



StreamStats Data-Collection Station Report

USGS Station Number 01457500
Station Name DELAWARE RIVER AT RIEGELSVILLE NJ

[Click here to link to available data on NWIS-Web for this site.](#)

Descriptive Information

Station Type	Gaging Station, continuous record
Location	
Gage	
Regulation and Diversions	
Regulated?	True
Period of Record	
Remarks	
Latitude (degrees NAD83)	40.59472
Longitude (degrees NAD83)	-75.19
Hydrologic unit code	02040105
County	041-Warren
HCDN2009	No

Physical Characteristics

Characteristic Name	Value	Units	Citation Number
Physical Characteristics			
Contributing_Drainage_Area	6328.00	square miles	31
Drainage_Area	6328.00	square miles	31
Main_Channel_Length	226.400	miles	31
Mean_Basin_Elevation	955.000	feet	31
Percent_Forest	70.000	percent	31
Percent_Glaciers	0.0000	percent	31
Percent_Storage	2.3000	percent	31
Soil_Infiltration	3.2000	inches	31
Stream_Slope_10_and_85_Method	5.3000	feet per mi	31
Precipitation Statistics			
24_Hour_2_Year_Precipitation	3.1000	inches	31
Mean_Annual_Precipitation	44.000	inches	31
Temperature Statistics			
Mean_Min_January_Temperature	16.000	degrees F	31

Streamflow Statistics

Statistic Name	Value	Units	Citation Number	Preferred?	Years of Record	Standard Error, percent	Variance log-10	Lower 95% Confidence Interval	Upper 95% Confidence Interval	Start Date	End Date	Remarks
Peak-Flow Statistics												
Mean_Annual_Flood	66500.0	cubic feet per second	31	Y								
2_Year_Peak_Flood	93800.0	cubic feet per second	31	Y								
5_Year_Peak_Flood	129000	cubic feet per second	31	Y								

10_Year_Peak_Flood	151000	cubic feet per second	31	Y										
25_Year_Peak_Flood	177000	cubic feet per second	31	Y										
50_Year_Peak_Flood	195000	cubic feet per second	31	Y										
100_Year_Peak_Flood	212000	cubic feet per second	31	Y										
200_Year_Peak_Flood	229000	cubic feet per second	31	Y										
500_Year_Peak_Flood	251000	cubic feet per second	31	Y										
Log_Mean_of_Annual_Peaks	4.9590	Log base 10	31	Y										
Log_STD_of_Annual_Peaks	0.1660	Log base 10	31	Y										
Log_Skew_of_Annual_Peaks	-0.6370	Log base 10	31	Y										
WRC_Mean	4.9640	Log base 10	31	Y										
WRC_STD	0.1710	Log base 10	31	Y										
WRC_Skew	-0.2840	Log base 10	31	Y										
Systematic_peak_years	83.000	years	31	Y										
Peak_years_with_historic_adjustment	298.000	years	31	Y										

Flood-Volume Statistics

1_Day_2_Year_Maximum	67355.9	cubic feet per second	81	Y										
1_Day_20_Year_Maximum	163137.0	cubic feet per second	81	Y										
1_Day_5_Year_Maximum	104063.0	cubic feet per second	81	Y										
1_Day_10_Year_Maximum	132556.0	cubic feet per second	81	Y										
1_Day_25_Year_Maximum	173536.0	cubic feet per second	81	Y										
1_Day_50_Year_Maximum	207822.0	cubic feet per second	81	Y										
1_Day_100_Year_Maximum	245455.0	cubic feet per second	81	Y										
3_Day_2_Year_Maximum	56833.6	cubic feet per second	81	Y										
3_Day_5_Year_Maximum	85760.5	cubic feet per second	81	Y										
3_Day_10_Year_Maximum	107979.0	cubic feet per second	81	Y										
3_Day_20_Year_Maximum	131669.0	cubic feet per second	81	Y										
3_Day_25_Year_Maximum	139695.0	cubic feet per second	81	Y										
3_Day_50_Year_Maximum	166072.0	cubic feet per second	81	Y										
3_Day_100_Year_Maximum	194897.0	cubic feet per second	81	Y										
7_Day_2_Year_Maximum	45139.1	cubic feet per second	81	Y										
7_Day_5_Year_Maximum	62265.6	cubic feet per second	81	Y										
7_Day_10_Year_Maximum	73646.2	cubic feet per second	81	Y										
7_Day_20_Year_Maximum	84584.7	cubic feet per second	81	Y										
7_Day_25_Year_Maximum	88064.9	cubic feet per second	81	Y										
7_Day_50_Year_Maximum	98836.6	cubic feet per second	81	Y										
7_Day_100_Year_Maximum	109638.0	cubic feet per second	81	Y										
15_Day_2_Year_Maximum	35094.8	cubic feet per second	81	Y										
15_Day_5_Year_Maximum	44750.4	cubic feet per second	81	Y										
15_Day_10_Year_Maximum	49923.3	cubic feet per second	81	Y										

