



**Drought Management Task Force
Update**

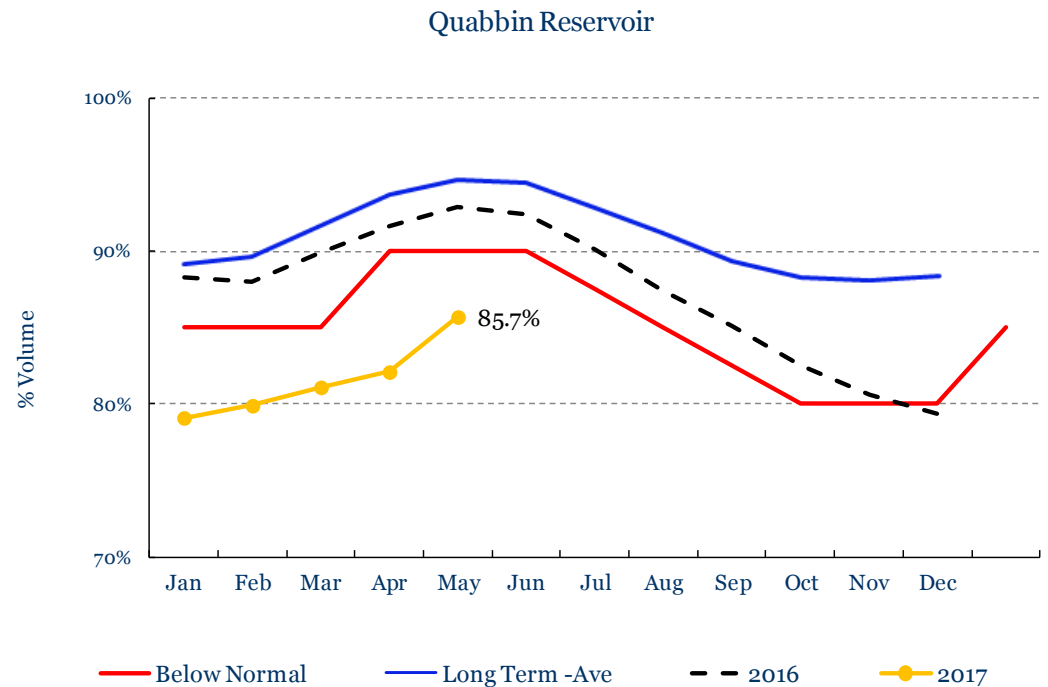
05.09.17

John Gregoire



Quabbin Status as of May 5, 2017

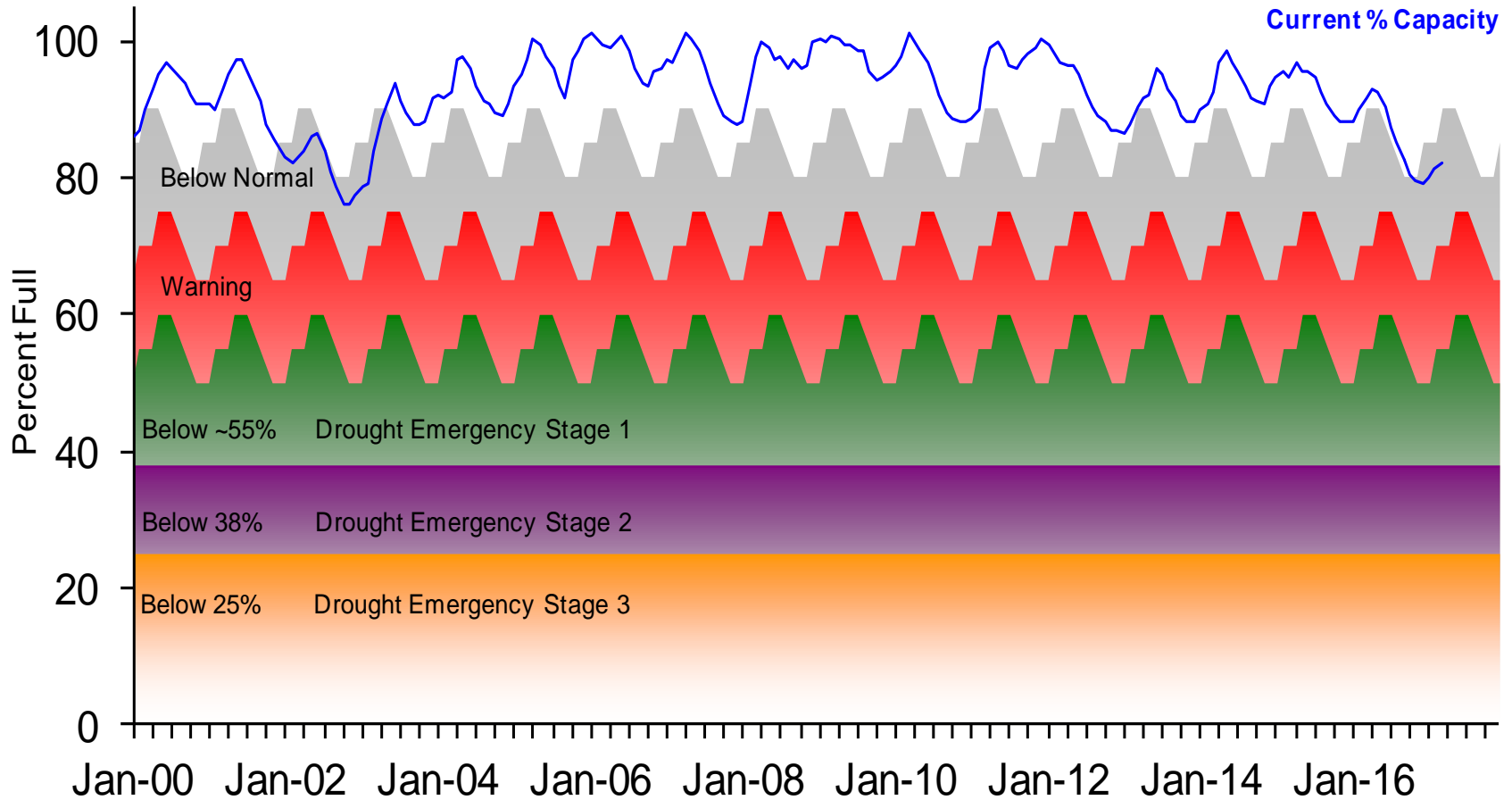
- Current Elevation: 522.51 ft
- Current Volume: 355,425 MG (86.2%)
- At current capacity Quabbin can supply the system's current demand* for 4.9 years





Quabbin Reservoir Levels relative to Drought Stages

Quabbin Reservoir Levels With Drought Emergency Planning Stages





Quabbin Reservoir Projections –May 2017

Quabbin Reservoir levels have been modeled for the next 12 months (May 2017 – April 2018) given varying yield conditions, and an annual demand of 220 mgd (includes a 10 mgd increase from current annual demand levels). It should be noted that April 2017 was the 58th driest April in the 68 year history of Quabbin yields. The monthly yield for April 2017 was 17,729.6 MG.

Table 1 below shows the ending drought status for the time period being simulated.

**Table 1: Quabbin Reservoir Status with Varying Reservoir Yield Scenarios
Looking Forward from May 1, 2017**

	1-Month	3-Months	6-Months	12-Months
Median Yield	Below Normal	Normal	Normal	Normal
Dry (75th Percentile)	Below Normal	Normal*	Normal	Below Normal
Driest (of Record)	Below Normal	Below Normal	Below Normal	Drought Warning

**Reservoir level is at 85.77% full at the end of the 3 month simulation which is Normal Condition but close to Below Normal (<85%)*

Evaluating a 24-month scenario using the driest conditions, Quabbin Reservoir would end in the Drought Warning Stage Level.

