Project Name:	Acton ME109	**PIN:**	20267
Stream Name:	Gherrish Brook	**Town:**	Acton
Bridge Name:		**Bridge No.**	
Route No.	ME 109 156+23	**USGS Quad:**	
Analysis by:	CSH	**Date:**	10/5/2016

Peak Flow Calculations by USGS Regression Equations (Hodgkins, 1999 & Lombard/Hodgkins, 2015)

Enter data in blue cells only!

	km^2	mi^2	ac	***Enter data in [mi^2]***
A	2.59	1.00	640.0	Watershed Area *DRNAREA*
W	0.21	0.1	50.9	Wetlands area (by NWI)
P_c	343952.5	4822454		watershed centroid (E, N; UTM 19N; meters)
County	York			*choose county from drop-down menu*
pptA	46.7			mean annual precipitation (inches; by look-up)
SG	0.30			sand & gravel aquifer as decimal fraction of watershed A

A (km^2)	2.59	**Conf Lvl**	0.67
W (%)	7.95		NWI Wetlands % *STORNWI*

Ret Pd	**Peak Flow Estimate**			
T (yr)	**Lower**	**Q_T (m^3/s)**	**Upper**	**Q_T (ft^3/s)**
1.1		0.67		23.7
2		1.38		48.8
5		2.17		76.6
10		2.73		96.4
25		3.57		125.9
50		4.16		147.0
100		4.87		171.9
500		6.55		231.3

Worksheet prepared by:
Charles S. Hebson, PE
Environmental Office
Maine Dept. Transportation
Augusta, ME 04333-0016
207-557-1052
Charles.Hebson@maine.gov

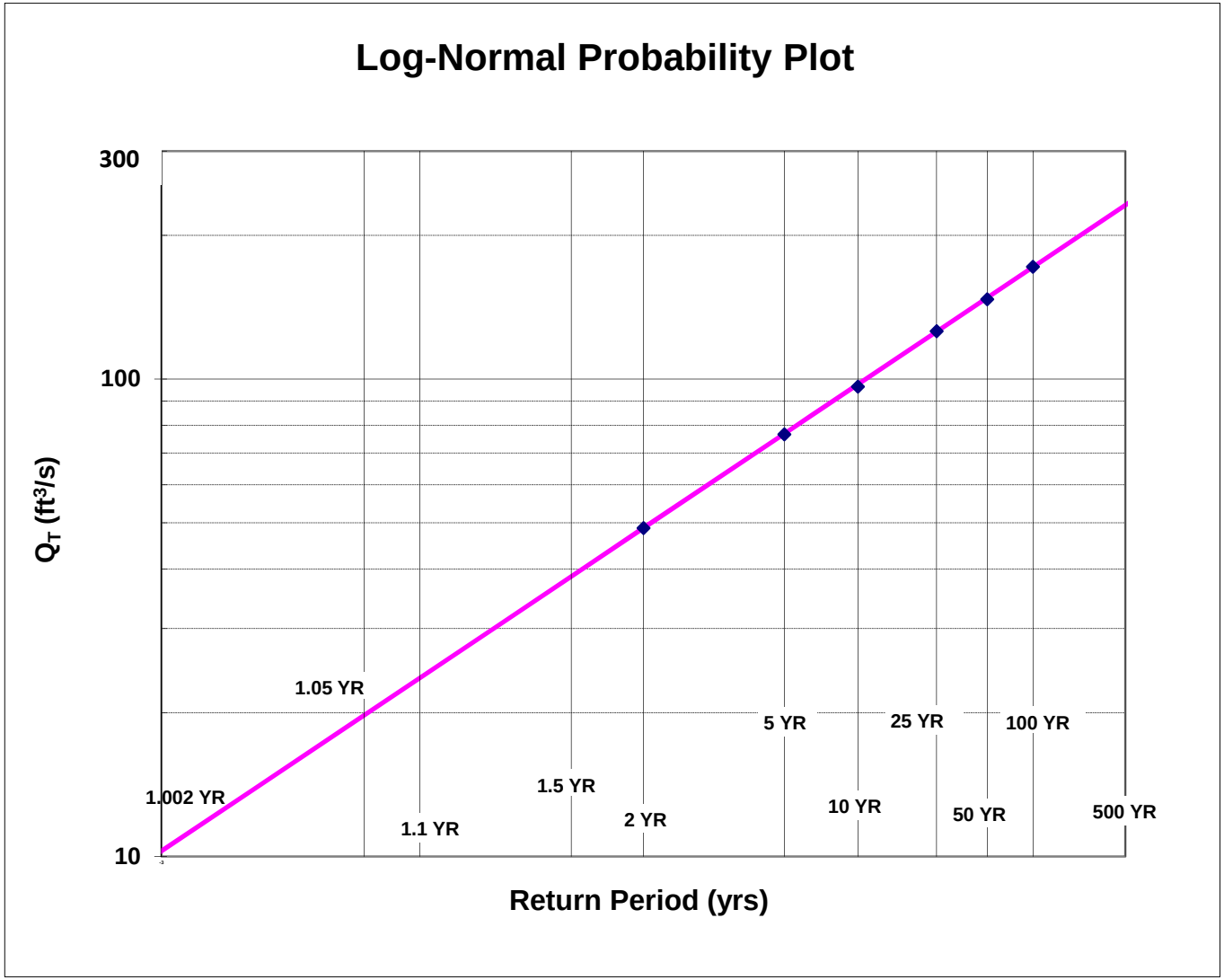
ver. 2016 Feb 05

References:

