



Drought Management Task Force Update

06.09.22

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MWRA Fully- and Partially-supplied communities

MWRA Fully and Partially Supplied Water Communities

Fully Supplied

(metro Boston/MetroWest)

- 1 Arlington
- 2 Belmont
- 3 Boston
- 4 Brookline
- 5 Chelsea
- 6 Everett
- 7 Framingham
- 8 Lexington
- 9 Lynnfield Water District
- 10 Malden
- 11 Marblehead
- 12 Medford
- 13 Melrose
- 14 Milton
- 15 Nahant
- 16 Newton
- 17 Norwood
- 18 Quincy
- 19 Reading
- 20 Revere
- 21 Saugus
- 22 Somerville
- 23 Southborough
- 24 Stoneham
- 25 Swampscott
- 26 Waltham
- 27 Watertown
- 28 Weston
- 29 Winthrop

Partially Supplied (metro)

- 1 Ashland
- 2 Bedford*
- 3 Burlington
- 4 Canton
- 5 Dedham (D-W Water District)
- 6 Marlborough *
- 7 Needham
- 8 Northborough *
- 9 Peabody
- 10 Stoughton
- 11 Wakefield
- 12 Wellesley
- 13 Westwood (D-W Water District)
- 14 Wilmington
- 15 Winchester
- 16 Woburn
- 17 Cambridge (occasionally)
- 18 Lynn (G.E. Plant only)

29 fully supplied (metro Boston/MetroWest)

18 partially supplied (metro)

3 fully supplied CVA

3 raw water

3 Misc Non-Community

Total Community count is 53

Excluding from the count Hanscom, Westover, Westborough SH and Deer Island

Fully Supplied CVA System

- 1 Chicopee
- 2 South Hadley FD #1
- 3 Wilbraham

Raw Water

- 1 Clinton
- 2 Leominster (only in emergency)
- 3 Worcester (occasionally)

Miscellaneous Non-Community Users

- 1 Hanscom Air Base (via Lexington and Bedford)
- 2 Westover AFB (via Chicopee)
- 3 Deer Island WWTP (NTNC PWS)

