



Town of Chatham

549 Main Street, Chatham, MA 02633

(508) 945-5100

www.chatham-ma.gov



Select Board

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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: August 13, 2025 (for the Select Board meeting of August 19, 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 July 2025:

Chatham's wells have been pumping 10-20 hours per day.
The water tanks hit the low-level alarm twice this month on the 18th and 30th.

Training Field Wells 5 and 8 – Permanent Treatment Facility

1. Project Update:

- Fascia and soffits are being installed.
- Roof has been insulated, and roof work is ongoing.
- 4' x 10' translucent panels are in.
- Fire suppression sprinklers are about 60% complete.
- Door overhang work is nearing completion.
- HVAC louvres have been installed.



Mill Pond Wells 10 and 11 – Pumping and Treatment Update

1. We are waiting for the signed conservation restriction back from the Energy and Environmental Affairs Office.

Water Sampling

- 30 bacteria samples were taken for the month of July and the results reported to DEP. One sample, Forest Beach Road came back positive for total coliform, negative for e Coli. Repeat samples showed no detect.
- PFAS6 samples were taken from Well 4 and showed no detects, down from 2.08 in January.
- Quarterly samples for Nitrate and Perchlorate were taken, and the results were all below the MCL.

Station Maintenance

- Routine and annual maintenance and housekeeping were performed at all stations.
- Static and dynamic (drawdowns) water level readings were recorded for each well.
- An automatic transfer switch for Well 7 was ordered to replace defective one.
- New pH and chlorine analyzers for South Chatham to measure both the 100-foot tap and 4 log calculations were ordered.
- Purchases through Veolia have saved the Town of Chatham over \$50,000.

System Maintenance

- Hydrant painting continues.

- Backflow prevention device testing continues.
- Bortolotti repaired the curb box and blow off at 60 Robbins Way.

