

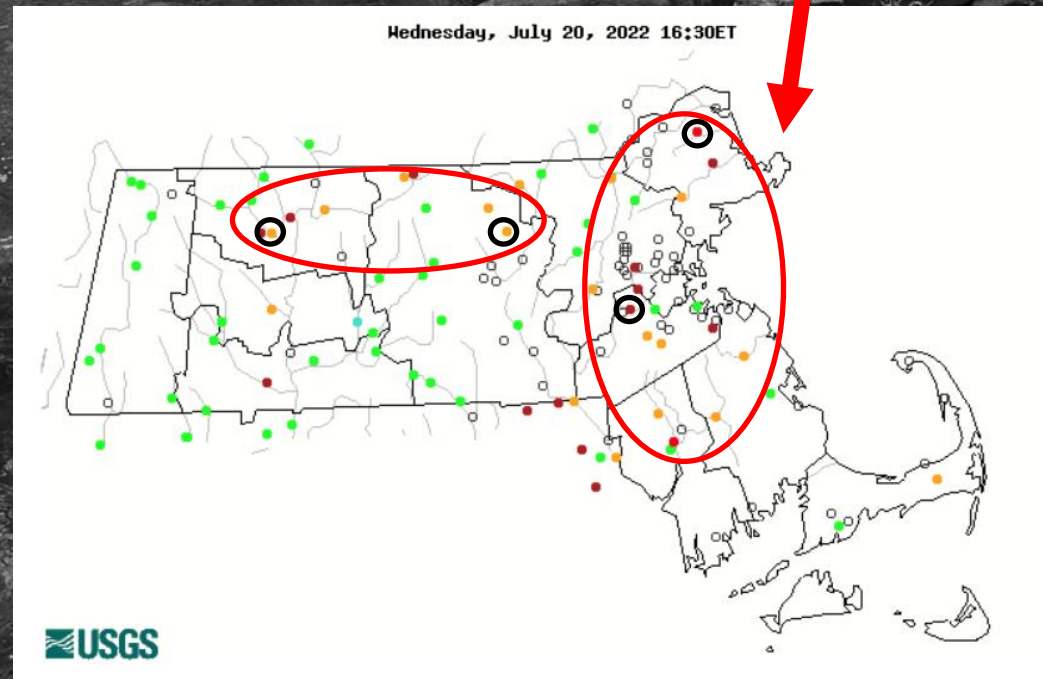
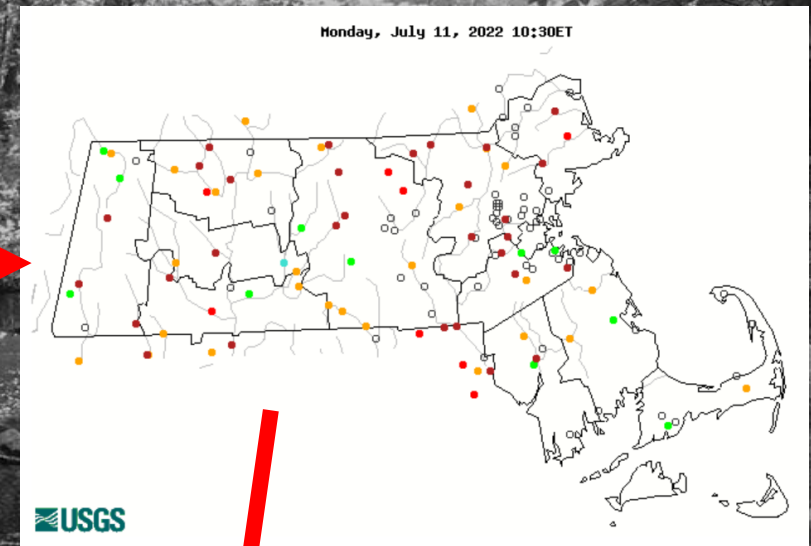
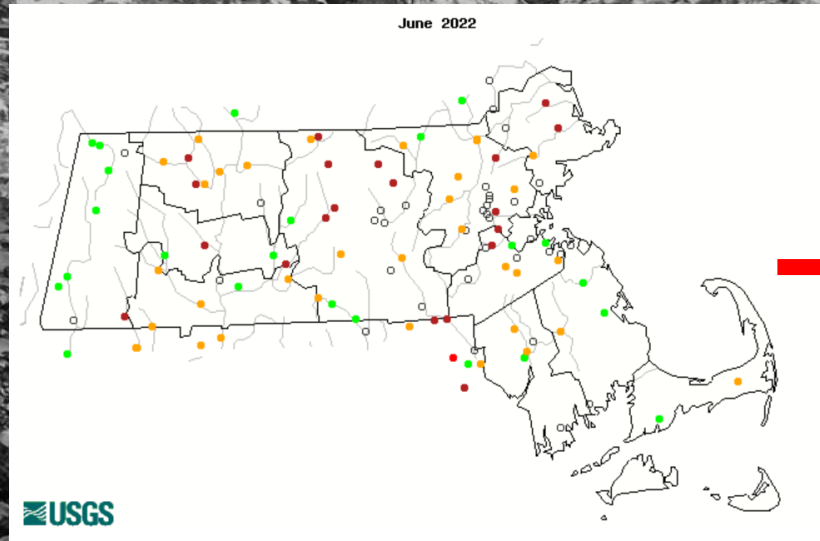
Streamflow and Groundwater Conditions in Massachusetts

July 21, 2022

Jason Pollender & Chris Bruet
U.S. Geological Survey
New England Water Science Center