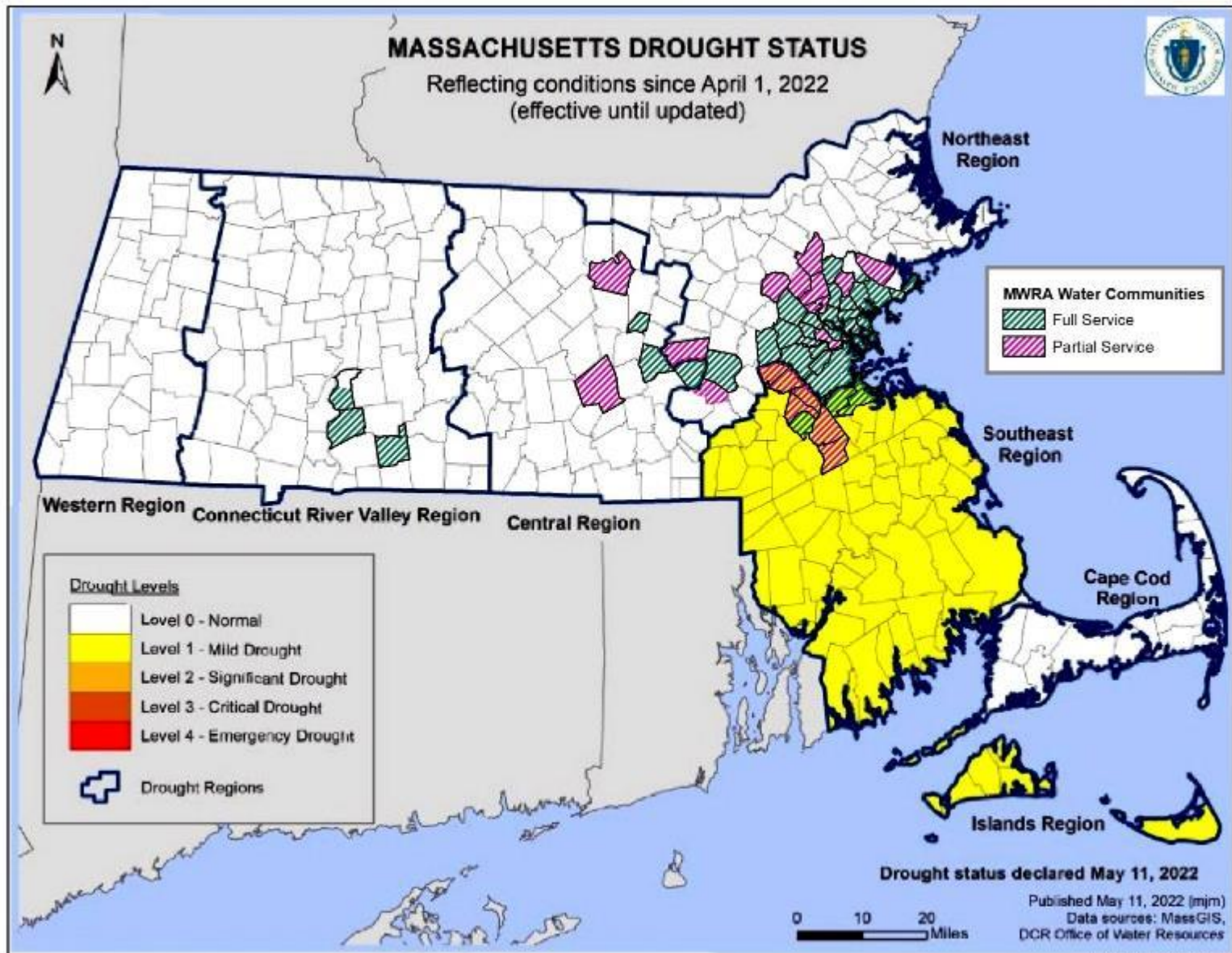
* - Northborough and Marlborough are currently fully supplied; Bedford has taken its local source off line for PFAS and is also currently fully supplied

Metro Boston and MetroWest Communities Served by the Carroll Water Treatment Plant
Chicopee Valley Aqueduct
Communities served by the Brusch Treatment Facility
Westborough SH no longer served by MWRA