Meter Reading

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

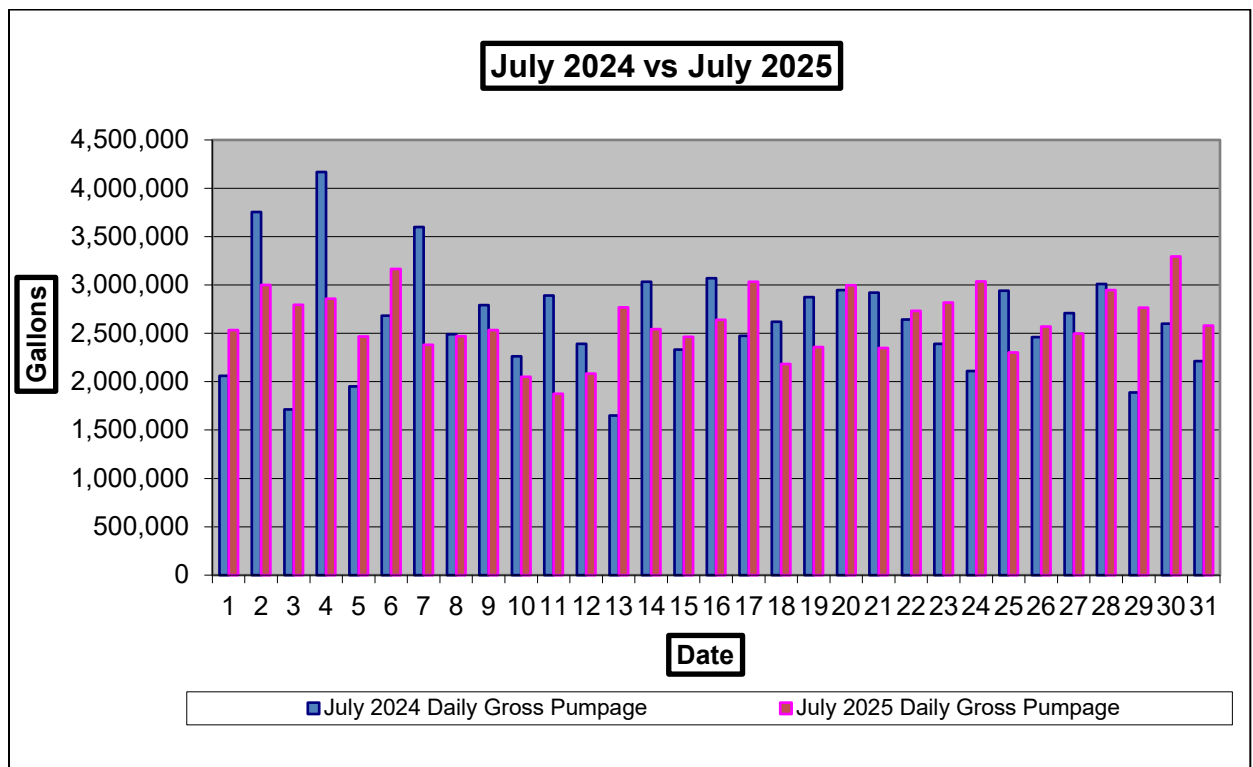
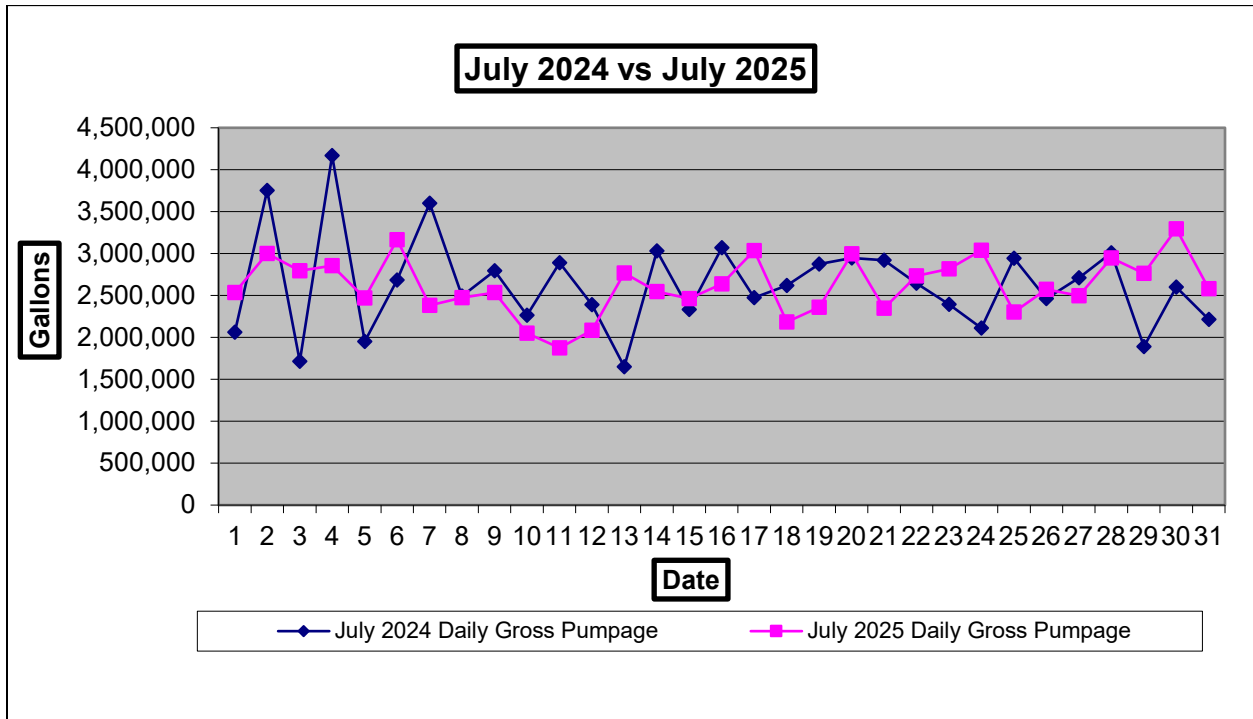
Meter Activities

| Dig Safes | New | Final | Turn on/off | Repair | Replace & Install Radio | Inspections |
|------------------|------------|--------------|--------------------|---------------|------------------------------------|--------------------|
| 217 | 12 | 24 | 10 | 18 | 14 | 10 |

