites at U. S. Geological Survey gaging stations. The site or measuring point for each basin can be located by stream mile measured upstream from the mouth, by county, by quadrangle, or by latitude and longitude.

ACKNOWLEDGMENTS

This report was prepared in cooperation with the U. S. Army Corps of Engineers, Huntington District; the West Virginia Geological and Economic Survey; and the West Virginia Department of Natural Resources, Water Resources Division.

INTRODUCTION

The Tug Fork basin is located in southwestern West Virginia, southeastern Kentucky, and southwestern Virginia. (See fig. 1.) The Tug Fork drains approximately 1,560 square miles of the Valley and Ridge province and the Appalachian Plateaus and joins the Levisa Fork at Louisa, Ky., to form the Big Sandy River.

Drainage in West Virginia directly tributary to the Big Sandy River is 73 square miles. The Big Sandy River flows into the Ohio River at Catlettsburg, Ky. (See fig. 1.)

The Twelvepole Creek basin, in southwestern West Virginia, drains approximately 440 square miles of the Appalachian Plateaus and flows into the Ohio River at Huntington, W. Va. (See fig. 1.)

Drainage areas were determined for 61 basins in the Twelvepole Creek basin; 11 basins of the Big Sandy River basin within West Virginia; and 210 basins in the Tug Fork basin of Virginia, Kentucky, and West Virginia. The drainage divides were outlined on U. S. Geological Survey 7-1/2 minute topographic maps. Most basins with areas greater than 5 square miles were outlined.

Drainage areas were measured with electronic digitizing equipment, and supplementary measurements were made with a hand planimeter. The drainage areas were adjusted to agree with the areas of 7-1/2 minute quadrilaterals as found in Smithsonian Geographical Tables. Individual areas were rounded to the nearest one-hundredth of a square mile.

Stream mileages were determined by measuring, with a graduated plastic strip, distances from the mouth of each stream to the measuring point on that stream. Mileages were reported to the nearest one-hundredth of a mile in all cases. The latitude and longitude of each measuring point was determined with electronic digitizing equipment and is reported to the nearest second.

All information in this report is listed in tabular form in downstream order. Measuring points for the basins are located in the tables by intersecting tributaries, by counties, by map quadrangles, or by latitude and longitude.

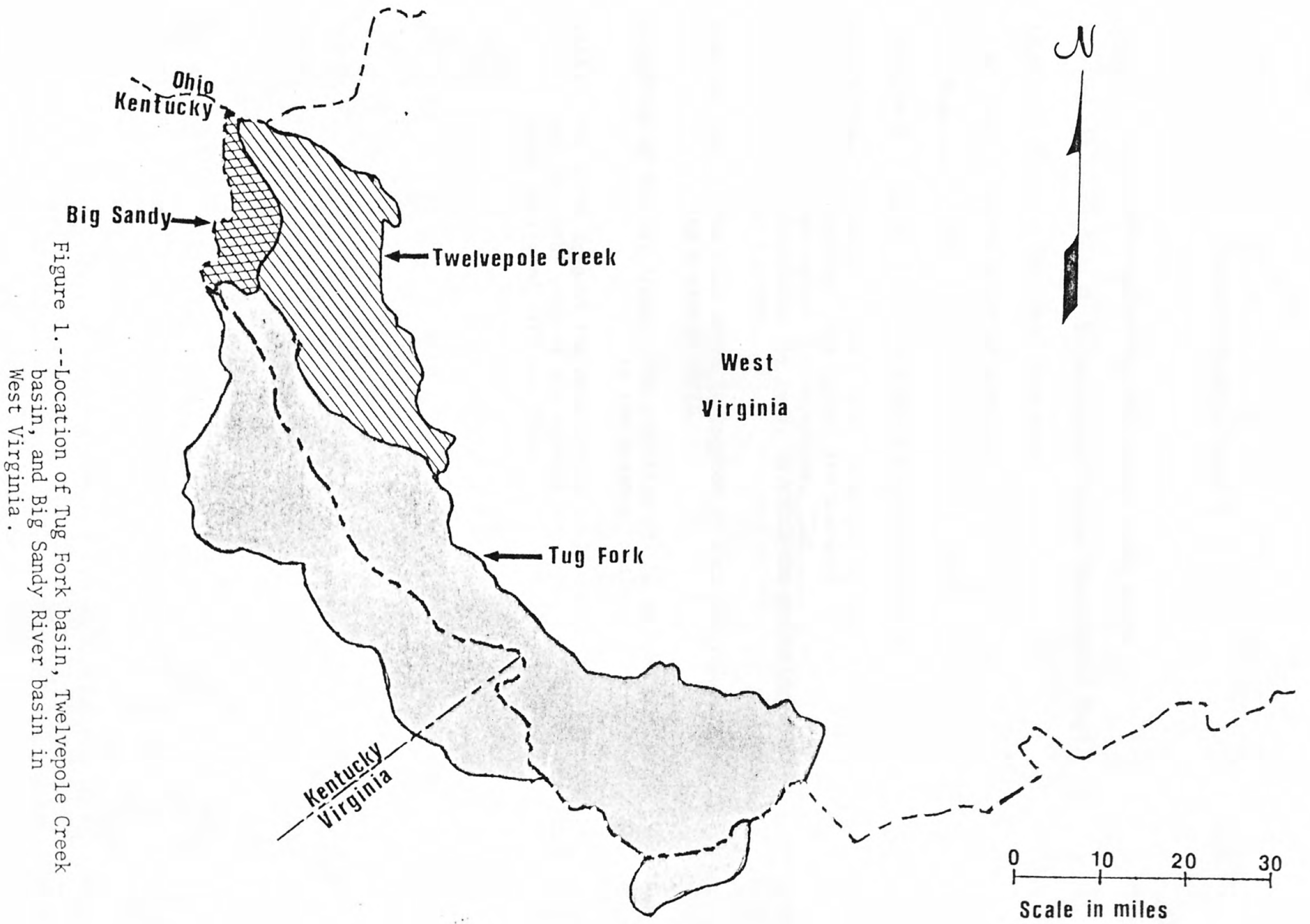


Figure 1.--Location of Tug Fork basin, Twelvepole Creek basin, and Big Sandy River basin in West Virginia.

INTRODUCTION TO TABLE 1

Table 1.--Drainage Areas of the Twelvepole Creek basin

Stream: As taken from U. S. Geological Survey Topographic Maps

River Miles: Miles upstream from mouth

From: Most upstream point of subbasin

To: Measuring Point

Latitude & Longitude: Latitude and longitude at the measuring point.

County Quads.: County is the county in which the measuring point is located. The quads. are numbered by the U. S. Geological Survey system. The last quad. listed represents the quad. in which the measuring point is located.

Area on Quad.: The area which is located on each individual quad. in the drainage basin.

Summation of Partial Areas: The summation of the area on the quads. in the drainage basin.

Total: The total area of the main stream is listed without parentheses, and the total area of the subdivided tributaries at the measuring point is listed with parentheses.