MWRA Communities by Drought Region

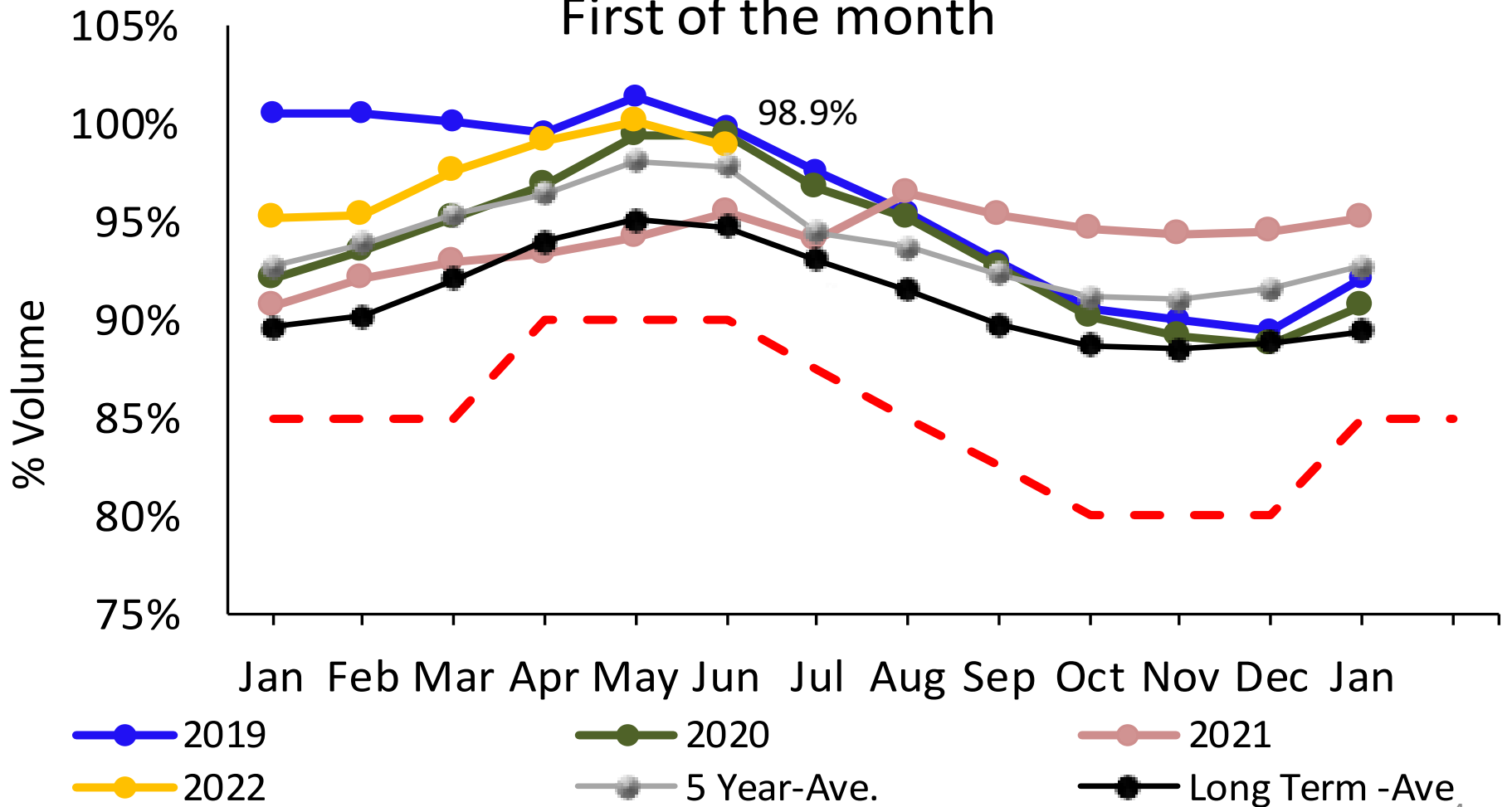
NE = 37
SE = 9
C = 4
CT = 3





Quabbin Reservoir

Quabbin Reservoir Volume First of the month

