USGS StreamStats

Streamflow Statistics Report

Date: Tue Sep 23 2008 14:46:45
Site Location: Massachusetts
Drainage Area: 77.44 mi2
Latitude (NAD83): 42.1927 (42 11 33)
Longitude (NAD83): -71.7555 (-71 45 19)

Low Flow Basin Characteristics			
100% Statewide Low Flow (77.4 mi2)			
Parameter	**Value**	**Min**	**Max**
Drainage Area (square miles)	77.4	1.61	149
Mean Basin Slope from 250K DEM (percent)	4.33	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.076	0	1.29
Massachusetts Region (dimensionless)	0	0	1

Streamflow Statistics					
Statistic	**Flow (ft^3/s)**	**Prediction Error (percent)**	**Equivalent years of record**	**90-Percent Prediction Interval**	
				Minimum	**Maximum**
D50	80.7	18		41.1	157
D60	59.3	20		2.56	1370
D70	34.3	24		2.12	549
D75	26.4	26		1.94	353
D80	20.2	28		6.85	58.9
D85	15.9	32		5.36	46.4
D90	11.6	37		3.7	35.8
D95	7.68	46		2.23	25.6
D98	4.83	60		1.22	18.1
D99	3.84	65		0.92	15
Low-Flow Statistics					
M7D2Y	7.91	50		2.16	28
AUGD50	16.2	33		5.42	47.7
M7D10Y	3.55	71		0.8	14.6

$DF = (Q_d + Q_s)/Q_d \longrightarrow DF = (0.03 + 3.55)/0.03$

where, $Q_d = 0.03\ ft^3/s$

$Q_s = 3.55\ ft^3/s$

$\boxed{DF = 119.3}$