

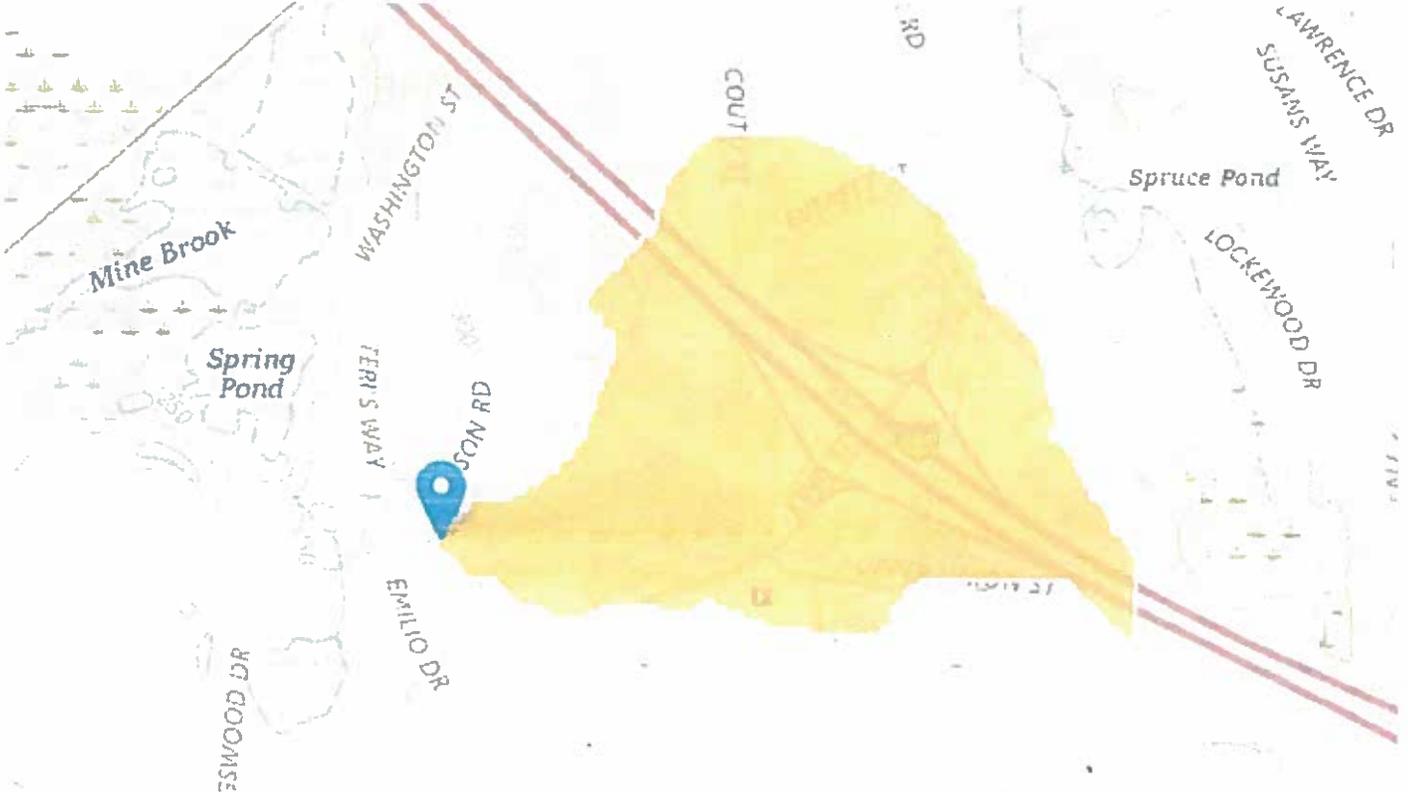
StreamStats Report

Region ID: MA

Workspace ID: MA20250708200735369000

Clicked Point (Latitude, Longitude): 42.06303, -71.41042

Time: 2025-07-08 16:07:57 -0400



*Peak Flow @
Bank Full*

Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLDEM10M	Mean basin slope computed from 10 m DEM	4.019	percent
DRNAREA	Area that drains to a point on a stream	0.26	square miles

*0.50 Sq Mi needed to be
River*

➤ Bankfull Statistics

Bankfull Statistics Parameters [Bankfull Statewide SIR2013 5155]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
BSLDEM10M	Mean Basin Slope from 10m DEM	4.019	percent	2.2	23.9
DRNAREA	Drainage Area	0.26	square miles	0.6	329

Bankfull Statistics Parameters [Appalachian Highlands D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.26	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	0.26	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	0.26	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	8.01	ft
Bankfull Depth	0.597	ft
Bankfull Area	4.7	ft ²
Bankfull Streamflow	8.66	ft ³ /s