Real-Time Streamflow Conditions VS Recent Maps

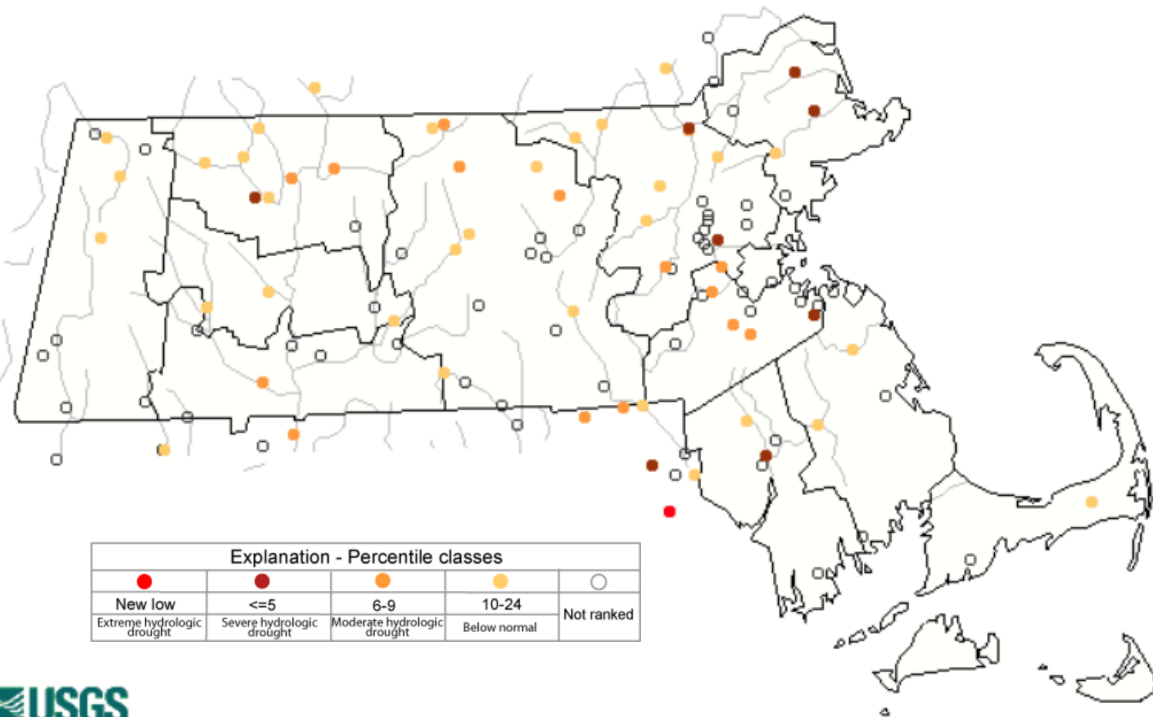


Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

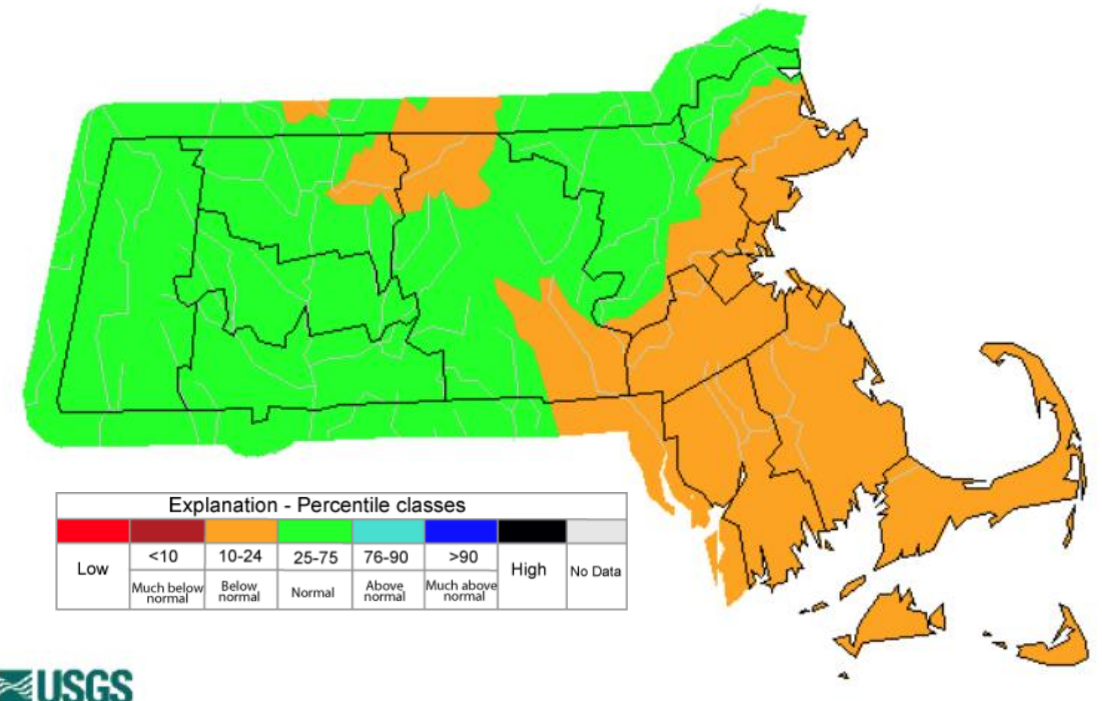
Below Normal 7-Day Avg— July 19, 2022

Daily Streamflow Avg July 19, 2022

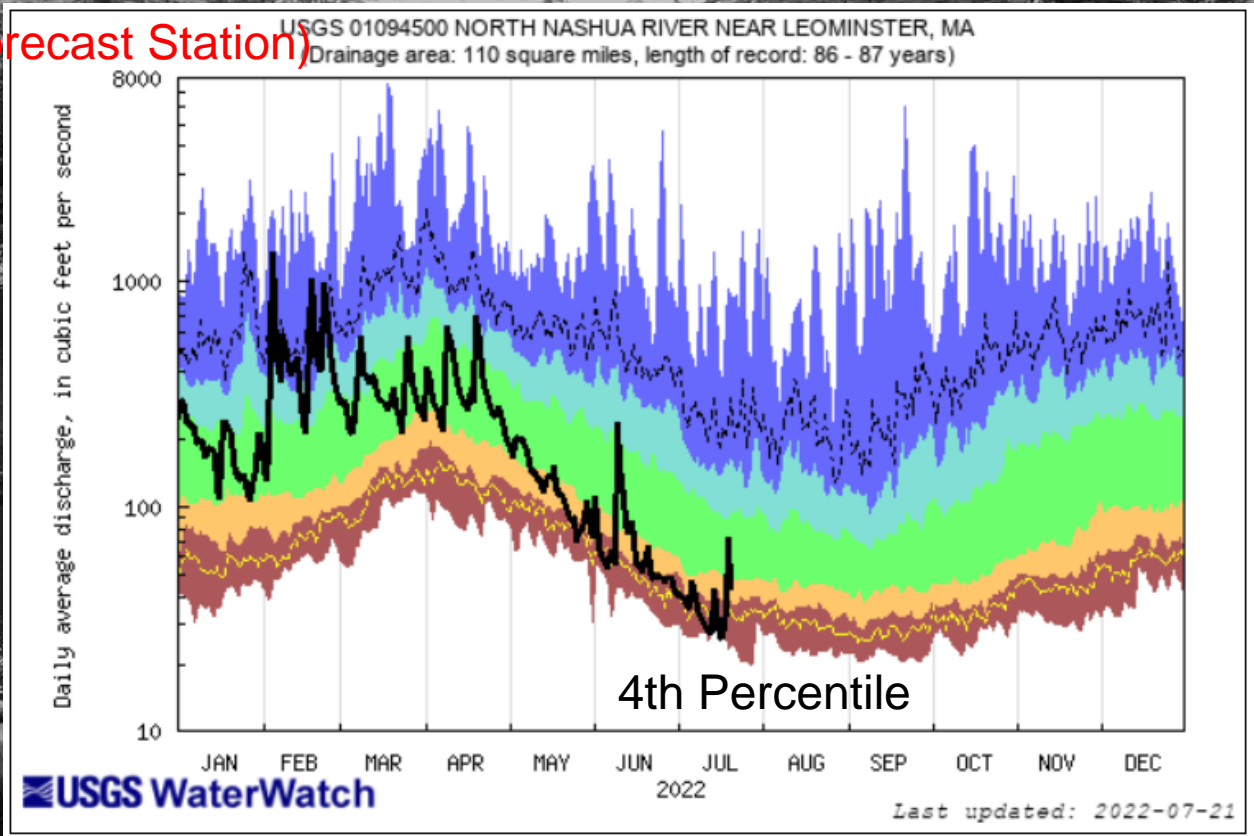
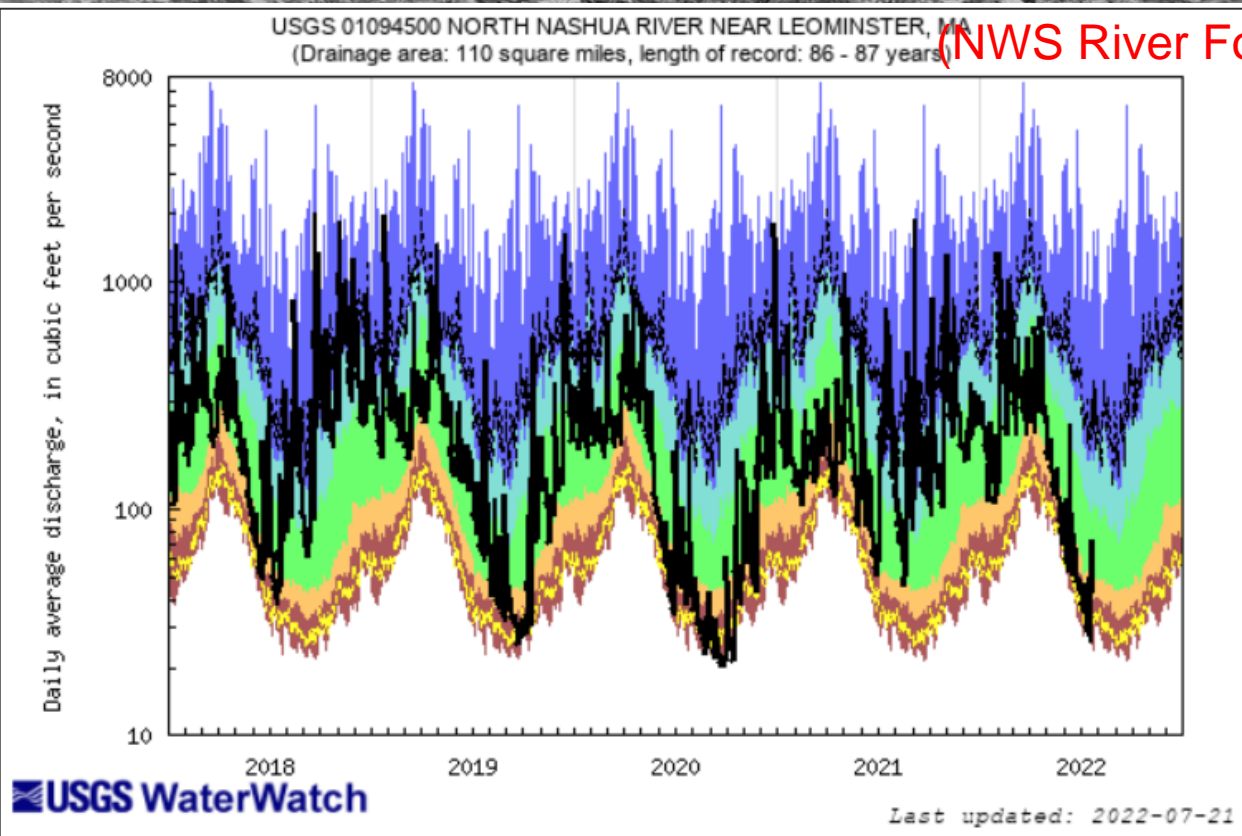
Tuesday, July 19, 2022