Hodgkins, G.A., 1999.
Estimating the magnitude of peak flows for streams in Maine for selected recurrence intervals
WRIR 99-4008, USGS Augusta, ME

Lombard, P.J. & G.A. Hodgkins, 2015.
Peak flow regression equations for small, ungaged streams in Maine - Comparing map-based to field-based variables
SIR 2015-4059, USGS, Augusta, ME

$Q_T = b \times A^a \times 10^{-wW}$


Log-Normal Probability Plot
300
100
10
Q_T (ft³/s)
1.002 YR
1.05 YR
1.1 YR
1.5 YR
2 YR
5 YR
10 YR
25 YR
50 YR
100 YR
500 YR
Return Period (yrs)

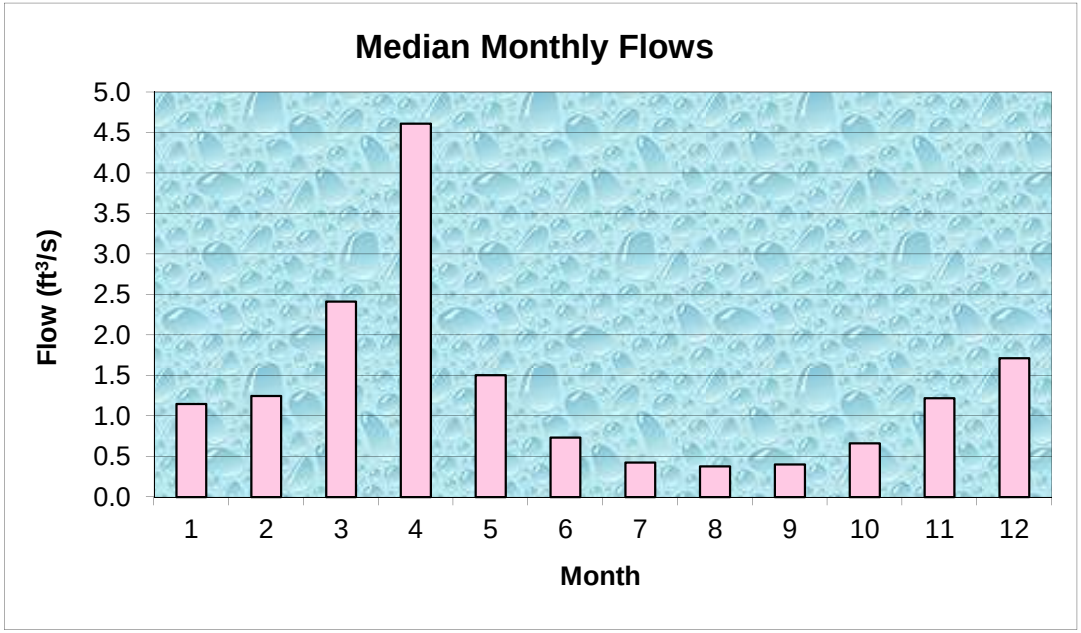
Project Name:	Acton ME109	**PIN:**	20267
Stream Name:	Gherrish Brook	**Town:**	Acton
Bridge Name:	0	**Bridge No.**	0
Route No.	ME 109 156+23	**USGS Quad:**	
Analysis by:	CSH	**Date:**	10/5/2016

DO NOT ENTER ANY DATA ON THIS PAGE; EVERYTHING IS CALCULATED

MAINE MONTHLY MEDIAN FLOWS and HYDRAULIC GEOMETRY BY USGS REGRESSION EQUATIONS (2004)

	Value	Variable	Explanation
	1.00	*A*	Area (mi^2)
343952.5	4822454	P_c	Watershed centroid (E,N; UTM; Zone 19; meters)
	44.39	*DIST*	Distance from Coastal reference line (mi)
	46.7	*pptA*	Mean Annual Precipitation (inches)
	0.30	*SG*	Sand & Gravel Aquifer (decimal fraction of watershed area)

Month	Q_{median} (ft3/s)	(m^3/s)
Jan	**1.15**	0.0326
Feb	**1.25**	0.0354
Mar	**2.41**	0.0684
Apr	**4.61**	0.1306
May	**1.51**	0.0427
Jun	**0.73**	0.0208
Jul	**0.43**	0.0121
Aug	**0.38**	0.0107
Sep	**0.40**	0.0114
Oct	**0.66**	0.0188
Nov	**1.22**	0.0346
Dec	**1.71**	0.0486



