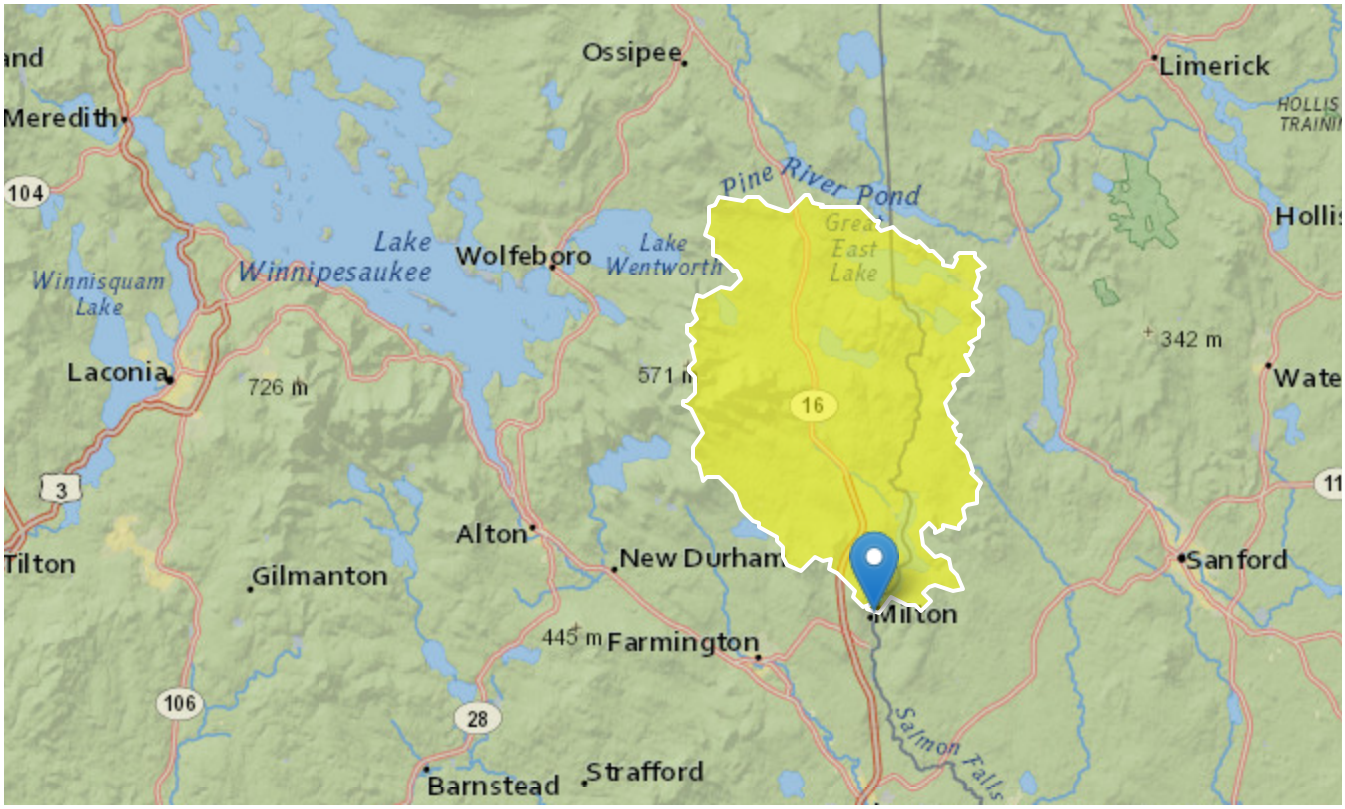
StreamStats Report

Region ID: NH
Workspace ID: NH20240517212701568000
Clicked Point (Latitude, Longitude): 43.41253, -70.98694
Time: 2024-05-17 17:27:24 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
APRAVPRE	Mean April Precipitation	4.302	inches
BSLDEM30M	Mean basin slope computed from 30 m DEM	8.402	percent
CONIF	Percentaqe of land surface covered by coniferous forest	17.0763	percent

