

Streamflow and Groundwater Conditions in Massachusetts

October 06, 2022

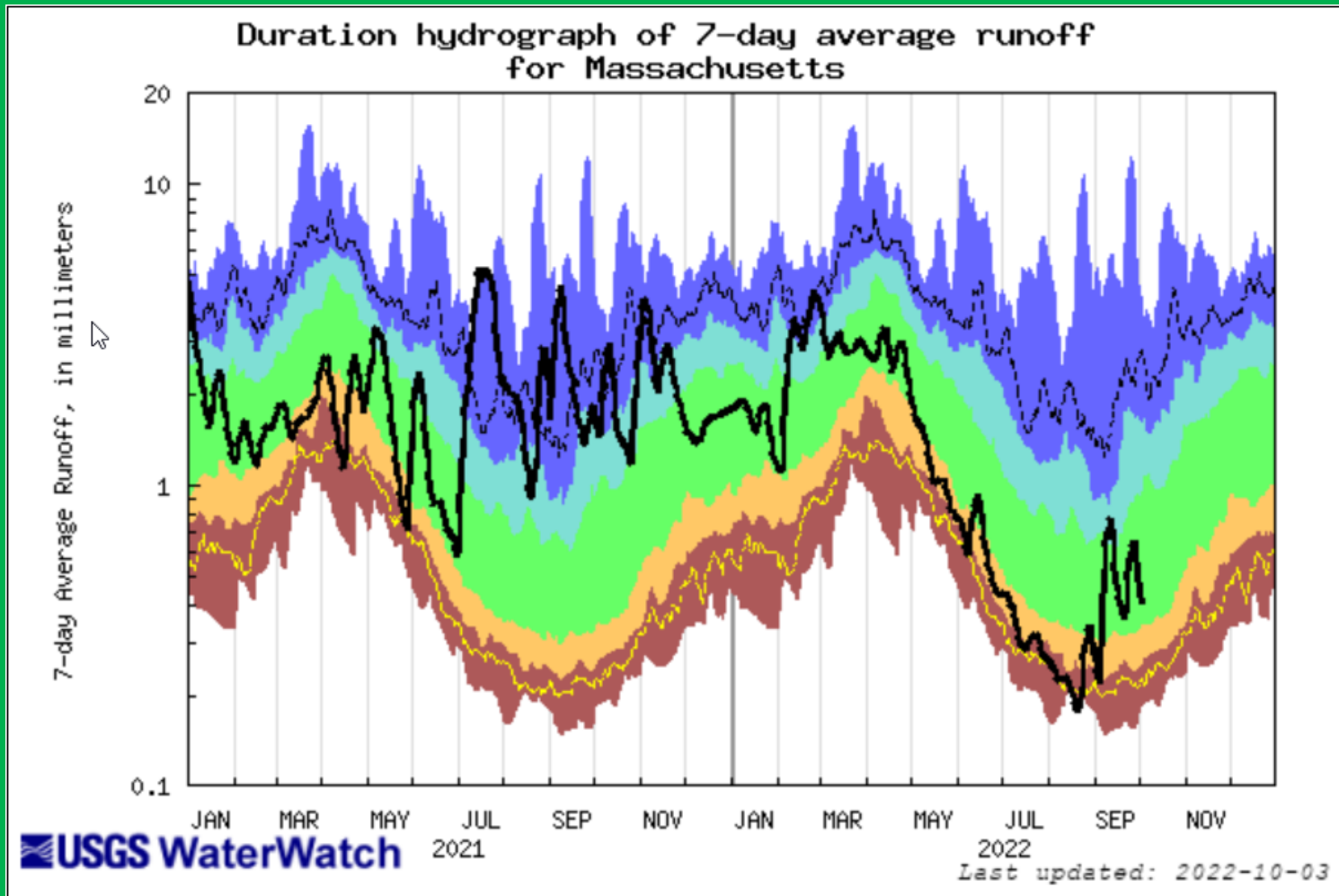
Chris Bruet

U.S. Geological Survey

New England Water Science Center



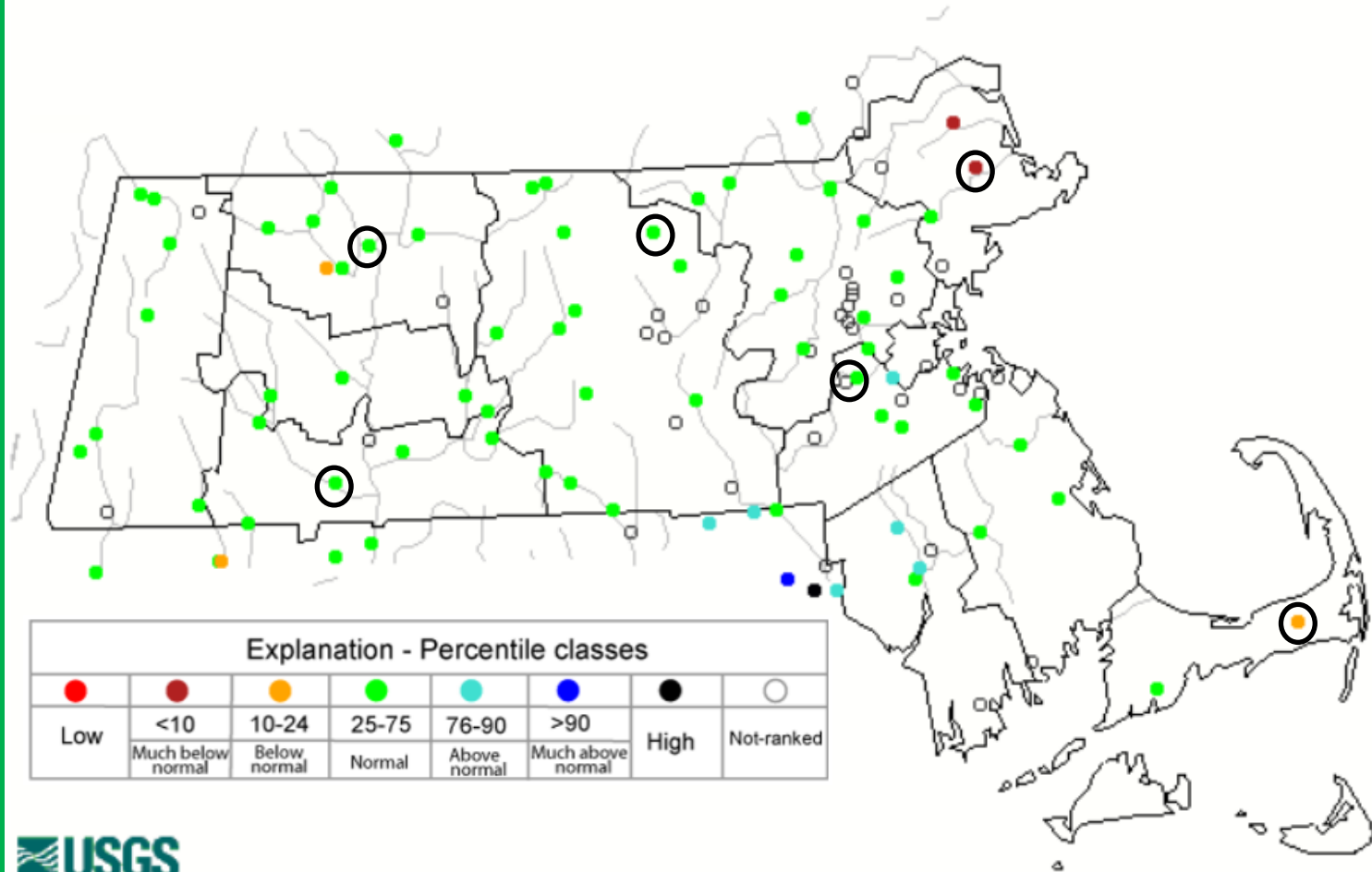
7-Day Streamflow Conditions Jan. 01, 2021 - Dec. 31, 2022