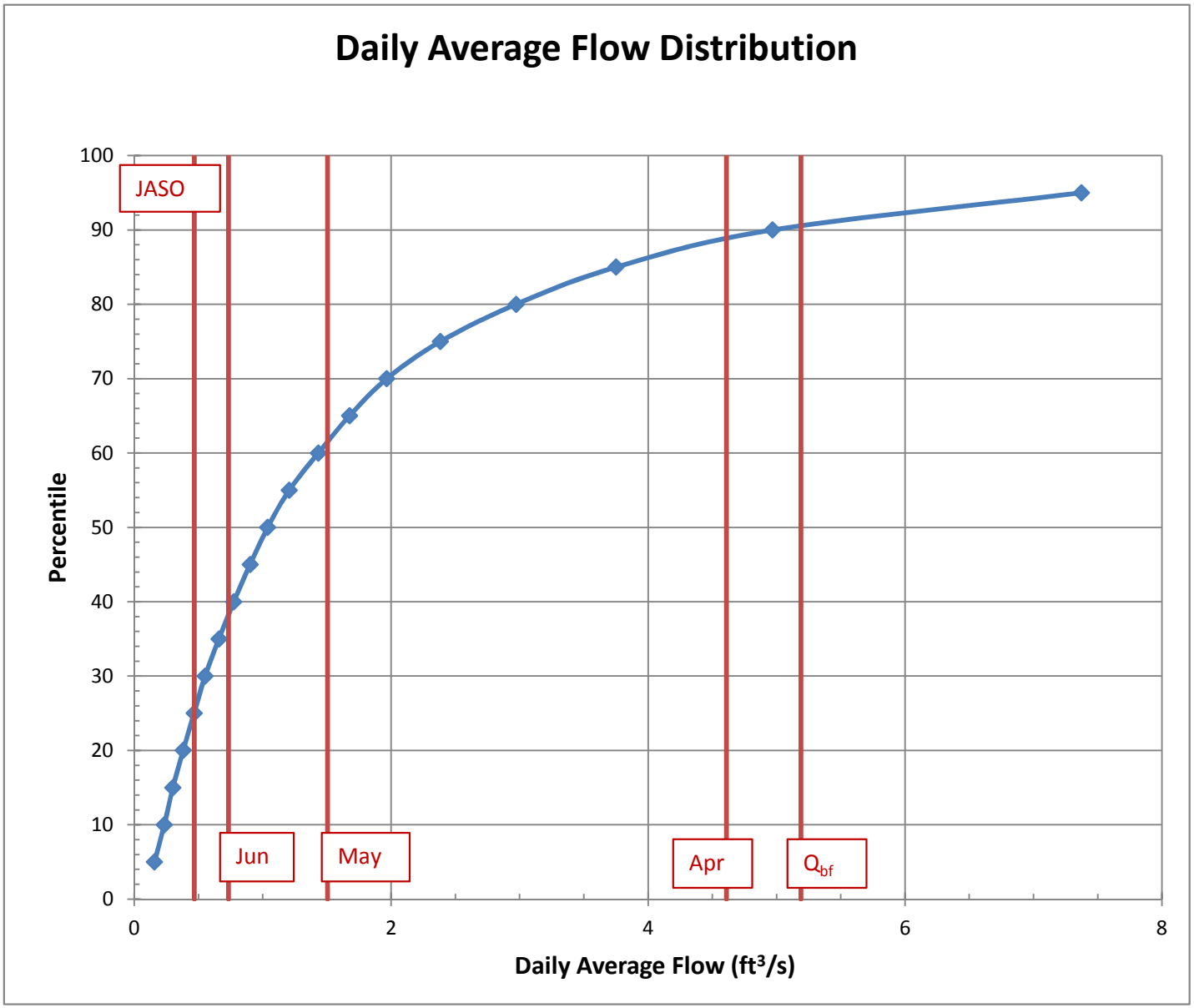
Q_{bf}	**5.2**	
ann avg	**2.1**	
ann med	**1.1**	
$Q_{1.002}$	**10.3**	
$Q_{1.01}$	**13.8**	
$Q_{1.05}$	**19.8**	
Q_{bf}	**18.2**	assume v = 4ft/s

W_{bf}	**7.7**	estimated bankfull width (ft)
d_{bf}	**0.6**	estimated bankfull depth (ft)
A_{bf}	**4.6**	estimated bankfull flow area (ft^2)

References

Dudley, R.W., 2004. Hydraulic Geometry Relations ..., SIR 2004-5042

Dudley, R.W., 2004. Estimating Monthly Streamflows … , SIR 2004-5026



Daily Avg Flow Dist	
A_{ws} = (mi^2)	1.0
Q (ft^3/s)	

