Drought Task Force Meeting July 6, 2023

MassDEP-Water Management Program Update Duane LeVangie, Program Chief

WMA Permits

- Most WMA Permits require reductions in nonessential water uses when one or more of the following are triggered from 5/1 -9/30:
 - Specific streamflow triggers generally include
 - June ABF is the May-June trigger
 - August ABF is the July –September trigger
 - Groundwater elevations on Cape, Islands and parts of Southeastern MA
 - Triggers are the period of record monthly 25th percentile depth to water level values, as determined and published by the USGS.
 - Drought Declaration or 7-Day Low Flow

Stream Gage Readings

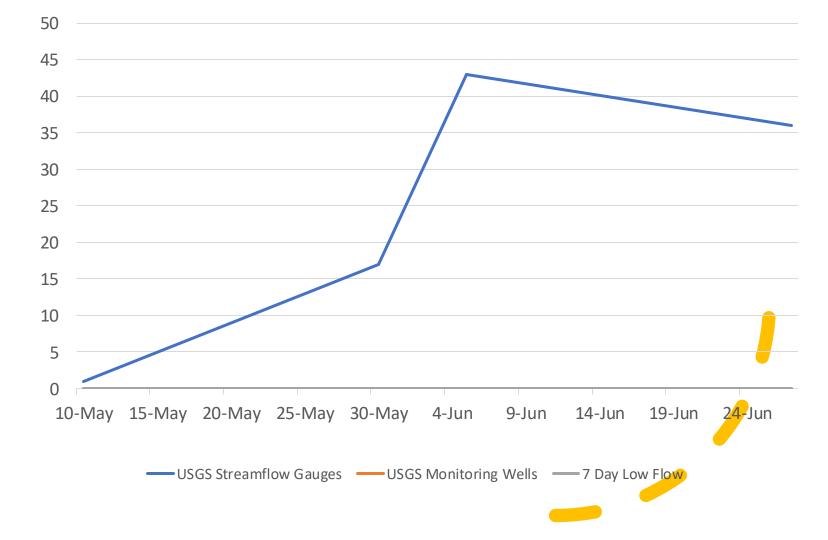
	May-June	July-Sep	IHA 7-Day								
	Trigger	Trigger	Low-Flow	6/27/2023	6/28/2023	6/29/2023	6/30/2023	7/1/2023	7/2/2023	7/3/2023	7/4/2023
01097000 Assabet River at Maynard, MA	119	42	18								
01109730 Blackstone R. at Milbury, MA	63	25	43								
01111212 Blackstone R., Uxbridge, MA	221	86	62								
01112500 Blackstone R., Woonsocket, RI	398	157	124								
01103500 Charles at Dover	170	62	30	under	under	under	under				
01103280 Charles at Medway	59	20	8.1	under	under	under					
01104500 Charles at Waltham	279	98	35	under	under	under	under				
01099500 Concord R below R Meadow Bk, at Lowel	427	156	71								
01172010 Connecticut R at RT I-391, Holyoke, MA	7748	3582.76									
01170000 Deerfield R near West Deerfield, MA	618	231	228.3								
01168500 Deerfield River at Charlemont, MA	411	144	168								
01770100 Green River near Colrain	46	17	8.4								
01333000 Green River at Williamstown	120	47	8.7			under					
01331500 Hoosic River at Adams	43	17	18								
01197000 Housatonic at Coltsville	56	23	19								
01197500 Houstonic River at Great Barrington	257	124	68								
01105730 Indian Head River, Hanover, MA	31	13	5								
01102000 Ipswich R. at Ipswich	125	42	4.9								
01101500 Ipswich R. S. Middleton	44	14	1								
01105870 Jones river at kingston	25	16	7.3								
01100000 Merrimack River at Lowell	4311										
01171500 Mill River at Northampton, MA	62	26	10				under				
01165500 Millers River at Erving	379	147	73								
01162000 Millers River near Winchendon	79	26	13								
01097300 Nashoba Bk, near Acton, MA	10	3	0.57								
01096500 Nashua River at East Pepperill, MA	463	117									
01105554 Neponset R at Greenlodge near Canton	75	45	18			under	under				
01105000 Neponset River at Norwood, MA	30	18	6.4	under	under	under	under				
01094400 North Nashua at Fitchburg	62	34	13								

WMA Registrations

- WMA Registrations for PWS and Golf Courses now require reductions in nonessential outdoor water use when the Secretary declares a drought for the region, county, or watershed where the withdrawals are located.
 - Level 1 (Mild Drought): Nonessential outdoor water use is restricted to no more than one day per week, from 5 pm to 9 am, except watering of ornamentals and gardens with drip irrigation, hand-held house or watering cans may be permitted.
 - Level 2 (Significant Drought): Nonessential outdoor water use is banned, except watering of ornamentals and gardens with drip irrigation, hand-hold hose or watering cans may be permitted.
 - Level 3 (Critical Drought) or Level 4 (Drought Emergency): All nonessential outdoor water uses are banned.

USGS Streamflow Gages and Monitoring Wells Below Trigger Value on 6/27

USGS Gages and Wells Below Trigger Value



USGS Streamflow Gages Above Trigger Value on 6/29

Streamflow Gages (12 out of 48)

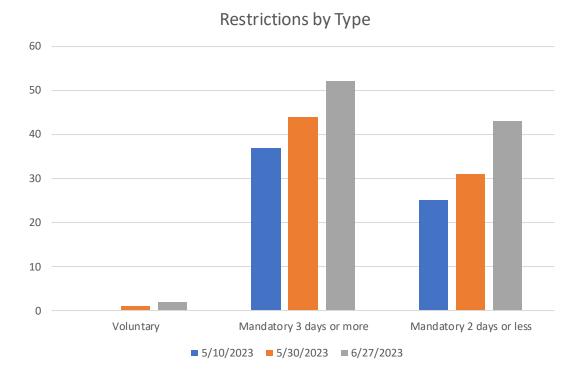
- Blackstone at Millbury (CE)
- Deerfield at West Deerfield (CT)
- Ipswich at Ipswich (NE)
- Ipswich at South Middleton (NE)
- Merrimack at Lowell (NE)
- Nashua River at East Pepperill (NE)
- North Nashua at Fitchburg (CE)
- Otter River at Otter River (CE)
- Parker River at Byfield (NE)
- Segreganset River near Dighton (SE)
- Shawsheen at Wilmington (NE)
- Ten Mile R. E. Providence, RI (SE)

USGS Monitoring Wells Above Trigger Value on 6/29 Monitoring Wells (6 of 6)

- PWW-22 (Plymouth)
- BMW-22R (Brewster)
- TSW-89 (Truro)
- ENW-52 (Edgartown)
- NBW-228 (Nantucket)
- BHW-198 (Bourne)

Restriction Numbers

- 05/10:
 - 0 Voluntary restrictions
 - 37 Mandatory restrictions of 3 days or more
 - 25 Mandatory restrictions of 2 days or less
- 05/30:
 - 1 Voluntary restrictions
 - 45 Mandatory restrictions of 3 days or more
 - 30 Mandatory restrictions of 2 days or less
- 06/27:
 - 2 Voluntary Restrictions
 - 52 Mandatory restrictions of 3 days or more
 - 43 Mandatory restrictions of 2 days or less



The Maps