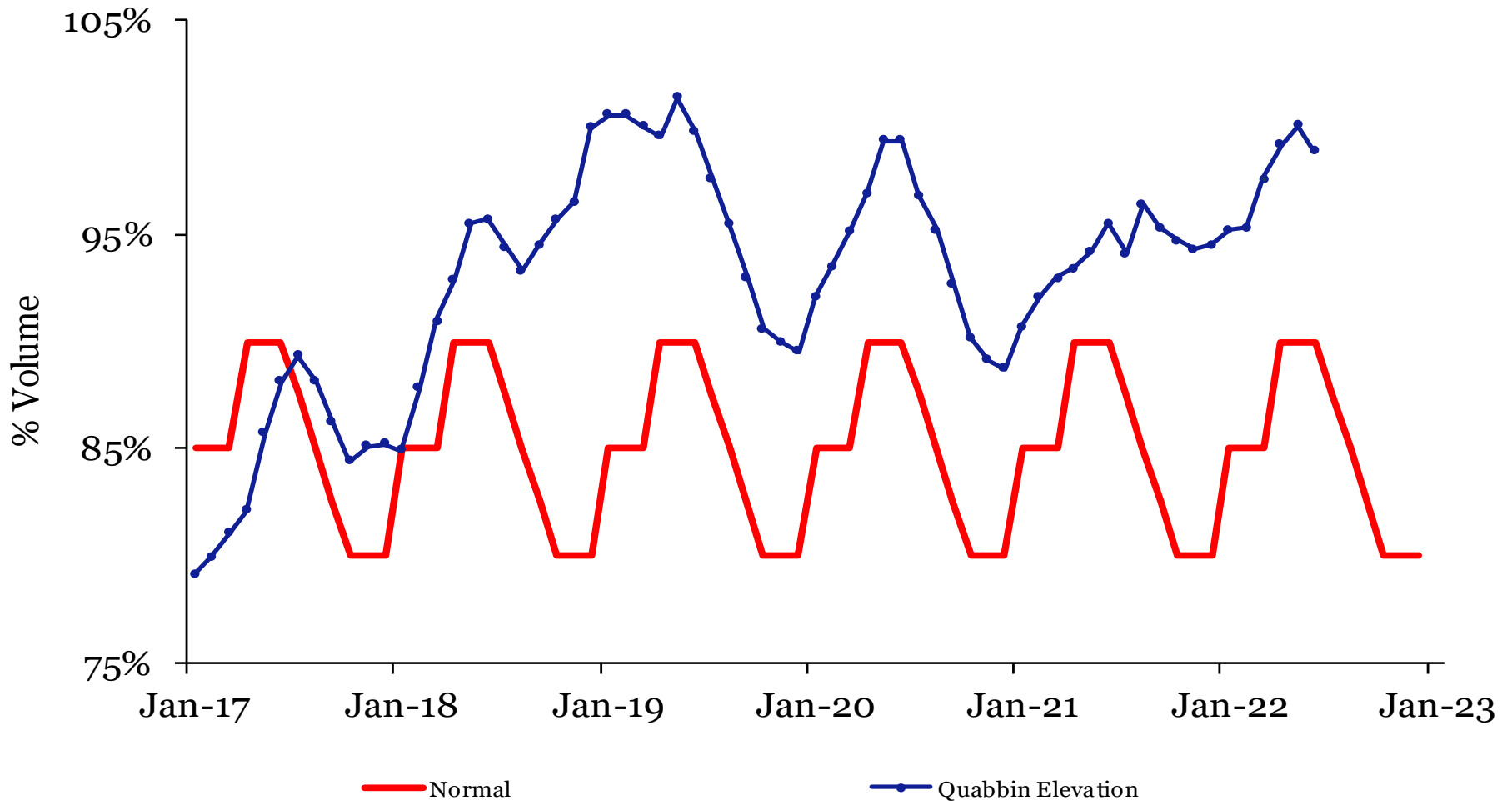




Quabbin Reservoir

Date	Elevation	Volume	% Volume
6/6/22	529.13	405,419	98.3%
5/3/22	530.05	412,662	100.1%
Totals	-0.92	-7,242	-1.8%