Pctl	Median	84th pctl
5	0.16	0.25
10	0.23	0.35
15	0.30	0.44
20	0.38	0.53
25	0.47	0.62
30	0.55	0.71
35	0.66	0.81
40	0.77	0.93
45	0.90	1.06
50	1.04	1.25
55	1.21	1.45
60	1.43	1.70
65	1.68	1.98
70	1.97	2.32
75	2.38	2.78
80	2.97	3.32
85	3.75	4.26
90	4.97	5.72
95	7.37	8.90

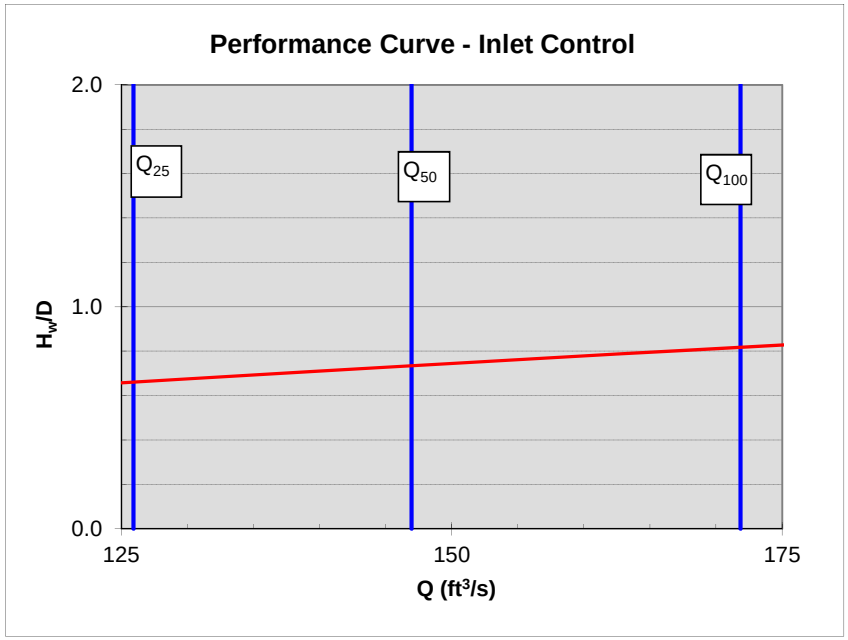
Q_{bf}	5.2
$Q_{1.002}$	10.3
$Q_{1.1}$	23.7
Q_2	48.8

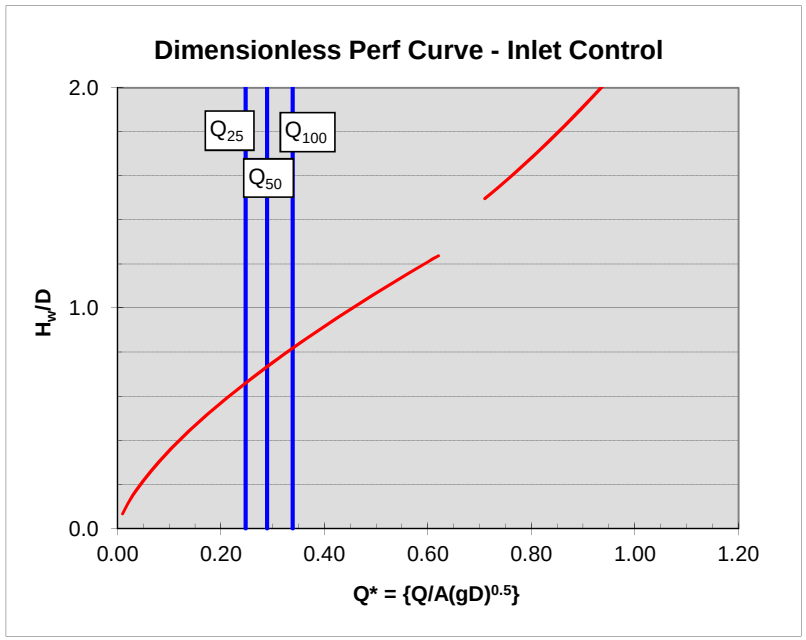
NOTE: ***This page is for preliminary sizing only.***
Final design should be done with HY8 or HDS-5

