

Project Name: Runaround Pond Bridge
Stream Name: Runaround Pond Outlet
Bridge Name: Runaround Pond Bridge
Route No. Fickett Road
Analysis by: CSH

PIN: 15603
Town: Durham
Bridge No. 6006
USGS Quad:
Date: 2/29/2008

Peak Flow Calculations by USGS Regression Equations (Hodgkins, 1999)

Enter data in blue cells only!

	km ²	mi ²	ac
A	32.40	12.511	8007.2
W	4.73	1.825	1168.3

P _c	403650	4868500
DIST		
pptA		
SG		

A (km ²)	32.404	Conf Lvl	0.67
W (%)	14.59		

Enter data in [mi²]

Watershed Area
 Wetlands area (by NWI)

watershed centroid (E, N; UTM 19N; meters)
 distance from Gulf of Maine line
 mean annual precipitation (inches)
 sand & gravel aquifer as percentage of watershed area

Worksheet prepared by:
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Ret Pd T (yr)	Peak Flow Estimate		
	Lower	Q _T (m ³ /s)	Upper
1.1		4.25	
2	6.01	8.40	11.75
5	9.16	12.85	18.02
10	11.36	16.11	22.84
25	14.23	20.47	29.43
50	16.39	23.86	34.72
100	18.67	27.51	40.52
500	23.93	36.40	55.38

Q _T (ft ³ /s)
150.2
296.6
453.8
568.7
722.6
842.4
971.3
1285.3

Reference:

Hodgkins, G., 1999.
 Estimating the magnitude of peak flows for str
 in Maine for selected recurrence intervals
Water-Resources Investigations Report 99-40
 US Geological Survey, Augusta, Maine

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

reams

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