Quabbin Reservoir Volume First of the Month



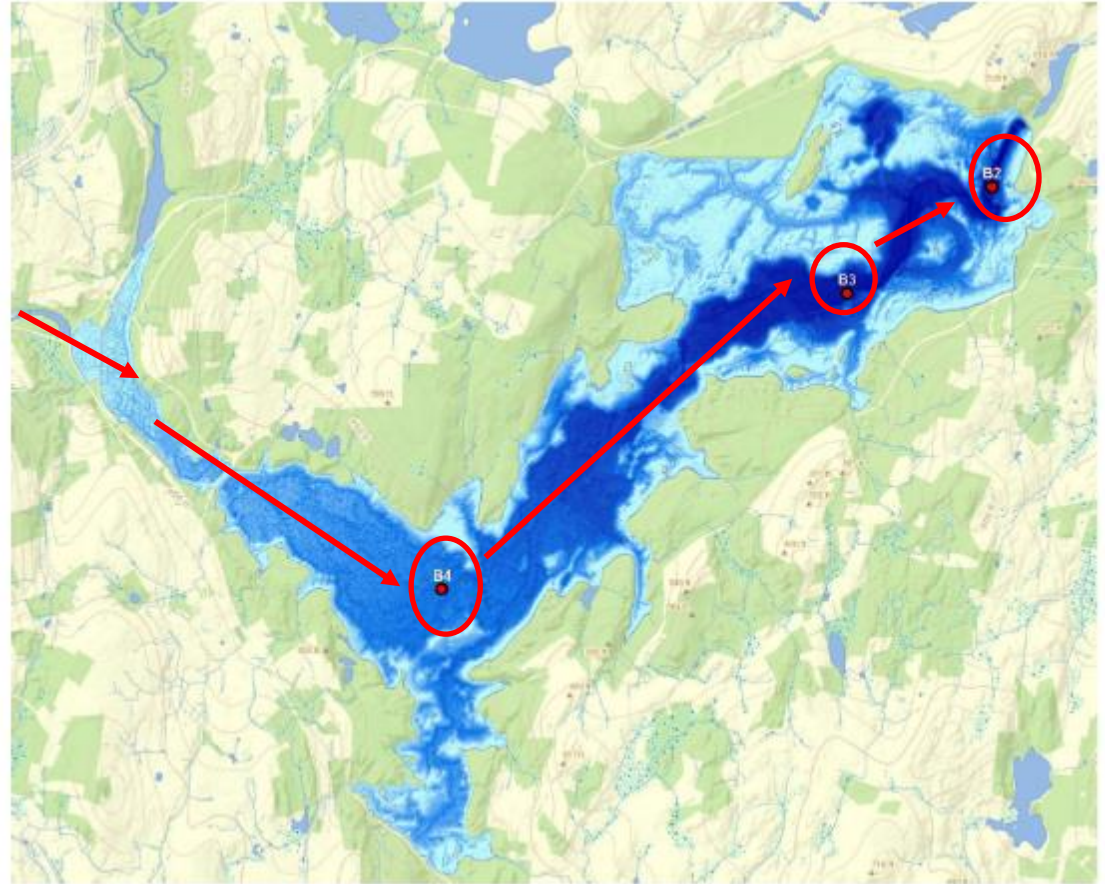


Quabbin Aqueduct Shaft 12 to Shaft 1





Profiler Buoys at Wachusett Reservoir