Preliminary Culvert Sizing - Round & Box Culverts

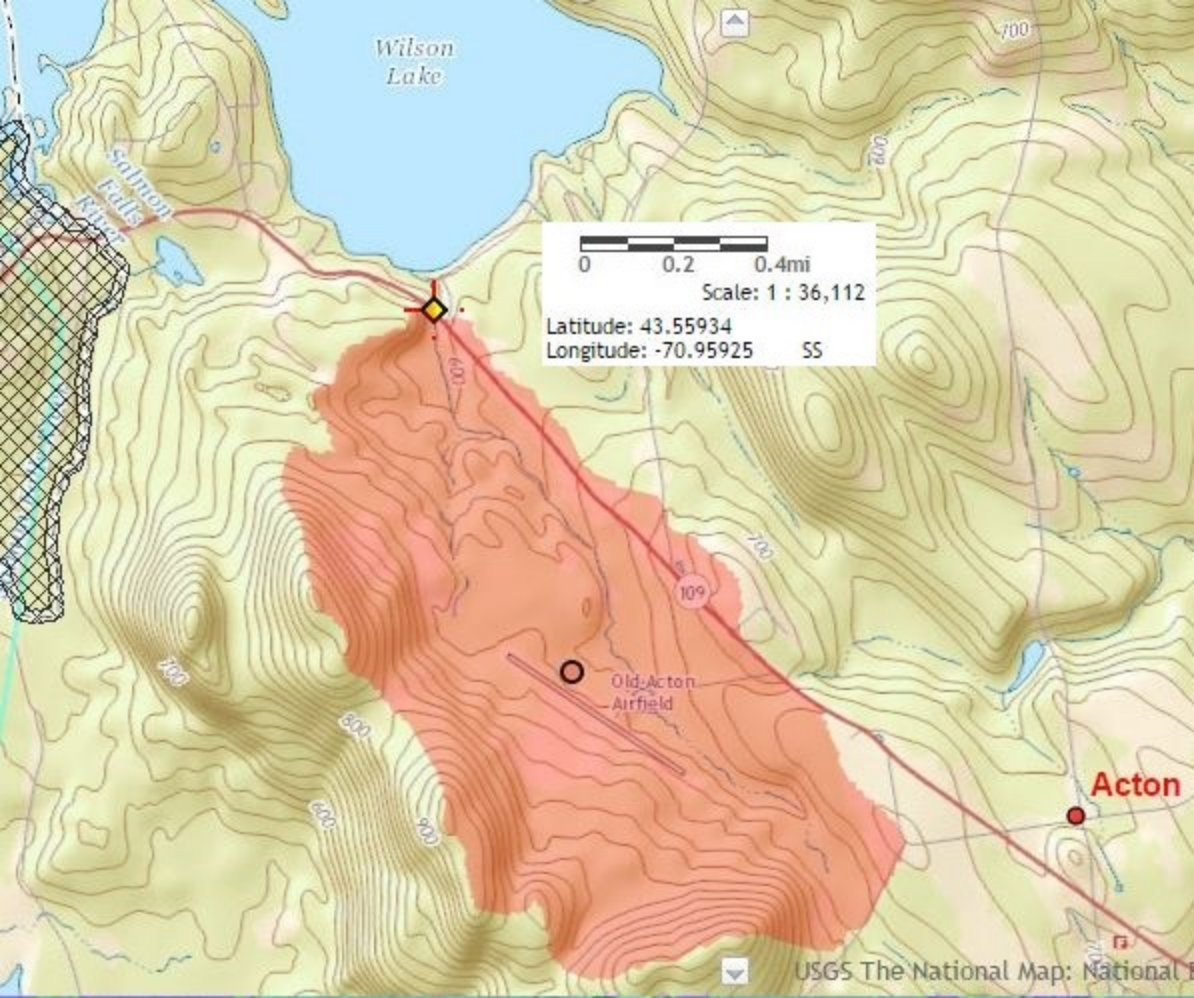
Shape:	Box					
Type:	Box 0 ww		Q_{25}	125.9		
D or R (ft)	5		Q_{50}	147.0	trial D / R =	6.1
w (ft)	*8*	*box width*	Q_{100}	171.9	trial w: BFW =	7.7
Slope (ft/ft)	0.02					
A (ft^2)	40.00					
g (ft/s^2)	32.2					

Note: culvert dimensions are for open flow area; adjust for lost capacity due to embedding / backfilling (min {2' / 25% rise} embedment)






Dam
STAGECOACH RD
HAWK RD
GARVIN RD
H RD
600
700
800
900
Mellion
Airport
Acton
Gerrish Mountain
109


Wilson Lake
Salmon Falls River
0 0.2 0.4mi
Scale: 1 : 36,112
Latitude: 43.55934
Longitude: -70.95925 SS
109
Old Acton Airfield
Acton
700
600
800
900
USGS The National Map: National

StreamStats Version 3.0

Basin Characteristics Ungaged Site Report

Date: Wed Oct 5, 2016 11:38:03 AM GMT-4
Study Area: Maine
NAD 1983 Latitude: 43.55 (43 33 00)
NAD 1983 Longitude: -70.9373 (-70 56 15)