Table 1.--Drainage Areas of the Twelvepole Creek basin

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
East Fork Twelvepole	69.64	Divide	Caney Fork	37°56'54" 82°13'59"	Mingo			
					43 NE	0.26		
					43 NW	13.90	14.16	14.16
Caney Fork	0	Divide	Mouth	37°56'54" 82°13'59"	Mingo 43 NW	3.72	3.72	17.88
East Fork Twelvepole	60.19	Caney Fork	Gage near Dunlow	38°01'02" 82°17'46"	Wayne			
					42 NE	13.47		
					43 NW	3.00		
					62 SE	4.17	20.64	38.52
East Fork Twelvepole	55.86	Gage near Dunlow	Milam Creek	38°03'06" 82°18'25"	Wayne 62 SE	6.39	6.39	44.91
Milam Creek	0	Divide	Mouth	38°03'06" 82°18'25"	Wayne 62 SE	8.03	8.03	52.94
East Fork Twelvepole	53.90	Milam Creek	Kiah Creek	38°04'12" 82°18'00"	Wayne 62 SE	1.48	1.48	54.42
Kiah Creek	8.38	Divide	Frances Creek	38°00'22" 82°14'00"	Wayne			
					43 NW	6.02		
					62 SE	0.03		
					42 NE	0.14		
					63 SW	0.47	6.66	(6.66)
Frances Creek	0	Divide	Mouth	38°00'22" 82°14'00"	Wayne 43 NW 63 SW	1.68 2.41	4.09	(10.75)

Table 1.--Drainage Areas of the Twelvepole Creek basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Kiah Creek	2.61	Frances Creek	Big Laurel Creek	38°03'36" 82°15'54"	Wayne 42 NE 63 SW 62 SE	0.29 8.51 4.55	13.35	(24.10)
Big Laurel Creek	0	Divide	Mouth	38°03'36" 82°15'54"	Wayne 63 SW 62 SE	2.90 0.79	3.69	(27.79)
∇ Kiah Creek	0	Big Laurel Creek	Mouth	38°04'12" 82°18'00"	Wayne 62 SE	3.14	3.14 Total Area Kiah Creek	(30.93) 85.35
East Fork Twelvepole	50.07	Kiah Creek	Cove Creek	38°05'30" 82°19'10"	Wayne 62 SE	2.33	2.33	87.68
Cove Creek	0	Divide	Mouth	38°05'30" 82°19'10"	Wayne 63 SW 62 SE	0.85 5.66	6.51	94.19
East Fork Twelvepole	45.66	Cove Creek	Rich Creek	38°06'21" 82°21'44"	Wayne 62 SE	6.95	6.95	101.14
Rich Creek	0	Divide	Mouth	38°06'21" 82°21'44"	Wayne 62 SW 62 SE	6.09 4.83	10.92	112.06

Table 1.--Drainage Areas of the Twelvepole Creek basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
East Fork Twelvepole	44.42	Rich Creek	Lick Creek	38°07'00" 82°22'12"	Wayne			
					62 SW	0.29		
					62 SE	0.72	1.01	113.07
Lick Creek	0	Divide	Mouth	38°07'00" 82°22'12"	Wayne			
					62 NE	4.97		
					62 SE	6.72	11.69	124.76
East Fork Twelvepole	43.05	Lick Creek	Brush Creek	38°07'54" 82°22'59"	Wayne			
					62 NE	0.38		
					62 SE	0.28		
					62 SW	0.40		
					62 NW	0.22	1.28	126.04
Brush Creek	0	Divide	Mouth	38°07'54" 82°22'59"	Wayne			
					62 SW	5.39		
					62 NW	0.68	6.07	132.11
East Fork Twelvepole	41.75	Brush Creek	East Fork Dam	38°08'42" 82°23'02"	Wayne 62 NW	0.96	0.96	133.07
East Fork Twelvepole	41.55	East Fork Dam	Laurel Creek	38°08'48" 82°22'52"	Wayne 62 NW	0.03	0.03	133.10
Laurel Creek	0	Divide	Mouth	38°08'48" 82°22'52"	Wayne			
					62 NE	4.94		
					62 NW	0.20	5.14	138.24

Table 1.--Drainage Areas of the Twelvepole Creek basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
East Fork Twelvepole	40.12	Laurel Creek	Lynn Creek	38°09'43" 82°23'25"	Wayne	0.06	0.99	139.23
					62 NE 62 NW	0.93		
Lynn Creek	0	Divide	Mouth	38°09'43" 82°23'25"	Wayne	0.59	5.59	144.82
					62 SW 62 NW	5.00		
East Fork	39.18	Lynn Creek	Camp Creek and Little	38°10'04" 82°22'41"	Wayne 62 NW	0.28	0.28	145.10
Camp Creek	0	Divide	Mouth	38°10'04" 82°22'41"	Wayne	8.70	8.79	153.89
					62 NE 62 NW	0.09		
Little Lynn	0	Divide	Mouth	38°10'04" 82°22'41"	Wayne 62 NE 62 NW	3.78 0.66	4.44	158.33
East Fork Twelvepole	31.72	Little Lynn Creek and Camp Creek	West Fork Twelvepole	38°12'40" 82°26'43"	Wayne 62 NE 62 NW	0.03 13.52	13.55	171.88

Table 1.--Drainage Areas of the Twelvepole Creek basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
West Fork Twelvepole	32.30	Divide	Turkey Creek	37°57'24" 82°20'22"	Wayne			
					43 NW	10.79		
					43 SE	0.44		
					43 SW	6.33		
					42 NE	15.12	32.68	(32.68)
Turkey Creek	0	Divide	Mouth	37°57'24" 82°20'22"	Wayne 42 NE	5.51	5.51	(38.19)
West Fork Twelvepole	26.03	Turkey Creek	Moses Fork	37°59'47" 82°24'08"	Wayne			
					62 SW	0.25		
					62 SE	1.08		
					42 NE	8.07		
					42 NW	1.89	11.29	(49.48)
Moses Fork	0	Divide	Mouth	37°59'47" 82°24'08"	Wayne 42 NE 42 NW	1.94 7.09	9.03	(58.51)
West Fork Twelvepole	4.45	Moses Fork	Trace Fork	38°10'39" 82°28'50"	Wayne			
					62 SW	28.44		
					42 NW	1.35		
					62 SE	0.48		
					61 NE	0.04		
					62 NW	8.43	38.74	(97.25)

Table 1.--Drainage Areas of the Twelvepole Creek basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Trace Fork	0	Divide	Mouth	38°10'39" 82°28'50"	Wayne			
					62 SW	0.03		
					61 NE	7.59		
					61 SE	0.36		
					62 NW	2.46	10.44	(107.69)
West Fork Twelvepole	0	Trace Fork	Mouth	38°12'40" 82°26'43"	Wayne			
					61 NE	0.30		
					62 NW	6.78		
							7.08	(114.77)
							TOTAL WEST FORK	286.65
II Twelvepole Creek	26.79	West Fork Twelvepole	Wilson Creek	38°14'45" 82°25'54"	Wayne 62 NW	6.10	6.10	292.75
Wilson Creek	0	Divide	Mouth	38°14'45" 82°25'54"	Wayne 82 SW 62 NW	1.28 6.11	7.39	300.14
Twelvepole Creek	26.50	Wilson Creek	Gage near Wayne	38°14'56" 82°26'04"	Wayne 82 SW 62 NW	0.05 0.16	0.21	300.35
Twelvepole Creek	24.04	Gage near Wayne	Garrett Creek	38°15'35" 82°27'11"	Wayne 62 NW 82 SW	0.10 1.85	1.95	302.30

