



Town of Chatham

549 Main Street, Chatham, MA 02633

(508) 945-5100

www.chatham-ma.gov



Select Board

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Jeffrey Dykens, Vice Chair
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Town Manager

Jill R. Goldsmith
jgoldsmith@chatham-ma.gov
Phone: 508-945-5105

SELECT BOARD AGENDA REPORT

To: Honorable Select Board

From: Jill R. Goldsmith, Town Manager
Rob Faley, Director of Public Works

Date: November 6, 2025 (for the Select Board meeting of November 18, 2025)

Subject: Chatham Wells, PFAS, and Drinking Water Testing and Pumping Report and Drought Update

The following is a water supply update for the month of October 2025:

Chatham's wells have been pumping 6-15 hours per day.

The water tanks hit the low-level alarm one time this month: 10/6 (Monday).

Training Field Wells 5 and 8 – Permanent Treatment Facility

1. Project Update:

- Architectural work continues:
 - i. Exterior windows, doors and hardware nearing completion.
 - ii. Painting is almost complete in most areas.
 - iii. Cabinetry in the lab has been installed.
- Process piping continues.
- Chemical sleeves and backwash tank venting underway.
- HVAC: piping, fans, and boiler fit-up ongoing in mechanical room
- Electrical: mounting panels, transformers, conduits, lights.



2. Signage:

- At last month's Water Report, Select Board Clerk Smith commented on the signage at the Morton Road Treatment Plant and asked if Training Field would be similar.
- The proposed sign at Training Field is noted as 4' x 5', but will be of similar design as Morton Road which is roughly 3' x 12' (shown below).



Mill Pond Wells 10 and 11 – Pumping and Treatment Update

1. We began pumping from Well #10 and were instructed by DEP to test the combined water with Well #11 for PFAS6. Test results came back at 6.31 ppt which is below Massachusetts standard of 20 ppt and still below the 10 ppt which would trigger more frequent testing.

The EPA's drinking water standard proposal of 4 ppt was originally expected to go into effect in 2029, but has been pushed back to 2031. We are keeping an eye on PFAS6 levels and have consulted with our engineers on best paths forward. Options may include a package treatment plant for seasonal use, a full-scale plant for year-round use, and possibly other options. We will bring any proposals to the Water and Sewer Advisory Committee and Select Board for further discussion/implementation.

Irrigation Meter Update

- 635 letters went out on August 22nd, to property owners who have a registered irrigation system, but no second meter installed (144 had already paid and 491 had not). Since then, we have sold over \$88,000 (441) irrigation meters. 294 irrigation meters have been installed for a total of 1,149 operable irrigation meters in Chatham.
- We have also verified that 48 properties who have previously registered are now on a well. 35 properties have completely disconnected from the town's water supply. 37 properties are on the exception report.
- As of 11/4/25, 27 properties still have not paid for a second meter and have been fined \$9,300 so far.

Water Sampling

- 10 bacteria samples were taken for the month of October. All were free of bacteria.
- Alkalinity and Orthophosphate samples were taken from the treatment plants.

- PFAS6 samples were taken from Indian Hill Treatment Plant, Mill Hill Treatment Plant and the Water Treatment Plant.
- Both Morton Rd & Indian Hill are non-detect for PFAS6
- Mill Hill Treatment Plant 10/11 PFAS6 is 6.31

Station Maintenance

- Routine and annual maintenance and housekeeping was performed at all stations.
- Static and dynamic (drawdowns) water level readings were recorded for each well.
- Well 4 has failed. The well needs 4 shafts and four couplings. The motor and pump are good. Well is shut down for season as usual, repairs will be made over the winter for normal spring start up.
- Hungerford and Terry performed coring and a plant evaluation at the Morton Road plant. Initial report indicates media is ok. Waiting for complete report.
- Well 10 is now pumping into the system at the Mill Hill site with Well 11.
- Well 2 has been off since 10/24, needing new mag meter. We now have new mag meter and will be installed in-house.

System Maintenance

- Hydrant painting continued.
- Backflow prevention device testing continues.
- A new 8” water main was installed on Beldings Way by John Martin. The 2” main on Circle Drive is now tied into new main.
- Sanitary & Security assessments completed at 1.25 and 1.35 tanks.
- All curb stop & box repairs for irrigation meters completed.

Meter Reading

- Water meter readings were completed for the month of October.