July 2025 vs 2024 Pumping Comparison

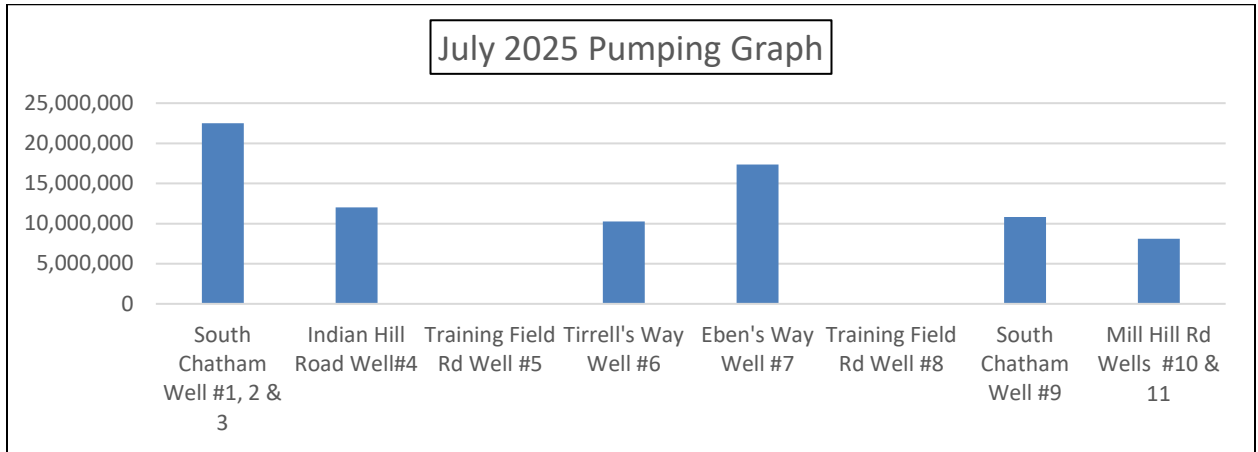
| DATE | July 2024 Daily Gross Pumpage | July 2025 Daily Gross Pumpage | July 2024 vs. July 2025 Increase / Decrease (Gallons) | July 2024 vs. July 2025 Increase / Decrease (Percent) |
|--------------|-------------------------------------|----------------------------------|---|---|
| 1 | 2,060,000 | 2,534,600 | 474,600 | 23% |
| 2 | 3,753,800 | 3,001,300 | (752,500) | -20% |
| 3 | 1,714,100 | 2,795,100 | 1,081,000 | 63% |
| 4 | 4,167,500 | 2,857,200 | (1,310,300) | -31% |
| 5 | 1,950,900 | 2,468,700 | 517,800 | 27% |
| 6 | 2,683,400 | 3,165,000 | 481,600 | 18% |
| 7 | 3,600,200 | 2,382,800 | (1,217,400) | -34% |
| 8 | 2,492,300 | 2,472,200 | (20,100) | -1% |
| 9 | 2,793,100 | 2,533,400 | (259,700) | -9% |
| 10 | 2,264,100 | 2,049,800 | (214,300) | -9% |
| 11 | 2,890,700 | 1,874,400 | (1,016,300) | -35% |
| 12 | 2,390,300 | 2,082,800 | (307,500) | -13% |
| 13 | 1,650,400 | 2,769,300 | 1,118,900 | 68% |
| 14 | 3,032,700 | 2,544,400 | (488,300) | -16% |
| 15 | 2,331,700 | 2,464,100 | 132,400 | 6% |
| 16 | 3,071,000 | 2,639,600 | (431,400) | -14% |
| 17 | 2,474,300 | 3,033,800 | 559,500 | 23% |
| 18 | 2,619,600 | 2,182,100 | (437,500) | -17% |
| 19 | 2,876,300 | 2,360,100 | (516,200) | -18% |
| 20 | 2,946,500 | 2,997,700 | 51,200 | 2% |
| 21 | 2,919,500 | 2,348,700 | (570,800) | -20% |
| 22 | 2,644,600 | 2,732,600 | 88,000 | 3% |
| 23 | 2,392,300 | 2,818,700 | 426,400 | 18% |
| 24 | 2,109,400 | 3,037,000 | 927,600 | 44% |
| 25 | 2,941,700 | 2,303,300 | (638,400) | -22% |
| 26 | 2,461,000 | 2,571,600 | 110,600 | 4% |
| 27 | 2,710,000 | 2,496,200 | (213,800) | -8% |
| 28 | 3,009,100 | 2,947,900 | (61,200) | -2% |
| 29 | 1,889,900 | 2,764,400 | 874,500 | 46% |
| 30 | 2,599,900 | 3,294,800 | 694,900 | 27% |
| 31 | 2,214,400 | 2,579,200 | 364,800 | 16% |
| Total | 81,654,700 | 81,102,800 | (551,900) | -0.7% |