Parameter Code	Parameter Description	Value	Unit
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	10.5	feet per mi
DRNAREA	Area that drains to a point on a stream	106.91	square miles
ELEVMAX	Maximum basin elevation	1824.955	feet
MINTEMP_W	Mean winter minimum air temperature over basin surface area	14.648	degrees F
MIXFOR	Percentage of land area covered by mixed deciduous and coniferous forest	34.487	percent
PREBC0103	Mean annual precipitation of basin centroid for January 1 to March 15 winter period	9.06	inches
PREBC_1112	Mean annual precipitation of basin centroid for November 1 to December 31 period	9.76	inches
PRECIPCENT	Mean Annual Precip at Basin Centroid	47.9	inches
PRECIPOUT	Mean annual precip at the stream outlet (based on annual PRISM precip data in inches from 1971-2000)	49.4	inches
PREG_03_05	Mean precipitation at gaging station location for March 16 to May 31 spring period	10.5	inches
PREG_06_10	Mean precipitation at gaging station location for June to October summer period	19.3	inches
SNOFALL	Mean Annual Snowfall	85.454	inches
TEMP	Mean Annual Temperature	45.281	degrees F
TEMP_06_10	Basinwide average temperature for June to October summer period	61.632	degrees F
WETLAND	Percentage of Wetlands	11.4026	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	106.91	square miles	0.7	1290
APRAVPRE	Mean April Precipitation	4.302	inches	2.79	6.23
WETLAND	Percent Wetlands	11.4026	percent	0	21.8
CSL10_85	Stream Slope 10 and 85 Method	10.5	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	1730	ft^3/s	1070	2810	30.1	3.2
20-percent AEP flood	2670	ft^3/s	1620	4390	31.1	4.7
10-percent AEP flood	3410	ft^3/s	2040	5710	32.3	6.2
4-percent AEP flood	4350	ft^3/s	2520	7520	34.3	8
2-percent AEP flood	5110	ft^3/s	2870	9100	36.4	9
1-percent AEP flood	6020	ft^3/s	3270	11100	38.6	9.8
0.2-percent AEP flood	8120	ft^3/s	4080	16200	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	106.91	square miles	3.26	689
TEMP	Mean Annual Temperature	45.281	degrees F	36	48.7
PREG_06_10	Jun to Oct Gage Precipitation	19.3	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	14.7	ft^3/s	5.2	31.7	55.7	55.7
7 Day 10 Year Low Flow	8.35	ft^3/s	1.91	22.4	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	106.91	square miles	3.26	689
PREG_06_10	Jun to Oct Gage Precipitation	19.3	inches	16.5	23.1
TEMP	Mean Annual Temperature	45.281	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	88.4	ft^3/s	64.8	117	18	18
70 Percent Duration	59.3	ft^3/s	40.8	83.1	20.6	20.6
80 Percent Duration	38.3	ft^3/s	23	59.9	28	28
90 Percent Duration	21.5	ft^3/s	10.8	38.4	37.5	37.5
95 Percent Duration	14.2	ft^3/s	6.31	27.5	44.1	44.1
98 Percent Duration	10.1	ft^3/s	3.72	22	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
DRNAREA	Drainage Area	106.91	square miles	3.26	689
CONIF	Percent Coniferous Forest	17.0763	percent	3.07	56.2
PREBC0103	Jan to Mar Basin Centroid Precip	9.06	inches	5.79	15.1
BSLDEM30M	Mean Basin Slope from 30m DEM	8.402	percent	3.19	38.1
MIXFOR	Percent Mixed Forest	34.487	percent	6.21	46.1
PREG_03_05	Mar to May Gage Precipitation	10.5	inches	6.83	11.5
TEMP	Mean Annual Temperature	45.281	degrees F	36	48.7

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
TEMP_06_10	Jun to Oct Mean Basinwide Temp	61.632	degrees F	52.9	64.4
PREG_06_10	Jun to Oct Gage Precipitation	19.3	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	103	ft^3/s	71.3	143	21.2	21.2
Jan to Mar15 70 Percent Flow	89.6	ft^3/s	62.6	124	20.7	20.7
Jan to Mar15 80 Percent Flow	73.1	ft^3/s	53.3	97.4	18.2	18.2
Jan to Mar15 90 Percent Flow	56.7	ft^3/s	40.6	76.7	19.3	19.3
Jan to Mar15 95 Percent Flow	44.9	ft^3/s	31.3	61.9	20.7	20.7
Jan to Mar15 98 Percent Flow	34.3	ft^3/s	21.3	51.7	27.1	27.1
Jan to Mar15 7 Day 2 Year Low Flow	71.5	ft^3/s	53.2	93.3	17.2	17.2
Jan to Mar15 7 Day 10 Year Low Flow	44	ft^3/s	30.4	60.8	21.5	21.5
Mar16 to May 60 Percent Flow	222	ft^3/s	179	271	12.2	12.2
Mar16 to May 70 Percent Flow	178	ft^3/s	146	214	11.4	11.4
Mar16 to May 80 Percent Flow	135	ft^3/s	109	165	12.4	12.4
Mar16 to May 90 Percent Flow	96.5	ft^3/s	76.1	120	13.7	13.7
Mar16 to May 95 Percent Flow	71.8	ft^3/s	55.6	91	14.8	14.8
Mar16 to May 98 Percent Flow	50.8	ft^3/s	37.1	67.7	18.1	18.1
Mar16 to May 7 Day 2 Year Low Flow	96.1	ft^3/s	74.6	121	14.5	14.5
Mar16 to May 7 Day 10 Year Low Flow	57.1	ft^3/s	42.9	74.1	16.2	16.2
Jun to Oct 60 Percent Flow	30.4	ft^3/s	15.4	54.3	36.7	36.7
Jun to Oct 70 Percent Flow	22.5	ft^3/s	10.7	41.9	39.9	39.9
Jun to Oct 80 Percent Flow	17	ft^3/s	7.41	33.7	44.5	44.5
Jun to Oct 90 Percent Flow	11	ft^3/s	4.27	23.5	50.7	50.7
Jun to Oct 95 Percent Flow	8.48	ft^3/s	2.93	19.4	57	57

