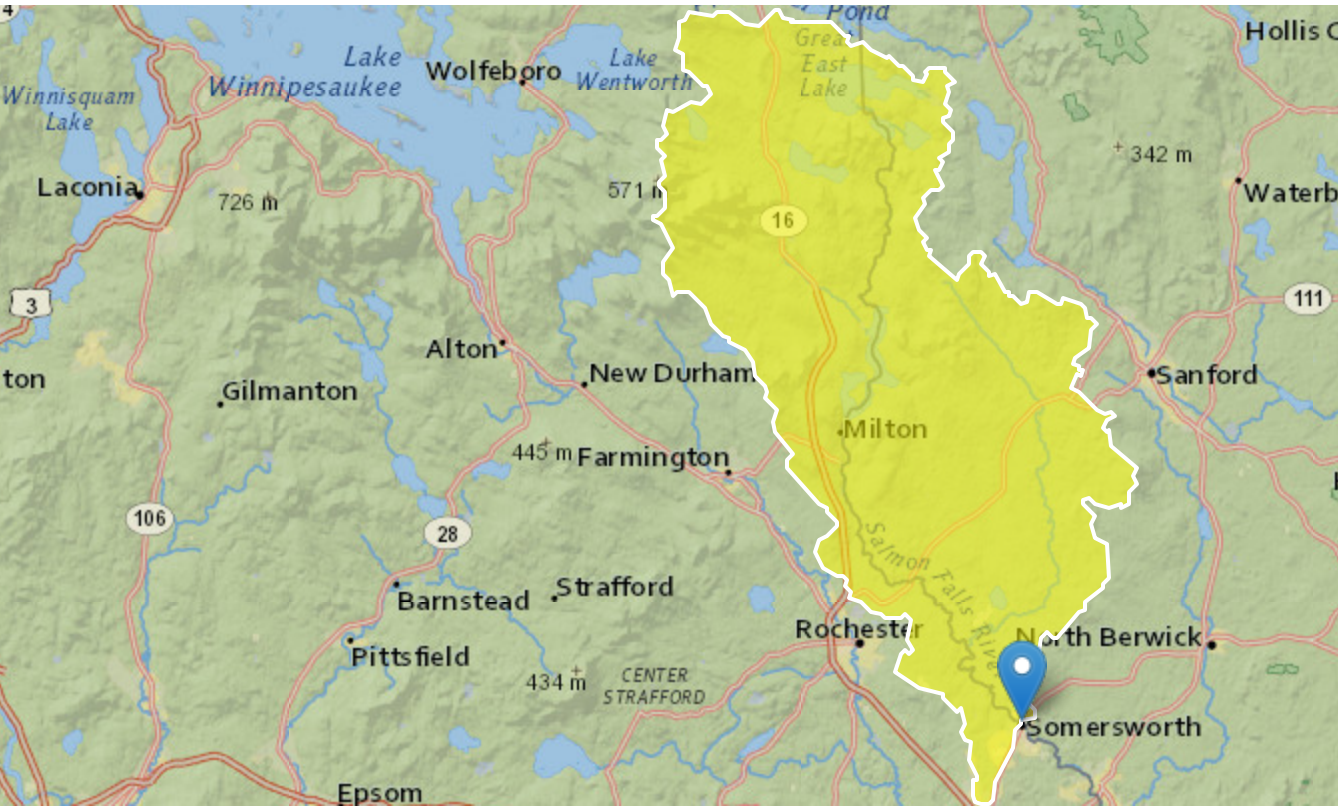


StreamStats Report

Region ID: NH
Workspace ID: NH20240520022306368000
Clicked Point (Latitude, Longitude): 43.26550, -70.86411
Time: 2024-05-19 22:23:31 -0400



 Collapse All

 Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
APRAVPRE	Mean April Precipitation	4.356	inches
BSLDEM30M	Mean basin slope computed from 30 m DEM	6.331	percent
CENTROIDX	Basin centroid horizontal (x) location in state plane coordinates	1173659	meters
CENTROIDY	Basin centroid vertical (y) location in state plane units	345912.5	meters