July 2024 vs 2025 Pumping Graphs



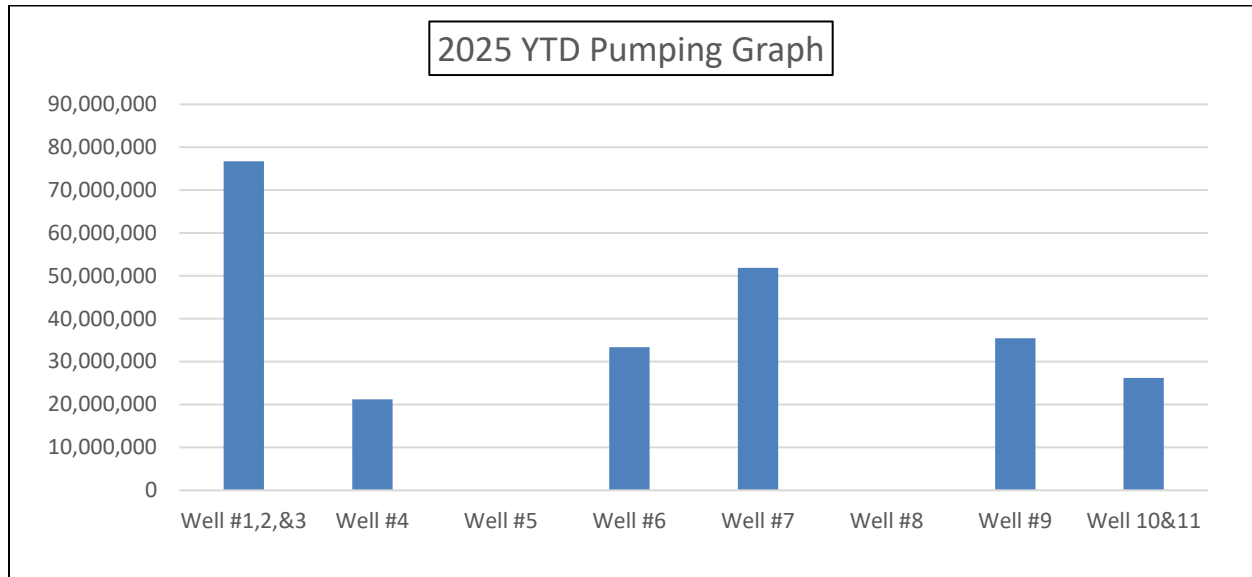
July 2025 Monthly Pumping Report

| 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 | | 754,800 | 322,400 | | 345,400 | 600,100 | | 303,500 | 208,400 | 2,534,600 |
| 2 | | 697,100 | 294,000 | | 471,600 | 799,800 | | 525,200 | 213,600 | 3,001,300 |
| 3 | | 796,000 | 486,100 | | 308,000 | 535,700 | | 327,200 | 342,100 | 2,795,100 |
| 4 | | 768,600 | 442,400 | | 352,200 | 601,500 | | 381,300 | 311,200 | 2,857,200 |
| 5 | | 679,200 | 406,200 | | 285,700 | 495,700 | | 306,900 | 295,000 | 2,468,700 |
| 6 | | 933,300 | 544,100 | | 355,500 | 654,500 | | 301,700 | 375,900 | 3,165,000 |
| 7 | | 722,600 | 321,400 | | 300,700 | 497,100 | | 311,000 | 230,000 | 2,382,800 |
| 8 | | 720,000 | 443,800 | | 267,300 | 438,900 | | 298,700 | 303,500 | 2,472,200 |
| 9 | | 799,500 | 310,400 | | 326,000 | 537,500 | | 346,700 | 213,300 | 2,533,400 |
| 10 | | 660,000 | 217,700 | | 267,400 | 466,800 | | 273,600 | 164,300 | 2,049,800 |
| 11 | | 601,000 | 301,400 | | 194,800 | 343,200 | | 228,000 | 206,000 | 1,874,400 |
| 12 | | 649,400 | 330,500 | | 229,300 | 393,800 | | 255,900 | 223,900 | 2,082,800 |
| 13 | | 840,400 | 416,000 | | 333,700 | 577,200 | | 320,400 | 281,600 | 2,769,300 |
| 14 | | 750,300 | 395,300 | | 279,800 | 482,600 | | 340,400 | 296,000 | 2,544,400 |
| 15 | | 746,200 | 471,900 | | 255,100 | 448,000 | | 261,100 | 281,800 | 2,464,100 |
| 16 | | 854,800 | 305,400 | | 323,300 | 547,000 | | 339,800 | 269,300 | 2,639,600 |
| 17 | | 777,100 | 302,800 | | 438,000 | 765,900 | | 479,500 | 270,500 | 3,033,800 |
| 18 | | 568,600 | 358,000 | | 274,800 | 474,500 | | 298,900 | 207,300 | 2,182,100 |
| 19 | | 619,100 | 349,900 | | 298,600 | 512,500 | | 311,200 | 268,800 | 2,360,100 |
| 20 | | 896,800 | 478,300 | | 371,500 | 645,400 | | 337,600 | 268,100 | 2,997,700 |
| 21 | | 399,800 | 212,000 | | 470,500 | 547,700 | | 547,700 | 171,000 | 2,348,700 |
| 22 | | 544,200 | 285,400 | | 470,100 | 693,000 | | 516,700 | 223,200 | 2,732,600 |
| 23 | | 897,300 | 481,900 | | 296,400 | 509,500 | | 320,000 | 313,600 | 2,818,700 |
| 24 | | 815,200 | 529,000 | | 374,800 | 647,400 | | 372,100 | 298,500 | 3,037,000 |
| 25 | | 699,300 | 339,300 | | 273,100 | 459,700 | | 323,400 | 208,500 | 2,303,300 |
| 26 | | 89,900 | 397,800 | | 518,300 | 890,700 | | 547,100 | 127,800 | 2,571,600 |
| 27 | | 761,200 | 387,600 | | 289,200 | 516,600 | | 297,000 | 244,600 | 2,496,200 |
| 28 | | 851,000 | 497,800 | | 340,300 | 591,900 | | 332,100 | 334,800 | 2,947,900 |
| 29 | | 882,500 | 445,200 | | 301,100 | 523,200 | | 313,200 | 299,200 | 2,764,400 |
| 30 | | 941,300 | 547,300 | | 377,000 | 654,700 | | 414,000 | 360,500 | 3,294,800 |
| 31 | | 788,400 | 412,400 | | 283,800 | 508,900 | | 305,300 | 280,400 | 2,579,200 |
| Total | | 22,504,900 | 12,033,700 | | 10,273,300 | 17,361,000 | | 10,837,200 | 8,092,700 | 81,102,800 |
| | | | | | | | | Minimum | | 1,874,400 |
| | | | | | | | | Maximum | | 3,294,800 |
| | | | | | | | | Average | | 2,616,219 |