15_Day_20_Year_Maximum	54172.8	cubic feet per second	81	Y										
15_Day_25_Year_Maximum	55398.7	cubic feet per second	81	Y										
15_Day_50_Year_Maximum	58862.4	cubic feet per second	81	Y										
15_Day_100_Year_Maximum	61900.8	cubic feet per second	81	Y										
30_Day_2_Year_Maximum	26878.9	cubic feet per second	31	Y										
30_Day_5_Year_Maximum	32695.9	cubic feet per second	81	Y										
30_Day_10_Year_Maximum	35493.6	cubic feet per second	31	Y										
30_Day_20_Year_Maximum	32249.4	cubic feet per second	81	Y										
30_Day_25_Year_Maximum	38203.9	cubic feet per second	81	Y										
30_Day_50_Year_Maximum	39781.2	cubic feet per second	81	Y										
30_Day_100_Year_Maximum	38284.1	cubic feet per second	81	Y										

Low-Flow Statistics

1_Day_2_Year_Low_Flow	2359.51	cubic feet per second	81	Y										
1_Day_10_Year_Low_Flow	1461.23	cubic feet per second	81	Y										
1_Day_20_Year_Low_Flow	1256.54	cubic feet per second	81	Y										
3_Day_2_Year_Low_Flow	2490.00	cubic feet per second	81	Y										
3_Day_10_Year_Low_Flow	1550.72	cubic feet per second	81	Y										
3_Day_20_Year_Low_Flow	1336.44	cubic feet per second	81	Y										
7_Day_2_Year_Low_Flow	2652.98	cubic feet per second	81	Y										
7_Day_5_Year_Low_Flow	1966.79	cubic feet per second	81	Y										
7_Day_10_Year_Low_Flow	1661.20	cubic feet per second	81	Y										
7_Day_20_Year_Low_Flow	1435.49	cubic feet per second	81	Y										
14_Day_2_Year_Low_Flow	2799.35	cubic feet per second	81	Y										
14_Day_10_Year_Low_Flow	1731.41	cubic feet per second	81	Y										
14_Day_20_Year_Low_Flow	1494.42	cubic feet per second	81	Y										
30_Day_2_Year_Low_Flow	2992.48	cubic feet per second	81	Y										
30_Day_5_Year_Low_Flow	1824.00	cubic feet per second	81	Y										
30_Day_10_Year_Low_Flow	1879.15	cubic feet per second	81	Y										
30_Day_20_Year_Low_Flow	1630.71	cubic feet per second	81	Y										
90_Day_2_Year_Low_Flow	3606.64	cubic feet per second	81	Y										
90_Day_10_Year_Low_Flow	2186.33	cubic feet per second	81	Y										
90_Day_20_Year_Low_Flow	1871.37	cubic feet per second	81	Y										
Low_flow_years	46	years	81	Y										

Flow-Duration Statistics

1_Percent_Duration	55900	cubic feet per second	41	Y	65									
5_Percent_Duration	31000	cubic feet per second	41	Y	65									