Statistic	Value	Unit	PIL	PIU	SE	ASEp
Jun to Oct 98 Percent Flow	5.64	ft^3/s	1.8	13.6	61.1	61.1
Jun to Oct 7 Day 2 Year Low Flow	12.6	ft^3/s	4.34	27.9	55.6	55.6
Jun to Oct 7 Day 10 Year Low Flow	6.9	ft^3/s	1.57	18.7	78.5	78.5
Nov to Dec 60 Percent Flow	88.4	ft^3/s	59	126	23.3	23.3
Nov to Dec 70 Percent Flow	69.5	ft^3/s	44.3	103	25.9	25.9
Nov to Dec 80 Percent Flow	52.8	ft^3/s	32.6	80.1	27.8	27.8
Nov to Dec 90 Percent Flow	36.4	ft^3/s	21	58.1	31.6	31.6
Nov to Dec 95 Percent Flow	27.2	ft^3/s	13.9	47.1	38.3	38.3
Nov to Dec 98 Percent Flow	19.8	ft^3/s	8.1	39.3	50.6	50.6
Oct to Nov 7 Day 2 Year Low Flow	53.6	ft^3/s	35.7	76.4	23.3	23.3
Oct to Nov 7 Day 10 Year Low Flow	24.8	ft^3/s	13	41.7	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	106.91	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	106.91	square miles	3.799224	138.999861

Bankfull Statistics Parameters [USA Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	106.91	square miles	0.07722	59927.7393

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	106	ft
Bieger_D_channel_depth	4.28	ft
Bieger_D_channel_cross_sectional_area	462	ft^2

Bankfull Statistics Flow Report [New England P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	93.5	ft
Bieger_P_channel_depth	3.84	ft
Bieger_P_channel_cross_sectional_area	375	ft^2

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	64.1	ft
Bieger_USA_channel_depth	3.26	ft
Bieger_USA_channel_cross_sectional_area	213	ft^2

Bankfull Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
Bieger_D_channel_width	106	ft
Bieger_D_channel_depth	4.28	ft
Bieger_D_channel_cross_sectional_area	462	ft^2
Bieger_P_channel_width	93.5	ft
Bieger_P_channel_depth	3.84	ft
Bieger_P_channel_cross_sectional_area	375	ft^2
Bieger_USA_channel_width	64.1	ft
Bieger_USA_channel_depth	3.26	ft

Statistic	Value	Unit
Bieger_USA_channel_cross_sectional_area	213	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	49.4	inches	35.83	53.11
TEMP	Mean Annual Temperature	45.281	degrees F	36.05	48.69
MINTEMP_W	Mean Winter Min Temperature	14.648	degrees F	0.8	19.88
CONIF	Percent Coniferous Forest	17.0763	percent	3.07	56.18
PREG_03_05	Mar to May Gage Precipitation	10.5	inches	6.83	11.54
SNOFALL	Mean Annual Snowfall	85.454	inches	54.46	219.07
PREG_06_10	Jun to Oct Gage Precipitation	19.3	inches	16.46	23.11
MIXFOR	Percent Mixed Forest	34.487	percent	6.21	46.13
PREBC_1112	Nov to Dec Basin Centroid Precip	9.76	inches	6.57	15.2
PRECIPCENT	Mean Annual Precip at Basin Centroid	47.9	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

Statistic	Value	Unit	ASEp
GW_Recharge_Jan_to_Mar15	6.18	in	15.5
GW_Recharge_Mar16_to_May	9.33	in	12.4
GW_Recharge_Jun_to_Oct	3.34	in	26.5
GW_Recharge_Nov_to_Dec	4.42	in	15.8
GW_Recharge_Ann	23.3	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	106.91	square miles	0.1	10000

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

Statistic	Value	Unit
Maximum Flood Crippen Bue Regional	79100	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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StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1