| 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 | | Runoff |

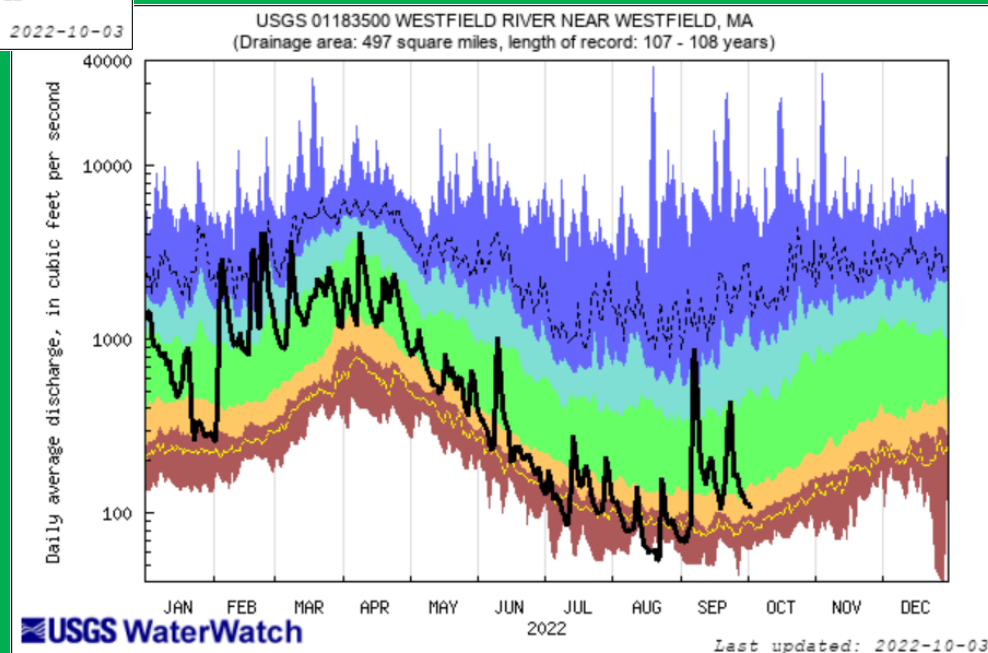
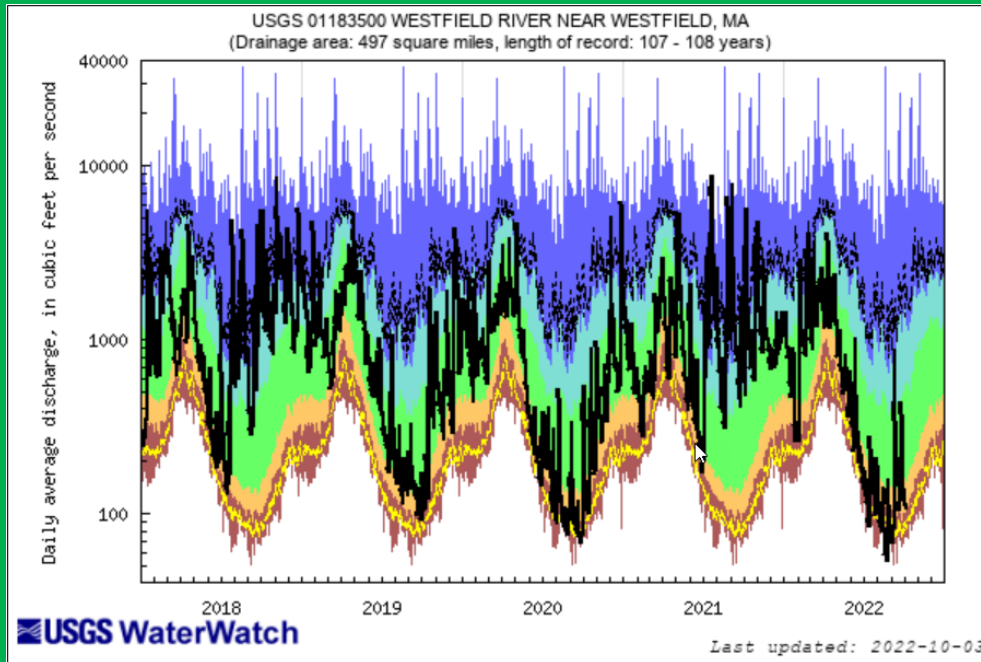
Monthly Average Streamflow

September 2022



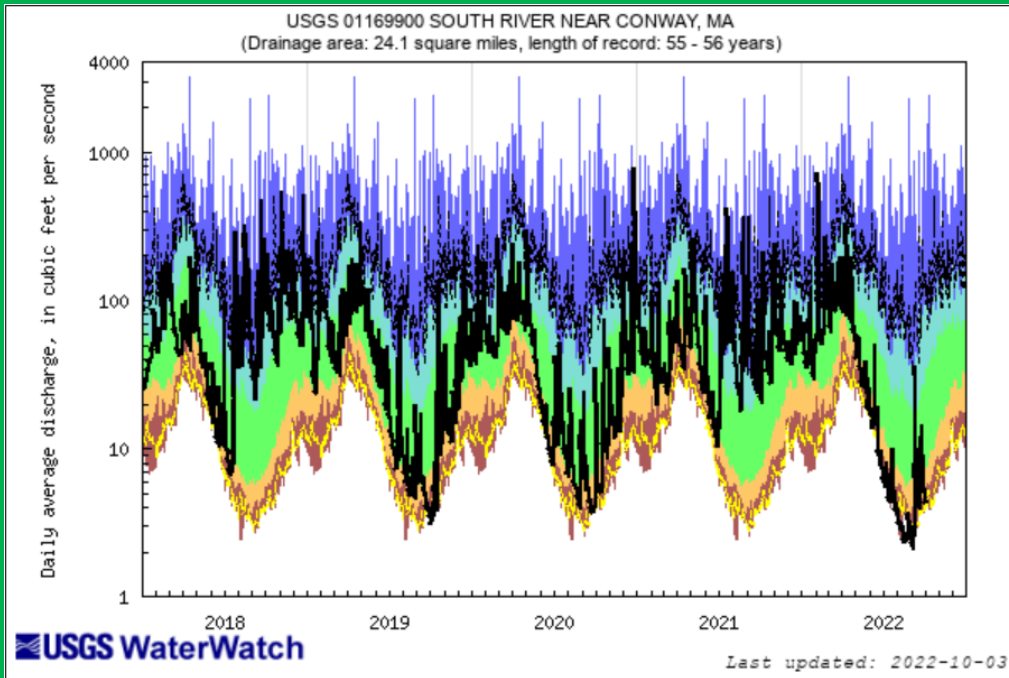
Daily Avg. –Westfield River– Western MA

(NWS River Forecast Station)