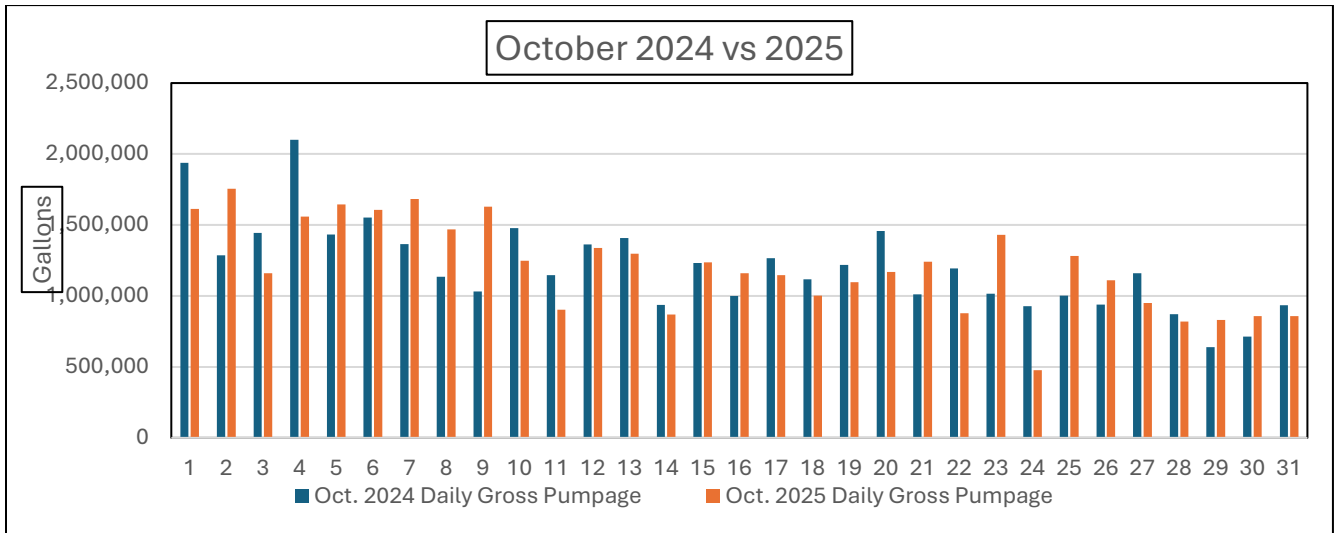
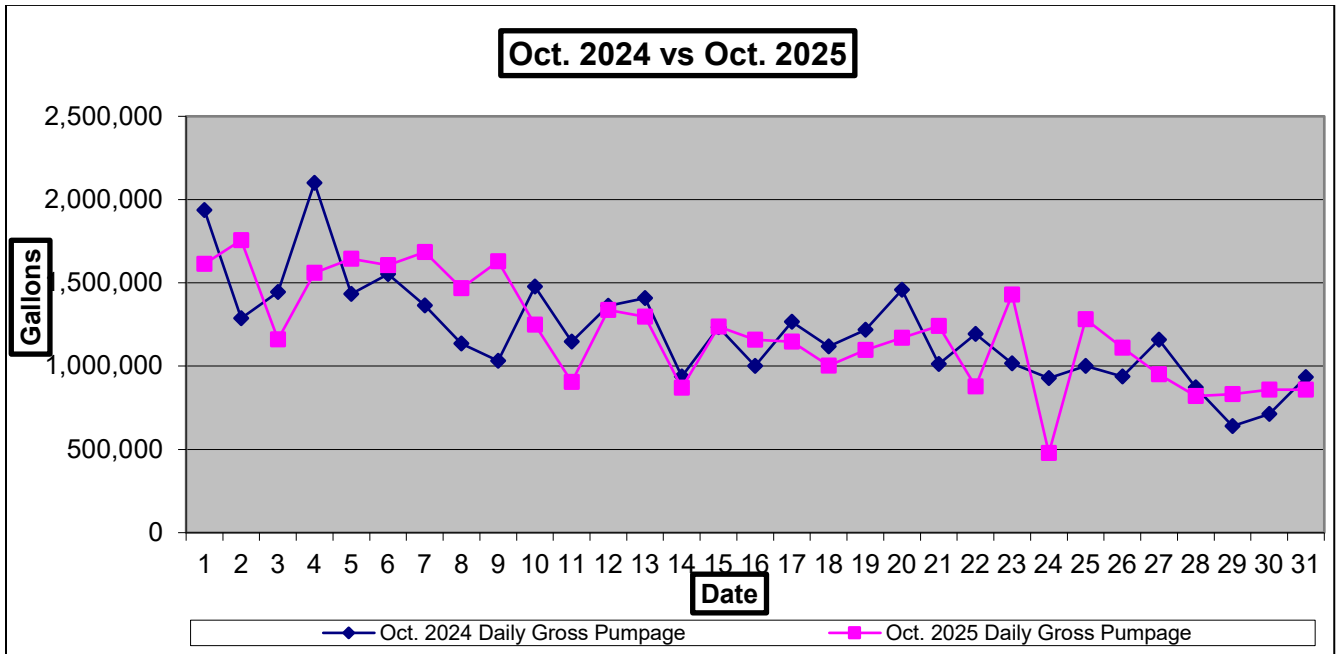
Meter Activities