Table 1.--Drainage Areas of the Twelvepole Creek basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Garrett Creek	0	Divide	Mouth	38°15'35" 82°27'11"	Wayne 62 NW 82 SW	2.60 1.56	4.16	306.46
Twelvepole Creek	17.44	Garrett Creek	Lynn Creek	38°18'31" 82°27'45"	Wayne 82 SW	8.07	8.07	314.53
Lynn Creek	0	Divide	Mouth	38°18'31" 82°27'45"	Wayne 82 SW	3.44	3.44	317.97
Twelvepole Creek	16.40	Lynn Creek	Beech Fork	38°19'00" 82°27'15"	Wayne 82 SW	0.39	0.39	318.36
Beech Fork	20.10	Divide	Right Fork	38°13'43" 82°18'43"	Wayne 62 NE	9.83	9.83	(9.83)
Right Fork	0	Divide	Mouth	38°13'43" 82°18'43"	Wayne 62 NE	4.39	4.39	(14.22)
Beech Fork	15.36	Right Fork	Raccoon Creek	38°16'42" 82°18'35"	Wayne 62 NE 82 SE	2.62 3.86	6.48	(20.70)
Raccoon Creek	0	Divide	Mouth	38°16'42" 82°18'35"	Wayne 62 NE 82 SE	2.75 4.11	6.86	(27.56)

Table 1.--Drainage Areas of the Twelvepole Creek basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Beech Fork	14.01	Raccoon Creek	Bowen Creek	38°17'42" 82°18'20"	Wayne 82 SE	1.84	1.84	(29.40)
Bowen Creek	0	Divide	Mouth	38°17'42" 82°18'20"	Wayne 83 SW 82 SE	0.30 5.55	5.85	(35.25)
Beech Fork	9.90	Bowen Creek	Long Branch	38°18'21" 82°20'46"	Wayne 82 SE	6.76	6.76	(42.01)
Long Branch	0	Divide	Mouth	38°18'21" 82°20'46"	Wayne 82 SE	5.02	5.02	(47.03)
Beech Fork	3.60	Long Branch	Millers Fork	38°18'10" 82°24'51"	Wayne 82 SE 82 SW	5.23 7.22	12.45	(59.48)
Millers Fork	0	Divide	Mouth	38°18'10" 82°24'51"	Wayne 82 SE 62 NW 62 NE 82 SW	4.34 2.35 6.48 6.22	19.39	(78.87)
Beech Fork	3.43	Millers Fork	Beech Fork Dam	38°18'14" 82°24'58"	Wayne 82 SW	0.09	0.09	(78.96)

Table 1.--Drainage Areas of the Twelvepole Creek basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Beech Fork	2.96	Beech Fork Dam	Gage below Dam	38°18'18" 82°25'28"	Wayne 82 SW	0.28	0.28	(79.24)
Beech Fork	0	Gage below Dam	Mouth	38°19'00" 82°27'15"	Wayne 82 SW	3.94	3.94	(83.18)
							Total Beech Fork	401.54
Twelvepole Creek	14.90	Beech Fork	Camp Creek	38°20'05" 82°27'24"	Wayne 82 SW	1.04	1.04	402.58
14 Camp Creek	0	Divide	Mouth	38°20'05" 82°27'24"	Wayne 82 SW	7.26	7.26	409.84
Twelvepole Creek	8.63	Camp Creek	Buffalo Creek	38°21'16" 82°30'30"	Wayne 82 SW 81 SE	8.07 1.40	9.47	419.31
Buffalo Creek	0	Divide	Mouth	38°21'16" 82°30'30"	Wayne 82 SW 81 SE	0.49 7.97	8.46	427.77
Twelvepole Creek	0	Buffalo Creek	Mouth	38°24'04" 82°31'51"	Wayne 82 SW 81 SE 82 NW 81 NE	0.84 5.14 1.02 7.49	14.49	442.26

INTRODUCTION TO TABLE 2

Table 2.--Drainage Areas of the Big Sandy River basin

Stream: As taken from U. S. Geological Survey Topographic Maps

River Miles: Miles upstream from mouth

From: Most upstream point of subbasin

To: Measuring Point

Latitude & Longitude: Latitude and longitude at the measuring point.

County Quads.: County is the county in which the measuring point is located. The quads. are numbered by the U. S. Geological Survey system. The last quad. listed represents the quad. in which the measuring point is located.

Area on Quad.: The area which is located on each individual quad. in the drainage basin.

Summation of Partial Areas: The summation of the area on the quads. in the drainage basin.

Total: The total area, in West Virginia only, of the main stem at the measuring point.

Table 2.--Drainage Areas of the Big Sandy River basin.

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Big Sandy	20.03	Junction of Forks	Tabor Creek	38°10'12" 82°36'43"	Wayne 61 SE 61 NW 61 NE	0.33 1.60 1.32	3.25	3.25
Tabor Creek	0	Divide	Mouth	38°10'12" 82°36'43"	Wayne 61 NW 61 NE	0.18 5.82	6.00	9.25
Big Sandy	18.35	Tabor Creek	Hurricane Creek	38°11'33" 82°36'04"	Wayne 61 NE	2.33	2.33	11.58
Hurricane Creek	0	Divide	Mouth	38°11'33" 82°36'04"	Wayne 61 SE 61 NE	0.57 14.91	15.48	27.06
Big Sandy	13.15	Hurricane Creek	Elijah Creek	38°14'41" 82°35'10"	Wayne 61 NE	3.23	3.23	30.29
Elijah Creek	0	Divide	Mouth	38°14'41" 82°35'10"	Wayne 61 NE	3.87	3.87	34.16
Big Sandy	11.13	Elijah Creek	Gragston Creek	38°16'12" 82°34'25"	Wayne 61 NE 81 SE	0.15 0.27	0.42	34.58

Table 2.--Drainage Areas of the Big Sandy River basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Gragston Creek	0	Divide	Mouth	38°16'12" 82°34'25"	Wayne			
					61 NE	9.46		
					81 SE	2.12	11.58	46.16
Big Sandy	8.18	Gragston Creek	Whites Creek	38°18'34" 82°34'26"	Wayne 81 SE	0.99	0.99	47.15
Whites Creek	0	Divide	Mouth	38°18'34" 82°34'26"	Wayne			
					82 SW	0.84		
					61 NE	1.96		
					62 NW	1.03		
					81 SE	12.15	15.98	63.13
Big Sandy	0	Whites Creek	Mouth	38°24'59" 82°35'43"	Wayne			
					81 SE	8.40		
					81 NE	1.07	9.47	72.60

INTRODUCTION TO TABLE 3

Table 3.--Drainage areas of the Tug Fork basin

Stream: As taken from U. S. Geological Survey Topographic Maps

River Miles: Miles upstream from mouth

From: Most upstream point of subbasin

To: Measuring Point

Latitude & Longitude: Latitude and longitude at the measuring point

County Quads.: County is the county in which the measuring point is located. The quads. are numbered by the U. S. Geological Survey system. The last quad. listed represents the quad. in which the measuring point is located.

Area on Quad.: The area which is located on each individual quad. in the drainage basin.

Summation of Partial Areas: The summation of the area on the quads. in the drainage basin.

Total: The total area of the main stem at the measuring point is listed with nothing surrounding it. Parentheses and two types of brackets, [] and { }, are used around the first, second, and third divisions, respectively.