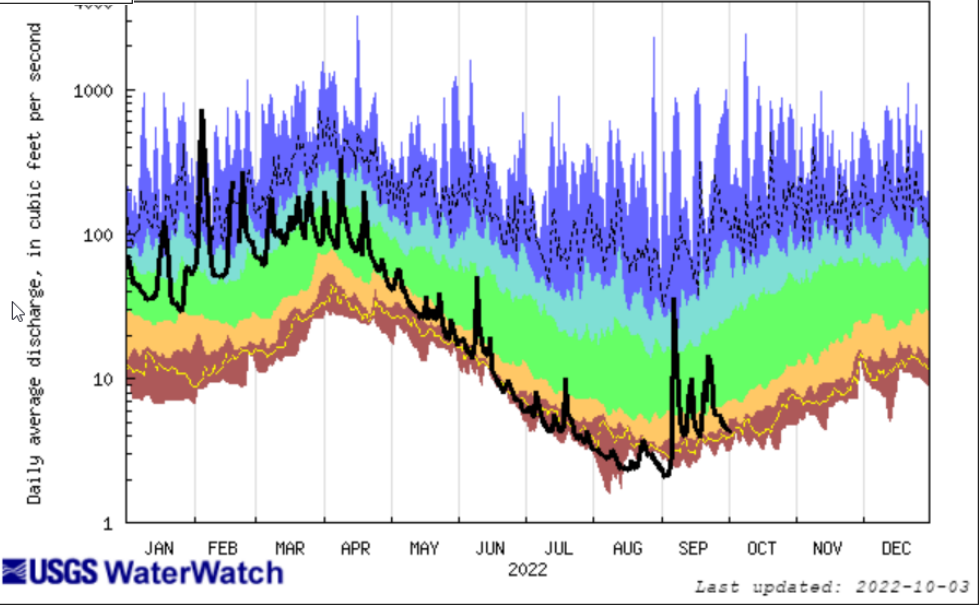
| Explanation - Percentile classes | | | | | | |
|----------------------------------|--------------|--------|--------------|-------------------|----|--------------------------|
| lowest-10th percentile | 5 | 10-24 | 25-75 | 76-90 | 95 | 90th percentile -highest |
| Much below Normal | Below normal |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

Daily Avg. – South River– Western MA



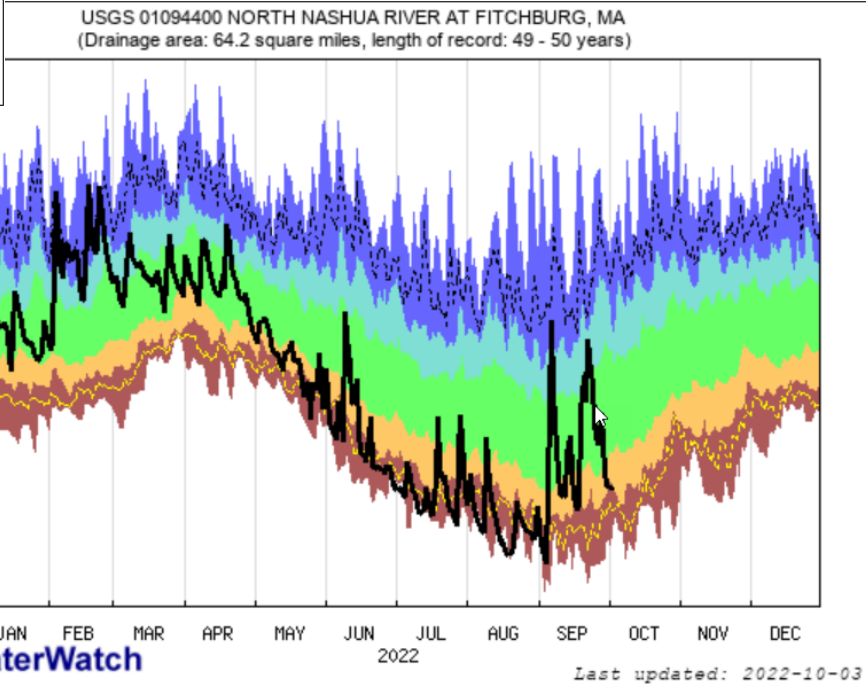
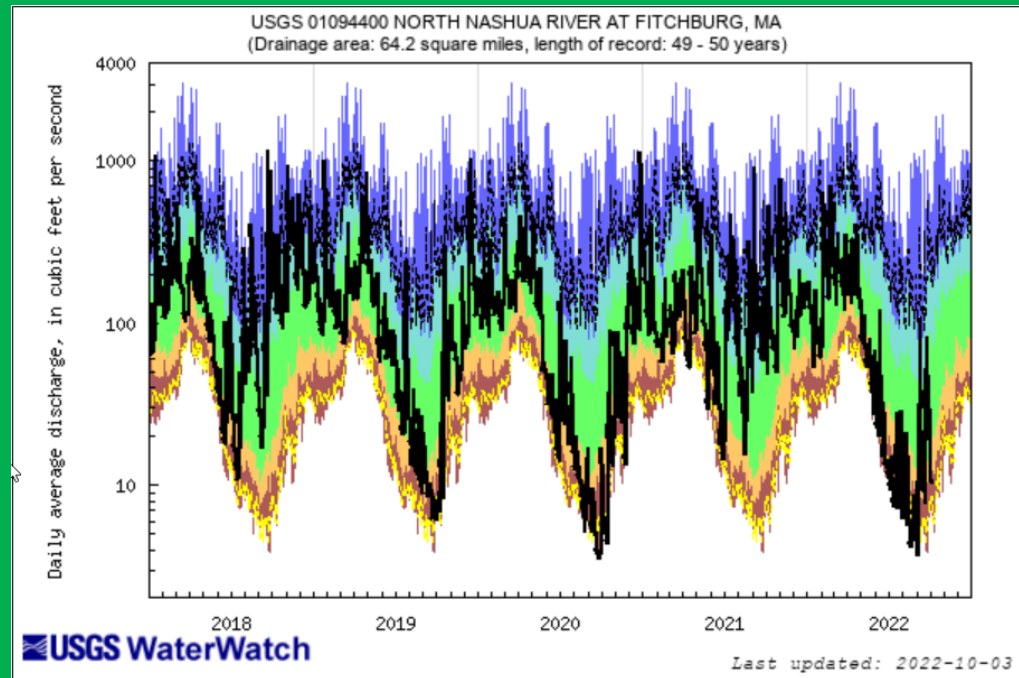
USGS 01169900 SOUTH RIVER NEAR CONWAY, MA
(Drainage area: 24.1 square miles, length of record: 55 - 56 years)

| 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. – N. Nashua River – Northeastern/Central MA