Tuesday, July 19, 2022



Daily Avg. – N. Nashua River – Northeastern/Central MA

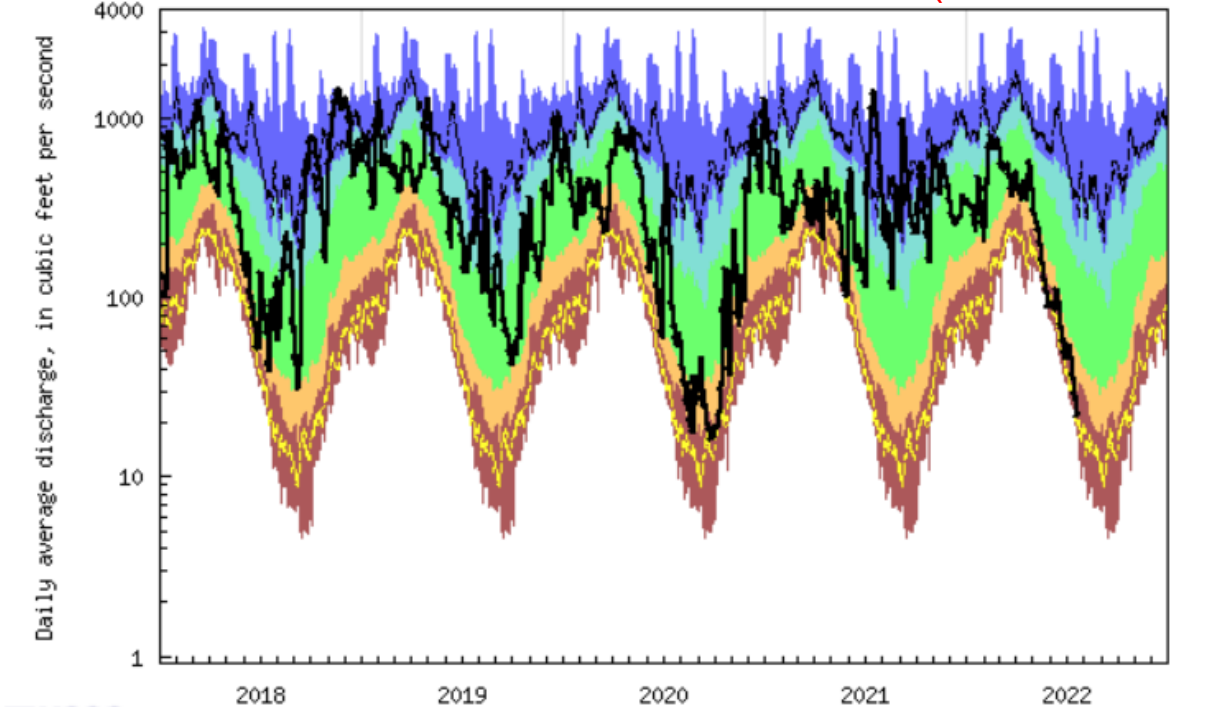


Explanation - Percentile classes

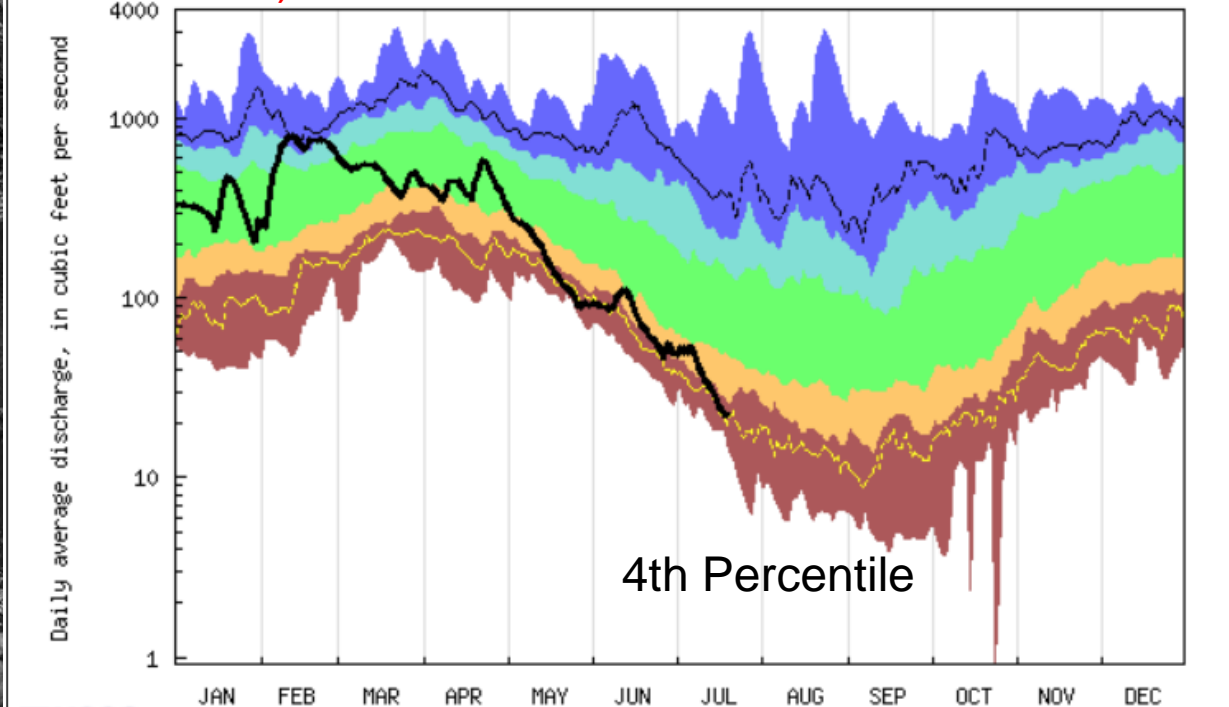
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile - highest	Flow
Much below Normal	Below normal	Normal	Above normal	Much above normal			

Daily Avg. – Charles River – Eastern MA

USGS 01103500 CHARLES RIVER AT DOVER, MA (Drainage area: 183 square miles, length of record: 84 - 85 years) (NWS River Forecast Station)



USGS WaterWatch Last updated: 2022-07-21



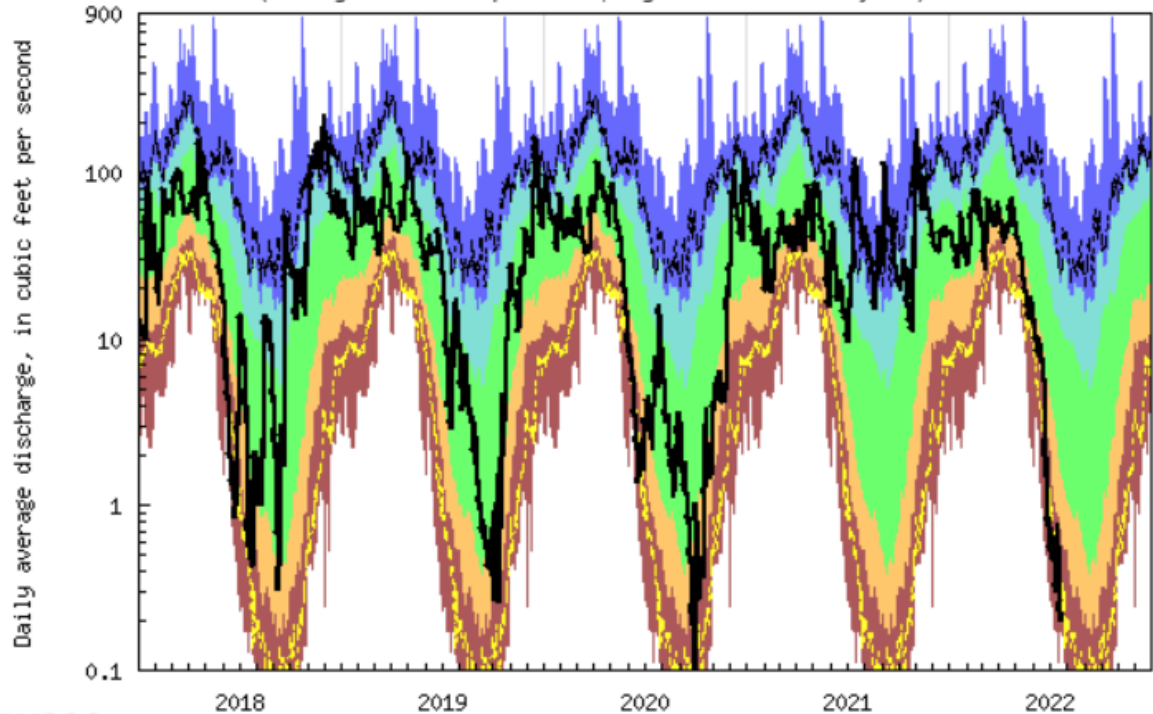
USGS WaterWatch Last updated: 2022-07-21

Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow



Daily Avg. –Parker River– Northeastern MA

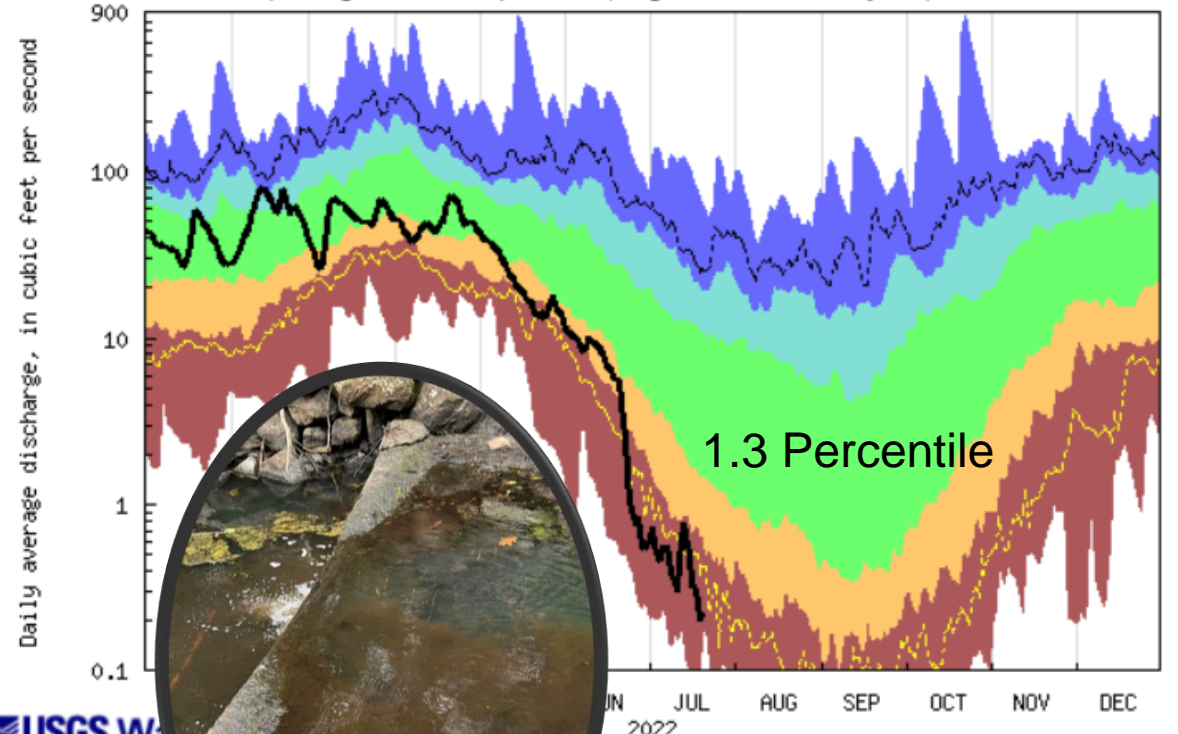
USGS 01101000 PARKER RIVER AT BYFIELD, MA
(Drainage area: 21.3 square miles, length of record: 75 - 76 years)



USGS WaterWatch

Last updated: 2022-07-21

USGS 01101000 PARKER RIVER AT BYFIELD, MA
(Drainage area: 21.3 square miles, length of record: 75 - 76 years)



USGS WaterWatch

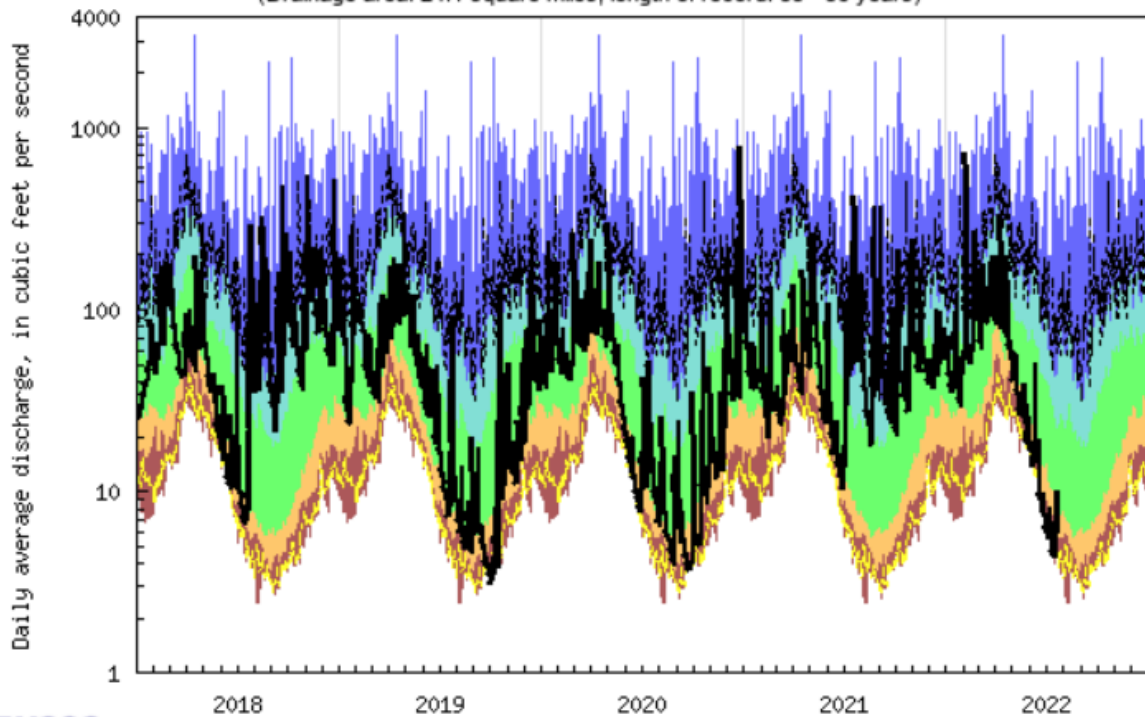
Last updated: 2022-07-21

Explanation - Percentile classes

lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal	Below normal	Normal	Above normal	Much above normal			

Daily Avg. –South River– Western, MA

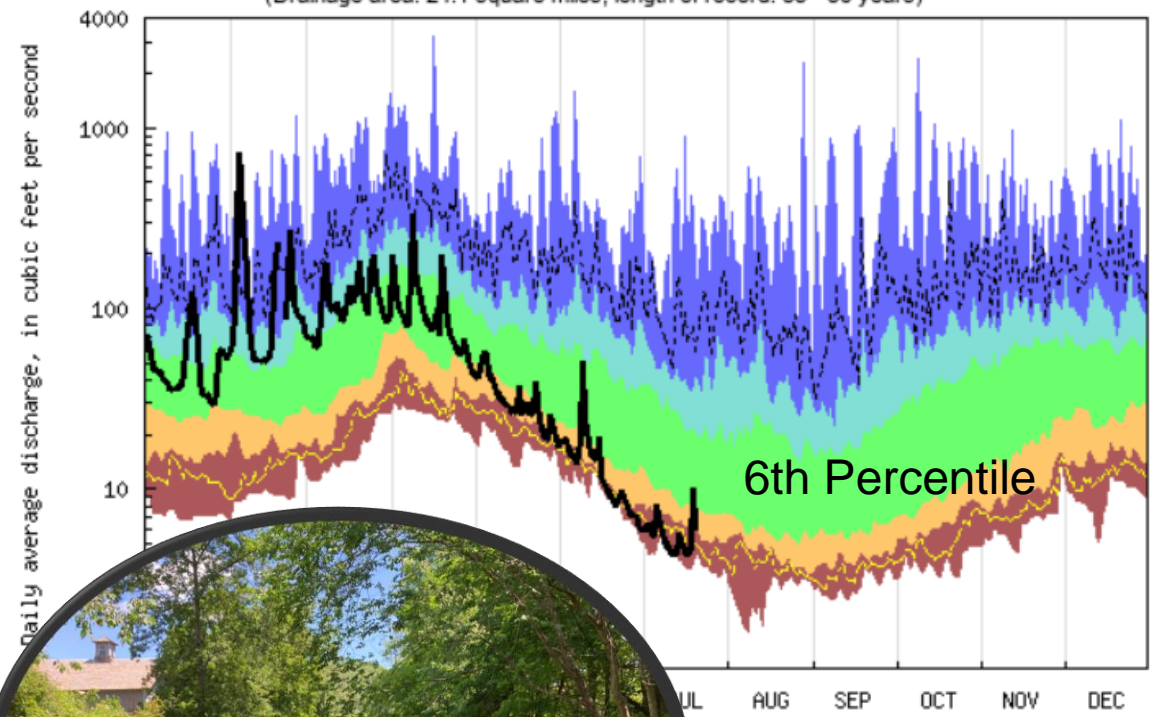
USGS 01169900 SOUTH RIVER NEAR CONWAY, MA
(Drainage area: 24.1 square miles, length of record: 55 - 56 years)



USGS WaterWatch

Last updated: 2022-07-21

USGS 01169900 SOUTH RIVER NEAR CONWAY, MA
(Drainage area: 24.1 square miles, length of record: 55 - 56 years)