Table 3.--Drainage areas of the Tug Fork basin

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Tug Fork	150.37	Divide	Little Creek	37°20'08" 81°26'10"	McDowell 06 SW	10.32	10.32	10.32
Little Creek	0	Divide	Mouth	37°20'08" 81°26'10"	McDowell 06 SE 06 SW	0.67 7.32	7.99	18.31
Tug Fork	145.28	Little Creek	South Fork	37°20'01" 81°28'59"	McDowell 06 NW 06 SW	0.72 8.84	9.56	27.87
19 South Fork	0	Divide	Mouth	37°20'01" 81°28'59"	McDowell 05 SE 06 SW	4.21 13.75	17.96	45.83
Tug Fork	139.38	South Fork	Sandlick Creek	37°21'57" 81°33'09"	McDowell 06 NW 06 SW 05 NE 05 SE	2.39 4.08 3.27 5.10	14.84	60.67
Sandlick Creek	0	Divide	Mouth	37°21'57" 81°33'09"	McDowell 05 SE	11.02	11.02	71.69
Tug Fork	133.81	Sandlick Creek	Welch gage	37°25'01" 81°35'25"	McDowell 05 SE 05 NE	4.83 9.34	14.17	85.86
Tug Fork	132.73	Welch gage	Elkhorn Creek	37°25'50" 81°35'12"	McDowell 05 NW 05 NE	0.04 2.83	2.87	88.73

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Elkhorn Creek	14.70	Divide	Northfork	37°24'53" 81°25'50"	McDowell			
					06 NE	2.35		
					06 SW	2.24		
					06 SE	4.84		
					06 NW	7.62	17.05	(17.05)
North Fork	0.47	Divide	Buzzard Branch	37°25'11" 81°25'31"	McDowell			
					06 NE	10.14		
					06 NW	4.24	14.38	[14.38]
20 Buzzard Branch	0	Divide	Mouth	37°25'11" 81°25'31"	McDowell			
					06 NE	0.60		
					06 NW	4.94	5.54	[19.92]
North Fork	0	Buzzard Branch	Mouth	37°24'53" 81°25'50"	McDowell			
					06 NW	0.18		
							0.18	
							Total Area	[20.10]
							North Fork	(37.15)
Elkhorn Creek	8.86	North Fork	Bottom Creek	37°25'07" 81°29'53"	McDowell			
					06 NW	12.33	12.33	(49.48)
Bottom Creek	0	Divide	Mouth	37°25'07" 81°29'53"	McDowell			
					06 NW	4.78	4.78	(54.26)
Elkhorn Creek	7.71	Bottom Creek	Laurel Branch	37°25'46" 81°30'30"	McDowell			
					06 NW	0.93		
					05 NE	0.62	1.55	(55.81)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Laurel Branch	0	Divide	Mouth	37°25'46" 81°30'30"	McDowell 06 NW 05 NE	4.82 2.76	7.58	(63.39)
Elkhorn Creek	2.40	Laurel Branch	Maitland gage	37°25'47" 81°33'08"	McDowell 06 NW 05 NE	0.31 6.19	6.50	(69.89)
Elkhorn Creek	0	Maitland gage	Mouth	37°25'50" 81°35'12"	McDowell 05 NE	3.43	3.43	(73.32)
							Total Area Elkhorn Creek	162.05
Tug Fork	132.10	Elkhorn Creek	Brown's Creek	37°26'18" 81°35'25"	McDowell 05 NE	0.23	0.23	162.28
Brown's Creek	0	Divide	Mouth	37°26'18" 81°35'25"	McDowell 05 NE	9.69	9.69	171.97
Tug Fork	125.00	Brown's Creek	Davy Branch	37°28'37" 81°39'18"	McDowell 05 NE 05 NW	12.32 4.48	16.80	188.77
Davy Branch	0	Divide	Mouth	37°28'37" 81°39'18"	McDowell 25 SE 05 NE 25 SW 05 NW	1.13 0.69 1.39 2.62	5.83	194.60
Tug Fork	118.05	Davy Branch	Spice Creek	37°26'44" 81°42'10"	McDowell 25 SW 05 NW	2.70 11.19	13.89	208.49

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Spice Creek	0	Divide	Mouth	37°26'44" 81°42'10"	McDowell 05 NE 05 NW	0.52 10.23	10.75	219.24
Tug Fork	114.72	Spice Creek	Clear Fork	37°27'04" 81°44'14"	McDowell 05 NW	3.21	3.21	222.45
Clear Fork	5.88	Divide	Big Branch	37°23'42" 81°41'51"	McDowell 05 SW 05 SE 05 NE 05 NW	2.40 0.89 1.71 7.85	12.85	(12.85)
Big Branch	0	Divide	Mouth	37°23'42" 81°41'51"	McDowell 05 SW 05 NW	1.59 2.11	3.70	(16.55)
Clear Fork	0	Big Branch	Mouth	37°27'04" 81°44'14"	McDowell 05 SW 04 NE 05 NW	0.05 0.30 8.41	8.76	(25.31)
							Total Clear Fork	247.76
Tug Fork	111.50	Clear Fork	Sandy Huff Branch	37°28'32" 81°46'35"	McDowell 05 NW 04 NE	2.56 1.95	4.51	252.27

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Sandy Huff Branch	0	Divide	Mouth	37°28'32" 81°46'35"	McDowell			
					05 NW	1.80		
					25 SW	0.05		
					24 SE	0.50		
					04 NE	2.44	4.79	257.06
Tug Fork	108.88	Sandy Huff Branch	Dry Fork	37°27'45" 81°49'04"	McDowell			
					24 SE	0.04		
					04 NE	7.29	7.33	264.39
Dry Fork	36.29	Divide	Dick Creek	37°11'16" 81°37'27"	Tazewell			
					-15 SW	0.36		
					-15 NW	9.02		
					-15 NE	6.87	16.25	(16.25)
Dick Creek	0	Divide	Mouth	37°11'16" 81°37'27"	Tazewell			
					-15 NE	5.30	5.30	(21.55)
Dry Fork	33.60	Dick Creek	Beech Fork	37°12'58" 81°37'56"	McDowell			
					-15 NE	2.30		
					-15 NW	0.54	2.84	(24.39)
Beech Fork	0	Divide	Mouth	37°12'58" 81°37'56"	McDowell			
					-15 NW	12.84	12.84	(37.23)
Dry Fork	32.05	Beech Fork	Vall Creek	37°13'56" 81°38'32"	McDowell			
					-15 NE	0.48		
					-15 NW	1.39	1.87	(39.10)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Vall Creek	0	Divide	Mouth	37°13'56" 81°38'32"	McDowell -15 NW	5.06	5.06	(44.16)
Dry Fork	26.46	Vall Creek	Jacobs Fork	37°16'51" 81°39'57"	McDowell 05 SE -15 NW -15 NE 05 SW	0.05 4.00 0.41 5.94	10.40	(54.56)
Jacobs Fork	7.98	Divide	Horsepen Creek	37°12'31" 81°33'30"	McDowell -15 NE	4.53	4.53	[4.53]
Horsepen Creek	0	Divide	Mouth	37°12'31" 81°33'30"	McDowell -14 NW 06 SW 05 SE -15 NE	3.46 0.15 0.28 7.36	11.25	[15.78]
Jacobs Fork	1.13	Horsepen Creek	Big Creek	37°17'22" 81°39'08"	McDowell -15 NE 05 SE 05 SW	10.81 5.37 2.24	18.42	[34.20]
Big Creek	4.58	Divide	Long Branch	37°18'01" 81°36'24"	McDowell -15 NE 05 SE	2.42 11.81	14.23	{14.23}
Long Branch	0	Divide	Mouth	37°18'01" 81°36'24"	McDowell 05 SE	8.78	8.78	{23.01}