(NWS River Forecast Station)

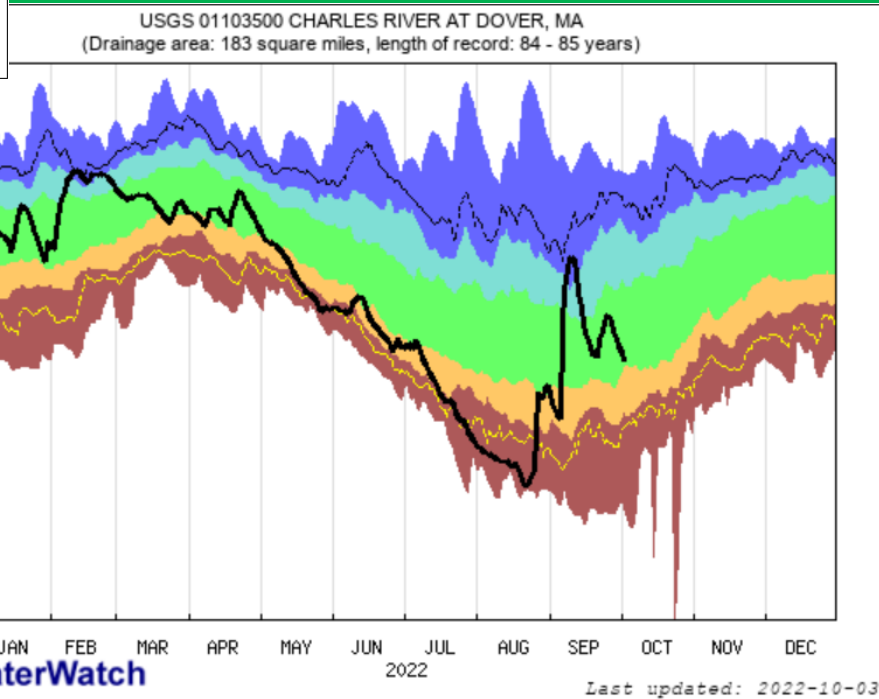
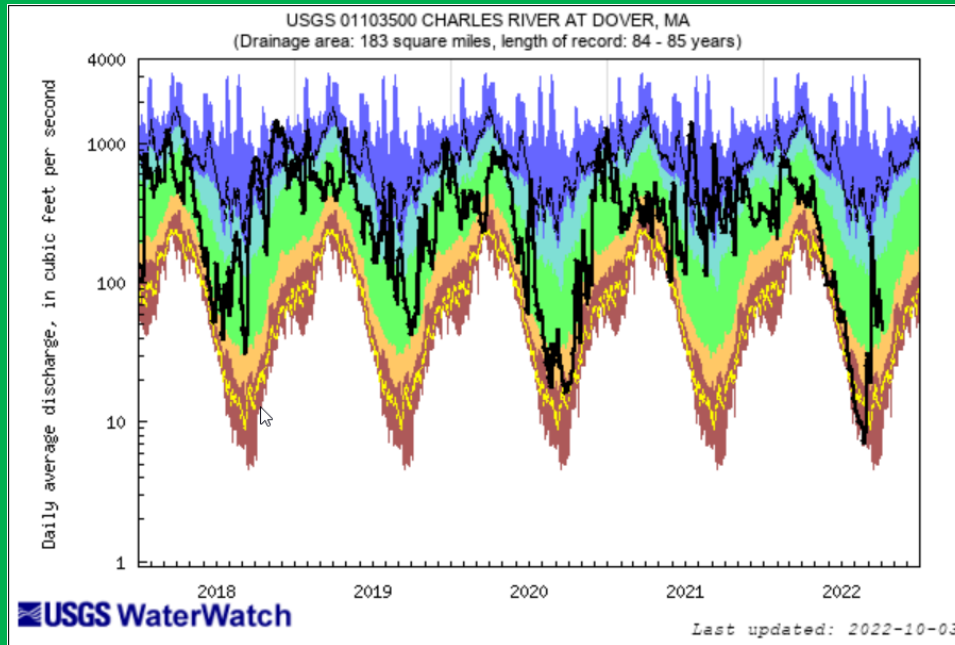


| Explanation - Percentile classes | | | | | | |
|----------------------------------|--------------|--------|--------------|-------------------|----|--------------------------|
| lowest-10th percentile | 5 | 10-24 | 25-75 | 76-90 | 95 | 90th percentile -highest |
| Much below Normal | Below normal |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



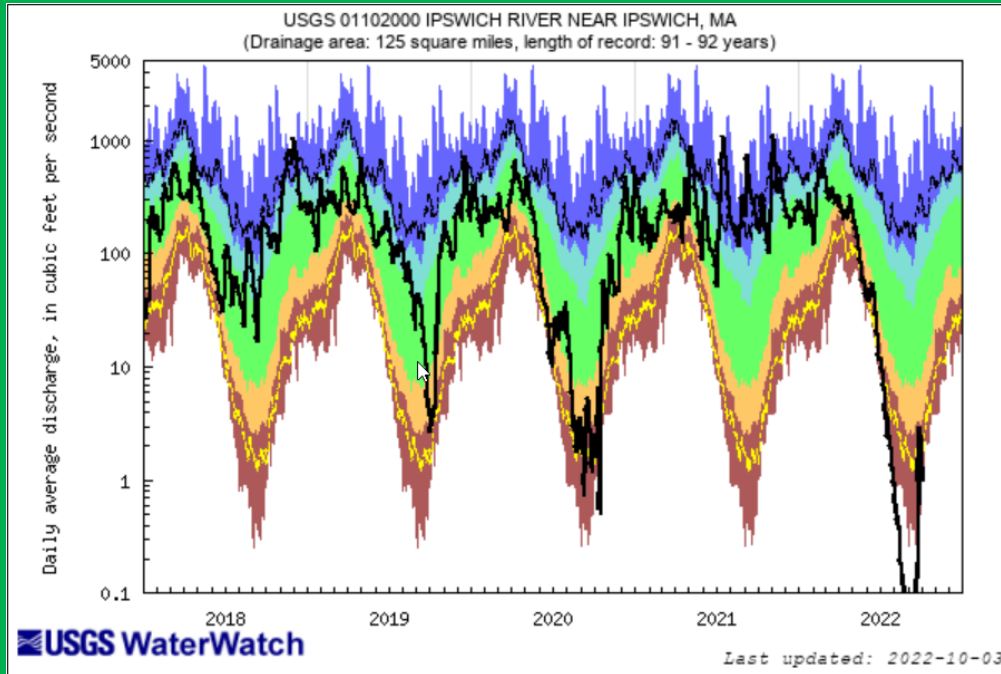
Daily Avg. – Charles River – Eastern MA

(NWS River Forecast Station)