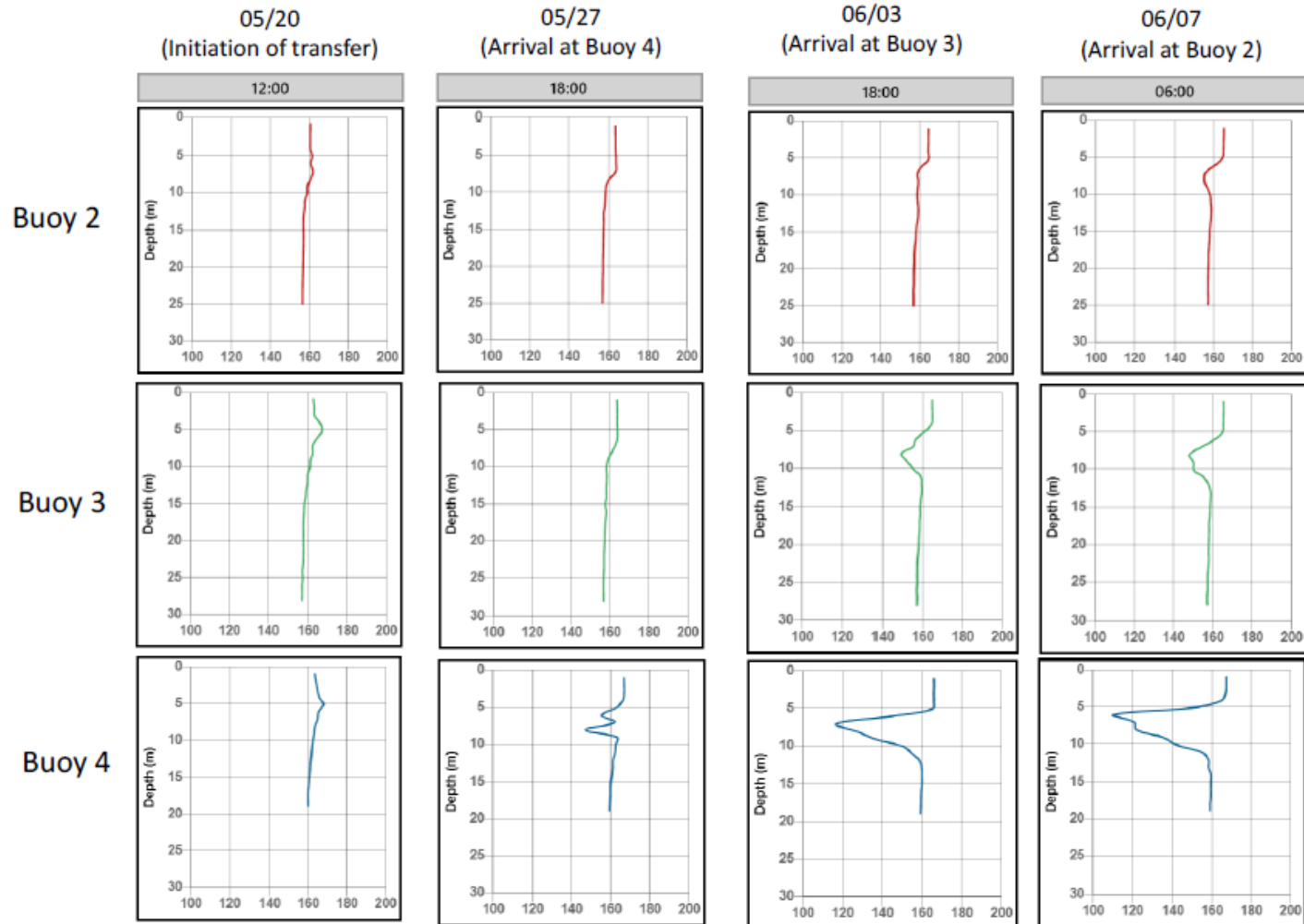
Quabbin Interflow historical comparisons

Table 2. Historical Quabbin transfers start and arrival times.