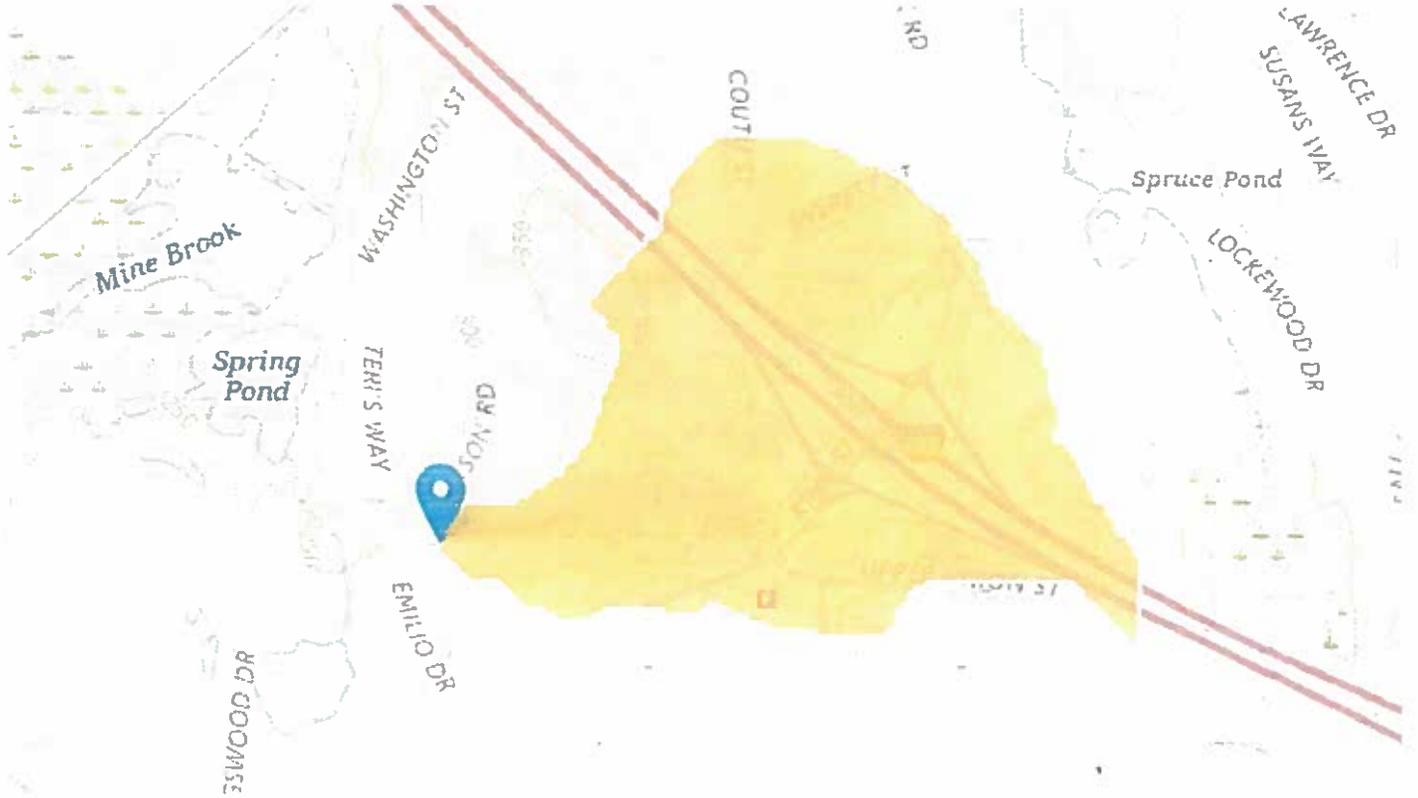
StreamStats Report

Region ID: MA

Workspace ID: MA20250708195147215000

Clicked Point (Latitude, Longitude): 42.06304, -71.41049

Time: 2025-07-08 15:52:11 -0400



Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.26	square miles
ELEV	Mean Basin Elevation	344	feet
LC06STOR	Percentage of water bodies and wetlands determined from the NLCD 2006	0	percent

➤ Peak-Flow Statistics

Peak-Flow Statistics Parameters [Peak Statewide 2016 5156]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.26	square miles	0.16	512
ELEV	Mean Basin Elevation	344	feet	80.6	1948
LC06STOR	Percent Storage from NLCD2006	0	percent	0	32.3

Peak-Flow Statistics Flow Report [Peak Statewide 2016 5156]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR²: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	PIL	PIU	ASEp
50-percent AEP flood	16.8	ft ³ /s	8.44	33.4	42.3
20-percent AEP flood	28.6	ft ³ /s	14.1	57.8	43.4
10-percent AEP flood	38.3	ft ³ /s	18.5	79.5	44.7
4-percent AEP flood	52.6	ft ³ /s	24.4	113	47.1
2-percent AEP flood	64.7	ft ³ /s	29.1	144	49.4
1-percent AEP flood	77.6	ft ³ /s	33.7	179	51.8
0.5-percent AEP flood	92	ft ³ /s	38.7	219	54.1
0.2-percent AEP flood	113	ft ³ /s	45.3	282	57.6

Peak-Flow Statistics Citations

Zarriello, P.J., 2017, Magnitude of flood flows at selected annual exceedance probabilities for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2016-5156, 99 p. (<https://dx.doi.org/10.3133/sir20165156>)

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