03050000 TYGART VALLEY RIVER NEAR DAILEY, WV

Monongahela Basin
Tygart Valley Subbasin

LOCATION.--Lat 38°48′33″, long 79°52′55″ referenced to North American Datum of 1927, Randolph County, WV, Hydrologic Unit 05020001, on right bank, immediately downstream from highway bridge, 1,000 ft upstream from Stalnaker Run, 1.0 mi northeast of Dailey, 2.5 mi south of Beverly, and at mile 98.4.

DRAINAGE AREA.--185 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1915 to September 1975 (daily discharge and peaks), October 1975 to September 1976 (daily mean gage height and annual maxima), July 1988 to current year (daily discharge and peaks). Prior to October 1960, published as Tygart River near Dailey.

REVISED RECORDS.--WSP 873: 1932(M), WSP 1053: 1918(M), 1928(M), 1932, 1934-38. WSP 1305: 1924(M). WDR WV-97-1: Drainage area, 1976(M).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,940.56 ft above NAVD 88 (1,941.07 ft above NGVD 29). Prior to Sept. 27, 1928, nonrecording gage a few feet upstream at same datum. Sept. 27, 1928, to Dec. 16, 1941, nonrecording gage at site 50 ft upstream at same datum.

REMARKS.--Records good except those for periods of estimated daily discharges (ice effect), which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 5, 1985, reached a stage of 16.6 ft, from floodmarks, discharge, about 22,000 ft^3/s, highest since 1888.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 1	2100	4,590	9.80
Mar 1	0800	5,200	10.33
Mar 24	1930	4,770	9.97
Apr 13	1130	*7,800	*11.83
Apr 28	1930	6,380	11.11

Minimum discharge, 9.2 ft^3/s, Aug. 5, 6, gage height, 0.56 ft.