Label	Value	Units	Definition
DRNAREA	1	square miles	Area that drains to a point on a stream
STORNWI	7.95	percent	Percentage of storage (combined water bodies and wetlands) from the National Wetlands Inventory
ELEV	734.9	feet	Mean Basin Elevation
PRECIP	48.7	inches	Mean Annual Precipitation
SANDGRAVAP	30.2	percent	Percentage of land surface underlain by sand and gravel aquifers
COASTDIST	44.9	miles	Shortest distance from the coastline to the basin centroid
CENTROIDX	343952.52	State plane coordinates	Basin centroid horizontal (x) location in state plane coordinates
CENTROIDY	4822454.22	State plane coordinates	Basin centroid vertical (y) location in state plane units
SANDGRAVAF	0.302	dimensionless	Fraction of land surface underlain by sand and gravel aquifers
LC11IMP	0.85	percent	Average percentage of impervious area determined from NLCD 2011 impervious dataset
LC11DEV	5.21	percent	Percentage of developed (urban) land from NLCD 2011 classes 21-24
LC06WATER	0	percent	Percent of open water, class 11, from NLCD 2006
ELEVMAX	947.9	feet	Maximum basin elevation
BSLDEM10M	9.92	percent	Mean basin slope computed from 10 m DEM
STATSGOA	11.9	percent	Percentage of area of Hydrologic Soil Type A from STATSGO

StreamStats Version 3.0

Flow Statistics Ungaged Site Report

Date: Wed Oct 5, 2016 11:39:06 AM GMT-4
Study Area: Maine
NAD 1983 Latitude: 43.55 (43 33 00)
NAD 1983 Longitude: -70.9373 (-70 56 15)
Drainage Area: 1 mi2

Regional Hydraulic Geometry Basin Characteristics

100% Central and Coastal Bankfull 2004 5042 (1 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1 (below min value 2.92)	2.92	298

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Regional Median Flow Basin Characteristics

100% Southern Median Monthly SIR 2010 5179 (1 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1	0.04	74.1
Percentage of Sand and Gravel Aquifers (percent)	30.20	0	84.1
Distance From Coast To Basin Centroid (miles)	44.9	14.3	94

Peak Flow Basin Characteristics

100% Statewide Peak Flow Full GT 12sqmi WRI 99 4008 (1 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1	0.93	1653
Percentage of Storage from NWI (percent)	7.95	0.7	26.7

Annual Flow Basin Characteristics

100% Statewide LowFlow SIR 2004 5026 (1 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1 (below min value 9.79)	9.79	1418

Fraction of Sand and Gravel Aquifers (dimensionless)	0.302	0	0.455

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Peak Small Basin Flow Basin Characteristics

100% Statewide Peak Flow DA LT 12sqmi 2015 5049 (1 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1	0.31	12
Percentage of Storage from NWI (percent)	7.95	0	22.2

Statewide Annual Flow Basin Characteristics

100% Statewide Annual SIR 2015 5151 (1 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Fraction of Sand and Gravel Aquifers (dimensionless)	0.302 (above max value 0.212)	0	0.212
Mean Basin Elevation (feet)	734.9	239	2120

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide January Flows Basin Characteristics

100% Statewide January SIR 2015 5151 (1 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
STATSGO Percent Hydrologic Soil Type A (percent)	11.9	0	31.5

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide February Flows Basin Characteristics

100% Statewide February SIR 2015 5151 (1 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Distance From Coast To Basin Centroid (miles)	44.9 (below min value 46.6)	46.6	193
Mean Basin Slope from 10m DEM (percent)	9.92	1.5	26.6

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide March Flows Basin Characteristics			
100% Statewide March SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Distance From Coast To Basin Centroid (miles)	44.9 (below min value 46.6)	46.6	193
Percent Water from NLCD2006 (percent)	0.00	0	6.2

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide April Flows Basin Characteristics			
100% Statewide April SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Distance From Coast To Basin Centroid (miles)	44.9 (below min value 46.6)	46.6	193
Percent Water from NLCD2006 (percent)	0.00	0	6.2

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide May Flows Basin Characteristics			
100% Statewide May SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Mean Basin Slope from 10m DEM (percent)	9.92	1.5	26.6
Percent Water from NLCD2006 (percent)	0.00	0	6.2

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide June Flows Basin Characteristics			
100% Statewide June SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Mean Basin Slope from 10m DEM (percent)	9.92	1.5	26.6
Percent Water from NLCD2006 (percent)	0.00	0	6.2

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide July Flows Basin Characteristics			
100% Statewide July SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Fraction of Sand and Gravel Aquifers (dimensionless)	0.302 (above max value 0.212)	0	0.212
Mean Basin Elevation (feet)	734.9	239	2120

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide August Flows Basin Characteristics			
100% Statewide August SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Fraction of Sand and Gravel Aquifers (dimensionless)	0.302 (above max value 0.212)	0	0.212
Mean Basin Elevation (feet)	734.9	239	2120

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide September Flows Basin Characteristics			
100% Statewide September SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Fraction of Sand and Gravel Aquifers (dimensionless)	0.302 (above max value 0.212)	0	0.212
Mean Basin Elevation (feet)	734.9	239	2120

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide October Flows Basin Characteristics			
100% Statewide October SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Fraction of Sand and Gravel Aquifers (dimensionless)	0.302 (above max value 0.212)	0	0.212