| 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 | | | |

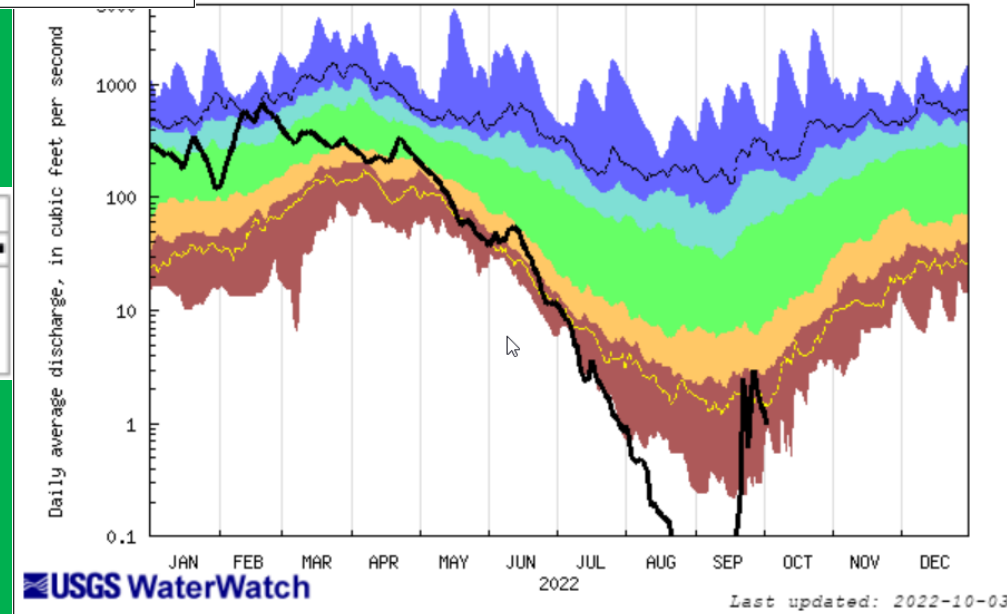
Daily Avg. Ipswich River– Northeastern MA



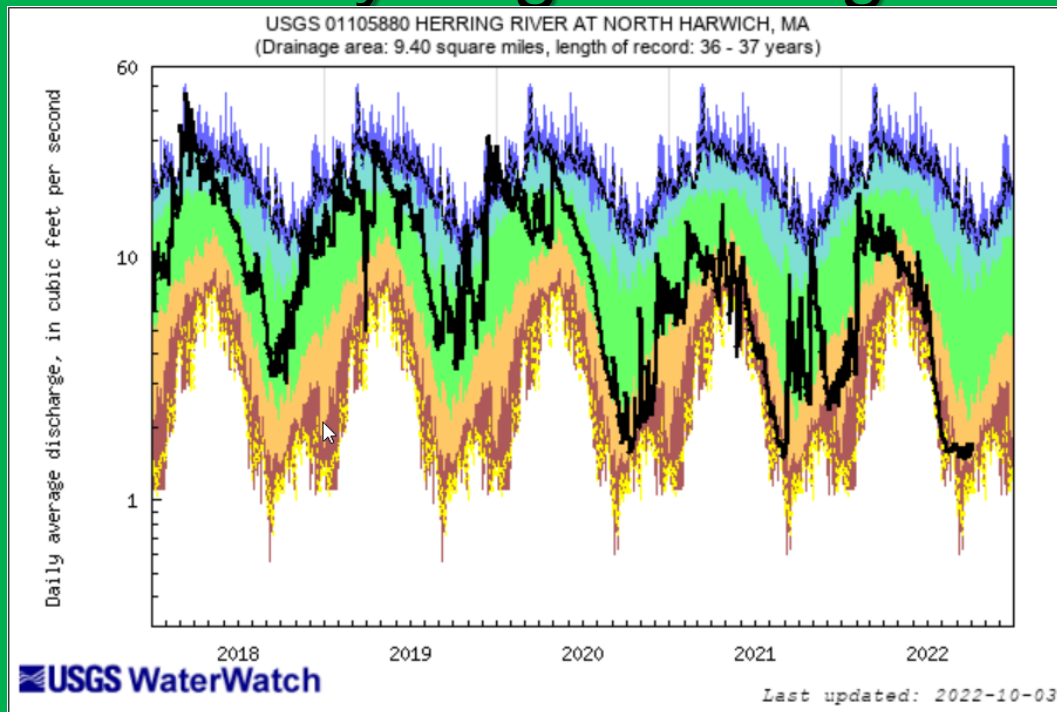
USGS 01102000 IPSWICH RIVER NEAR IPSWICH, MA
(Drainage area: 125 square miles, length of record: 91 - 92 years)