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Big Creek	2.77	Long Branch	Mountain Fork	37°18'40" 81°37'32"	McDowell 05 SE 05 SW	1.21 0.15	1.36	{24.37}
Mountain Fork	0	Divide	Mouth	37°18'40" 81°37'32"	McDowell 05 SE 05 SW	5.77 0.53	6.30	{30.67}
Big Creek	0	Mountain Fork	Mouth	37°17'22" 81°39'08"	McDowell 05 SW	3.35	3.35	{34.02}
							Total Big Creek	[68.22]
Jacobs Fork	0	Big Creek	Mouth	37°16'51" 81°39'57"	McDowell 05 SW	0.66	0.66	[68.88]
							Total Jacobs Fork	(123.44)
Dry Fork	22.56	Jacobs Fork	War Creek	37°18'11" 81°41'27"	McDowell 05 SW	4.02	4.02	(127.46)
War Creek	0	Divide	Mouth	37°18'11" 81°41'27"	McDowell -15 NW 05 SW	1.58 8.42	10.00	(137.46)
Dry Fork	21.15	War Creek	Barrenshe Creek	37°19'14" 81°41'50"	McDowell 05 SW	1.30	1.30	(138.76)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Barrenshe Creek	0	Divide	Mouth	37°19'14" 81°41'50"	McDowell 05 SW	9.05	9.05	(147.81)
Dry Fork	12.70	Barrenshe Creek	Little Slate Creek	37°20'41" 81°46'55"	McDowell 05 NW 05 SW 04 SE	0.24 12.86 2.90	16.00	(163.81)
Little Slate Creek	0	Divide	Mouth	37°20'41" 81°46'55"	McDowell 05 SW 04 SE	6.37 8.54	14.91	(178.72)
2 Dry Fork	11.34	Little Slate Creek	Bradshaw Creek	37°21'09" 81°47'58"	McDowell 04 SE	1.21	1.21	(179.93)
Bradshaw Creek	2.53	Divide	Middle Fork	37°19'24" 81°49'13"	McDowell 04 SW 04 SE	0.17 5.10	5.27	[5.27]
Middle Fork Bradshaw Creek	0	Divide	Mouth	37°19'24" 81°49'13"	McDowell 04 SE	10.30	10.30	[15.57]
Bradshaw Creek	0	Middle Fork	Mouth	37°21'09" 81°47'58"	McDowell 04 SE	3.35	3.35	[18.92]
							Total Bradshaw Creek	(198.85)
Dry Fork	4.55	Bradshaw Creek	Crane Creek	37°24'49" 81°47'02"	McDowell 04 SE 04 NE	6.14 9.18	15.32	(214.17)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Crane Creek	0	Divide	Mouth	37°24'49" 81°47'02"	McDowell 05 NW 05 SW 04 SE 04 NE	3.97 0.09 0.02 2.98	7.06	(221.23)
Dry Fork	3.45	Crane Creek	Avondale gage	37°26'42" 81°52'15"	McDowell 04 NE	3.64	3.64	(224.87)
Dry Fork	0	Avondale gage	Mouth	37°27'45" 81°49'04"	McDowell 04 NE	5.18	5.18	(230.05)
							Total Dry Fork	494.44
Tug Fork	106.13	Dry Fork	Litwar gage	37°29'08" 81°50'38"	McDowell 24 SE 04 NE	2.12 6.96	9.08	503.52
Tug Fork	104.40	Litwar gage	Horse Creek	37°28'08" 81°51'47"	McDowell 04 NE	1.89	1.89	505.41
Horse Creek	0	Divide	Mouth	37°28'08" 81°51'47"	McDowell 04 NE	4.84	4.84	510.25
Tug Fork	101.69	Horse Creek	Panther Creek	37°28'58" 81°53'55"	McDowell 04 NE 04 NW	1.95 1.95	3.90	514.15

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)	
Panther Creek (Slauch Fork)	9.50	Divide	Middle Fork	37°23'43" 81°53'26"	McDowell				
					04 SE	0.33			
					04 SW	5.79			
					04 NW	4.92	11.04	(11.04)	
Middle Fork	0	Divide	Mouth	37°23'43" 81°53'26"	McDowell				
					04 SE	0.02			
					04 SW	0.99			
					04 NW	1.26	2.27	(13.31)	
Panther Creek	8.71	Middle Fork	Meathouse Fork	37°24'12" 81°52'57"	McDowell				
					04 NW	0.39	0.39	(13.70)	
Meathouse Fork	0	Divide	Mouth	37°24'12" 81°52'57"	McDowell				
					04 NE	2.77			
					04 SW	0.07			
					04 SE	4.37			
					04 NW	0.64	7.85	(21.55)	
Panther Creek	4.22	Meathouse Fork	Panther gage	37°29'08" 81°50'38"	McDowell				
					04 NW	1.94			
					04 NE	7.54	9.48	(31.03)	
Panther Creek	0	Panther gage	Mouth	37°28'58" 81°53'55"	McDowell				
					04 NE	0.33			
					04 NW	13.60	13.93	(44.96)	
							Total		(44.96)
							Panther Creek		559.11

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Tug Fork	100.25	Panther Creek	Longpole Creek	37°29'53" 81°54'50"	McDowell 04 NW	1.78	1.78	560.89
Longpole	0	Divide	Mouth	37°29'53" 81°54'50"	McDowell 24 SW 04 NE 24 SE 04 NW	1.83 0.02 6.45 0.88	9.18	570.07
Tug Fork	99.01	Longpole Creek	Bull Creek	37°30'28" 81°55'48"	McDowell 04 NW 24 SW	0.16 1.05	1.21	571.28
Bull Creek	0	Divide	Mouth	37°30'28" 81°55'48"	McDowell 04 NW 24 SW	10.00 0.62	10.62	581.90
Tug Fork	98.71	Bull Creek	Fourpole Creek	37°30'42" 81°55'39"	Mingo 24 SW	0.09	0.09	581.99
Fourpole Creek	0	Divide	Mouth	37°30'42" 81°55'39"	Mingo 24 SE 24 SW	0.74 4.93	5.67	587.66
Tug Fork	97.01	Bull Creek	Long Branch	37°30'53" 81°56'42"	Buchanan 24 SW	1.00	1.00	588.66
Long Branch	0	Divide	Mouth	37°30'53" 81°56'42"	Buchanan 04 NW 03 NE 24 SW	2.26 0.33 1.80	4.39	593.05

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Tug Fork	93.04	Long Branch	Ben Creek	37°32'39" 81°57'52"	Mingo 24 SW	6.80	6.80	599.85
Ben Creek	1.02	Divide	Left Fork	37°33'18" 81°57'58"	Mingo 24 NW 24 SW	0.80 12.43	13.23	(13.23)
Left Fork	0	Divide	Mouth	37°33'18" 81°57'58"	Mingo 24 NW 23 SE 24 SW	1.40 0.06 7.19	8.65	(21.88)
30 Ben Creek	0	Left Fork	Mouth	37°32'39" 81°57'52"	Mingo 24 SW	1.43	1.43 Total Ben Creek	(23.31) 623.16
Tug Fork	90.68	Ben Creek	Alum Creek	37°32'32" 81°59'47"	Mingo 24 SW	1.86	1.86	625.02
Alum Creek	0	Divide	Mouth	37°32'32" 81°59'47"	Mingo 23 SE 24 SW	1.68 3.25	4.93	629.95
Tug Fork	84.25	Alum Creek	Knox Creek	37°32'10" 82°03'36"	Pike 24 SW 04 NW 03 NE 23 SE	2.57 0.07 0.19 8.39	11.22	641.17