6th Percentile

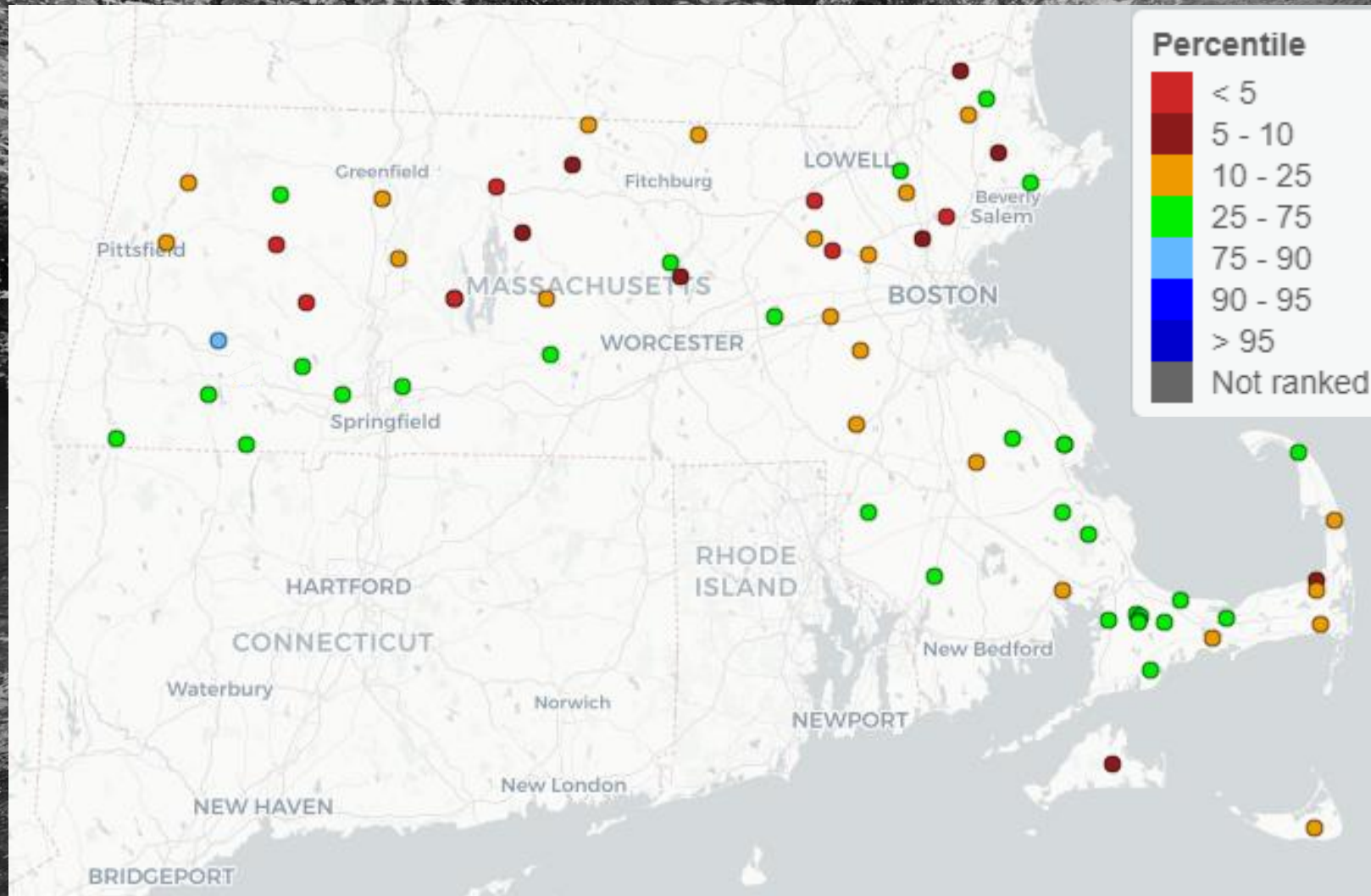
Last updated: 2022-07-21

Explanation - Percentile classes

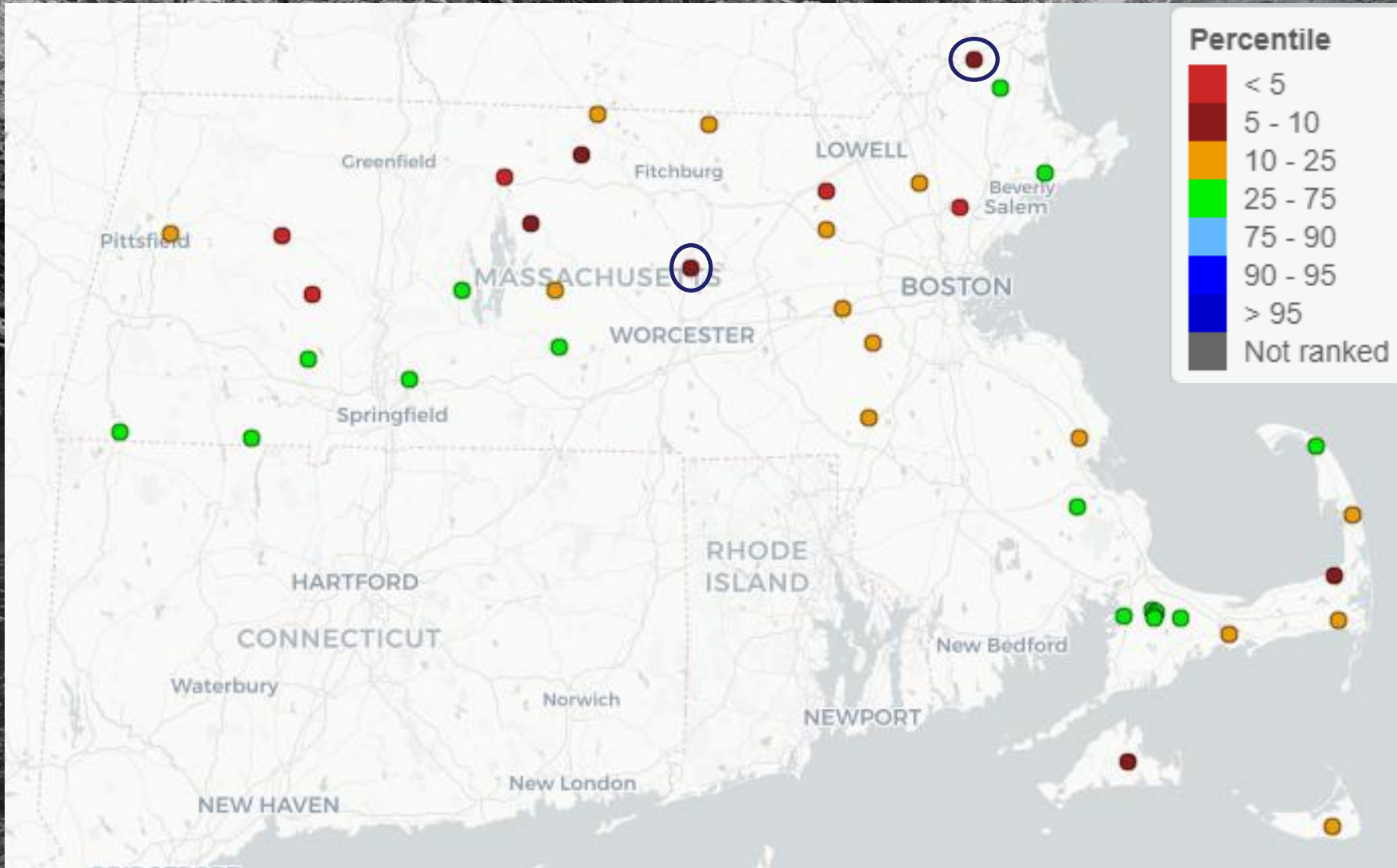
lowest-10th percentile	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal	Flow



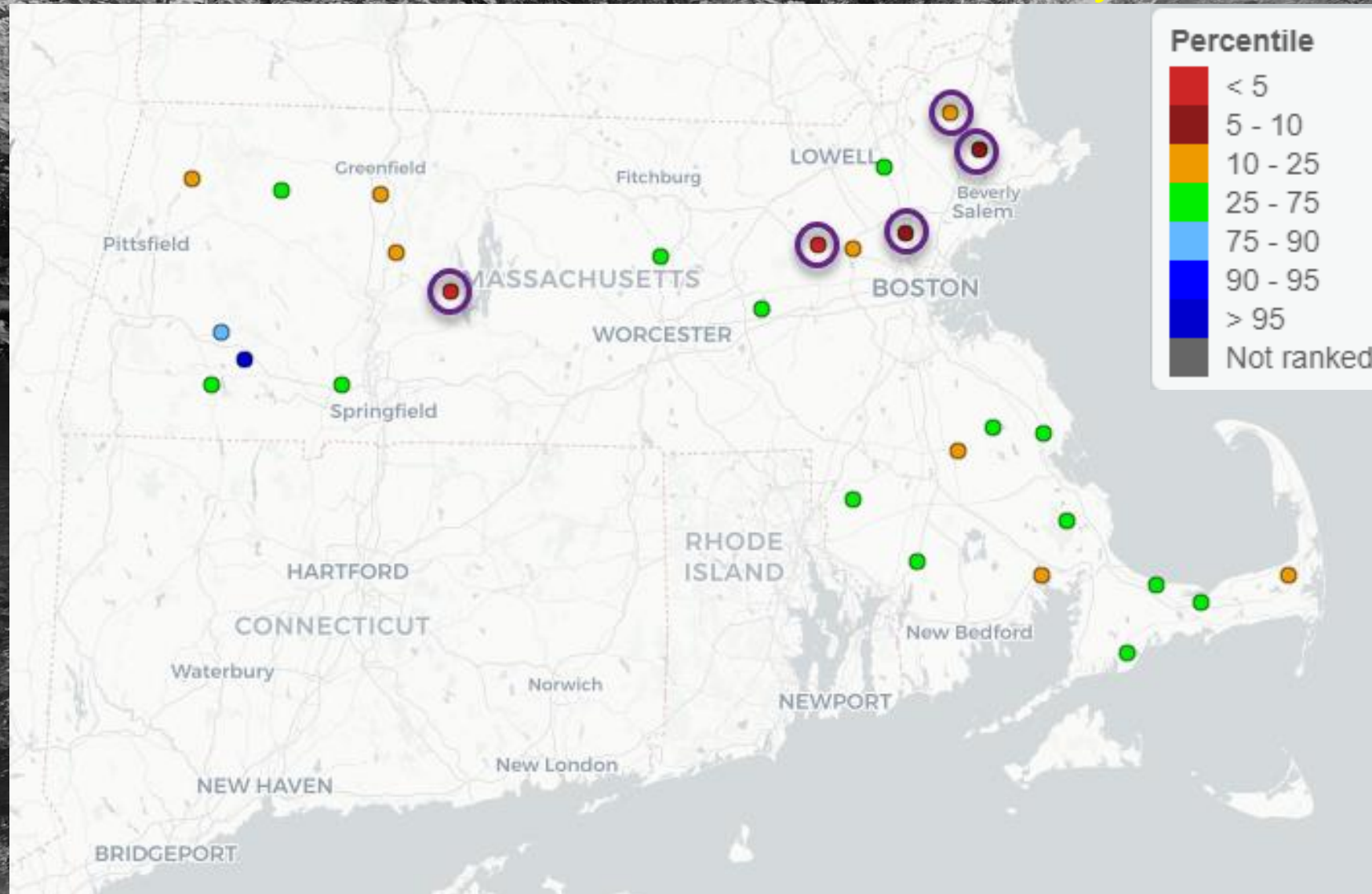
Climate Response Network (CRN) Groundwater Conditions ,late June and July 20, 2022