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 | | | |

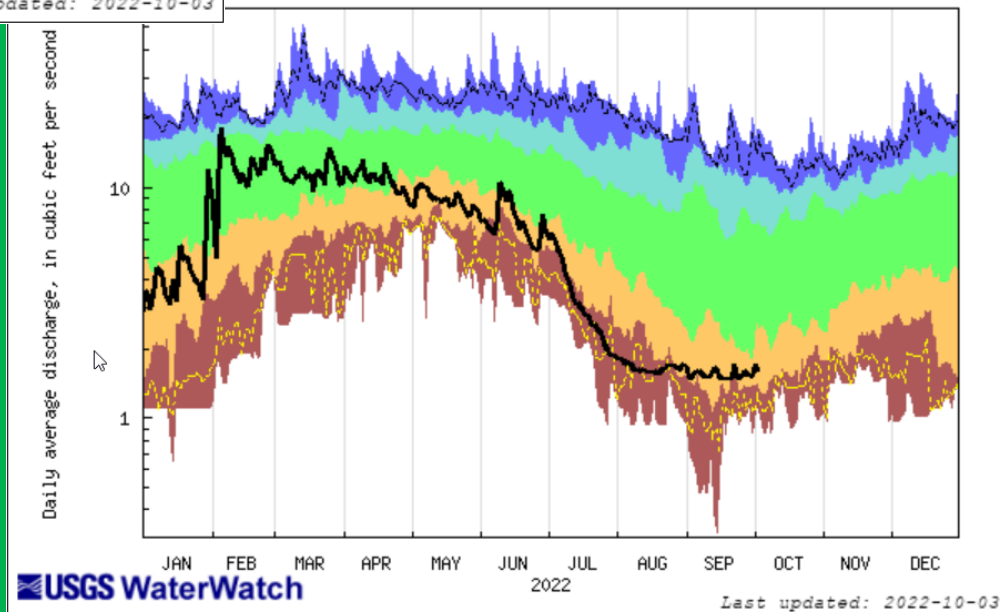


Daily Avg. Herring River – Cape Cod

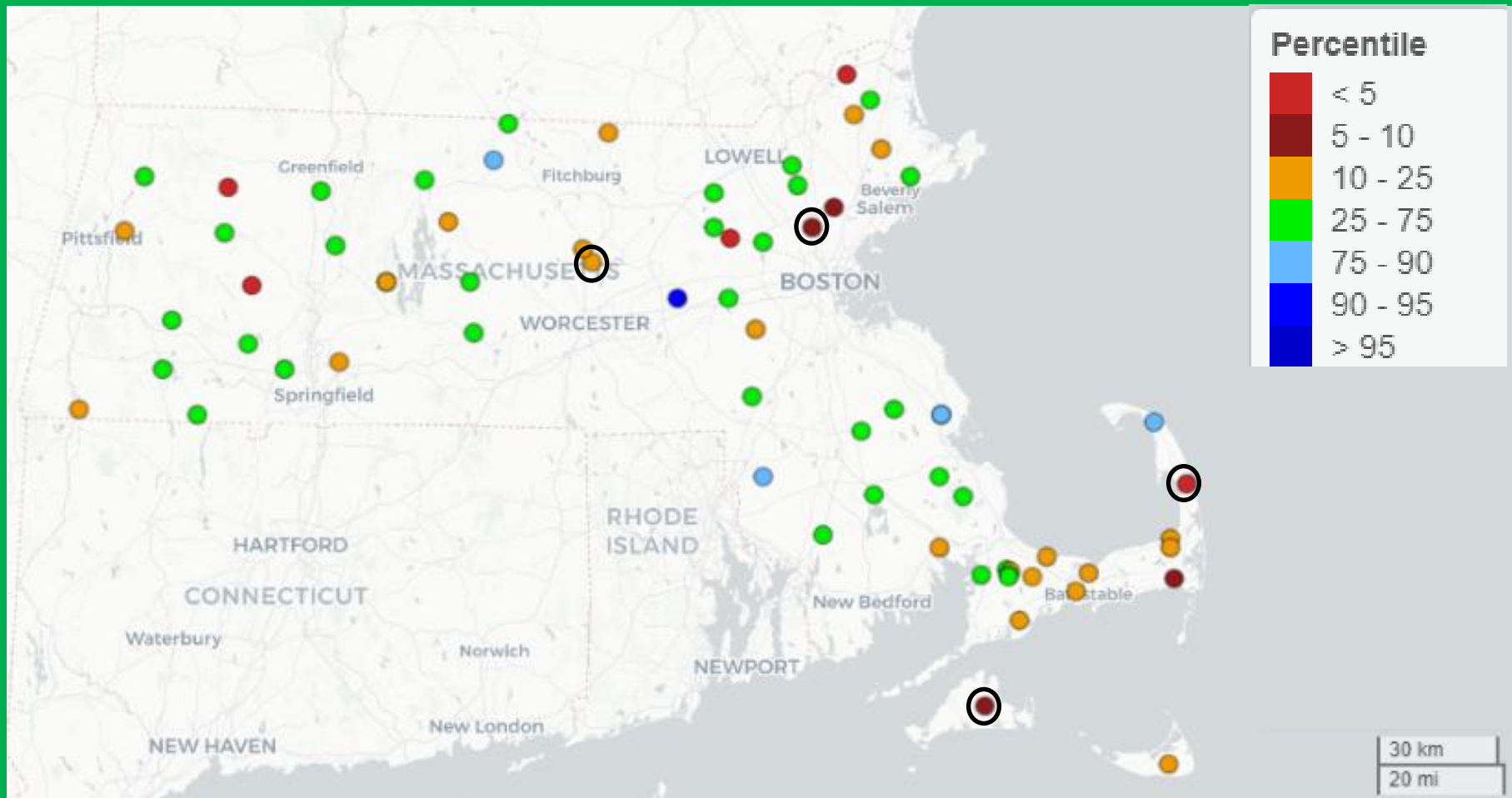


USGS 01105880 HERRING RIVER AT NORTH HARWICH, MA
(Drainage area: 9.40 square miles, length of record: 36 - 37 years)

| 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 | | | |



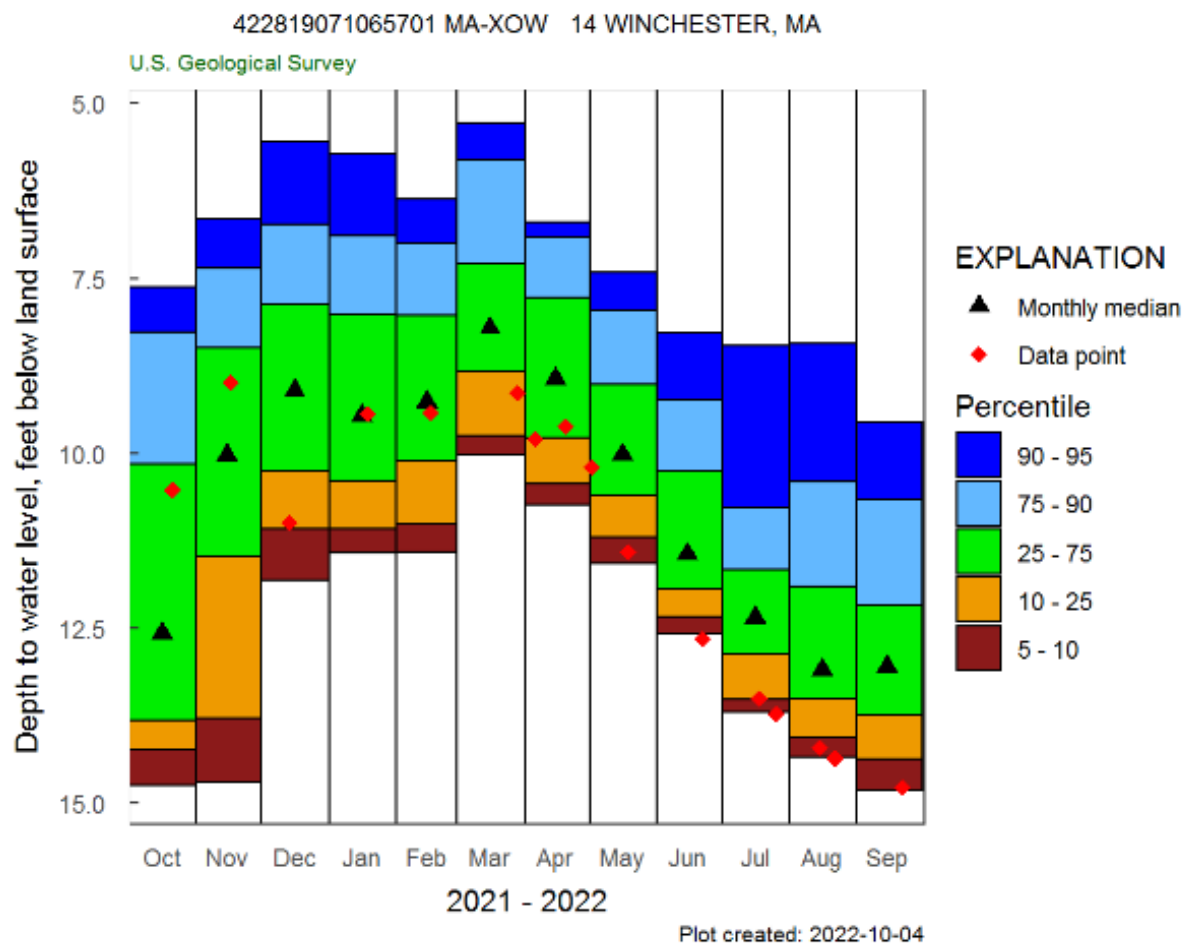
Climate Response Network (CRN) Groundwater Conditions, September 31, 2022