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Knox Creek	16.84	Divide	Right Fork	37°23'05" 81°59'59"	Buchanan 04 SW 04 NW	7.98 6.40	14.38	(14.38)
Right Fork	0	Divide	Mouth	37°23'05" 81°59'59"	Buchanan 04 SW 03 SE 03 NE 04 NW	6.07 1.86 0.37 0.50	8.80	(23.18)
51 Knox Creek	13.49	Right Fork	Lester Fork	37°25'11" 82°01'15"	Buchanan 04 NW 03 NE	1.68 2.97	4.65	(27.83)
Lester Fork	1.72	Divide	Left Fork	37°23'50" 82°01'35"	Buchanan 03 SE 03 NE	3.22 2.58	5.80	[5.80]
Left Fork	0	Divide	Mouth	37°23'50" 82°01'35"	Buchanan 03 SE 03 NE	3.47 1.70	5.17	[10.97]
Lester Fork	0	Left Fork	Mouth	37°25'11" 82°01'15"	Buchanan 03 NE	1.18	1.18	[12.15]
							Total Lester Fork	(39.98)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Knox Creek	12.20	Lester Fork	Guess Fork	37°26'04" 82°01'58"	Buchanan 03 NE	2.25	2.25	(42.23)
Guess Fork	0	Divide	Mouth	37°26'04" 82°01'58"	Buchanan 04 NW 03 NE	10.44 3.34	13.78	(56.01)
Knox Creek	11.40	Guess Fork	Race Fork	37°26'19" 82°02'43"	Buchanan 03 NE	0.44	0.44	(56.45)
Race Fork	0	Divide	Mouth	37°26'19" 82°02'43"	Buchanan 03 SE 03 NE	0.05 6.56	6.61	(63.06)
Knox Creek	10.31	Race Fork	Paw Paw Creek	37°26'49" 82°03'31"	Buchanan 03 NE	0.74	0.74	(63.80)
Paw Paw Creek	1.76	Divide	Left Fork	37°26'04" 82°04'59"	Buchanan 03 NW 03 NE	3.80 3.79	7.59	[7.59]
Left Fork	0	Divide	Mouth	37°26'04" 82°04'59"	Buchanan 03 NW 03 SE 03 NE	1.42 0.04 7.92	9.38	[16.97]

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Paw Paw Creek	0	Left Fork	Mouth	37°26'49" 82°03'31"	Buchanan 03 NE	1.55	1.55 Total Paw Paw Creek	[18.52] (82.32)
Knox Creek	0	Paw Paw Creek	Mouth	37°32'10" 82°03'36"	Pike 03 NE 04 NW 23 SE	21.11 0.40 9.31	30.82 Total Knox Creek	(113.14) 754.31
5 Tug Fork	83.32	Knox Creek	Beech Creek	37°32'45" 82°03'57"	Mingo 23 SE	0.51	0.51	754.82
Beech Creek	0	Divide	Mouth	37°32'45" 82°03'57"	Mingo 23 NE 24 SW 23 SE	0.08 0.06 13.65	13.79	768.61
Tug Fork	76.84	Beech Creek	Peter Creek	37°33'59" 82°08'43"	Pike 23 SE 23 SW	9.91 2.84	12.75	781.36
Left Fork Peter Creek	0	Divide	Mouth	37°30'50" 82°09'10"	Pike 23 SE 03 NW 03 NE 23 SW	0.76 10.77 1.82 2.20	15.55	(15.55)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Smith Fork	3.54	Divide	Mouth	37°29'13" 82°11'16"	Pike 03 NW	5.19	5.19	[5.19]
Right Fork Peter Creek	0	Smith Fork	Mouth	37°30'50" 82°09'11"	Pike 03 NW 23 SW	4.56 3.36	7.92 Total Right Fork Peter Creek	[13.11]
Peter Creek	0	Junction of Left and Right Forks	Mouth	37°33'59" 82°08'43"	Pike 23 SW	5.84	5.84 Total Peter Creek	(34.50) 815.86
Tug Fork	75.20	Peter Creek	Grapevine Creek	37°34'43" 82°07'30"	Mingo 23 SW 23 SE	1.42 0.12	1.54	817.40
Grapevine Creek	0	Divide	Mouth	37°34'43" 82°07'30"	Mingo 23 SE	5.19	5.19	822.59
Tug Fork	74.05	Grapevine Creek	Thacker Creek	37°35'37" 82°07'58"	Mingo 23 SE 23 SW	0.18 0.78	0.96	823.55
Thacker Creek	0	Divide	Mouth	37°35'37" 82°07'58"	Mingo 23 SE 23 SW	4.63 1.39	6.02	829.57

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Tug Fork	71.07	Thacker Creek	Blackberry Creek	37°36'28" 82°09'48"	Pike 23 SW	2.91	2.91	832.48
Right Fork Blackberry Creek	0	Divide	Mouth	37°33'09" 82°12'01"	Pike 23 SW	5.82	5.82	(5.82)
Left Fork Blackberry Creek	5.55	Divide	Right Fork	37°33'09" 82°12'01"	Pike 23 SW	5.09	5.09	(10.91)
35 Blackberry Creek	0	Junction of Left and Right Forks	Mouth	37°36'28" 82°09'48"	Pike 23 SW	9.38	9.38 Total Blackberry Creek	(20.29) 852.77
Tug Fork	69.86	Blackberry Creek	Mate Creek	37°37'15" 82°09'53"	Mingo 23 SW	2.03	2.03	854.80
Mate Creek	0	Divide	Mouth	37°37'15" 82°09'53"	Mingo 23 NE 23 NW 23 SE 23 SW	7.27 3.61 4.78 0.70	16.36	871.16
Tug Fork	57.33	Mate Creek	Pond Creek	37°39'49" 82°16'18"	Pike 23 SW 23 NW 22 NE	3.92 17.84 1.61	23.37	894.53

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Pond Creek	3.26	Divide	Blackberry Fork	37°38'09" 82°15'20"	Pike 23 SW 22 SE 22 NE	2.50 20.07 1.16	23.73	(23.73)
Blackberry Fork	0	Divide	Mouth	37°38'09" 82°15'20"	Pike 23 NW 22 SE 23 SW 22 NE	0.42 1.32 8.56 0.22	10.52	(34.25)
56 Pond Creek	1.11	Blackberry Fork	Road Fork	37°39'01" 82°16'02"	Pike 23 NW 22 NE	0.57 1.04	1.61	(35.86)
Road Fork	0	Divide	Mouth	37°39'01" 82°16'02"	Pike 22 SE 22 NE	1.11 2.88	3.99	(39.85)
Pond Creek	0	Road Fork	Mouth	37°39'49" 82°16'18"	Pike 22 NE	0.70	0.70	(40.55)
							Total Pond Creek	935.08
Tug Fork	56.53	Pond Creek	Williamson gage	37°40'23" 82°16'49"	Mingo 22 NE	1.38	1.38	936.46