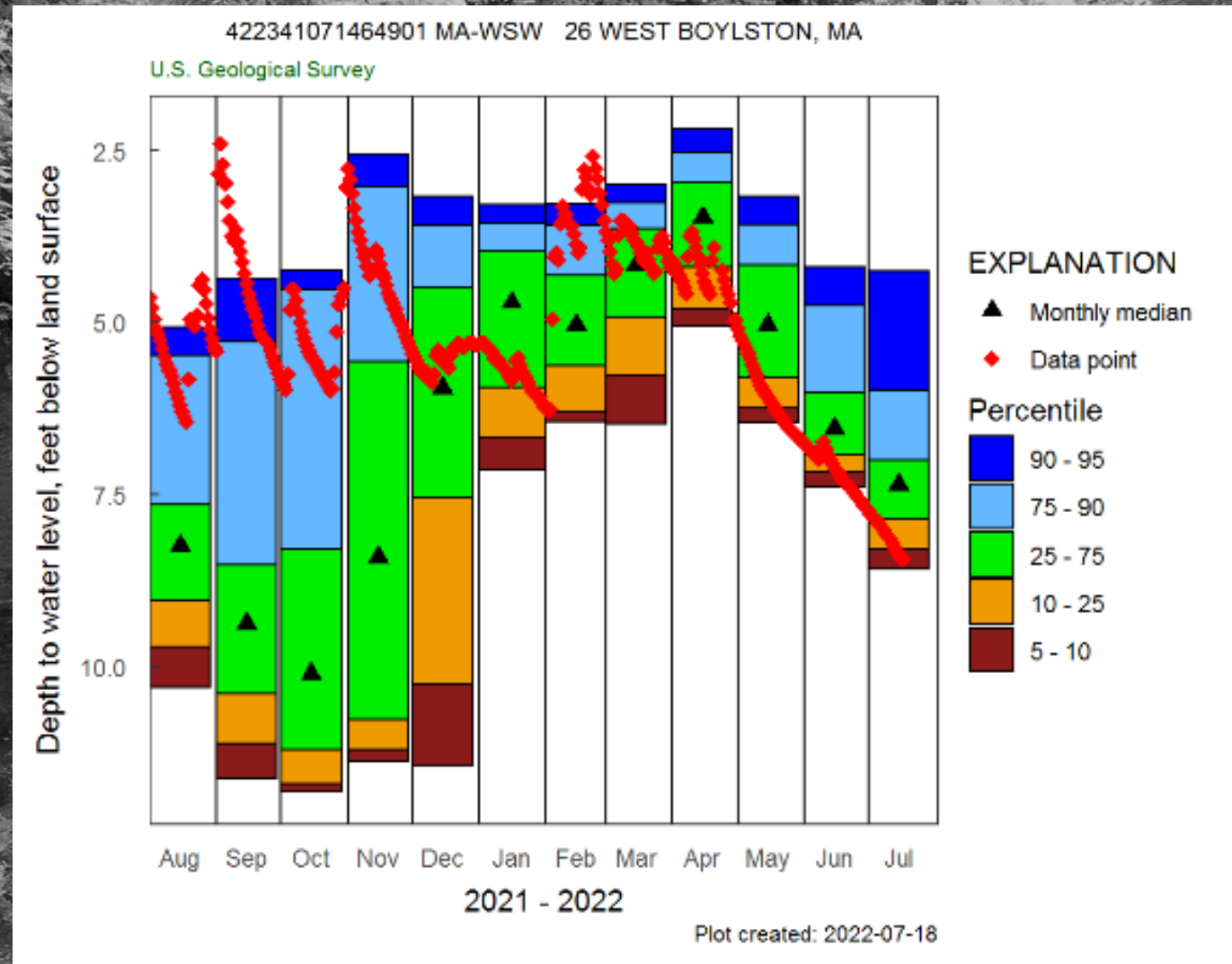
Climate Response Network (CRN) Real time Groundwater Conditions, July 20, 2022



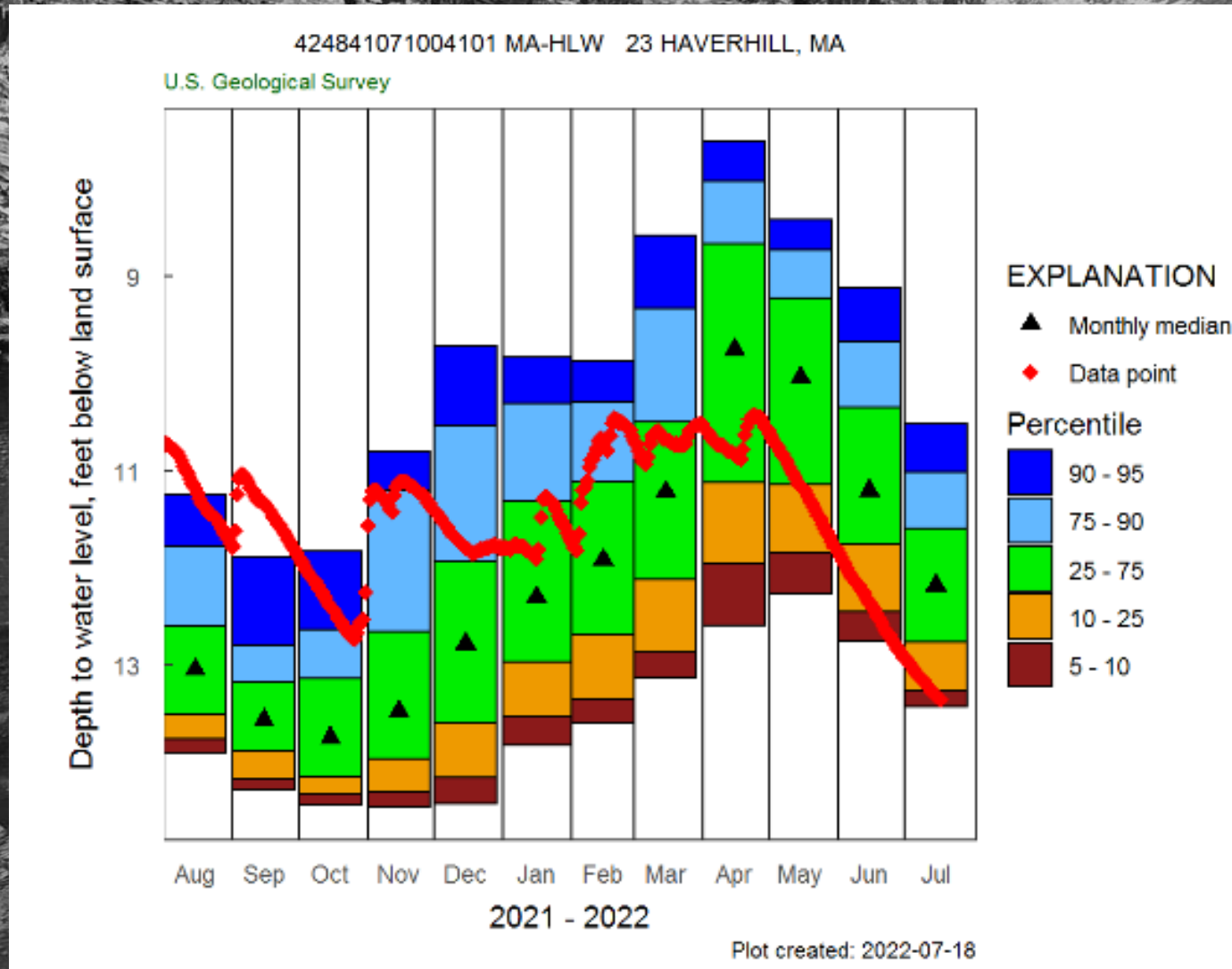
CRN – Discrete Groundwater Conditions, late June and July 20, 2022