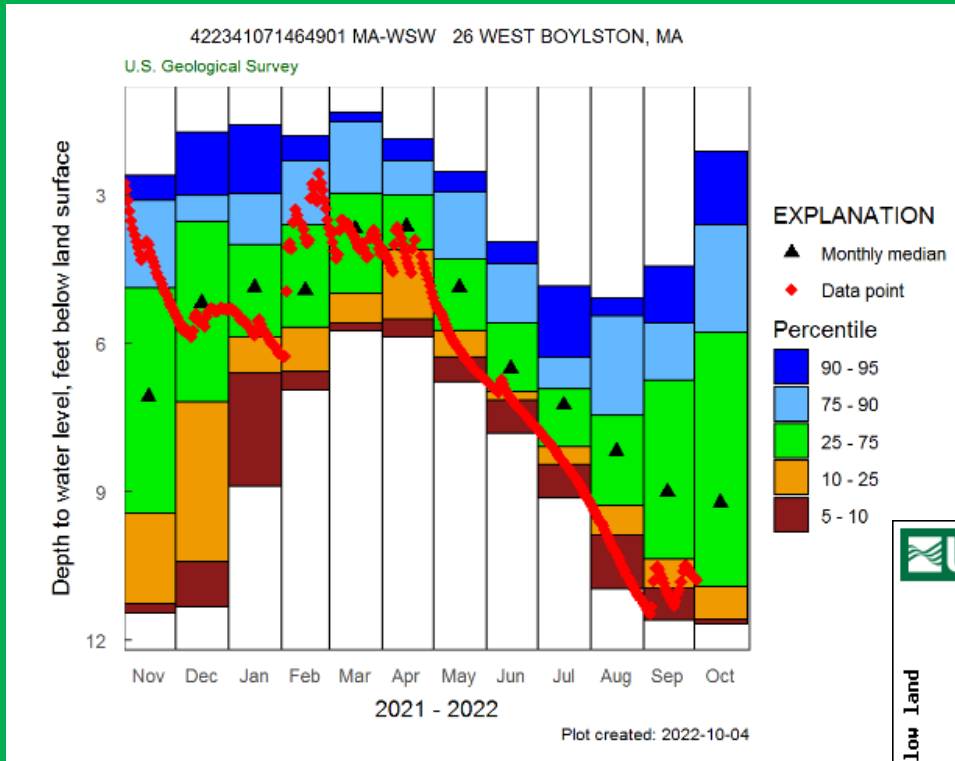
XOW 14, Winchester, MA

Period of Record

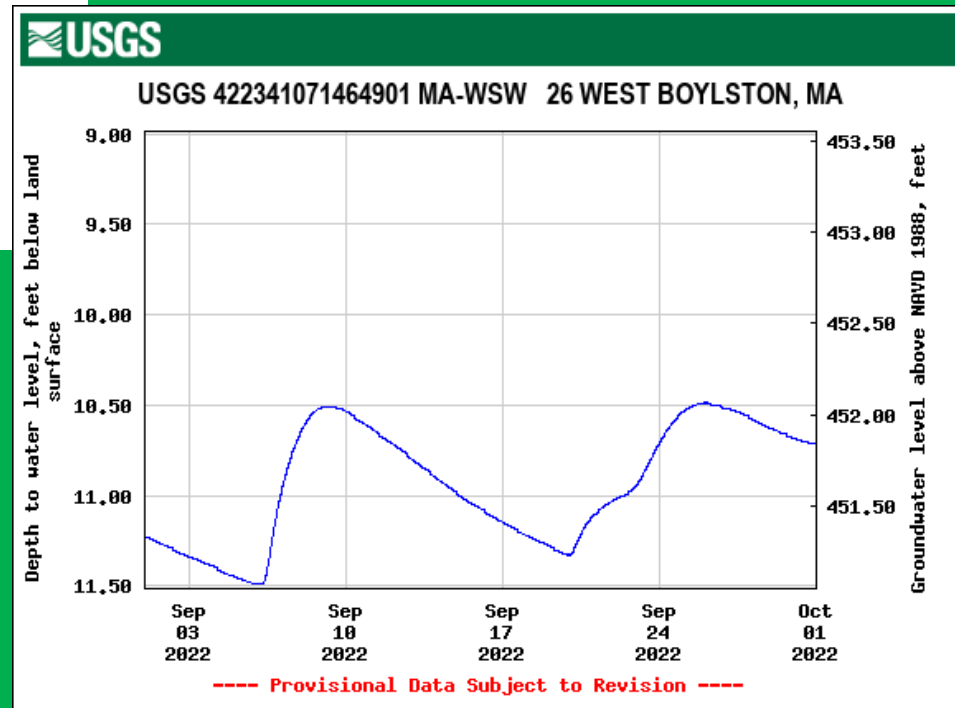
1940 – present



BMW 26 West Boylston, MA



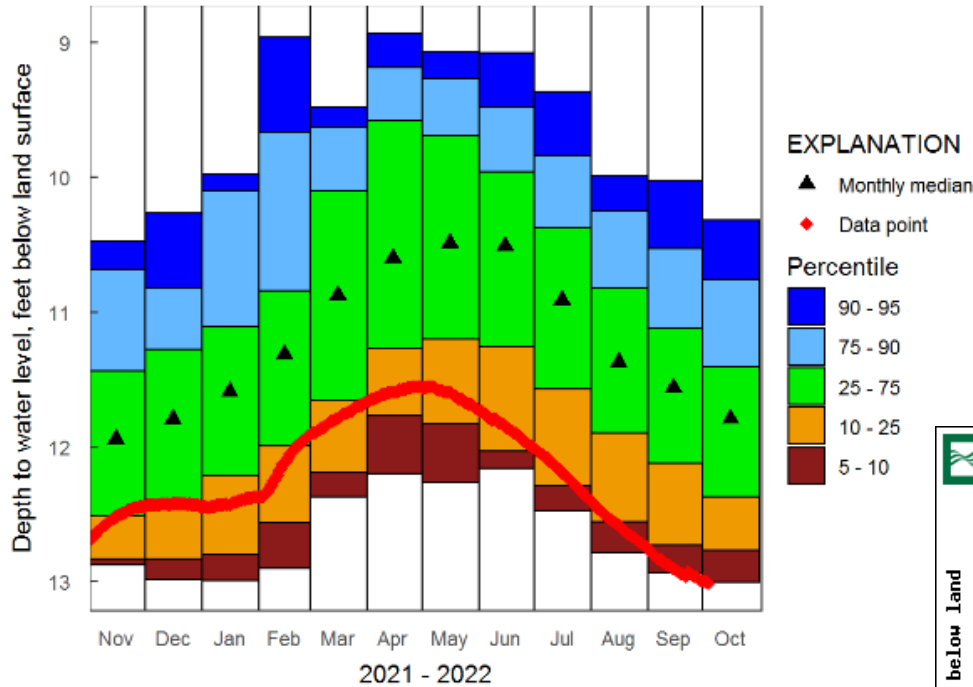
Period of Record
1995 – present



WNW 17R Wellfleet, MA

415354069585201 MA-WNW 17R WELLFLEET, MA

U.S. Geological Survey

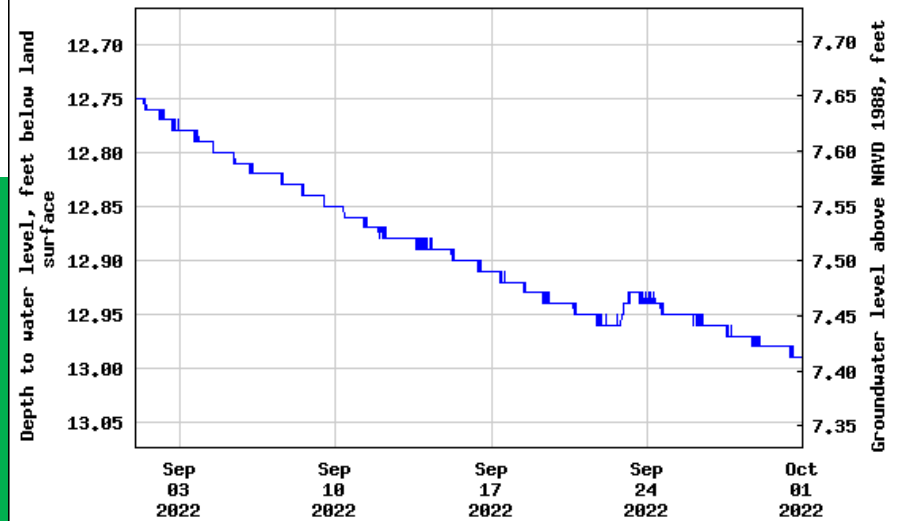


Period of Record

1962 – present