Parameter Code	Parameter Description	Value	Unit
CONIF	Percentage of land surface covered by coniferous forest	21.1403	percent
CSL10_85	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	11.1	feet per mi
DRNAREA	Area that drains to a point on a stream	221.69	square miles
ELEVMAX	Maximum basin elevation	1824.955	feet
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	9.12	percent
LC11IMP	Average percentage of impervious area determined from NLCD 2011 impervious dataset	1.96	percent
MINTEMP_W	Mean winter minimum air temperature over basin surface area	15.04	degrees F
MIXFOR	Percentage of land area covered by mixed deciduous and coniferous forest	33.5971	percent
OUTLETX	Basin outlet horizontal (x) location in state plane coordinates	1198005	feet
OUTLETY	Basin outlet vertical (y) location in state plane coordinates	280035	feet
PREBC0103	Mean annual precipitation of basin centroid for January 1 to March 15 winter period	9.92	inches
PREBC_1112	Mean annual precipitation of basin centroid for November 1 to December 31 period	10.2	inches
PRECIPCENT	Mean Annual Precip at Basin Centroid	50.1	inches
PRECIPOUT	Mean annual precip at the stream outlet (based on annual PRISM precip data in inches from 1971-2000)	44.2	inches
PREG_03_05	Mean precipitation at gaging station location for March 16 to May 31 spring period	9.6	inches
PREG_06_10	Mean precipitation at gaging station location for June to October summer period	17.4	inches
SNOFALL	Mean Annual Snowfall	79.135	inches

Parameter Code	Parameter Description	Value	Unit
TEMP	Mean Annual Temperature	45.856	degrees F
TEMP_06_10	Basinwide average temperature for June to October summer period	62.079	degrees F
WETLAND	Percentage of Wetlands	11.7473	percent

General Disclaimers

The delineation point is in an exclusion area. WARNING! This river is regulated. The regression equations may not apply.

➤ Peak-Flow Statistics

Peak-Flow Statistics Parameters [Peak Flow Statewide SIR2008 5206]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	221.69	square miles	0.7	1290
APRAVPRE	Mean April Precipitation	4.356	inches	2.79	6.23
WETLAND	Percent Wetlands	11.7473	percent	0	21.8
CSL10_85	Stream Slope 10 and 85 Method	11.1	feet per mi	5.43	543

Peak-Flow Statistics Flow Report [Peak Flow Statewide SIR2008 5206]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIL	PIU	ASEp	Equiv. Yrs.
50-percent AEP flood	3530	ft^3/s	2170	5740	30.1	3.2
20-percent AEP flood	5330	ft^3/s	3240	8770	31.1	4.7
10-percent AEP flood	6730	ft^3/s	4020	11300	32.3	6.2

Statistic	Value	Unit	PIL	PIU	ASEp	Equiv. Yrs.
4-percent AEP flood	8460	ft ³ /s	4890	14600	34.3	8
2-percent AEP flood	9840	ft ³ /s	5520	17500	36.4	9
1-percent AEP flood	11500	ft ³ /s	6240	21200	38.6	9.8
0.2-percent AEP flood	15200	ft ³ /s	7620	30300	44.1	11

Peak-Flow Statistics Citations

Olson, S.A.,2009, Estimation of flood discharges at selected recurrence intervals for streams in New Hampshire: U.S.Geological Survey Scientific Investigations Report 2008-5206, 57 p. (<http://pubs.usgs.gov/sir/2008/5206/>)

➤ Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Statewide]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	221.69	square miles	3.26	689
TEMP	Mean Annual Temperature	45.856	degrees F	36	48.7
PREG_06_10	Jun to Oct Gage Precipitation	17.4	inches	16.5	23.1

Low-Flow Statistics Flow Report [Low Flow Statewide]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIL	PIU	SE	ASEp
7 Day 2 Year Low Flow	23.8	ft ³ /s	8.6	50.3	55.7	55.7
7 Day 10 Year Low Flow	13.6	ft ³ /s	3.2	35.5	79.4	79.4

Low-Flow Statistics Citations

Flynn, R.H. and Tasker, G.D.,2002, Development of Regression Equations to Estimate Flow Durations and Low-Flow-Frequency Statistics in New Hampshire Streams: U.S.Geological Survey Scientific Investigations Report 02-4298, 66 p. (<http://pubs.water.usgs.gov/wrir02-4298>)

➤ Flow-Duration Statistics

Flow-Duration Statistics Parameters [Low Flow Statewide]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	221.69	square miles	3.26	689
PREG_06_10	Jun to Oct Gage Precipitation	17.4	inches	16.5	23.1
TEMP	Mean Annual Temperature	45.856	degrees F	36	48.7

Flow-Duration Statistics Flow Report [Low Flow Statewide]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIL	PIU	SE	ASEp
60 Percent Duration	150	ft ³ /s	110	199	18	18
70 Percent Duration	99.3	ft ³ /s	68.9	138	20.6	20.6
80 Percent Duration	63.5	ft ³ /s	38.5	98.3	28	28
90 Percent Duration	35.8	ft ³ /s	18.2	63	37.5	37.5
95 Percent Duration	23.9	ft ³ /s	10.8	45.6	44.1	44.1
98 Percent Duration	16.9	ft ³ /s	6.36	36.1	54.3	54.3