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Tug Fork	54.29	Williamson gage	Turkey Creek	37°40'32" 82°18'08"	Pike 22 NE	2.45	2.45	938.91
Turkey Creek	0	Divide	Mouth	37°40'32" 82°18'08"	Pike 22 NE	5.15	5.15	944.06
Tug Fork	52.10	Turkey Creek	Buffalo Creek	37°41'59" 82°17'47"	Pike 22 NE	3.33	3.33	947.39
Buffalo Creek	0	Divide	Mouth	37°41'59" 82°17'47"	Pike 23 NW 22 NE	3.24 3.81	7.05	954.44
Tug Fork	48.27	Buffalo Creek	Big Creek	37°44'26" 82°20'00"	Pike 22 NE	6.43	6.43	960.87
Big Creek	15.38	Divide	Dix Fork	37°36'47" 82°20'31"	Pike 22 NE 22 SE	0.05 9.84	9.89	(9.89)
Dix Fork	0	Divide	Mouth	37°36'47" 82°20'31"	Pike 22 SE	5.07	5.07	(14.96)
Big Creek	14.14	Dix Fork	Road Fork	37°37'16" 82°21'21"	Pike 22 SE	0.82	0.82	(15.78)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Road Fork	0	Divide	Mouth	37°37'16" 82°21'21"	Pike 22 SW 22 SE	0.88 3.53	4.41	(20.19)
Big Creek	9.83	Road Fork	Elkins Fork	37°39'55" 82°22'42"	Pike 22 SE 22 NE 22 NW	0.45 3.98 0.29	4.72	(24.91)
Elkins Fork	1.22	Divide	Rockhouse Fork	37°39'27" 82°23'28"	Pike 22 NE 22 SW 22 SE 22 NW	0.31 2.51 0.31 3.52	6.65	[6.65]
Rockhouse Fork	0	Divide	Mouth	37°39'27" 82°23'28"	Pike 22 NW	3.96	3.96	[10.61]
Elkins Fork	0	Rockhouse Fork	Mouth	37°39'55" 82°22'42"	Pike 22 NW	1.22	1.22	[11.83]
							Total Elkins Fork	(36.74)
Big Creek	6.67	Elkins Fork	Long Fork	37°41'21" 82°21'42"	Pike 22 NW 22 NE	1.70 1.81	3.51	(40.25)

Table 3.--Drainage Areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Long Fork	0	Divide	Mouth	37°41'21" 82°21'42"	Pike 22 SE 22 NE	0.02 5.22	5.24	(45.49)
Big Creek	0	Long Fork	Mouth	37°44'26" 82°20'00"	Pike 22 NW 42 SE 22 NE	3.43 0.16 10.38	13.97 Total Big Creek	(59.46) 1020.33
39 Tug Fork	46.60	Big Creek	Miller Creek	37°45'34" 82°19'06"	Mingo 22 NE 42 SE	0.89 0.51	1.40	1021.73
Miller Creek	0	Divide	Mouth	37°45'34" 82°19'06"	Mingo 23 NW 22 NE 42 SE	1.29 6.05 2.06	9.40	1031.13
Tug Fork	41.28	Miller Creek	Pigeon Creek	37°47'24" 82°21'04"	Mingo 22 NE 42 SE	0.01 7.45	7.46	1038.59
Pigeon Creek	15.49	Divide	Rockhouse Fork	37°42'38" 82°10'57"	Mingo 23 SE 24 NW 23 NE 23 NW	0.01 0.36 15.49 9.42	25.28	(25.28)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Rockhouse Fork	0	Divide	Mouth	37°42'38" 82°10'57"	Mingo 23 NE 23 NW	10.43 5.73	16.16	(41.44)
Pigeon Creek	13.47	Rockhouse Fork	Elk Creek	37°44'03" 82°11'25"	Mingo 23 NW	3.94	3.94	(45.38)
Elk Creek	0	Divide	Mouth	37°44'03" 82°11'25"	Mingo 23 NE 43 SE 43 SW 23 NW	5.40 0.10 0.59 6.33	12.42	(57.80)
Pigeon Creek	8.11	Elk Creek	Trace Fork	37°46'24" 82°15'00"	Mingo 22 NE 23 NW 43 SW	0.06 6.34 3.02	9.42	(67.22)
Trace Fork	0	Divide	Mouth	37°46'24" 82°15'00"	Mingo 43 SE 23 NW 43 SW	3.73 0.32 16.96	21.01	(88.23)
Pigeon Creek	6.10	Trace Fork	Gage at Lenore	37°47'13" 82°15'44"	Mingo 43 SW 22 NE 42 SE	3.48 0.02 2.16	5.66	(93.89)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Pigeon Creek	4.46	Gage at Lenore	Laurel Fork	37°47'46" 82°17'13"	Mingo 42 SE	3.15	3.15	(97.04)
Laurel Fork	6.59	Divide	Dam Base	37°50'31" 82°13'08"	Mingo 43 SE 43 SW	0.03 10.92	10.95	[10.95]
Laurel Fork	2.22	Dam Base	Spruce Fork	37°49'04" 82°16'12"	Mingo 43 SW 42 SE	4.35 1.08	5.43	[16.38]
41 Spruce Fork	0	Divide	Mouth	37°49'04" 82°16'12"	Mingo 43 SW 42 SE	0.35 5.16	5.51	[21.89]
Laurel Fork	1.56	Spruce Fork	Right Fork	37°48'33" 82°16'04"	Mingo 42 SE	0.41	0.41	[22.30]
Right Fork	0	Divide	Mouth	37°48'33" 82°16'04"	Mingo 43 SW 42 SE	9.27 0.77	10.04	[32.34]
Laurel Fork	0	Right Fork	Mouth	37°47'46" 82°17'13"	Mingo 42 SE	0.78	0.78	[33.12]
							Total Laurel Fork	(130.16)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Pigeon Creek	1.37	Laurel Fork	Big Branch	37°48'11" 82°20'02"	Mingo 42 SE	4.11	4.11	(134.27)
Big Branch	0	Divide	Mouth	37°48'11" 82°20'02"	Mingo 42 SE	5.32	5.32	(139.59)
Pigeon Creek	0	Big Branch	Mouth	37°47'24" 82°21'04"	Mingo 42 SE	2.67	2.67	(142.26)
							Total Pigeon Creek	1180.85
Tug Fork	39.55	Pigeon Creek	Long Branch	37°48'07" 82°22'35"	Martin 42 SE 42 SW	1.21 0.01	1.22	1182.07
Long Branch	0	Divide	Mouth	37°48'07" 82°22'35"	Martin 42 SE 22 NE 42 SW	2.88 0.01 1.11	4.00	1186.07
Tug Fork	38.13	Long Branch	Gage near Kermit	37°49'03" 82°23'20"	Mingo 42 SE 42 SW	1.48 0.91	2.39	1188.46
Tug Fork	35.97	Gage near Kermit	Wolf Creek	37°49'31" 82°23'57"	Martin 42 SE 42 SW	2.61 4.00	6.61	1195.07