2018				2019				2020				2021				2022			
Transfer flow initiated at ~177 MGD				Transfer flow initiated at ~152 MGD				Transfer flow initiated at ~154 MGD				Transfer flow initiated at ~149 MGD				Transfer flow initiated at ~201 MGD			
No. of days until arrival at Buoy location		Daily Avg flows (MGD)		No. of days until arrival at Buoy location		Daily Avg flows (MGD)		No. of days until arrival at Buoy location		Daily Avg flows (MGD)		No. of days until arrival at Buoy location		Daily Avg flows (MGD)		No. of days until arrival at Buoy location		Daily Avg flows (MGD)	
0	5/16/2018	90		0	5/21/2019	82		0	5/19/2020	88		0	5/17/2021	45		0	5/20/2021	132	
1	5/17/2018	177		1	5/22/2019	152		1	5/20/2020	154		1	5/18/2021	149		1	5/21/2021	201	
2	5/18/2018	176		2	5/23/2019	151		2	5/21/2020	154		2	5/19/2021	201		2	5/22/2021	202	
3	5/19/2018	177		3	5/24/2019	151		3	5/22/2020	154		3	5/20/2021	200		3	5/23/2021	270	
4	5/20/2018	177		4	5/25/2019	151		4	5/23/2020	154		4	5/21/2021	200		4	5/24/2021	311	
5	5/21/2018	174		5	5/26/2019	151		5	5/24/2020	154		5	5/22/2021	200		5	5/25/2021	311	
6	5/22/2018	178	B4	6	5/27/2019	151		6	5/25/2020	154		6	5/23/2021	200		6	5/26/2021	311	
7	5/23/2018	194		7	5/28/2019	151	B4	7	5/26/2020	154		7	5/24/2021	200		7	5/27/2021	311	B4
8	5/24/2018	193		8	5/29/2019	151		8	5/27/2020	153		8	5/25/2021	200		8	5/28/2021	300	
9	5/25/2018	193		9	5/30/2019	151		9	5/28/2020	172		9	5/26/2021	201		9	5/29/2021	239	
10	5/26/2018	193		10	5/31/2019	150		10	5/29/2020	192	B4	10	5/27/2021	200	B4	10	5/30/2021	287	
11	5/27/2018	193		11	6/1/2019	150		11	5/30/2020	198		11	5/28/2021	200		11	5/31/2021	269	
12	5/28/2018	193		12	6/2/2019	150		12	5/31/2020	198		12	5/29/2021	200		12	6/1/2021	312	
13	5/29/2018	193		13	6/3/2019	189		13	6/1/2020	228		13	5/30/2021	200		13	6/2/2021	312	
14	5/30/2018	193		14	6/4/2019	223		14	6/2/2020	247		14	5/31/2021	200		14	6/3/2021	312	B3
15	5/31/2018	193		15	6/5/2019	224		15	6/3/2020	247		15	6/1/2021	171		15	6/4/2021	312	
16	6/1/2018	192		16	6/6/2019	223	B3	16	6/4/2020	246		16	6/2/2021	149		16	6/5/2021	312	
17	6/2/2018	193		17	6/7/2019	276		17	6/5/2020	246		17	6/3/2021	130		17	6/6/2021	312	
18	6/3/2018	193	B3	18	6/8/2019	312		18	6/6/2020	246		18	6/4/2021	155		18	6/7/2021	312	B2
19	6/4/2018	218		19	6/9/2019	312		19	6/7/2020	246	B3	19	6/5/2021	155		19	6/8/2021		
20	6/5/2018	232		20	6/10/2019	220		20	6/8/2020	246		20	6/6/2021	157		20	6/9/2021		
21	6/6/2018	232		21	6/11/2019	239		21	6/9/2020	246		21	6/7/2021	158		21	6/10/2021		
22	6/7/2018	231		22	6/12/2019	311		22	6/10/2020	246		22	6/8/2021	158		22	6/11/2021		
23	6/8/2018	231	B2	23	6/13/2019	312		23	6/11/2020	246		23	6/9/2021	158		23	6/12/2021		
24	6/9/2018	231		24	6/14/2019	311	B2	24	6/12/2020	286		24	6/10/2021	158		24	6/13/2021		
25	6/10/2018	231		25	6/15/2019	312		25	6/13/2020	311		25	6/11/2021	158		25	6/14/2021		
26	6/11/2018	231		26	6/16/2019	312		26	6/14/2020	311		26	6/12/2021	158		26	6/15/2021		
27	6/12/2018	231		27	6/17/2019	251		27	6/15/2020	311		27	6/13/2021	158		27	6/16/2021		
28	6/13/2018	232		28	6/18/2019	201		28	6/16/2020	311		28	6/14/2021	158		28	6/17/2021		
29	6/14/2018	232		29	6/19/2019	200		29	6/17/2020	311		29	6/15/2021	158	B3	29	6/18/2021		
30	6/15/2018	232		30	6/20/2019	253		30	6/18/2020	311		30	6/16/2021	158		30	6/19/2021		
31	6/16/2018	232		31	6/21/2019	312		31	6/19/2020	311		31	6/17/2021	160		31	6/20/2021		
								32	6/20/2020	311		32	6/18/2021	149	B2	32	6/21/2021		