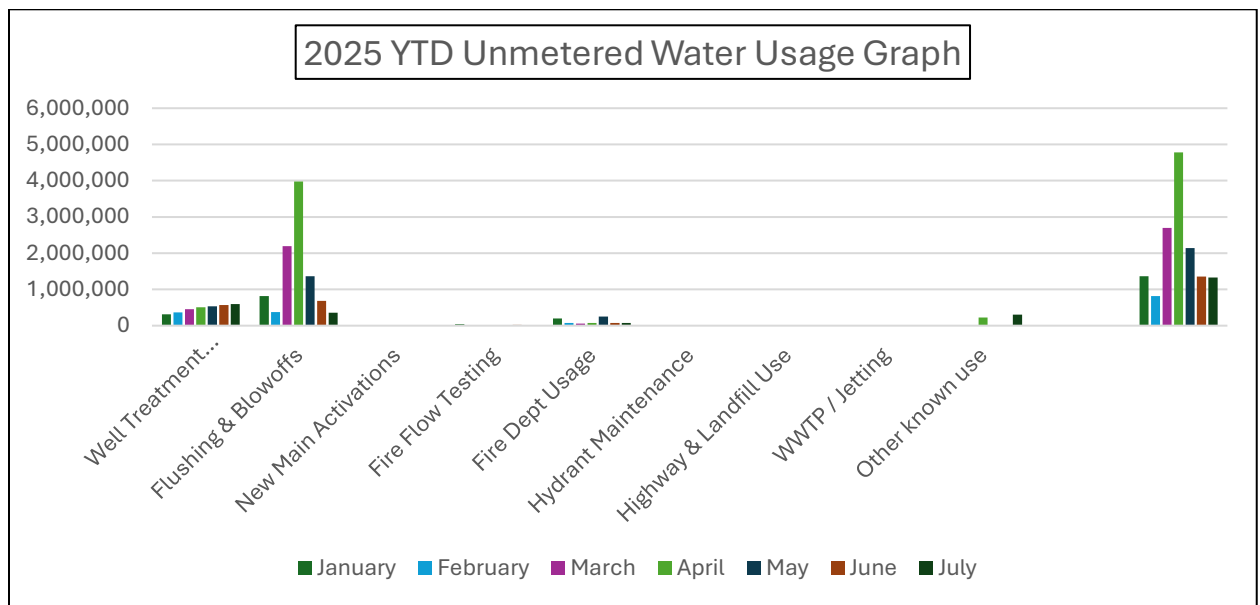


2025 YTD Pumping Report

| | 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 | | | | | | | | | 0 | | 0 |
| September | | | | | | | | | 0 | | 0 |
| October | | | | | | | | | 0 | | 0 |
| November | | | | | | | | | 0 | | 0 |
| December | | | | | | | | | 0 | | 0 |
| Totals | 76,716,500 | 21,182,100 | 0 | 33,398,400 | 51,917,900 | 0 | 35,446,200 | 26,207,300 | 244,868,400 | 254,758,200 | -9,889,800 |