03050000 TYGART VALLEY RIVER NEAR DAILEY, WV—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

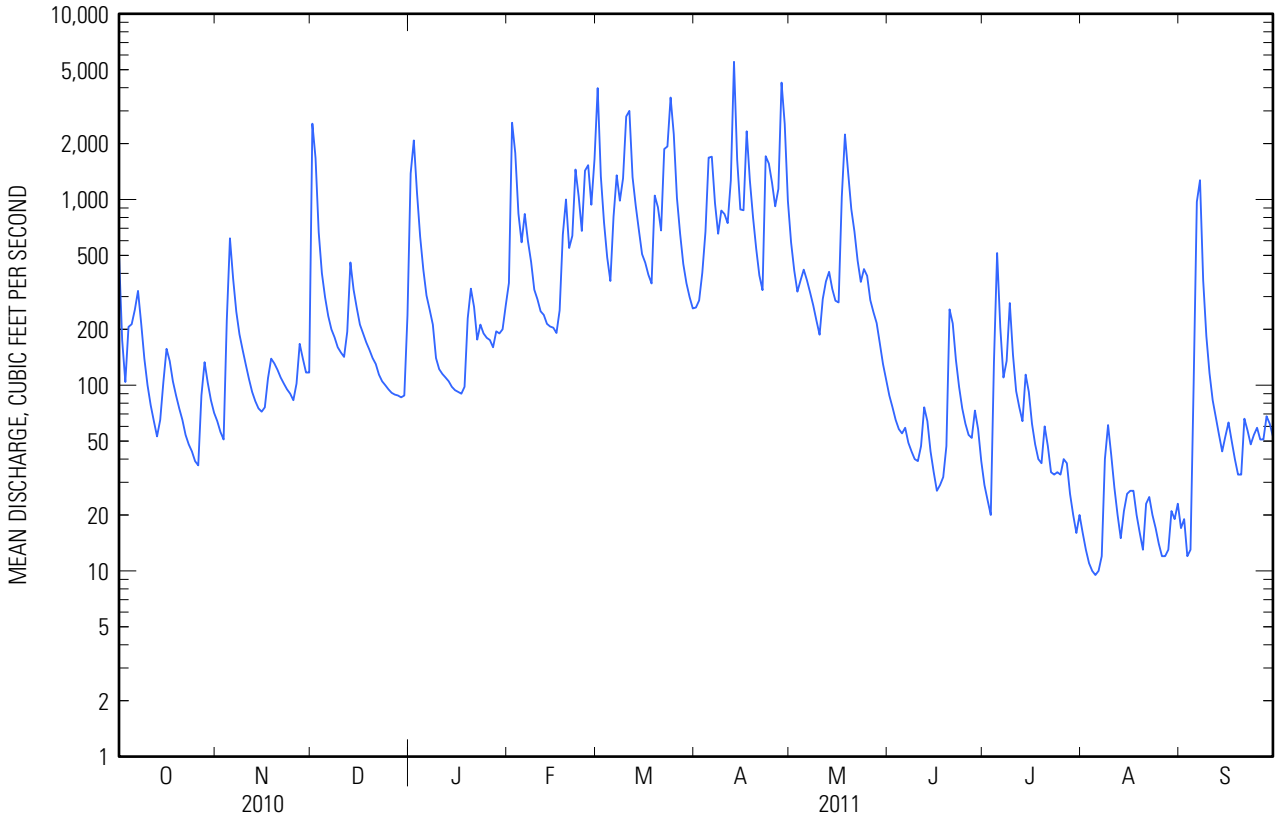
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	510	64	2,560	1,380	355	3,980	262	589	88	29	16	17
2	175	56	1,670	2,080	2,590	1,330	286	415	76	24	13	19
3	104	51	665	1,090	1,780	752	403	319	65	20	11	12
4	206	223	401	630	839	488	671	367	58	133	10	13
5	213	618	298	419	588	364	1,680	419	55	515	9.5	103
6	255	375	236	304	836	807	1,700	368	59	205	10	971
7	322	249	200	255	597	1,350	957	316	49	110	12	1,270
8	215	188	181	212	461	985	654	269	44	135	40	367
9	139	155	160	e140	327	1,300	872	223	40	277	61	184
10	100	129	e150	e122	290	2,800	835	187	39	146	42	116
11	78	108	142	e115	e250	3,000	746	291	47	93	28	83
12	64	92	194	e110	239	1,320	1,270	362	76	76	20	67
13	53	82	458	e105	214	926	5,510	408	64	64	15	54
14	65	75	327	e98	207	683	1,640	330	44	114	21	44
15	104	72	261	e94	204	508	884	285	34	92	26	53
16	157	76	212	e92	191	457	875	279	27	62	27	63
17	135	109	e190	e90	253	393	2,330	1,030	29	48	27	50
18	105	139	e170	98	646	353	1,270	2,240	32	40	20	40
19	88	131	e155	229	1,000	1,050	804	1,400	47	38	16	33
20	75	121	e140	331	548	909	544	888	256	60	13	33
21	65	110	e130	264	637	681	390	671	215	47	23	66
22	54	102	114	176	1,450	1,870	325	468	137	34	25	57
23	48	95	e105	212	1,040	1,930	1,710	360	98	33	20	48
24	44	90	e100	e190	677	3,540	1,560	422	75	34	17	54
25	39	83	e95	e180	1,430	2,250	1,230	388	62	33	14	59
26	37	102	e91	e175	1,530	1,020	919	287	54	40	12	51
27	88	167	e89	e160	937	655	1,140	247	52	38	12	51
28	133	139	e88	e195	1,650	450	4,260	216	73	26	13	68
29	103	117	e86	e190	---	354	2,550	168	58	20	21	62
30	83	117	e88	e200	---	298	982	130	39	16	19	53
31	71	---	238	269	---	259	---	107	---	20	23	---
Total	3,928	4,235	9,994	10,205	21,766	37,062	39,259	14,449	2,092	2,622	636.5	4,161
Mean	127	141	322	329	777	1,196	1,309	466	69.7	84.6	20.5	139
Max	510	618	2,560	2,080	2,590	3,980	5,510	2,240	256	515	61	1,270
Min	37	51	86	90	191	259	262	107	27	16	9.5	12
Cfsm	0.68	0.76	1.74	1.78	4.20	6.46	7.07	2.52	0.38	0.46	0.11	0.75
In.	0.79	0.85	2.01	2.05	4.38	7.45	7.89	2.91	0.42	0.53	0.13	0.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	123	244	451	551	587	722	537	457	234	161	149	88.1
Max	664	904	1,269	1,092	1,270	1,780	1,309	1,576	1,066	764	962	653
(WY)	(1938)	(2004)	(1973)	(1996)	(1994)	(1963)	(2011)	(1996)	(1928)	(1996)	(1942)	(2003)
Min	0.00	0.00	60.2	73.3	139	233	155	65.7	13.2	6.72	0.50	0.19
(WY)	(1931)	(1931)	(1966)	(1940)	(1941)	(2006)	(1921)	(1930)	(1991)	(1930)	(1930)	(1930)

03050000 TYGART VALLEY RIVER NEAR DAILEY, WV—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1915 - 2011	
Annual total	104,868.6		150,409.5			
Annual mean	287		412		358	
Highest annual mean					611	1996
Lowest annual mean					182	1941
Highest daily mean	4,220	Mar 12	5,510	Apr 13	11,700	May 17, 1996
Lowest daily mean	6.2	Sep 26	9.5	Aug 5	0.00	Sep 12, 1930 [a]
Annual seven-day minimum	7.8	Sep 21	12	Aug 1	0.00	Sep 12, 1930
Maximum peak flow			7,800	Apr 13	19,900	May 17, 1996
Maximum peak stage			11.83	Apr 13	[b] 17.20	Feb 4, 1932
Instantaneous low flow			9.2	Aug 5 [c]	0.00	Sep 12, 1930 [a]
Annual runoff (cfsm)	1.55		2.23		1.94	
Annual runoff (inches)	21.09		30.24		26.31	
10 percent exceeds	689		1,180		855	
50 percent exceeds	130		146		167	
90 percent exceeds	27		27		18	

[a] Also Sept. 13 to Nov. 30, 1930, Sept. 29 to Nov. 5, 1953.
[b] From floodmarks.
[c] Also Aug. 6.