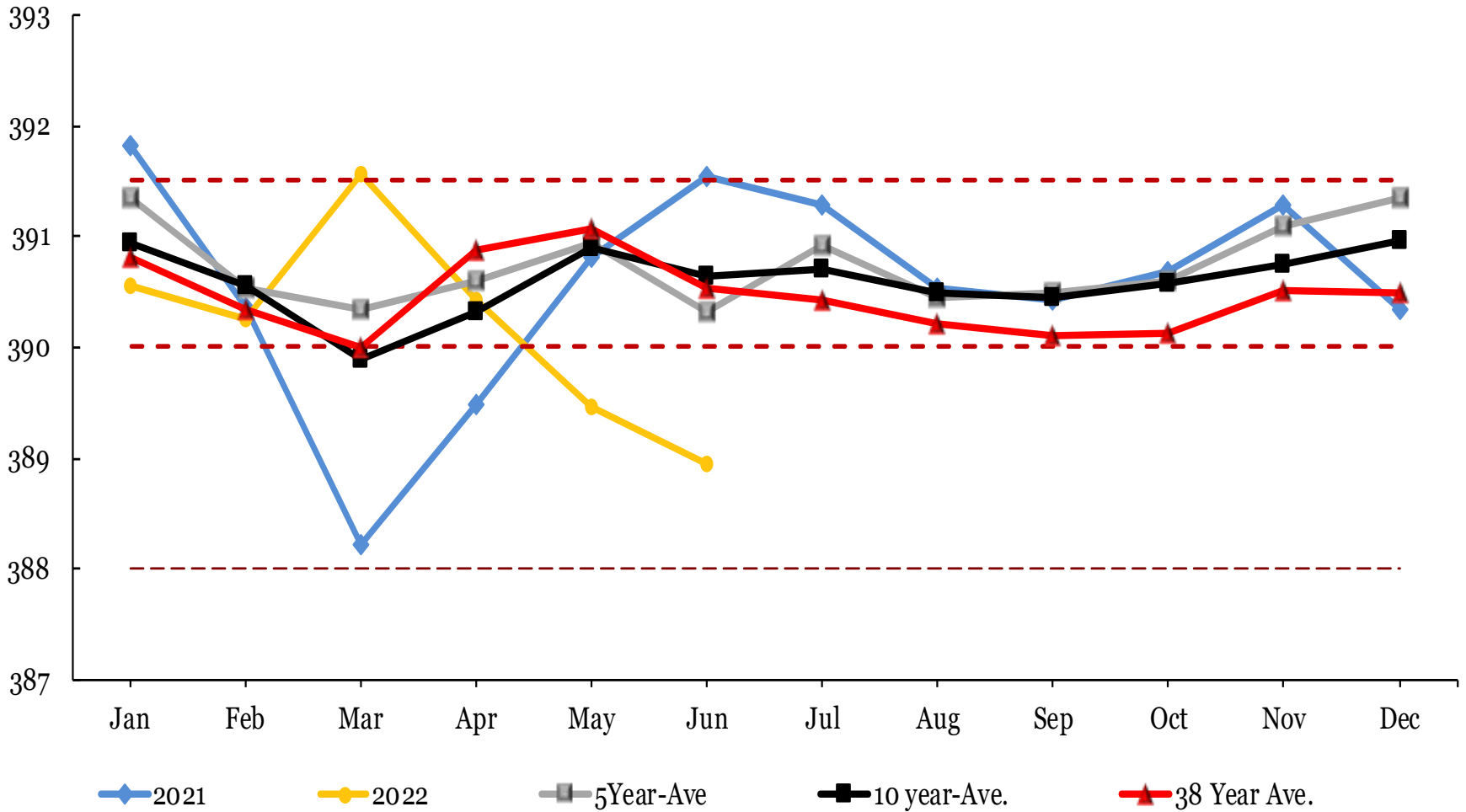
Quabbin Interflow - Specific Conductance Profiles





Wachusett Reservoir

Wachusett Reservoir Elevation





Sudbury & Foss Reservoirs