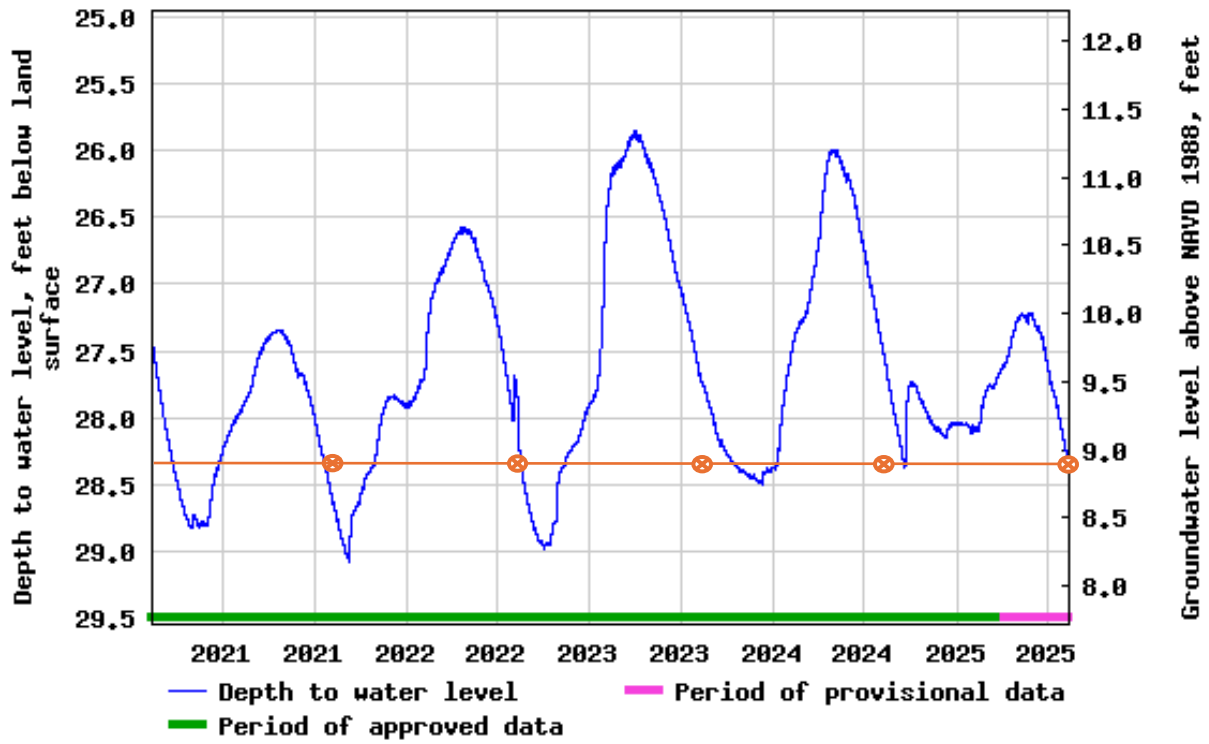
| Type of use | January | February | March | April | May | June | July |
|---------------------------|------------------|----------------|------------------|------------------|------------------|------------------|------------------|
| Well Treatment Operations | 315,152 | 365,521 | 452,949 | 505,300 | 534,856 | 568,654 | 593,761 |
| Flushing & Blowoffs | 815,425 | 374,600 | 2,189,654 | 3,977,575 | 1,359,700 | 687,945 | 356,782 |
| New Main Activations | 0 | 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 | 76,500 |
| Hydrant Maintenance | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Highway & Landfill Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WWTP / Jetting | 0 | 0 | 1,000 | 0 | 0 | 0 | 5,000 |
| Other known use | | | | 221,700 | | | 300,000 |
| Total | 1,363,407 | 818,371 | 2,697,353 | 4,778,925 | 2,144,556 | 1,353,759 | 1,332,043 |