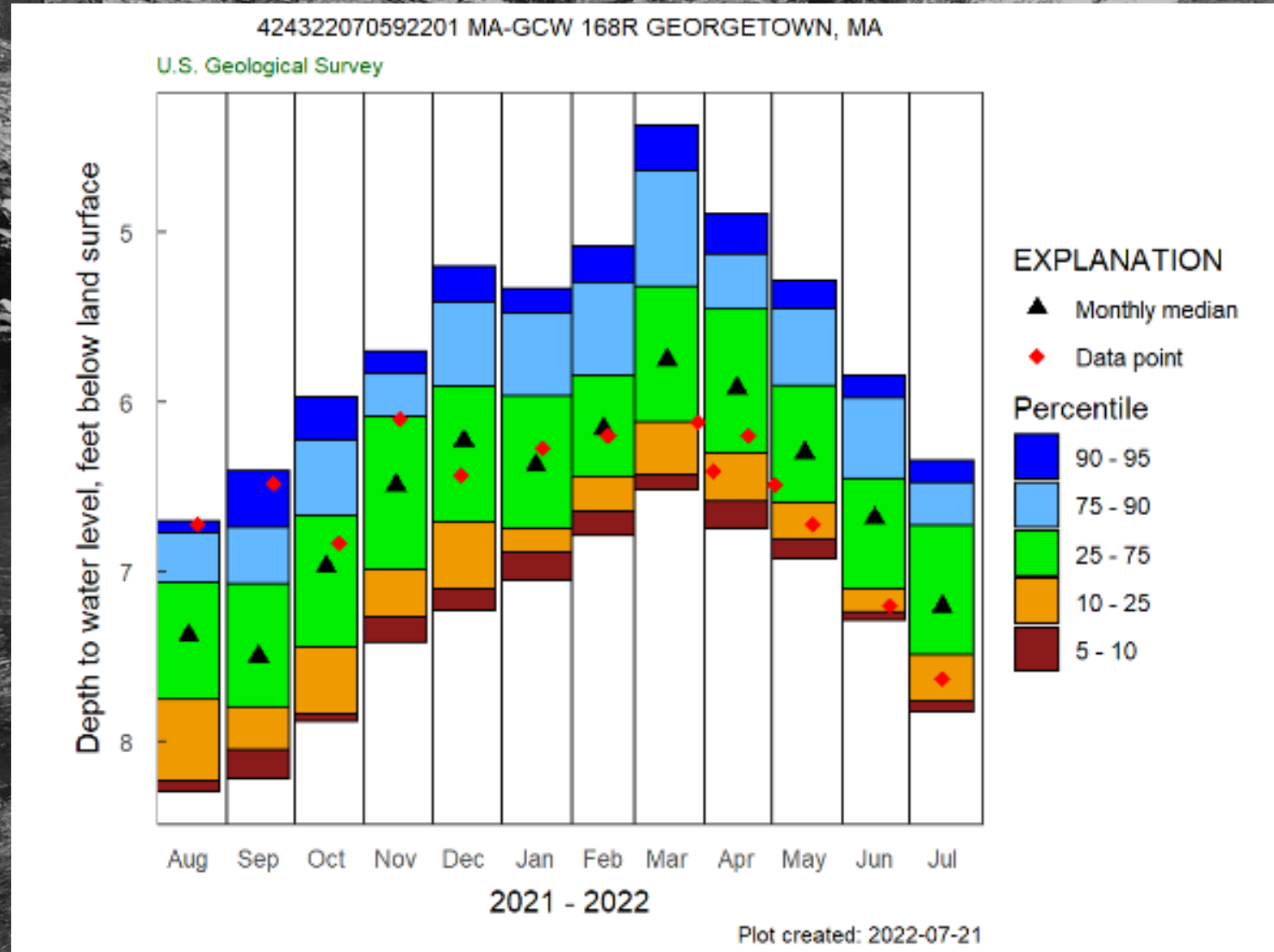
WSW 26 West Boylston, MA



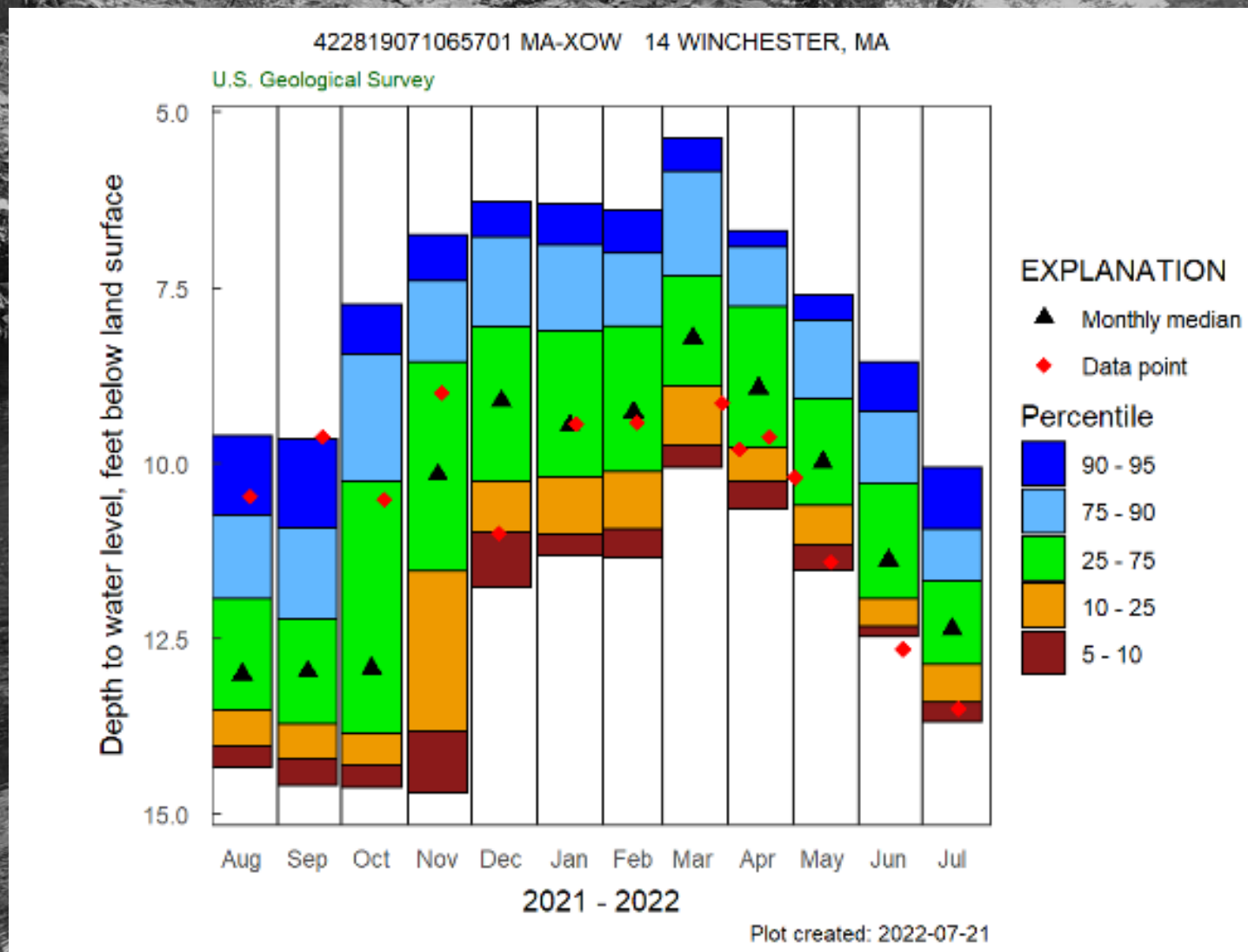
HLW 23 Haverhill, MA



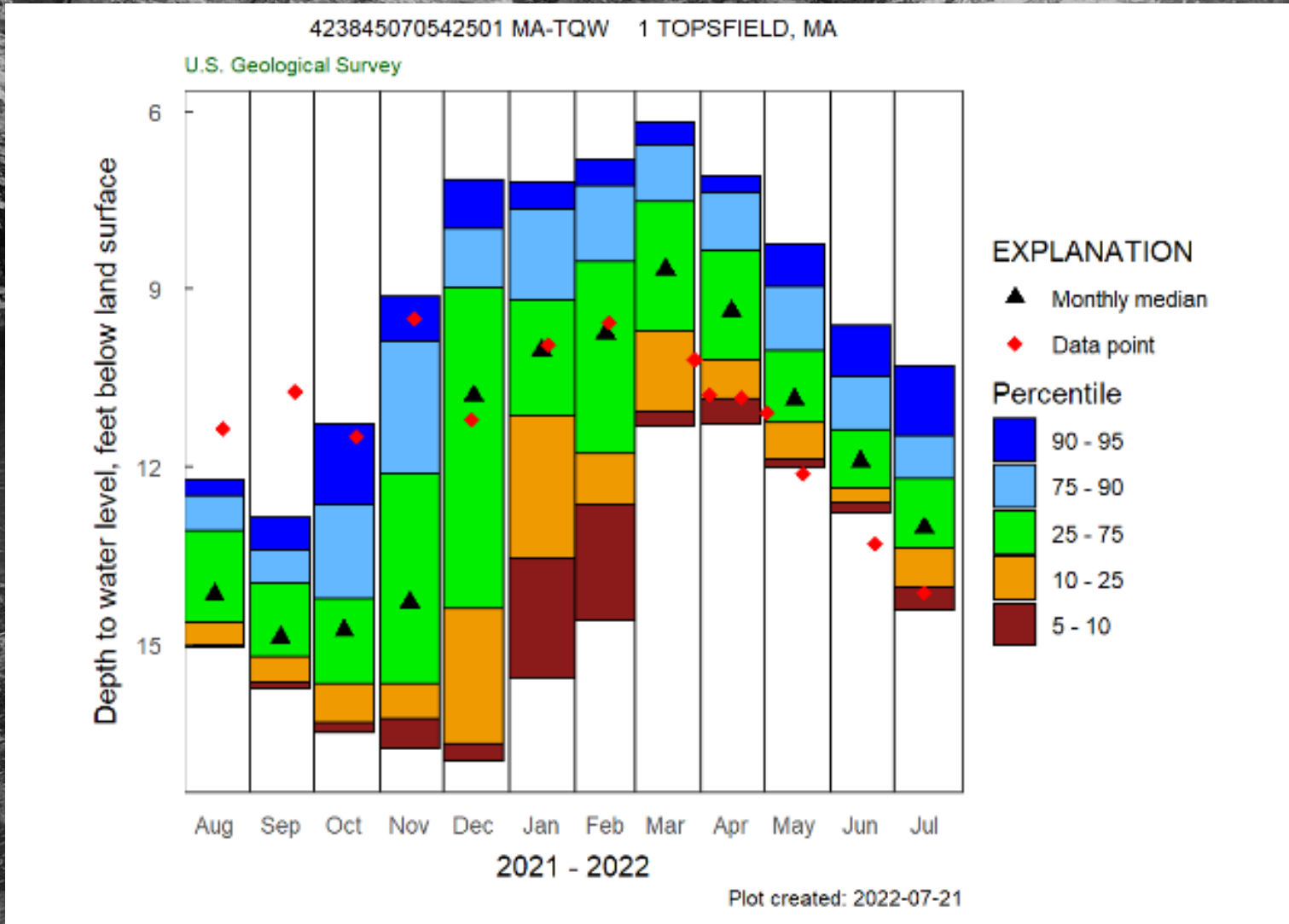
GCW 158R Georgetown, MA