Dig Safes	New	Final	Turn on/off	Repair	Replace & Install Radio	Inspections
269	137	35	190	17	21	40

October 2024 vs 2025 Pumping Comparison

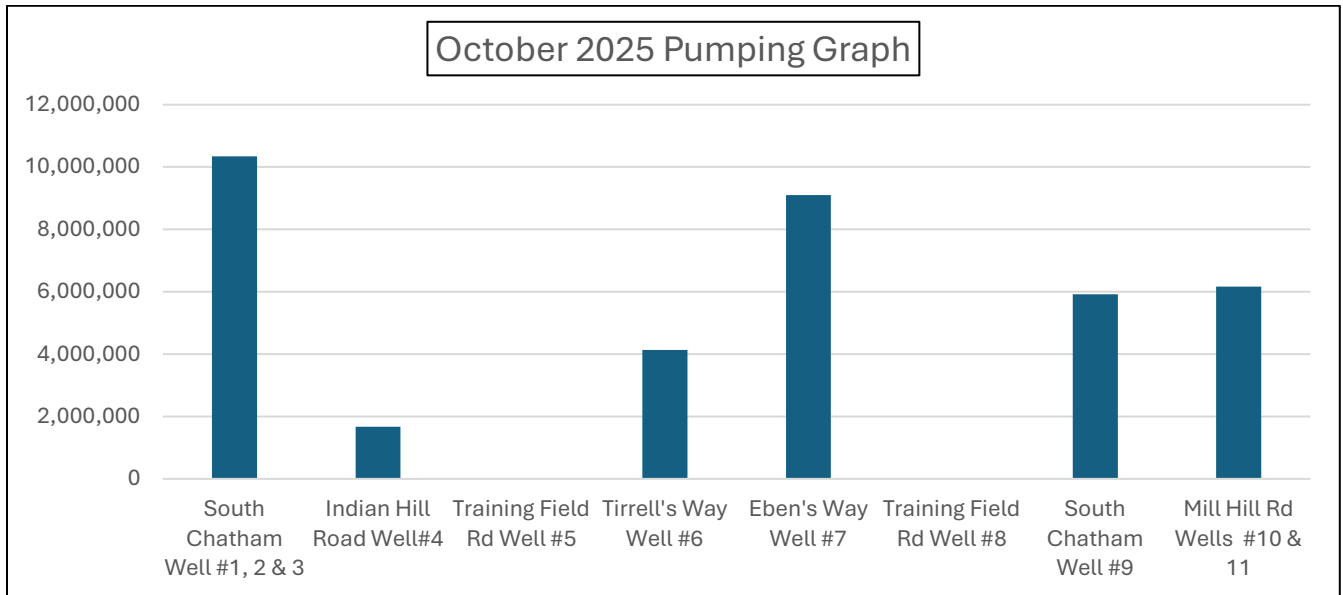
DATE	Oct. 2024 Daily Gross Pumpage	Oct. 2025 Daily Gross Pumpage	Oct. 2024 vs. Oct. 2025 Increase / Decrease (Gallons)	Oct. 2024 vs. Oct. 2025 Increase / Decrease (Percent)
1	1,937,300	1,613,200	(324,100)	-17%
2	1,286,400	1,756,300	469,900	37%
3	1,444,100	1,160,900	(283,200)	-20%
4	2,100,300	1,559,800	(540,500)	-26%
5	1,432,300	1,643,800	211,500	15%
6	1,552,500	1,605,600	53,100	3%
7	1,364,100	1,684,000	319,900	23%
8	1,135,600	1,468,600	333,000	29%
9	1,031,200	1,628,300	597,100	58%
10	1,478,200	1,249,000	(229,200)	-16%
11	1,145,900	904,000	(241,900)	-21%
12	1,362,600	1,337,900	(24,700)	-2%
13	1,407,700	1,296,800	(110,900)	-8%
14	936,700	870,200	(66,500)	-7%
15	1,233,100	1,237,700	4,600	0%
16	1,000,000	1,159,300	159,300	16%
17	1,265,200	1,147,500	(117,700)	-9%
18	1,118,300	1,002,200	(116,100)	-10%
19	1,217,700	1,096,900	(120,800)	-10%
20	1,457,800	1,170,100	(287,700)	-20%
21	1,012,100	1,241,800	229,700	23%
22	1,193,400	877,900	(315,500)	-26%
23	1,015,900	1,429,800	413,900	41%
24	926,900	477,700	(449,200)	-48%
25	1,001,600	1,280,700	279,100	28%
26	938,300	1,110,500	172,200	18%
27	1,159,100	950,000	(209,100)	-18%
28	872,400	820,300	(52,100)	-6%
29	639,800	831,400	191,600	30%
30	713,100	858,800	145,700	20%
31	933,500	858,500	(75,000)	-8%
Total	37,313,100	37,329,500	16,400	0.0%