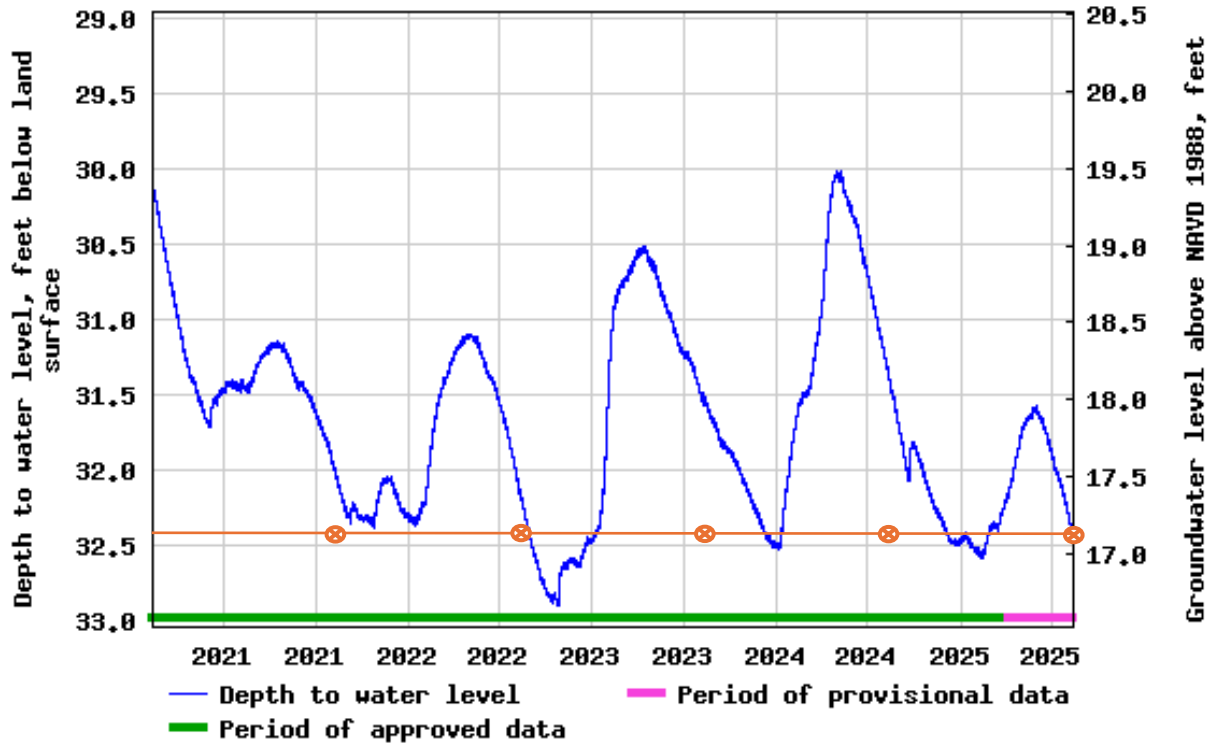
Chatham 5-year Pumping Comparison (Month of July)