USGS 415354069585201 MA-WNW 17R WELLFLEET, MA

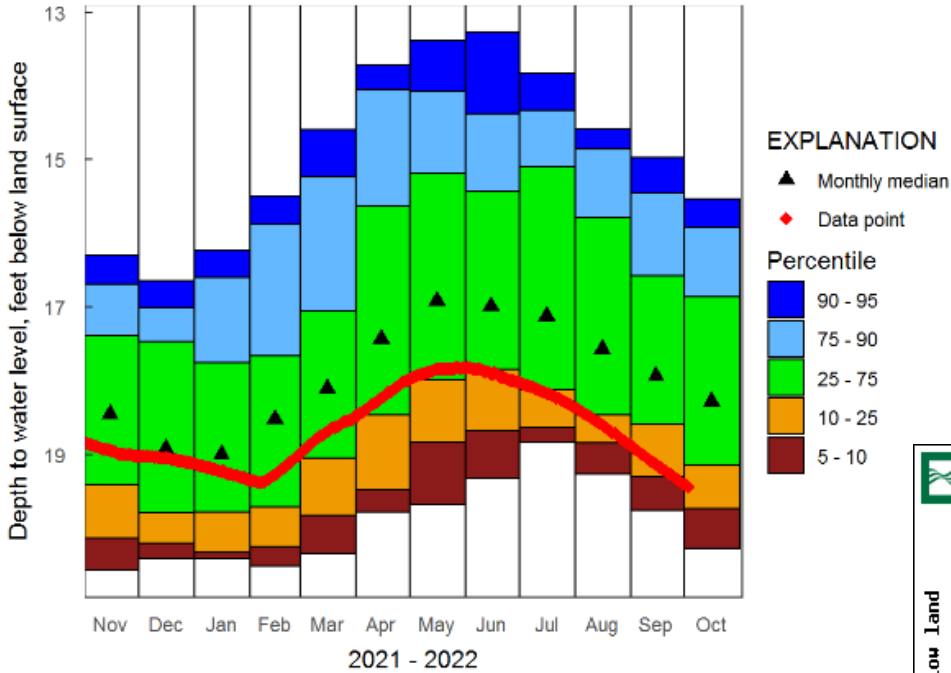


----- Provisional Data Subject to Revision -----

ENW 52, Edgartown, MA

412346070353403 MA-ENW 52 EDGARTOWN, MA

U.S. Geological Survey



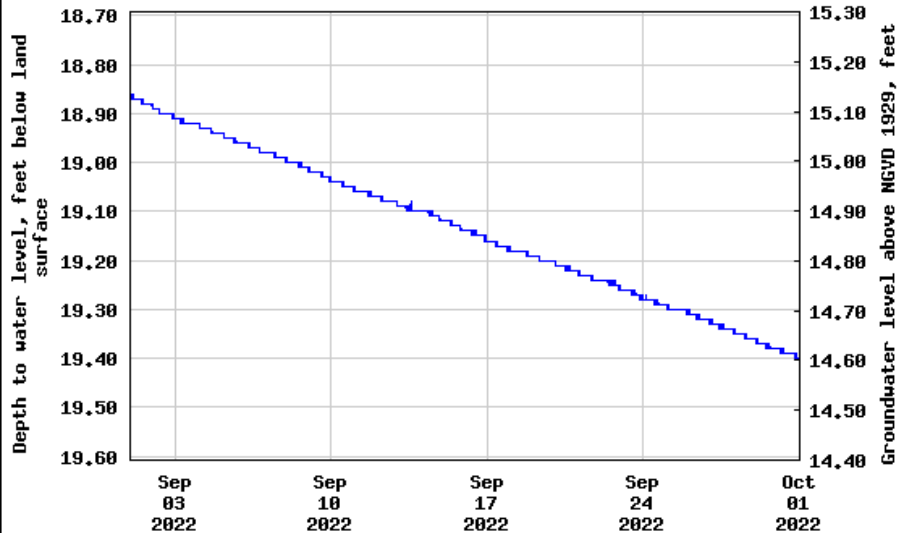
Plot created: 2022-10-04

Period of Record

1976 – present



USGS 412346070353403 MA-ENW 52 EDGARTOWN, MA



----- Provisional Data Subject to Revision -----

Questions?

