

This spreadsheet was developed by Kerry Mackin, using data provided by Linda Hutchins of Mass DCR. Nigel Pickering did some of the early-stage analysis.													
Tabs:													
Summary Table summarizes some of the key results of the analysis. These include:													
EEA's safe yield figures										55% of annualized (average) monthly Q90 drought flows			
What safe yield would be if it were based on:													
25% August median										(applicable to supplies that pump groundwater and/or continuous year-round surface water capture)			
applying SWMI streamflow criteria to median flows										Note: using a year-round average implicitly assumes optimal storage			
applying SWMI streamflow criteria to drought (MQ90) flows										Note: using a year-round average implicitly assumes optimal storage			
remaining columns show:													
number of months safe yield exceeds "maximum allocatable"										6-8 months for every river in Mass.			
number of months safe yield exceeds normal flows										up to 3 months based on monthly medians			
number of months safe yield exceeds Q90 drought flows										4-5 months for all but 2 rivers			
% of time in all summers that flows would be zero										up to 2/3 of the time for some rivers, more than 1/2 the time for most			
Table-Color-Coding Key													
This helps explain the color coding used in the Rivers-Data-Analysis worksheet													
Rivers-Data-Analysis Worksheet This includes the key data and analysis for most rivers in Massachusetts													
Simulated flow data for most Mass. Rivers, derived from Sustainable Yield Estimator (provided by Linda Hutchins, DCR)													
data for Connecticut and Merrimack Rivers are from river gages, not simulated													
The yellow coded rows show EEA's safe yield methodology, with months in red-brown indicating those months when flows are below EEA safe yield													
Basic -- orange-brown indicates times when flows would be zero if EEA safe yield were withdrawn													
NOTE -- scroll to the right for a graph of each river basin, showing the "maximum allocatable" amount on a monthly basis vs. EEA safe yield shown as a constant													
Other sheets													
Proposed trigger for outdoor watering vs. August median													
A series of graphs using the Parker River as an example.													
Some miscellaneous information and calculations													
Drainage Areas from EEA													