

STREAMSTATS DOCUMENTATION

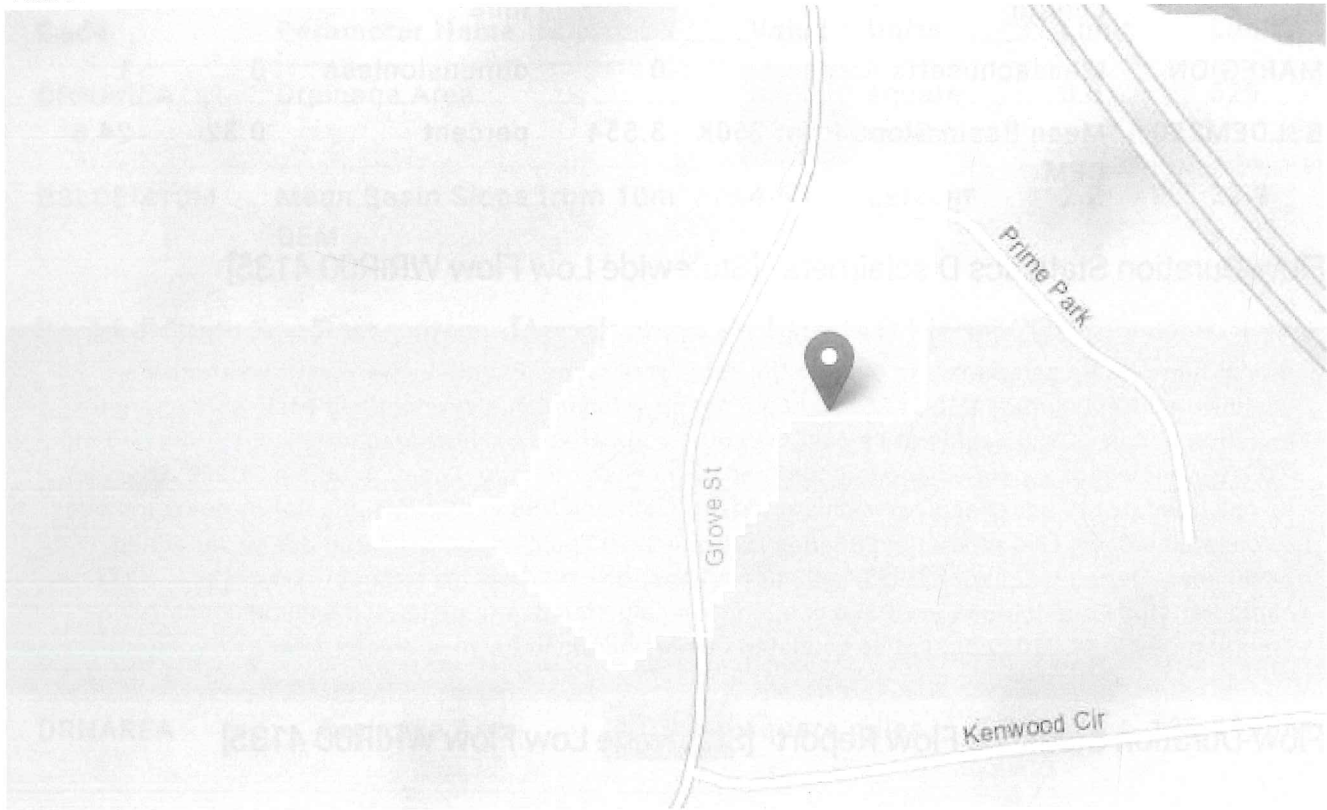
StreamStats Report - Stream 1

Region ID: MA

Workspace ID: MA20220512134456186000

Clicked Point (Latitude, Longitude): 42.07497, -71.42195

Time: 2022-05-12 09:45:17 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLDEM10M	Mean basin slope computed from 10 m DEM	4.58	percent
BSLDEM250	Mean basin slope computed from 1:250K DEM	3.554	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	-100000	square mile per mile
DRNAREA	Area that drains to a point on a stream	0.0365	square miles
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless

Statistic	Value	Unit
Bankfull Streamflow	2.18	ft ³ /s

Bankfull Statistics Disclaimers [Appalachian Highlands D Bieger 2015]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	3.85	ft
Bieger_D_channel_depth	0.433	ft
Bieger_D_channel_cross_sectional_area	1.68	ft ²

Bankfull Statistics Disclaimers [New England P Bieger 2015]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Bankfull Statistics Flow Report [New England P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	10	ft
Bieger_P_channel_depth	0.664	ft
Bieger_P_channel_cross_sectional_area	6.4	ft ²

Bankfull Statistics Disclaimers [USA Bieger 2015]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	3.86	ft
Bieger_USA_channel_depth	0.596	ft
Bieger_USA_channel_cross_sectional_area	2.86	ft ²

Bankfull Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
Bankfull Width	3.78	ft
Bankfull Depth	0.345	ft
Bankfull Area	1.28	ft ²
Bankfull Streamflow	2.18	ft ³ /s
Bieger_D_channel_width	3.85	ft
Bieger_D_channel_depth	0.433	ft
Bieger_D_channel_cross_sectional_area	1.68	ft ²
Bieger_P_channel_width	10	ft
Bieger_P_channel_depth	0.664	ft
Bieger_P_channel_cross_sectional_area	6.4	ft ²
Bieger_USA_channel_width	3.86	ft
Bieger_USA_channel_depth	0.596	ft
Bieger_USA_channel_cross_sectional_area	2.86	ft ²