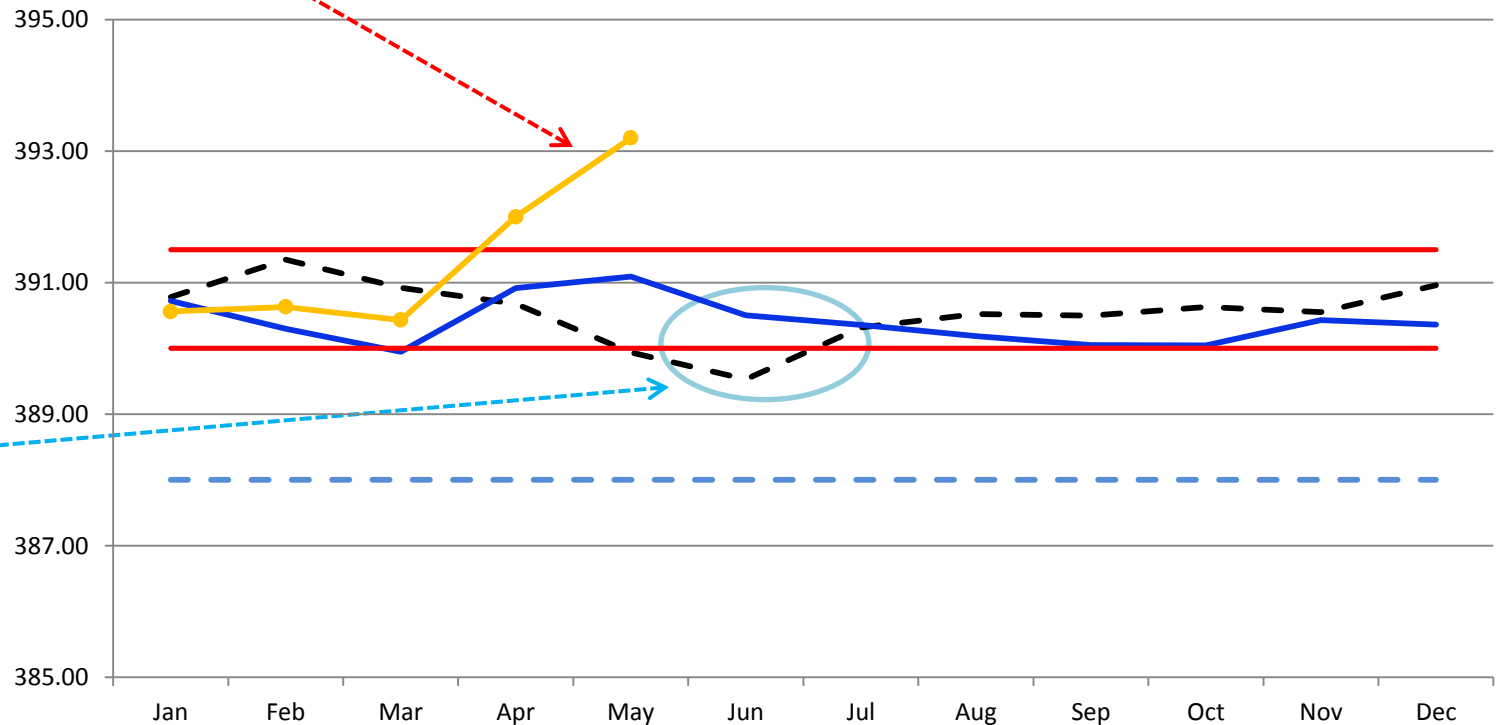


Wachusett Reservoir Status – Normal operations

Presently above normal band due to operational and maintenance issues.

Wachusett Reservoir

Drawdown for construction project



-- 2016 — Long Term Average — Lower Band — Upper Band - - Winter Band —●— 2017