October 2024 vs 2025 Pumping Graphs



October 2025 Monthly Pumping Report

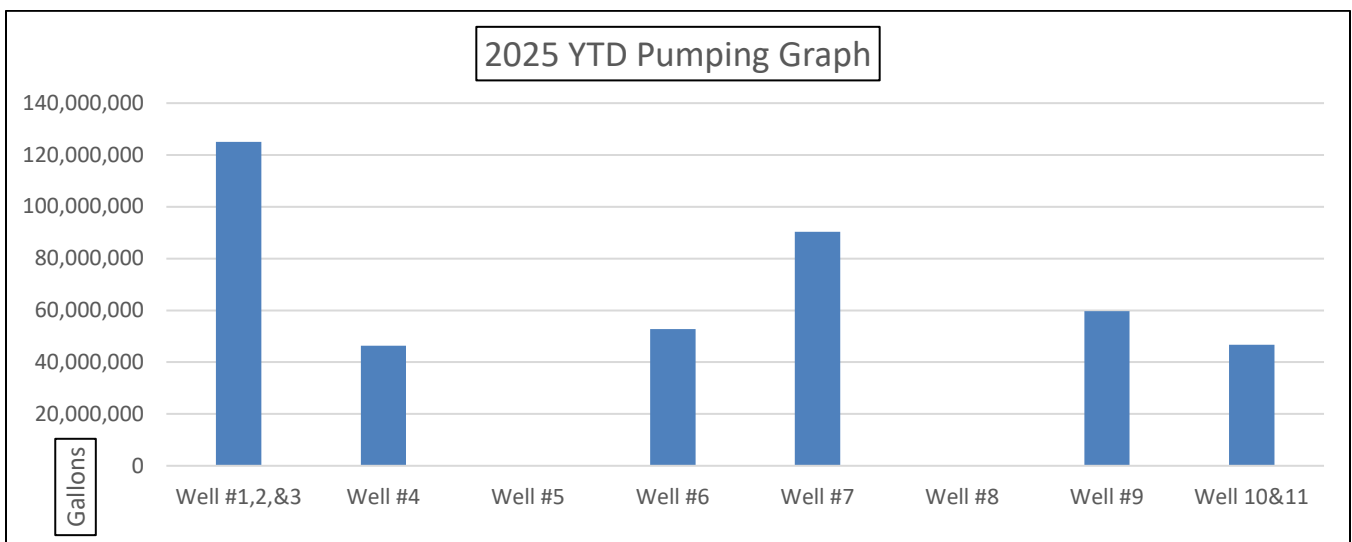
DATE	DAY	South Chatham Well #1, 2 & 3	Indian Hill Road Well#4	Training Field Rd Well #5	Tirrell's Way Well #6	Eben's Way Well #7	Training Field Rd Well #8	South Chatham Well #9	Mill Hill Rd Wells #10 & 11	Daily Gross Pumpage
1		439,100	235,000		167,100	390,000		222,600	159,400	1,613,200
2		518,700	308,900		155,500	332,400		226,000	214,800	1,756,300
3		222,700	86,100		139,600	304,200		206,200	202,100	1,160,900
4					265,300	579,500		360,100	354,900	1,559,800
5		97,700	4,700		265,600	551,400		382,600	341,800	1,643,800
6			384,500		227,400	515,300		305,000	173,400	1,605,600
7		112,800	419,100		196,300	425,600		276,500	253,700	1,684,000
8		349,800	169,800		162,300	357,300		240,700	188,700	1,468,600
9		502,900	62,900		190,200	422,000		270,800	179,500	1,628,300
10		413,800			144,500	327,000		196,300	167,400	1,249,000
11		278,600			112,400	244,000		175,500	93,500	904,000
12		502,400			138,500	318,800		189,500	188,700	1,337,900
13		416,900			145,900	386,400		208,400	139,200	1,296,800
14		685,000			61,000	33,900		90,300		870,200
15		499,600			196,400	207,800		251,700	82,200	1,237,700
16		669,400			41,300	154,100		58,900	235,600	1,159,300
17		428,900			125,000	266,600		189,500	137,500	1,147,500
18		424,900			86,500	208,100		134,400	148,300	1,002,200
19		387,400			107,700	252,800		155,900	193,100	1,096,900
20		354,700			140,200	304,100		203,500	167,600	1,170,100
21		468,900			87,400	202,300		130,800	352,400	1,241,800
22		281,900			79,500	179,800		116,200	220,500	877,900
23		403,900			150,800	346,600		223,500	305,000	1,429,800
24		209,800			31,100	79,800		51,400	105,600	477,700
25		314,400			121,100	357,800		179,500	307,900	1,280,700
26		282,600			112,500	276,500		153,100	285,800	1,110,500
27		220,400			160,300	206,100		224,300	138,900	950,000
28		161,400			76,200	299,300		126,700	156,700	820,300
29		227,700			80,600	185,800		116,700	220,600	831,400
30		231,100			83,100	193,200		126,700	224,700	858,800
31		231,800			82,300	195,600		123,200	225,600	858,500
Total		10,339,200	1,671,000		4,133,600	9,104,100		5,916,500	6,165,100	37,329,500
								Minimum		477,700
								Maximum		1,756,300
								Average		1,204,177



