

01531908 Towanda Creek near Franklindale, PA

Upper Susquehanna Basin
 Upper Susquehanna-Tunkhannock Subbasin

LOCATION.--Lat 41°41'52", long 76°34'43" referenced to North American Datum of 1983, Bradford County, PA, Hydrologic Unit 02050106, on right bank, upstream side of steel truss bridge on Smith Road, 1.3 mi west of Franklindale, and 4 mi upstream from confluence with Schrader Creek.

DRAINAGE AREA.--112 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2010 to current year.

GAGE.--Water stage recorder and crest-stage gage. Datum of gage is 900 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at station.

COOPERATION.--Station established and maintained by the U S Geological Survey. . Funding for this station is provided by Talisman Energy USA, Inc.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 21	0715	*5,770	*9.71
Jan 31	0600	5,240	9.37

Minimum discharge, 1.4 ft³/s, Aug. 25, 26, minimum gage height, 3.21 ft, Oct 14, Aug 25, 26.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	27	214	20	117	552	215	195	73	42	732	21	2.6
2	22	151	20	111	271	133	142	61	35	963	20	2.1
3	21	118	20	e101	209	101	116	54	37	330	16	2.9
4	18	92	20	99	181	85	103	51	30	176	12	4.4
5	16	77	37	93	155	78	99	46	24	113	9.9	5.3
6	15	63	38	91	125	76	88	42	22	87	7.8	4.9
7	18	54	32	93	e112	69	80	51	23	65	7.8	4.7
8	18	48	74	91	99	69	75	53	25	58	8.5	4.2
9	15	43	71	87	95	66	73	69	22	67	10	3.6
10	13	e36	63	96	e94	99	78	53	23	56	10	3.6
11	12	e32	129	133	97	149	294	120	44	51	7.3	3.4
12	11	e29	99	563	94	1,180	524	102	38	43	5.4	4.6
13	11	e68	79	955	87	706	376	67	51	38	4.6	6.8
14	11	74	69	941	97	353	252	55	172	35	4.2	6.5
15	11	54	63	467	97	237	193	50	71	33	3.9	4.9
16	11	46	62	331	96	196	163	45	47	32	3.6	3.6
17	11	41	88	260	e70	163	275	41	39	30	3.5	3.5
18	11	38	732	198	e58	131	178	35	32	28	3.6	3.2
19	19	35	369	183	58	157	229	33	28	24	3.4	3.1
20	33	34	234	184	e50	172	351	34	23	22	3.3	2.9
21	27	33	2,480	e145	e45	127	203	29	21	20	3.0	2.8
22	21	30	629	e100	e40	105	163	25	19	19	2.6	7.6
23	22	29	334	e75	44	94	139	33	19	23	2.4	9.1
24	48	28	243	e70	45	87	126	65	23	24	2.3	8.4
25	43	26	199	e72	43	89	168	53	31	20	2.0	8.2
26	34	24	166	e72	44	90	120	37	26	17	1.7	7.8
27	29	24	220	e72	174	89	102	29	30	16	2.0	7.6
28	29	23	172	e74	333	84	91	41	124	21	2.1	7.2
29	321	22	140	e151	---	78	85	172	155	23	2.3	6.6
30	997	21	132	e501	---	75	83	90	69	19	2.2	6.1
31	391	---	119	2,910	---	83	---	55	---	17	2.4	---
Total	2,286	1,607	7,153	9,436	3,465	5,436	5,164	1,764	1,345	3,202	190.8	152.2
Mean	73.7	53.6	231	304	124	175	172	56.9	44.8	103	6.15	5.07
Max	997	214	2,480	2,910	552	1,180	524	172	172	963	21	9.1
Min	11	21	20	70	40	66	73	25	19	16	1.7	2.1
Cfsm	0.66	0.48	2.06	2.72	1.10	1.57	1.54	0.51	0.40	0.92	0.05	0.05
In.	0.76	0.53	2.38	3.13	1.15	1.81	1.72	0.59	0.45	1.06	0.06	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	227	131	265	189	126	367	414	168	50.8	38.2	8.46	211
Max	340	177	304	304	158	791	1,000	335	61.5	103	17.5	791
(WY)	(2012)	(2011)	(2011)	(2013)	(2011)	(2011)	(2011)	(2011)	(2012)	(2013)	(2011)	(2011)
Min	73.7	53.6	231	55.0	96.1	135	69.6	56.9	44.8	4.55	5.00	5.07
(WY)	(2013)	(2013)	(2013)	(2011)	(2012)	(2012)	(2012)	(2013)	(2013)	(2012)	(2012)	(2013)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2010 - 2013	
Annual total	32,839.4		41,201.0			
Annual mean	89.7		113		188	
Highest annual mean					328 2011	
Lowest annual mean					113 2013	
Highest daily mean	2,480	Dec 21	2,910	Jan 31	11,200	Sep 8, 2011
Lowest daily mean	1.2	Aug 9	1.7	Aug 26	0.67	Sep 11, 2010
Annual seven-day minimum	2.0	Aug 4	2.1	Aug 24	0.81	Sep 9, 2010
Maximum peak flow			5,770	Dec 21	^a 32,800 Sep 8, 2011	
Maximum peak stage			9.71	Dec 21	16.97	Sep 8, 2011
Instantaneous low flow			1.4	Aug 25 ^b	0.53	Sep 11, 2010
Annual runoff (cfsm)	0.801		1.01		1.68	
Annual runoff (inches)	10.91		13.68		22.84	
10 percent exceeds	188		217		382	
50 percent exceeds	44		51		73	
90 percent exceeds	4.6		4.9		5.8	

^a From rating curve extended above 6,800 ft³/s based on runoff comparison of peak flow with nearby stations.

^b Also Aug 26.