10_Percent_Duration	20200	cubic feet per second	81	Y											
20_Percent_Duration	15500	cubic feet per second	41	Y	65										
25_Percent_Duration	11800	cubic feet per second	81	Y											
30_Percent_Duration	11700	cubic feet per second	41	Y	65										
40_Percent_Duration	9150	cubic feet per second	41	Y	65										
50_Percent_Duration	6440	cubic feet per second	81	Y											
60_Percent_Duration	5760	cubic feet per second	41	Y	65										
70_Percent_Duration	4510	cubic feet per second	81	Y											
75_Percent_Duration	4150	cubic feet per second	81	Y											
80_Percent_Duration	3500	cubic feet per second	41	Y	65										
90_Percent_Duration	2760	cubic feet per second	81	Y											
95_Percent_Duration	2260	cubic feet per second	81	Y											
99_Percent_Duration	1470	cubic feet per second	41	Y	65										

Annual Flow Statistics

Mean_Annual_Flow	9693	cubic feet per second	81	Y											
Daily_flow_years	17.000	years	31	Y											
Stand_Dev_of_Mean_Annual_Flow	2514.00	cubic feet per second	31	Y											

Monthly Flow Statistics

January_Mean_Flow	8552.00	cubic feet per second	31	Y											
January_STD	3238.00	cubic feet per second	31	Y											
February_Mean_Flow	10700.0	cubic feet per second	31	Y											
February_STD	3741.00	cubic feet per second	31	Y											
March_Mean_Flow	17090.0	cubic feet per second	31	Y											
March_STD	5125.00	cubic feet per second	31	Y											
April_Mean_Flow	21220.0	cubic feet per second	31	Y											
April_STD	9050.00	cubic feet per second	31	Y											
May_Mean_Flow	11310.0	cubic feet per second	31	Y											
May_STD	4283.00	cubic feet per second	31	Y											
June_Mean_Flow	6834.00	cubic feet per second	31	Y											
June_STD	4081.00	cubic feet per second	31	Y											
July_Mean_Flow	4664.00	cubic feet per second	31	Y											
July_STD	2344.00	cubic feet per second	31	Y											
August_Mean_Flow	6437.00	cubic feet per second	31	Y											
August_STD	6637.00	cubic feet per second	31	Y											
September_Mean_Flow	5026.00	cubic feet per second	31	Y											
September_STD	3828.00	cubic feet per second	31	Y											

October_Mean_Flow	6117.00	cubic feet per second	31	Y								
October_STD	6139.00	cubic feet per second	31	Y								
November_Mean_Flow	8801.00	cubic feet per second	31	Y								
November_STD	5049.00	cubic feet per second	31	Y								
December_Mean_Flow	9759.00	cubic feet per second	31	Y								
December_STD	4811.00	cubic feet per second	31	Y								
Seasonal Flow Statistics												
Winter_7_Day_10_Year_Low_Flow	2250	cubic feet per second	81	Y								
General Flow Statistics												
Minimum_daily_flow	906	cubic feet per second	41	Y	65							
Maximum_daily_flow	228000	cubic feet per second	41	Y	65							
Std_Dev_of_daily_flows	11489.88	cubic feet per second	41	Y	65							
Average_daily_streamflow	10802.612	cubic feet per second	41	Y	65							
Base Flow Statistics												
Number_of_years_to_compute_BFI	65	years	42	Y	65							
Average_BFI_value	0.597	dimensionless	42	Y	65							
Std_dev_of_annual_BFI_values	0.056	dimensionless	42	Y	65							

Citations

Citation Number	Citation Name and URL
31	Imported from Basin Characteristics file
41	Wolock, D.M., 2003, Flow characteristics at U.S. Geological Survey streamgages in the conterminous United States: U.S. Geological Survey Open-File Report 03-146, digital data set
42	Wolock, D.M., 2003, Base-flow index grid for the conterminous United States: U.S. Geological Survey Open-File Report 03-263, digital data set
81	Watson, K.M., Reiser, R.G., Nieswand, S.P., and Schopp, R.D., 2005, Streamflow characteristics and trends in New Jersey, water years 1897-2003, U.S. Geological Survey Scientific Investigations Report 2005-5105, 131 p.