2025 YTD Pumping Report

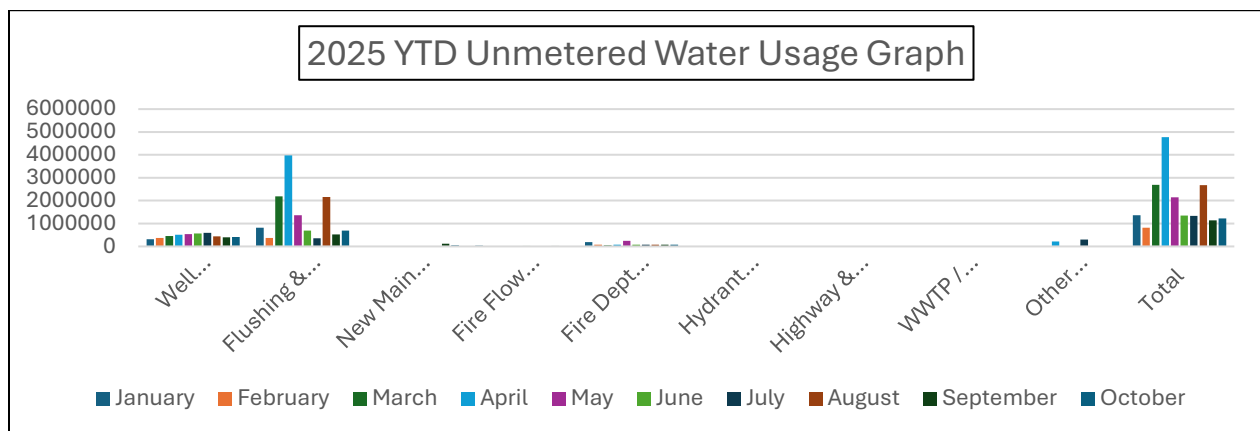
	Well #1,2,&3	Well #4	Well #5	Well #6	Well #7	Well #8	Well #9	Well 10&11	Monthly Total	Last Years Pumping	Variance
January	5,680,400	0	0	2,509,200	3,195,700	0	2,623,300	2,148,600	16,157,200	16,575,600	-418,400
February	5,126,000	0	0	2,143,400	2,872,300	0	2,301,200	832,200	13,275,100	14,695,600	-1,420,500
March	6,818,100	0	0	2,220,100	2,667,800	0	2,208,800	2,028,500	15,943,300	16,932,900	-989,600
April	7,889,300	0	0	3,126,000	4,075,800	0	3,278,300	2,554,100	20,923,500	21,779,800	-856,300
May	12,934,600	0	0	5,479,500	8,562,800	0	5,817,000	4,539,800	37,333,700	37,250,400	83,300
June	15,763,200	9,148,400	0	7,646,900	13,182,500	0	8,380,400	6,011,400	60,132,800	65,869,200	-5,736,400
July	22,504,900	12,033,700	0	10,273,300	17,361,000	0	10,837,200	8,092,700	81,102,800	81,654,700	-551,900
August	20,410,900	14,142,400	0	10,037,800	17,666,000	0	10,667,700	8,813,300	81,738,100	81,631,000	107,100
September	17,595,800	9,408,800	0	5,167,100	11,636,200	0	7,670,600	5,559,600	57,038,100	60,984,200	-3,946,100
October	10,339,200	1,671,000	0	4,133,600	9,104,100	0	5,916,500	6,165,100	37,329,500	37,313,100	16,400
November									0		0
December									0		0
Totals	125,062,400	46,404,300	0	52,736,900	90,324,200	0	59,701,000	46,745,300	420,974,100	434,686,500	-13,712,400