Flow-Duration Statistics Citations

Flynn, R.H. and Tasker, G.D.,2002, Development of Regression Equations to Estimate Flow Durations and Low-Flow-Frequency Statistics in New Hampshire Streams: U.S.Geological Survey Scientific Investigations Report 02-4298, 66 p.
(<http://pubs.water.usgs.gov/wrir02-4298>)

➤ Seasonal Flow Statistics

Seasonal Flow Statistics Parameters [Low Flow Statewide]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
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Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	221.69	square miles	3.26	689
CONIF	Percent Coniferous Forest	21.1403	percent	3.07	56.2
PREBC0103	Jan to Mar Basin Centroid Precip	9.92	inches	5.79	15.1
BSLDEM30M	Mean Basin Slope from 30m DEM	6.331	percent	3.19	38.1
MIXFOR	Percent Mixed Forest	33.5971	percent	6.21	46.1
PREG_03_05	Mar to May Gage Precipitation	9.6	inches	6.83	11.5
TEMP	Mean Annual Temperature	45.856	degrees F	36	48.7
TEMP_06_10	Jun to Oct Mean Basinwide Temp	62.079	degrees F	52.9	64.4
PREG_06_10	Jun to Oct Gage Precipitation	17.4	inches	16.5	23.1
ELEVMAX	Maximum Basin Elevation	1824.955	feet	260	6290

Seasonal Flow Statistics Flow Report [Low Flow Statewide]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PIL	PIU	SE	ASEp
Jan to Mar15 60 Percent Flow	229	ft^3/s	157	321	21.2	21.2
Jan to Mar15 70 Percent Flow	200	ft^3/s	139	278	20.7	20.7
Jan to Mar15 80 Percent Flow	162	ft^3/s	117	217	18.2	18.2
Jan to Mar15 90 Percent Flow	128	ft^3/s	90.9	174	19.3	19.3
Jan to Mar15 95 Percent Flow	102	ft^3/s	70.6	142	20.7	20.7
Jan to Mar15 98 Percent Flow	77.2	ft^3/s	47.5	118	27.1	27.1
Jan to Mar15 7 Day 2 Year Low Flow	159	ft^3/s	118	209	17.2	17.2
Jan to Mar15 7 Day 10 Year Low Flow	101	ft^3/s	69.3	141	21.5	21.5
Mar16 to May 60 Percent Flow	426	ft^3/s	342	523	12.2	12.2
Mar16 to May 70 Percent Flow	345	ft^3/s	282	417	11.4	11.4
Mar16 to May 80 Percent Flow	266	ft^3/s	214	327	12.4	12.4

Statistic	Value	Unit	PIL	PIU	SE	ASEp
Mar16 to May 90 Percent Flow	194	ft^3/s	152	243	13.7	13.7
Mar16 to May 95 Percent Flow	147	ft^3/s	113	187	14.8	14.8
Mar16 to May 98 Percent Flow	104	ft^3/s	75.3	140	18.1	18.1
Mar16 to May 7 Day 2 Year Low Flow	184	ft^3/s	143	231	14.5	14.5
Mar16 to May 7 Day 10 Year Low Flow	109	ft^3/s	82.2	141	16.2	16.2
Jun to Oct 60 Percent Flow	48.2	ft^3/s	24.9	84.5	36.7	36.7
Jun to Oct 70 Percent Flow	36	ft^3/s	17.5	65.7	39.9	39.9
Jun to Oct 80 Percent Flow	28.6	ft^3/s	12.8	55.3	44.5	44.5
Jun to Oct 90 Percent Flow	19	ft^3/s	7.59	39.5	50.7	50.7
Jun to Oct 95 Percent Flow	14.7	ft^3/s	5.24	32.6	57	57
Jun to Oct 98 Percent Flow	10.4	ft^3/s	3.44	24.2	61.1	61.1
Jun to Oct 7 Day 2 Year Low Flow	21.2	ft^3/s	7.54	45.5	55.6	55.6
Jun to Oct 7 Day 10 Year Low Flow	11.7	ft^3/s	2.78	30.4	78.5	78.5
Nov to Dec 60 Percent Flow	173	ft^3/s	115	249	23.3	23.3
Nov to Dec 70 Percent Flow	136	ft^3/s	86.3	203	25.9	25.9
Nov to Dec 80 Percent Flow	101	ft^3/s	62	154	27.8	27.8
Nov to Dec 90 Percent Flow	69.6	ft^3/s	39.8	112	31.6	31.6
Nov to Dec 95 Percent Flow	52.7	ft^3/s	26.7	92.1	38.3	38.3
Nov to Dec 98 Percent Flow	39.1	ft^3/s	15.8	78.4	50.6	50.6
Oct to Nov 7 Day 2 Year Low Flow	105	ft^3/s	69.4	151	23.3	23.3
Oct to Nov 7 Day 10 Year Low Flow	48.1	ft^3/s	25	81.6	36.6	36.6