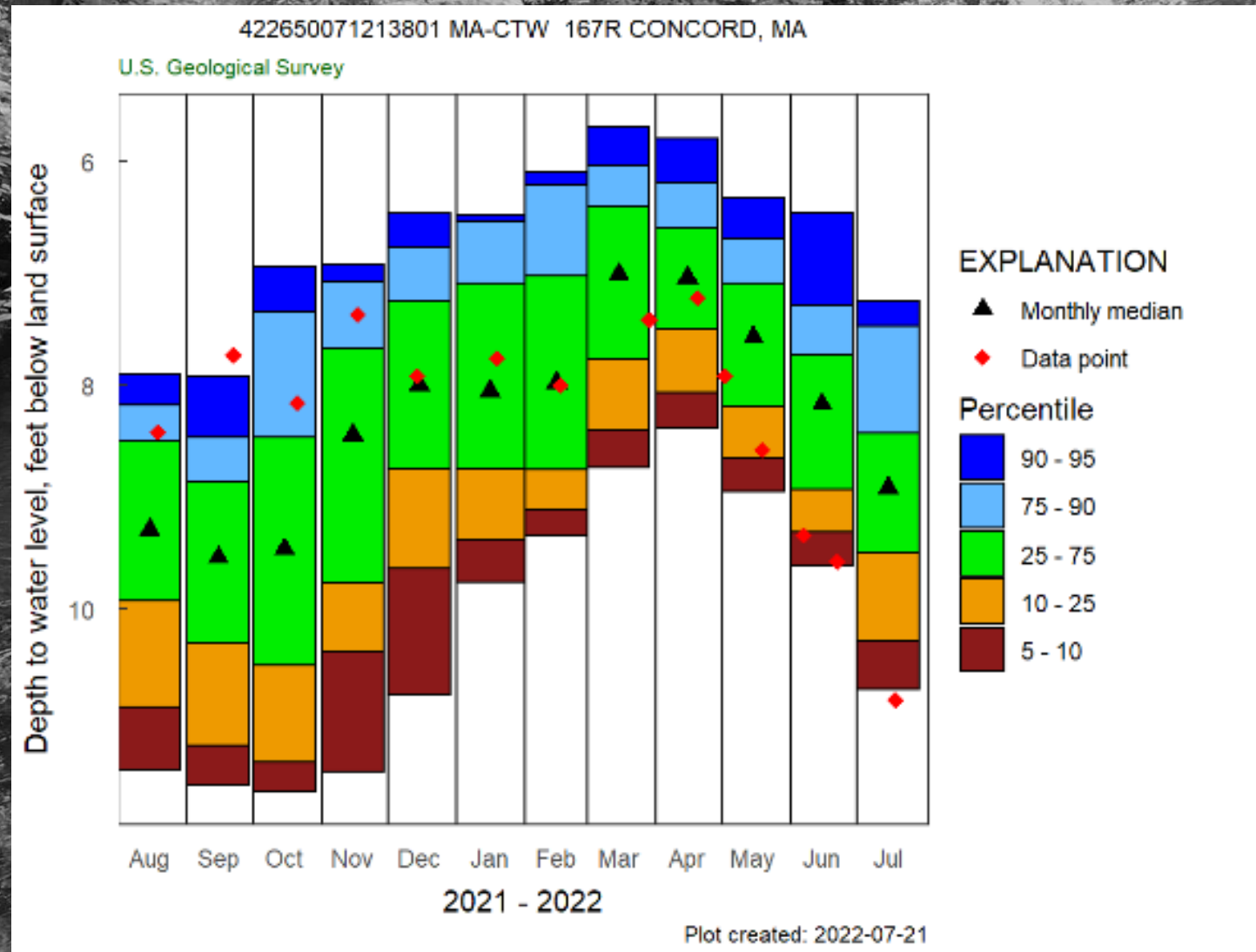
XOW 14 Winchester, MA



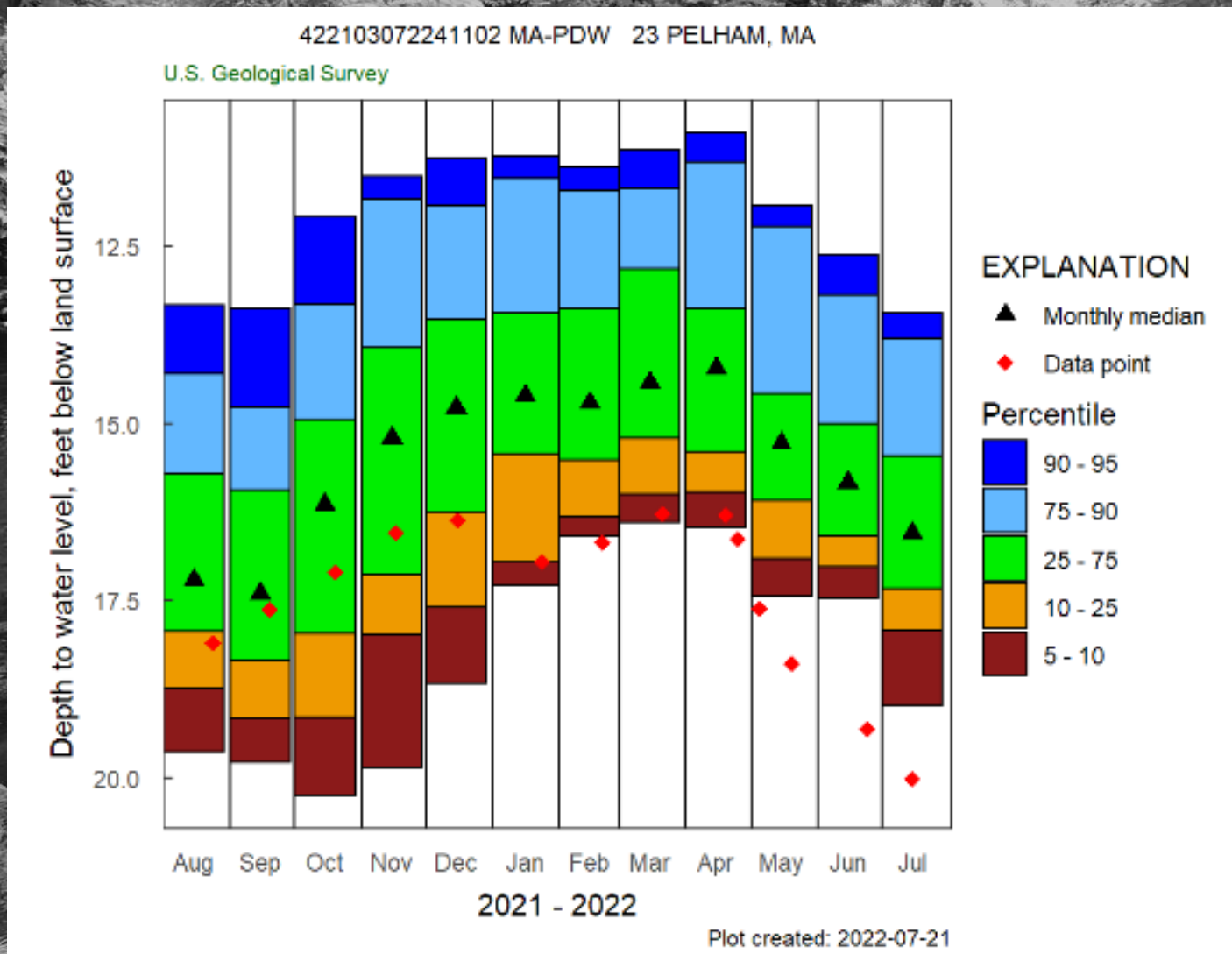
TQW 1 Topsfield, MA



CTW 167R Concord, MA



PDW 23, Pelham MA



Questions?