2025 YTD Pumping Graph



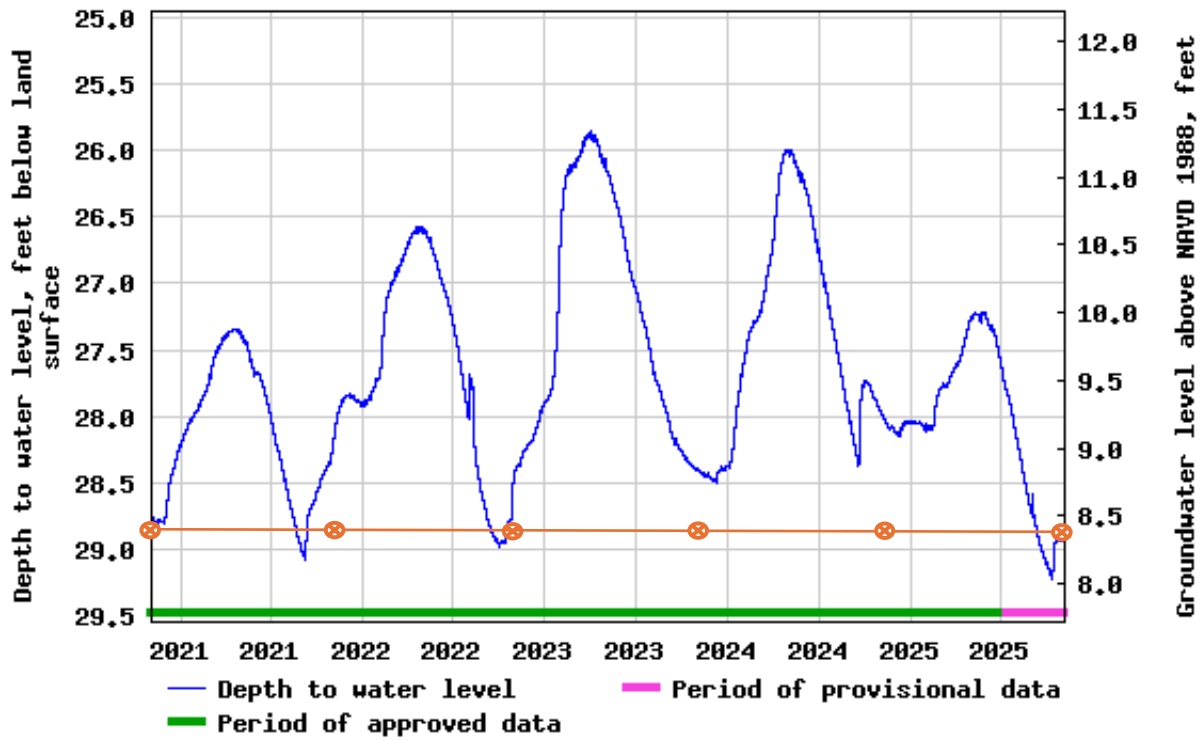
2025 YTD Unmetered Water Usage

Type of use	January	February	March	April	May	June
Well Treatment Operations	315,152	365,521	452,949	505,300	534,856	568,654
Flushing & Blowoffs	815,425	374,600	2,189,654	3,977,575	1,359,700	687,945
New Main Activations	0	0	0	0	0	0
Fire Flow Testing	37,830	0	0	0	0	18,660
Fire Dept Usage	195,000	78,250	53,750	74,350	250,000	78,500
Hydrant Maintenance	0	0	0	0	0	0
Highway & Landfill Use	0	0	0	0	0	0
WWTP / Jetting	0	0	1,000	0	0	0
Other known use				221,700		
Total	1,363,407	818,371	2,697,353	4,778,925	2,144,556	1,353,759
Type of use	July	August	September	October	November	December
Well Treatment Operations	593,761	446,817	395,537	412,698		
Flushing & Blowoffs	356,782	2,158,000	528,900	698,000		
New Main Activations	0	0	125,000	43,250		
Fire Flow Testing	0	0	20,760	0		
Fire Dept Usage	76,500	75,260	71,750	70,275		
Hydrant Maintenance	0	0	0	0		
Highway & Landfill Use	0	0	0	0		
WWTP / Jetting	5,000	0	0	0		
Other known use	300,000					
Total	1,332,043	2,680,077	1,141,947	1,224,223	0	0
Year To Date Usage	19,534,661					