Seasonal Flow Statistics Citations

Flynn, R.H. and Tasker, G.D.,2002, Development of Regression Equations to Estimate Flow Durations and Low-Flow-Frequency Statistics in New Hampshire Streams: U.S.Geological Survey Scientific Investigations Report 02-4298, 66 p. (<http://pubs.water.usgs.gov/wrir02-4298>)

➤ Bankfull Statistics

Bankfull Statistics Parameters [Appalachian Highlands D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	221.69	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	221.69	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	221.69	square miles	0.07722	59927.7393

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	143	ft
Bieger_D_channel_depth	5.28	ft
Bieger_D_channel_cross_sectional_area	773	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	115	ft
Bieger_P_channel_depth	4.51	ft
Bieger_P_channel_cross_sectional_area	544	ft^2

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	82.9	ft
Bieger_USA_channel_depth	3.81	ft

Statistic	Value	Unit
Bieger_USA_channel_cross_sectional_area	316	ft^2
Bankfull Statistics Flow Report [Area-Averaged]		
Statistic	Value	Unit
Bieger_D_channel_width	143	ft
Bieger_D_channel_depth	5.28	ft
Bieger_D_channel_cross_sectional_area	773	ft^2
Bieger_P_channel_width	115	ft
Bieger_P_channel_depth	4.51	ft
Bieger_P_channel_cross_sectional_area	544	ft^2
Bieger_USA_channel_width	82.9	ft
Bieger_USA_channel_depth	3.81	ft
Bieger_USA_channel_cross_sectional_area	316	ft^2

Bankfull Statistics Citations

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_campaign=PDFCoverPages)

➤ Recharge Statistics

Recharge Statistics Parameters [Groundwater Recharge Statewide 2004 5019]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
PRECIPOUT	Mean Annual Precip at Gage	44.2	inches	35.83	53.11
TEMP	Mean Annual Temperature	45.856	degrees F	36.05	48.69
MINTEMP_W	Mean Winter Min Temperature	15.04	degrees F	0.8	19.88

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
CONIF	Percent Coniferous Forest	21.1403	percent	3.07	56.18
PREG_03_05	Mar to May Gage Precipitation	9.6	inches	6.83	11.54
SNOFALL	Mean Annual Snowfall	79.135	inches	54.46	219.07
PREG_06_10	Jun to Oct Gage Precipitation	17.4	inches	16.46	23.11
MIXFOR	Percent Mixed Forest	33.5971	percent	6.21	46.13
PREBC_1112	Nov to Dec Basin Centroid Precip	10.2	inches	6.57	15.2
PRECIPCENT	Mean Annual Precip at Basin Centroid	50.1	inches	37.44	75.91

Recharge Statistics Flow Report [Groundwater Recharge Statewide 2004 5019]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	ASEp
GW_Recharge_Jan_to_Mar15	5.25	in	15.5
GW_Recharge_Mar16_to_May	8.26	in	12.4
GW_Recharge_Jun_to_Oct	2.16	in	26.5
GW_Recharge_Nov_to_Dec	4.44	in	15.8
GW_Recharge_Ann	23.9	in	12.4

Recharge Statistics Citations

Flynn, R.H. and Tasker, G.D.,2004, Generalized Estimates from Streamflow Data of Annual and Seasonal Ground-Water-Recharge Rates for Drainage Basins in New Hampshire, U.S. Geological Survey Scientific Investigations Report 2004-5019, 67 p. (<http://pubs.usgs.gov/sir/2004/5019/>)

➤ Maximum Probable Flood Statistics

Maximum Probable Flood Statistics Parameters [Crippen Bue Region 1]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	221.69	square miles	0.1	10000

Maximum Probable Flood Statistics Flow Report [Crippen Bue Region 1]

Statistic	Value	Unit
Maximum Flood Crippen Bue Regional	115000	ft ³ /s

Maximum Probable Flood Statistics Citations

Crippen, J.R. and Bue, Conrad D.1977, Maximum Floodflows in the Conterminous United States, Geological Survey Water-Supply Paper 1887, 52p. (<https://pubs.usgs.gov/wsp/1887/report.pdf>)

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Application Version: 4.20.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1