Mean Basin Elevation (feet)	734.9	239	2120

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide November Flows Basin Characteristics			
100% Statewide November SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
Maximum Basin Elevation (feet)	947.9	633	6290

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Statewide December Flows Basin Characteristics			
100% Statewide December SIR 2015 5151 (1 mi2)			
Parameter	**Value**	**Regression Equation Valid Range**	
		Min	**Max**
Drainage Area (square miles)	1 (below min value 14.9)	14.9	1419
STATSGO Percent Hydrologic Soil Type A (percent)	11.9	0	31.5

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Regional Hydraulic Geometry Statistics						
Statistic	**Value**	**Unit**	**Prediction Error (percent)**	**Equivalent years of record**	**90-Percent Prediction Interval**	
					Min	**Max**
BFFLOW	5.19	ft3/s				
BFWDTH	7.67	ft				
BFDPTH	0.59	ft				
BFAREA	4.55	ft2				

http://pubs.usgs.gov/sir/2004/5042/pdf/sir2004-5042.pdf (http://pubs.usgs.gov/sir/2004/5042/pdf/sir2004-5042.pdf)
Dudley_ R.W._ 2004_ Hydraulic-Geometry Relations for Rivers in Coastal and Central Maine: U.S. Geological Survey Scientific Investigations Report 2004-5042_ 30 p

Regional Median Flow Statistics						
Statistic	**Value**	**Unit**	**Prediction Error (percent)**	**Equivalent years of record**	**90-Percent Prediction Interval**	
					Min	**Max**
JUND50	1.06	ft3/s	45			
AUGD50	0.51	ft3/s	66			

http://pubs.usgs.gov/sir/2010/5179/pdf/sir2010-5179.pdf (http://pubs.usgs.gov/sir/2010/5179/pdf/sir2010-5179.pdf)
Lombard_ P.J._ 2010_ June and August median streamflows estimated for ungaged streams in southern Maine: U.S. Geological Survey Scientific Investigations Report 2010–5179_ 16 p.

Peak Flow Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
PK2	52.3	ft3/s	35	1.8	28.4	96.4
PK5	88.8	ft3/s	36	2.5	47.5	166
PK10	117	ft3/s	37	3.2	61.6	224
PK25	158	ft3/s	39	4.1	80.5	311
PK50	191	ft3/s	40	4.8	95.1	386
PK100	228	ft3/s	41	5.4	110	471
PK500	322	ft3/s	45	6.4	146	709

http://me.water.usgs.gov/99-4008.pdf (http://me.water.usgs.gov/99-4008.pdf)
Hodgkins_ G. A._ 1999_ Estimating the Magnitude of Peak Flows for Streams in Maine for Selected Recurrence Intervals: U.S. Geological Survey Water-Resources Investigations Report 99-4008_ 45 p.

Annual Flow Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
M7D10Y	0.13	ft3/s				

http://water.usgs.gov/pubs/sir/2004/5026/pdf/sir2004-5026.pdf (http://water.usgs.gov/pubs/sir/2004/5026/pdf/sir2004-5026.pdf)
Dudley_ R.W._ 2004_ Estimating Monthly_ Annual_ and Low 7-Day_ 10-Year Streamflows for Ungaged Rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2004-5026_ 22 p.

Peak Small Basin Flow Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
PK1 01	14.8	ft3/s	38			
PK2	48.7	ft3/s	34			
PK5	76.6	ft3/s	35			
PK10	96.3	ft3/s	37			
PK25	126	ft3/s	39			
PK50	147	ft3/s	41			
PK100	172	ft3/s	42			
PK250	194	ft3/s	44			
PK500	231	ft3/s	47			

http://dx.doi.org/10.3133/sir20155049 (http://dx.doi.org/10.3133/sir20155049)
Lombard_ P.J._ and Hodgkins_ G.A._ 2015_ Peak flow regression equations for small_ ungaged streams in Maine— Comparing map-based to field-based variables: U.S. Geological Survey Scientific Investigations Report 2015–5049_ 12 p.

Statewide Annual Flow Statistics

Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
D1	0.0701	ft3/s				
D5	0.13	ft3/s				
D10	0.21	ft3/s				
D25	0.59	ft3/s				
D50	1.58	ft3/s				
D75	3.14	ft3/s				
D90	5.98	ft3/s				
D95	9.13	ft3/s				
D99	27.1	ft3/s				
QA	2.93	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide January Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
JAND1	0.33	ft3/s				
JAND5	0.49	ft3/s				
JAND10	0.65	ft3/s				
JAND25	0.93	ft3/s				
JAND50	1.22	ft3/s				
JAND75	2.14	ft3/s				
JAND90	4.71	ft3/s				
JAND95	10.5	ft3/s				
JAND99	29	ft3/s				
Q1	2.73	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide February Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
FEBD1	0.37	ft3/s				
FEBD5	0.37	ft3/s				
FEBD10	0.44	ft3/s				