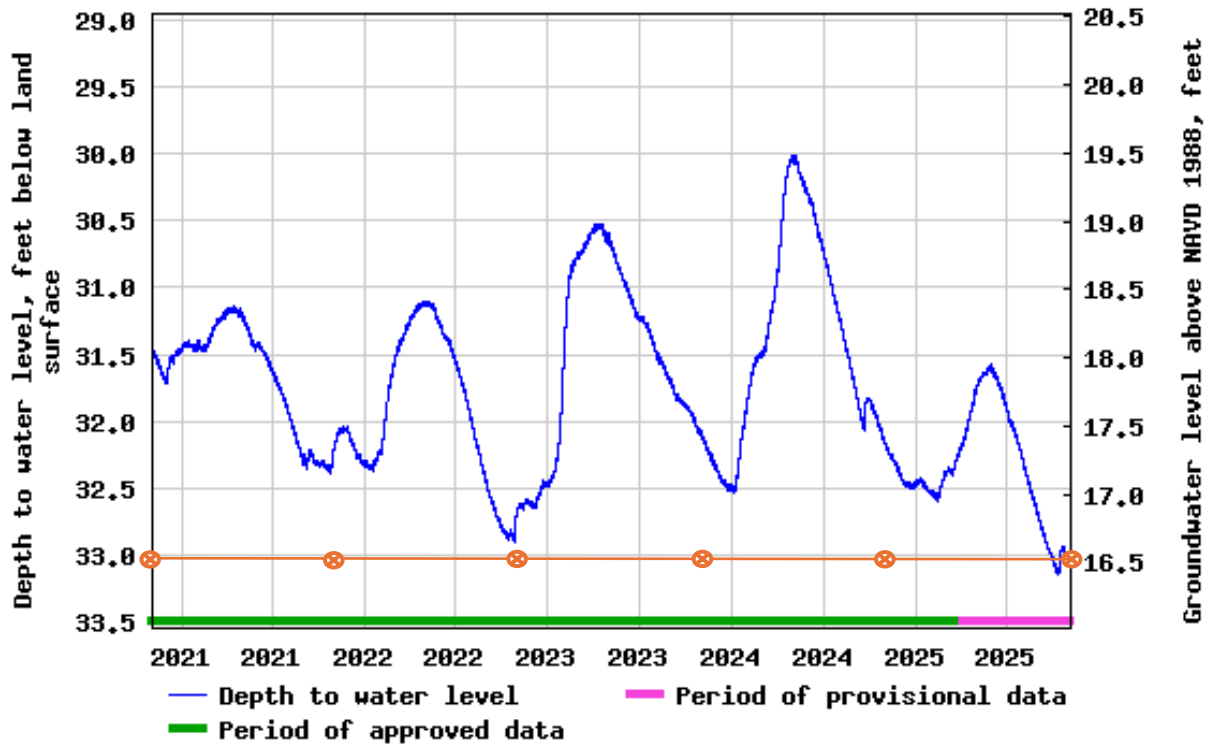


Chatham 5-year Pumping Comparison (Month of October)												
Oct. Date	October 2021 Daily Gross Pumpage	Hours	October 2022 Daily Gross Pumpage	Hours	October 2023 Daily Gross Pumpage	Hours	October 2024 Daily Gross Pumpage	Hours	October 2025 Daily Gross Pumpage	Hours	Average Daily Pumpage (gallons)	Average Daily Pumpage (hours)
1	1,401,600	11	1,042,600	5.75	1,503,400	7.75	1,939,000	14	1,613,200	8	1,499,960	9.2
2	1,516,800	10.75	1,201,800	6	1,295,400	7	1,286,500	8.5	1,756,300	10	1,411,360	8.45
3	1,182,900	9.25	1,105,500	6.5	1,589,200	8.25	1,444,200	12.75	1,160,900	10	1,296,540	9.35
4	1,057,200	8	1,027,100	5.25	1,301,100	6.5	2,100,400	13.25	1,559,800	15	1,409,120	9.6
5	984,500	7	870,300	4.5	1,522,200	8	1,432,300	9.5	1,643,800	17	1,290,620	9.2
6	1,073,500	7.75	996,500	5.5	1,300,500	6.5	1,552,600	9.75	1,605,600	9.25	1,305,740	7.75
7	912,400	7	1,010,700	5.75	1,225,300	6.5	1,364,200	9.5	1,684,000	10	1,239,320	7.75
8	1,203,200	8.5	1,024,800	5	1,562,600	7.75	1,135,700	7.75	1,468,600	9	1,278,980	7.6
9	1,248,000	10	1,236,700	6.25	1,306,400	7.5	1,031,800	6.75	1,628,300	10	1,290,240	8.1
10	1,196,900	8	1,267,100	6.5	1,355,700	7.25	1,409,800	9.5	1,249,000	8.25	1,295,700	7.9
11	1,148,600	8	1,027,700	5.75	1,010,800	5	1,146,000	6	904,000	6	1,047,420	6.15
12	1,126,400	8.75	930,600	5.5	1,368,200	7.75	1,362,600	5	1,337,900	8	1,225,140	7
13	937,300	6.75	1,060,500	4.25	1,095,700	5.75	1,407,700	10.5	1,296,800	10	1,159,600	7.45
14	1,118,700	7.5	878,500	5	1,094,800	6.75	925,900	6.75	870,200	9.25	977,620	7.05
15	973,200	6.5	843,800	5	1,335,900	8	1,233,100	8.75	1,237,700	7	1,124,740	7.05
16	923,400	7	922,400	5.5	950,200	5.5	1,000,000	9	1,159,300	6	991,060	6.6
17	1,035,400	7.5	749,200	3.5	1,034,000	5.5	1,265,200	10.5	1,147,500	7	1,046,260	6.8
18	1,110,000	6.5	890,300	5.5	868,100	4.5	1,117,500	8.5	1,002,200	7	997,620	6.4
19	1,004,600	6	721,800	4	996,200	5	1,217,700	9.75	1,096,900	5.5	1,007,440	6.05
20	971,100	7	923,500	4	859,200	5.5	1,457,800	13.75	1,170,100	5.5	1,076,340	7.15
21	969,600	6	916,300	5.75	888,800	4.5	1,012,100	9.5	1,241,800	5	1,005,720	6.15
22	860,500	7	850,100	4.5	1,137,900	6.75	1,193,400	12	877,900	8.25	983,960	7.7
23	971,500	7	874,900	5.25	847,600	4.5	1,015,900	10.257.5	1,429,800	4	1,027,940	5.1875
24	1,064,600	5	697,200	3.5	946,400	5.5	926,900	9	477,700	6	822,560	5.8
25	728,800	4.25	814,100	5	857,600	6	1,001,600	9.75	1,280,700	7	936,560	6.4
26	665,300	4	613,700	3.5	994,100	6	938,900	11.75	1,110,500	5	864,500	6.05
27	516,800	6	746,000	4.25	834,500	4.25	1,159,100	9.5	950,000	7.7	841,280	6.34
28	604,800	4.5	807,700	4.5	823,300	4.5	872,400	5.75	820,300	5	785,700	4.85
29	786,000	4.5	760,200	4.5	917,800	5.25	639,800	9	831,400	5	787,040	5.65
30	629,100	5.5	779,200	4.5	587,500	3.5	713,100	6.75	858,800	4.25	713,540	4.9
31	758,500	4.25	748,900	4	1,221,400	6	933,500	9.25	858,500	5	904,160	5.7
Total	30,681,200	217	28,339,700	154	34,631,800	189	37,236,700	282	37,329,500	240	33,643,780	217
Well Status	Well 4 & 5 Offline		Well 4 & 8 Offline		Well 8 Offline		Well 5 & 8 Offline		Well 5 & 8 Offline		Well 10 & 11 Online	

