

**APPENDIX 6.2:**  
**StreamStats Hydrologic Analysis**

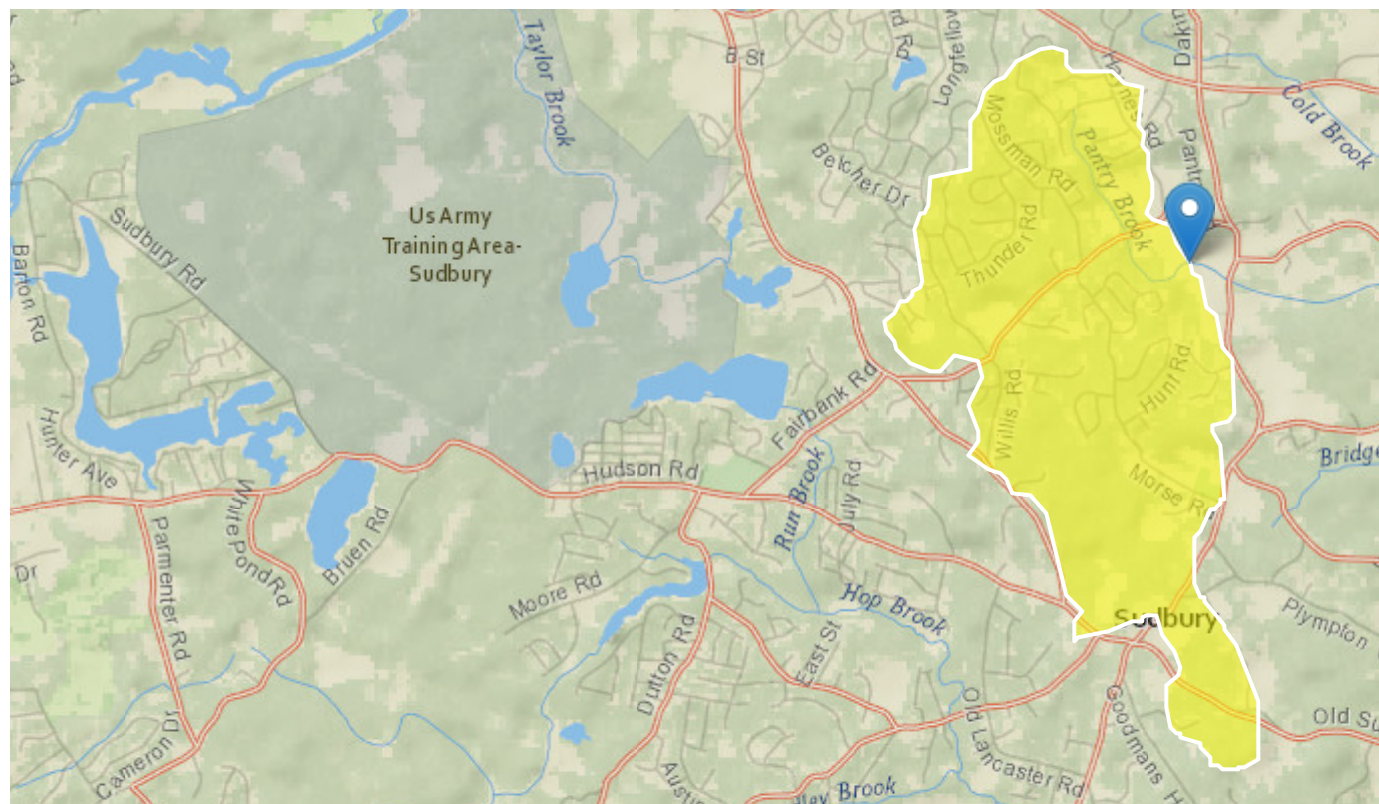
# StreamStats Report

Region ID: MA

Workspace ID: MA20200407143616931000

Clicked Point (Latitude, Longitude): 42.40661, -71.40766

Time: 2020-04-07 10:36:34 -0400



## Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2.53	square miles
PCTSNDGRV	Percentage of land surface underlain by sand and gravel deposits	32.71	percent
FOREST	Percentage of area covered by forest	17.96	percent
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless
ELEV	Mean Basin Elevation	191	feet
LC06STOR	Percentage of water bodies and wetlands determined from the NLCD 2006	11.85	percent

Peak-Flow Statistics Parameters<sup>[Peak Statewide 2016 5156]</sup>

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.53	square miles	0.16	512
ELEV	Mean Basin Elevation	191	feet	80.6	1948
LC06STOR	Percent Storage from NLCD2006	11.85	percent	0	32.3

Peak-Flow Statistics Flow Report<sup>[Peak Statewide 2016 5156]</sup>

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	Plu	SEp
2 Year Peak Flood	71.4	ft <sup>3</sup> /s	36.4	140	42.3
5 Year Peak Flood	118	ft <sup>3</sup> /s	59.5	234	43.4
10 Year Peak Flood	155	ft <sup>3</sup> /s	76.3	315	44.7
25 Year Peak Flood	208	ft <sup>3</sup> /s	99.1	439	47.1
50 Year Peak Flood	253	ft <sup>3</sup> /s	116	549	49.4
100 Year Peak Flood	300	ft <sup>3</sup> /s	134	671	51.8
200 Year Peak Flood	350	ft <sup>3</sup> /s	152	809	54.1
500 Year Peak Flood	423	ft <sup>3</sup> /s	175	1020	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>)**

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.3.11