Bankfull Statistics Citations

Bent, G.C., and Waite, A.M., 2013, Equations for estimating bankfull channel geometry and discharge for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2013-5155, 62 p., (<http://pubs.usgs.gov/sir/2013/5155/>)

Bieger, Katrin; Rathjens, Hendrik; Allen, Peter M.; and Arnold, Jeffrey G., 2015, Development and Evaluation of Bankfull Hydraulic Geometry Relationships for the Physiographic Regions of the United States, Publications from USDA-ARS / UNL Faculty, 17p. (https://digitalcommons.unl.edu/usdaarsfacpub/1515?utm_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm_medium=PDF&utm_can)

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Application Version: 4.8.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2

StreamStats Report - Stream 2

Region ID: MA

Workspace ID: MA20220512133914161000

Clicked Point (Latitude, Longitude): 42.07895, -71.42210

Time: 2022-05-12 09:39:34 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLDEM10M	Mean basin slope computed from 10 m DEM	6.898	percent
BSLDEM250	Mean basin slope computed from 1:250K DEM	4.965	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	-100000	square mile per mile
DRNAREA	Area that drains to a point on a stream	0.11	square miles
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless

Flow-Duration Statistics Parameters [Statewide Low Flow WRIR00 4135]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.11	square miles	1.61	149
DRFTPERSTR	Stratified Drift per Stream Length	-100000	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1
BSLDEM250	Mean Basin Slope from 250K DEM	4.965	percent	0.32	24.6

Flow-Duration Statistics Disclaimers [Statewide Low Flow WRIR00 4135]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors. Equation D60 in GC320 could not be calculated due to undefined basin characteristic. Equation D70 in GC320 could not be calculated due to undefined basin characteristic. Equation D75 in GC320 could not be calculated due to undefined basin characteristic. Equation D80 in GC320 could not be calculated due to undefined basin characteristic. Equation D85 in GC320 could not be calculated due to undefined basin characteristic. Equation D90 in GC320 could not be calculated due to undefined basin characteristic. Equation D95 in GC320 could not be calculated due to undefined basin characteristic. Equation D98 in GC320 could not be calculated due to undefined basin characteristic. Equation D99 in GC320 could not be calculated due to undefined basin characteristic.

Flow-Duration Statistics Flow Report [Statewide Low Flow WRIR00 4135]

Statistic	Value	Unit
50 Percent Duration	0.101	ft ³ /s
60 Percent Duration	undefined	ft ³ /s
70 Percent Duration	undefined	ft ³ /s
75 Percent Duration	undefined	ft ³ /s
80 Percent Duration	undefined	ft ³ /s
85 Percent Duration	undefined	ft ³ /s
90 Percent Duration	undefined	ft ³ /s
95 Percent Duration	undefined	ft ³ /s
98 Percent Duration	undefined	ft ³ /s
99 Percent Duration	undefined	ft ³ /s

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (<http://pubs.usgs.gov/wri/wri004135/>)

Bankfull Statistics Parameters [Bankfull Statewide SIR2013 5155]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.11	square miles	0.6	329
BSLDEM10M	Mean Basin Slope from 10m DEM	6.898	percent	2.2	23.9

Bankfull Statistics Parameters [Appalachian Highlands D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.11	square miles	0.07722	940.1535

Bankfull Statistics Parameters [New England P Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.11	square miles	3.799224	138.999861

Bankfull Statistics Parameters [USA Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.11	square miles	0.07722	59927.7393

Bankfull Statistics Disclaimers [Bankfull Statewide SIR2013 5155]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Bankfull Statistics Flow Report [Bankfull Statewide SIR2013 5155]

Statistic	Value	Unit
Bankfull Width	6.27	ft
Bankfull Depth	0.501	ft
Bankfull Area	3.09	ft ²

Statistic	Value	Unit
Bankfull Streamflow	6.85	ft ³ /s

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	6.08	ft
Bieger_D_channel_depth	0.595	ft
Bieger_D_channel_cross_sectional_area	3.65	ft ²

Bankfull Statistics Disclaimers [New England P Bieger 2015]

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Bankfull Statistics Flow Report [New England P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	13.6	ft
Bieger_P_channel_depth	0.846	ft
Bieger_P_channel_cross_sectional_area	11.2	ft ²

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	5.69	ft
Bieger_USA_channel_depth	0.753	ft
Bieger_USA_channel_cross_sectional_area	5.19	ft ²

Bankfull Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
Bankfull Width	6.27	ft
Bankfull Depth	0.501	ft
Bankfull Area	3.09	ft ²
Bankfull Streamflow	6.85	ft ³ /s
Bieger_D_channel_width	6.08	ft

Statistic	Value	Unit
Bieger_D_channel_depth	0.595	ft
Bieger_D_channel_cross_sectional_area	3.65	ft^2
Bieger_P_channel_width	13.6	ft
Bieger_P_channel_depth	0.846	ft
Bieger_P_channel_cross_sectional_area	11.2	ft^2
Bieger_USA_channel_width	5.69	ft
Bieger_USA_channel_depth	0.753	ft
Bieger_USA_channel_cross_sectional_area	5.19	ft^2

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