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Wolf Creek	17.08	Divide	Panther Fork	37°43'45" 82°33'34"	Martin 21 NE	5.34	5.34	(5.34)
Panther Fork	0	Divide	Mouth	37°43'45" 82°33'34"	Martin 41 SE 21 NE	0.62 4.29	4.91	(10.25)
Wolf Creek	12.70	Panther Fork	Meathouse Creek	37°44'23" 82°30'11"	Martin 41 SE 21 NE	0.05 8.76	8.81	(19.06)
43 Meathouse Creek	0	Divide	Mouth	37°44'23" 82°30'11"	Martin 22 NW 21 NE	2.66 2.93	5.59	(24.65)
Wolf Creek	6.22	Meathouse Creek	Pigeonroost Fork	37°47'01" 82°26'39"	Martin 21 NE 22 NW 41 SE 42 SW	0.93 0.64 1.94 7.77	11.28	(35.93)
Pigeonroost Fork	1.24	Divide	Petercave Fork	37°46'07" 82°27'02"	Martin 22 NW 42 SW	15.65 1.32	16.97	[16.97]
Petercave Fork	0	Divide	Mouth	37°46'07" 82°27'02"	Martin 22 NW 42 SW	5.74 1.69	7.43	[24.40]

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Pigeonroost Fork	0	Petercave Fork	Mouth	37°47'01" 82°26'39"	Martin 42 SW	1.07	1.07 Total Pigeonroost Fork	[25.47] (61.40)
Wolf Creek	4.12	Pigeonroost Fork	Emily Creek	37°47'50" 82°25'14"	Martin 42 SW	1.32	1.32	(62.72)
Emily Creek	0.93	Divide	White Oak Fork	37°47'05" 82°25'03"	Martin 22 NE 22 NW 42 SE 42 SW	0.13 2.38 0.71 4.79	8.01	[8.01]
White Oak Fork	0	Divide	Mouth	37°47'05" 82°25'03"	Martin 22 NW 42 SW	2.44 3.64	6.08	[14.09]
Emily Creek	0	White Oak Fork	Mouth	37°47'50" 82°25'14"	Martin 42 SW	0.43	0.43 Total Emily Creek	[14.52] (77.24)
Wolf Creek	0	Emily Creek	Mouth	37°49'31" 82°23'57"	Martin 42 SW	5.96	5.96 Total Wolf Creek	(83.20) 1278.27

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Tug Fork	33.24	Wolf Creek	Marrowbone Creek	37°51'19" 82°24'51"	Wayne 42 SE 42 SW	0.01 8.12	8.13	1286.40
Marrowbone Creek	0	Divide	Mouth	37°51'19" 82°24'51"	Wayne 43 SW 42 SE 42 NE 43 NW 42 SW	1.93 14.16 3.89 0.07 2.83	22.88	1309.28
45 Tug Fork	28.72	Marrowbone Creek	Jennie Creek	37°53'38" 82°26'02"	Wayne 42 SE 42 SW 42 NE 42 NW	0.04 3.16 0.45 3.84	7.49	1316.77
Jennie Creek	0	Divide	Mouth	37°53'38" 82°26'02"	Wayne 42 SE 42 NE 42 NW	0.09 10.00 5.36	15.45	1332.22
Tug Fork	25.10	Jennie Creek	Big Elk Creek	37°53'58" 82°28'15"	Martin 42 NW	5.39	5.39	1337.61
Big Elk Creek	0	Divide	Mouth	37°53'58" 82°28'15"	Martin 42 SW 42 NW	4.86 2.40	7.26	1344.87

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Tug Fork	23.67	Big Elk Creek	Turkey Creek	37°54'54" 82°28'49"	Martin 42 NW	0.63	0.63	1345.50
Turkey Creek	0	Divide	Mouth	37°54'54" 82°28'49"	Martin 41 NE 41 SE 42 SW 42 NW	1.22 0.02 0.35 3.08	4.67	1350.17
Tug Fork	22.55	Turkey Creek	Bull Creek	37°55'27" 82°28'52"	Wayne 42 NW	0.52	0.52	1350.69
46 Bull Creek	0	Divide	Mouth	37°55'27" 82°28'52"	Wayne 42 NW	7.56	7.56	1358.25
Tug Fork	14.95	Bull Creek	Drag Creek	37°58'34" 82°27'57"	Wayne 41 NE 42 NW	3.37 9.24	12.61	1370.86
Drag Creek	0	Divide	Mouth	37°58'34" 82°27'57"	Wayne 42 NW	4.93	4.93	1375.79
Tug Fork	10.35	Drag Creek	Rockcastle Creek	38°00'06" 82°31'10"	Lawrence 42 NW 41 NE 62 SW 61 SE	5.55 2.52 1.31 0.22	9.60	1385.39

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Coldwater Fork	0	Blacklog Fork	Mouth	37°51'53" 82°32'31"	Martin			
					41 NE	1.73		
					41 SE	2.08	3.81	
							Total	[29.51]
							Coldwater Fork	(63.31)
Rockcastle Creek	12.78	Middle Fork	Rockhouse Fork	37°54'39" 82°33'11"	Martin			
					41 SE	2.56		
					41 NE	4.67	7.23	(70.54)
Rockhouse Fork	7.18	Divide	Stafford Fork	37°51'35" 82°35'52"	Martin			
					41 SW	5.78		
					41 SE	8.73	14.51	[14.51]
Stafford Fork	0	Divide	Mouth	37°51'35" 82°35'52"	Martin			
					41 SW	4.39		
					41 NE	0.10		
					41 SE	1.78	6.27	[20.78]
Rockhouse Fork	0	Stafford Fork	Mouth	37°54'39" 82°31'11"	Martin			
					41 SE	0.96		
					41 NE	6.96	7.92	
							Total	[28.70]
							Rockhouse Fork	(99.24)
Rockcastle Creek	0	Rockhouse Fork	Mouth	38°00'06" 82°31'10"	Lawrence			
					41 NE	20.95		
					61 SE	1.01	21.96	
							Total	(121.20)
							Rockcastle Creek	1506.59

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Tug Fork	10.00	Rockcastle Creek	Glenhayes gage	38°00'20" 82°30'53"	Wayne 61 SE	0.13	0.13	1506.72
Tug Fork	9.95	Glenhayes gage	Lost Creek	38°00'22" 82°30'53"	Wayne 61 SE	0.02	0.02	1506.74
Lost Creek	0	Divide	Mouth	38°00'22" 82°30'53"	Wayne 62 SW 61 SE	7.63 1.24	8.87	1515.61
Tug Fork	0.48	Lost Creek	Mill Creek	38°06'45" 82°35'40"	Wayne 62 SW 61 SE	0.01 17.86	17.87	1533.48
Right Fork Mill Creek	8.66	Divide	Left Fork	38°04'28" 82°30'25"	Wayne 62 SW 61 SE	7.22 0.72	7.94	(7.94)
Left Fork	0	Divide	Mouth	38°04'28" 82°30'25"	Wayne 62 SW 61 SE	1.16 4.40	5.56	(13.50)

Table 3.--Drainage areas of the Tug Fork basin (cont.)

STREAM	RIVER MILES	FROM	TO	LATITUDE LONGITUDE	COUNTY QUAD	AREA ON QUAD (sq. mi.)	SUMMATION OF PARTIAL AREAS (sq. mi.)	TOTAL AREA (sq. mi.)
Mill Creek	0	Right Fork	Mouth	38°06'45" 82°35'40"	Wayne			
					61 NE	0.78		
					61 SE	10.69	11.47	(24.97)
						Total	1558.45	
							Mill Creek	
Tug Fork	0	Mill Creek	Mouth	38°07'04" 82°36'02"	Wayne			
					61 NE	0.04		
					61 SE	0.28	0.32	1558.77

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