USGS 414101070011001 MA-CGM 138R CHATHAM, MA



USGS 414632070014901 MA-BMW 22R BREWSTER, MA



Drought Update:

- Massachusetts Drought Task Force met on November 6, 2025, to review conditions throughout the Commonwealth.
- The good news is that Cape Cod received 6-8” of rain in October which is 4” above normal. Streamflow, groundwater, and long-term precipitation have been consistently low. The long-range forecast is trending toward a drier pattern with near normal temperatures.
- Recommendations to the Secretary of Energy and Environmental Affairs Office are indicated in the chart below where Cape Cod is recommended to remain at Level 2.

Drought Indices by Region - October 2025

Drought Index	Western	CT River Valley	Central	Northeast	Southeast	Cape	Islands
Precipitation	47 (6 mo)	57 (6 mo)	57 (6 mo)	49 (6 mo)	69 (6 mo)	19 (12-mo)	20 (12-mo)
Streamflow	16	21	27	44	64	17	N/A
Groundwater	17	30	23	37	58	16	10
Lakes/ Impoundments	14	42	47	26	35	33	N/A
ET*	19	22	27	27	36	20	16
KBDI**	200	179	255	225	2	2	271

Month	Western	CT River Valley	Central	Northeast	Southeast	Cape	Islands
<i>September Declaration</i>	<i>Level 2</i>	<i>Level 2</i> <i>Level 3 - Deerfield</i>	<i>Level 2</i> <i>Level 3 - Millers</i>	<i>Level 1</i>	<i>Level 1</i>	<i>Level 2</i>	<i>Level 3 - Nantucket County</i> <i>Level 1 - Dukes County</i>
October Recommendation	Level 2	Level 1	Level 1	Level 1	Level 0	Level 2	<i>See Counties slide</i>

Lakes & Impoundments Index does not reflect water supply status. This summary is provided for informational purposes. No changes in drought status are official until the Secretary of the Executive Office of Energy and Environmental Affairs makes the final drought declaration for the state after receiving a recommendation from the Drought Management Task Force. Data are preliminary and not final until all data are reported. N/A = not applicable. ID = insufficient data. ND = data unavailable *ET not reported outside growing season **KBDI not reported Dec-March outside fire danger season. mos=months

Index Severity Levels

Level 0	Level 1	Level 2	Level 3	Level 4
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Thank you for your consideration. Should you have any questions regarding the foregoing, please contact me at (508) 945-5155 or rfaley@chatham-ma.gov.