



Drought Management Task Force Update

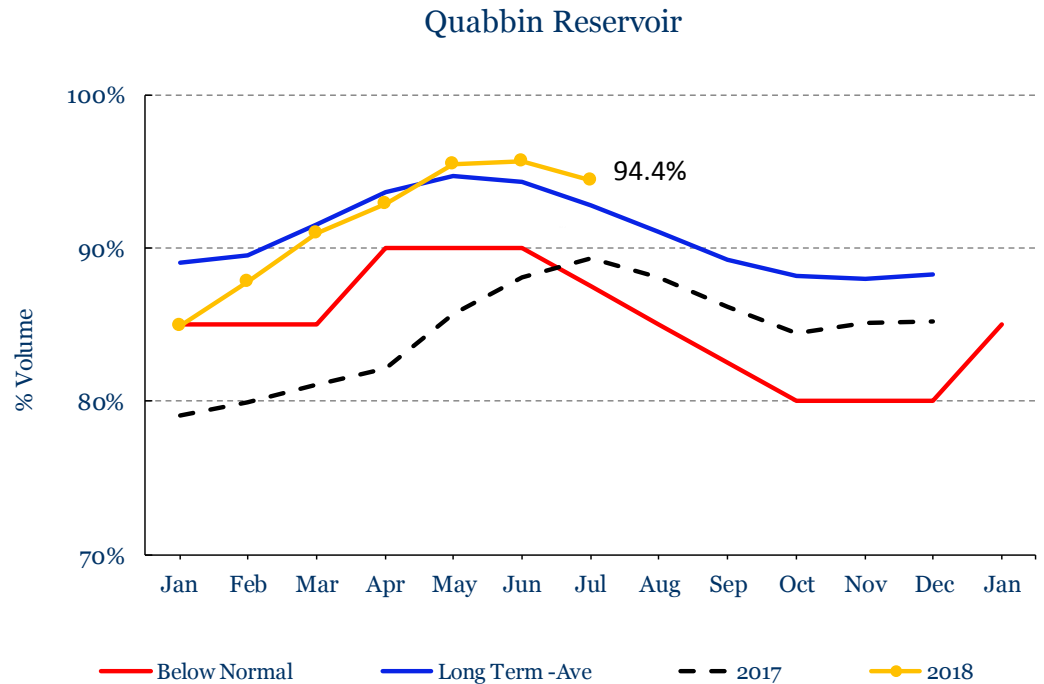
07.12.17

John Gregoire, Reservoir Operations



Quabbin Status as of July 11, 2017

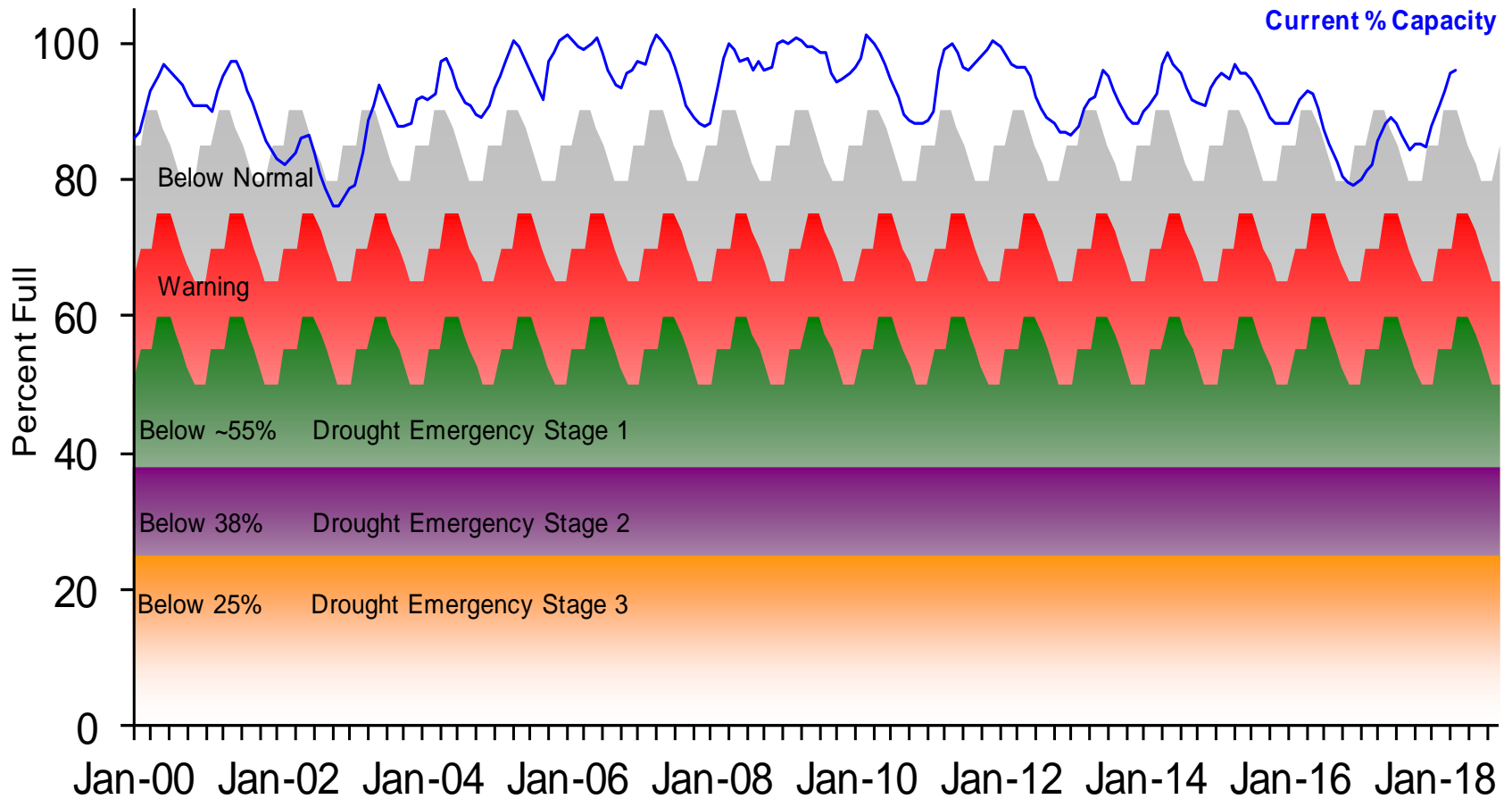
- Current Elevation: 526.72 ft
- Current Volume: 387,000 MG (93.9%)
- At current capacity Quabbin can supply the system's current demand* for 4.9 years





Quabbin Reservoir Levels relative to Drought Stages

Quabbin Reservoir Levels With Drought Emergency Planning Stages





Quabbin Reservoir Projections – July 2018

Quabbin Reservoir levels have been modeled for the next 12 months (July 2018 – June 2019) 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 June 2018 was the 40th driest June in the 70-year history of Quabbin yields. The monthly yield for June 2018 was 4,264 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 July 1, 2018

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

Evaluating a 24-month scenario using the driest conditions, Quabbin Reservoir would end in the bottom of the Below Normal Range (approximately 1% full before dropping into Drought Warning Stage Level).



Wachusett Reservoir Status – Normal operations

Wachusett Reservoir