FEBD25	0.56	ft3/s				
FEBD50	0.8	ft3/s				
FEBD75	1.63	ft3/s				
FEBD90	3.08	ft3/s				
FEBD95	7.25	ft3/s				
FEBD99	23.8	ft3/s				
Q2	1.78	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide March Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
MARD1	0.45	ft3/s				
MARD5	0.59	ft3/s				
MARD10	0.87	ft3/s				
MARD25	1.55	ft3/s				
MARD50	3.28	ft3/s				
MARD75	7.16	ft3/s				
MARD90	16.7	ft3/s				
MARD95	24.5	ft3/s				
MARD99	67.5	ft3/s				
Q3	7.02	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide April Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
APRD1	0.76	ft3/s				
APRD5	1.01	ft3/s				
APRD10	1.33	ft3/s				
APRD25	2.22	ft3/s				
APRD50	3.46	ft3/s				
APRD75	7.39	ft3/s				
APRD90	16.3	ft3/s				

APRD95	26.6	ft3/s				
APRD99	75.4	ft3/s				
Q4	6.92	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide May Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
MAYD1	0.16	ft3/s				
MAYD5	0.26	ft3/s				
MAYD10	0.36	ft3/s				
MAYD25	0.58	ft3/s				
MAYD50	0.95	ft3/s				
MAYD75	1.64	ft3/s				
MAYD90	3.09	ft3/s				
MAYD95	5.29	ft3/s				
MAYD99	12.9	ft3/s				
Q5	1.59	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide June Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
JUND1	0.1	ft3/s				
JUND5	0.14	ft3/s				
JUND10	0.17	ft3/s				
JUND25	0.28	ft3/s				
JUND50	0.54	ft3/s				
JUND75	1.43	ft3/s				
JUND90	4.31	ft3/s				
JUND95	9.56	ft3/s				
JUND99	34.4	ft3/s				
Q6	1.79	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)

Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide July Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
JULD1	0.08	ft3/s				
JULD5	0.12	ft3/s				
JULD10	0.13	ft3/s				
JULD25	0.15	ft3/s				
JULD50	0.24	ft3/s				
JULD75	0.47	ft3/s				
JULD90	1.31	ft3/s				
JULD95	2.6	ft3/s				
JULD99	8.91	ft3/s				
Q7	0.63	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide August Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
AUGD1	0.0307	ft3/s				
AUGD5	0.0461	ft3/s				
AUGD10	0.0585	ft3/s				
AUGD25	0.12	ft3/s				
AUGD50	0.19	ft3/s				
AUGD75	0.36	ft3/s				
AUGD90	0.75	ft3/s				
AUGD95	1.59	ft3/s				
AUGD99	11	ft3/s				
Q8	0.59	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide September Flows Statistics					
					90-Percent Prediction Interval

Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	Min	Max
SEPD1	0.0385	ft3/s				
SEPD5	0.0379	ft3/s				
SEPD10	0.0992	ft3/s				
SEPD25	0.14	ft3/s				
SEPD50	0.27	ft3/s				
SEPD75	0.56	ft3/s				
SEPD90	1.04	ft3/s				
SEPD95	1.67	ft3/s				
SEPD99	10.3	ft3/s				
Q9	0.71	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide October Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
OCTD1	0.2	ft3/s				
OCTD5	0.15	ft3/s				
OCTD10	0.18	ft3/s				
OCTD25	0.4	ft3/s				
OCTD50	0.76	ft3/s				
OCTD75	1.93	ft3/s				
OCTD90	5.19	ft3/s				
OCTD95	11.5	ft3/s				
OCTD99	35.7	ft3/s				
Q10	2.65	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide November Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
NOVD1	0.066	ft3/s				
NOVD5	0.13	ft3/s				
NOVD10	0.34	ft3/s				

NOVD25	1.08	ft3/s				
NOVD50	1.97	ft3/s				
NOVD75	3.77	ft3/s				
NOVD90	8.08	ft3/s				
NOVD95	13.1	ft3/s				
NOVD99	37.4	ft3/s				
Q11	3.73	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.

Statewide December Flows Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
DECD1	0.0741	ft3/s				
DECD5	0.28	ft3/s				
DECD10	0.65	ft3/s				
DECD25	1.24	ft3/s				
DECD50	2.03	ft3/s				
DECD75	3.17	ft3/s				
DECD90	6.06	ft3/s				
DECD95	12	ft3/s				
DECD99	32.4	ft3/s				
Q12	3.48	ft3/s				

http://dx.doi.org/10.3133/sir20155151 (http://dx.doi.org/10.3133/sir20155151)
Dudley_ R.W._ 2015_ Regression equations for monthly and annual mean and selected percentile streamflows for ungaged rivers in Maine: U.S. Geological Survey Scientific Investigations Report 2015-5151_ 35 p.