| July Date | July 2021 Daily Gross Pumpage | Hours | July 2022 Daily Gross Pumpage | Hours | July 2023 Daily Gross Pumpage | Hours | July 2024 Daily Gross Pumpage | Hours | July 2025 Daily Gross Pumpage | Hours | Average Daily Pumpage (gallons) | Average Daily Pumpage (hours) |
|--------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|---------------------------------|-------------------------------|
| 1 | 2,770,600 | 17 | 2,237,300 | 16 | 2,722,800 | 12 | 2,060,000 | 16 | 2,534,600 | 16 | 2,465,060 | 15.3 |
| 2 | 1,989,400 | 15 | 2,836,900 | 11 | 3,014,100 | 13 | 3,753,800 | 15 | 3,001,300 | 19 | 2,919,100 | 14.6 |
| 3 | 2,528,900 | 14 | 2,933,100 | 14 | 2,483,900 | 15 | 1,714,100 | 16 | 2,795,100 | 13.5 | 2,491,020 | 14.5 |
| 4 | 2,500,300 | 14 | 3,225,700 | 15 | 2,655,700 | 12 | 4,212,500 | 18 | 2,857,200 | 14.75 | 3,090,280 | 14.75 |
| 5 | 3,364,400 | 19 | 2,936,000 | 13 | 2,240,900 | 13 | 1,950,900 | 17 | 2,468,700 | 13.25 | 2,592,180 | 15.05 |
| 6 | 3,067,100 | 17 | 2,834,800 | 14 | 2,675,400 | 12 | 2,683,400 | 12 | 3,165,000 | 14.75 | 2,885,140 | 13.95 |
| 7 | 3,357,900 | 18 | 3,161,300 | 13 | 2,664,400 | 11.5 | 3,600,200 | 15.5 | 2,382,800 | 13 | 3,033,320 | 14.2 |
| 8 | 2,497,200 | 16 | 2,760,900 | 15 | 2,756,000 | 14 | 2,492,300 | 14.5 | 2,472,200 | 12.5 | 2,595,720 | 14.4 |
| 9 | 2,375,800 | 15 | 2,626,900 | 13 | 2,895,900 | 13 | 2,887,100 | 13.75 | 2,533,400 | 15.5 | 2,663,820 | 14.05 |
| 10 | 2,330,900 | 14 | 3,018,600 | 12 | 2,225,400 | 14 | 2,264,100 | 16.5 | 2,049,800 | 15 | 2,377,760 | 14.3 |
| 11 | 2,381,200 | 13 | 3,010,700 | 15 | 2,399,600 | 11 | 2,890,700 | 14 | 1,874,400 | 12 | 2,511,320 | 13 |
| 12 | 2,051,700 | 15 | 3,146,600 | 14 | 3,003,500 | 15 | 2,396,300 | 14 | 2,082,800 | 11 | 2,536,180 | 13.8 |
| 13 | 2,232,100 | 13 | 3,073,400 | 16 | 2,812,400 | 13 | 1,638,800 | 12 | 2,769,300 | 17 | 2,505,200 | 14.2 |
| 14 | 2,320,400 | 14 | 3,489,600 | 14 | 2,012,700 | 14 | 3,032,700 | 12.75 | 2,544,400 | 10 | 2,679,960 | 12.95 |
| 15 | 2,805,100 | 15 | 2,918,800 | 17 | 2,161,100 | 11 | 2,331,700 | 11 | 2,464,100 | 11.75 | 2,536,160 | 13.15 |
| 16 | 2,489,300 | 15 | 2,831,100 | 15 | 2,432,400 | 10 | 3,071,000 | 14.5 | 2,639,600 | 16.25 | 2,692,680 | 14.15 |
| 17 | 2,540,700 | 15 | 3,465,600 | 14 | 1,946,100 | 12 | 2,474,300 | 11.5 | 3,033,800 | 14.5 | 2,692,100 | 13.4 |
| 18 | 2,768,100 | 15 | 3,027,700 | 16 | 2,524,700 | 9 | 2,619,600 | 11.5 | 2,182,100 | 19 | 2,624,440 | 14.1 |
| 19 | 2,725,400 | 15 | 3,239,000 | 13 | 2,283,500 | 13 | 2,876,300 | 14.5 | 2,360,100 | 14 | 2,696,860 | 13.9 |
| 20 | 2,521,900 | 15 | 3,363,900 | 17 | 2,741,000 | 12 | 2,846,500 | 17.75 | 2,997,700 | 19 | 2,894,200 | 16.15 |
| 21 | 2,962,800 | 17 | 3,306,300 | 14 | 2,456,600 | 19 | 2,919,500 | 20 | 2,348,700 | 20.75 | 2,798,780 | 18.15 |
| 22 | 2,721,500 | 15 | 3,215,800 | 17 | 2,691,700 | 13 | 2,644,600 | 11 | 2,732,600 | 15.25 | 2,801,240 | 14.25 |
| 23 | 2,929,200 | 16 | 2,956,200 | 15 | 3,010,200 | 13 | 2,392,300 | 12 | 2,818,700 | 15.25 | 2,821,320 | 14.25 |
| 24 | 3,061,500 | 16 | 3,473,400 | 14 | 2,856,400 | 15 | 2,109,400 | 15 | 3,037,000 | 14 | 2,907,540 | 14.8 |
| 25 | 2,701,500 | 15 | 3,180,800 | 16 | 3,120,200 | 11 | 2,941,700 | 12 | 2,303,300 | 13 | 2,849,500 | 13.4 |
| 26 | 3,224,000 | 16 | 3,297,900 | 14 | 2,662,000 | 12 | 2,461,000 | 11 | 2,571,600 | 22 | 2,843,300 | 15 |
| 27 | 2,735,600 | 17 | 3,574,200 | 17 | 3,082,900 | 13 | 2,710,000 | 13 | 2,496,200 | 13 | 2,919,780 | 14.6 |
| 28 | 2,874,200 | 15 | 3,088,900 | 15 | 2,805,300 | 16 | 3,009,100 | 15 | 2,947,900 | 14 | 2,945,080 | 15 |
| 29 | 2,761,200 | 15 | 3,270,500 | 18 | 2,574,600 | 13 | 1,889,900 | 8.25 | 2,764,400 | 13.25 | 2,652,120 | 13.5 |
| 30 | 2,530,600 | 16 | 2,843,800 | 14 | 2,850,600 | 12 | 2,599,900 | 12.5 | 3,294,800 | 18.5 | 2,823,940 | 14.6 |
| 31 | 2,688,200 | 15 | 3,482,400 | 14 | 2,920,800 | 15 | 2,214,400 | 10.5 | 2,579,200 | 12 | 3,046,100 | 13.3 |
| Total | 82,808,700 | 477 | 95,828,100 | 455 | 81,682,800 | 402 | 81,688,100 | 428 | 81,102,800 | 463 | 81,845,100 | 444.75 |

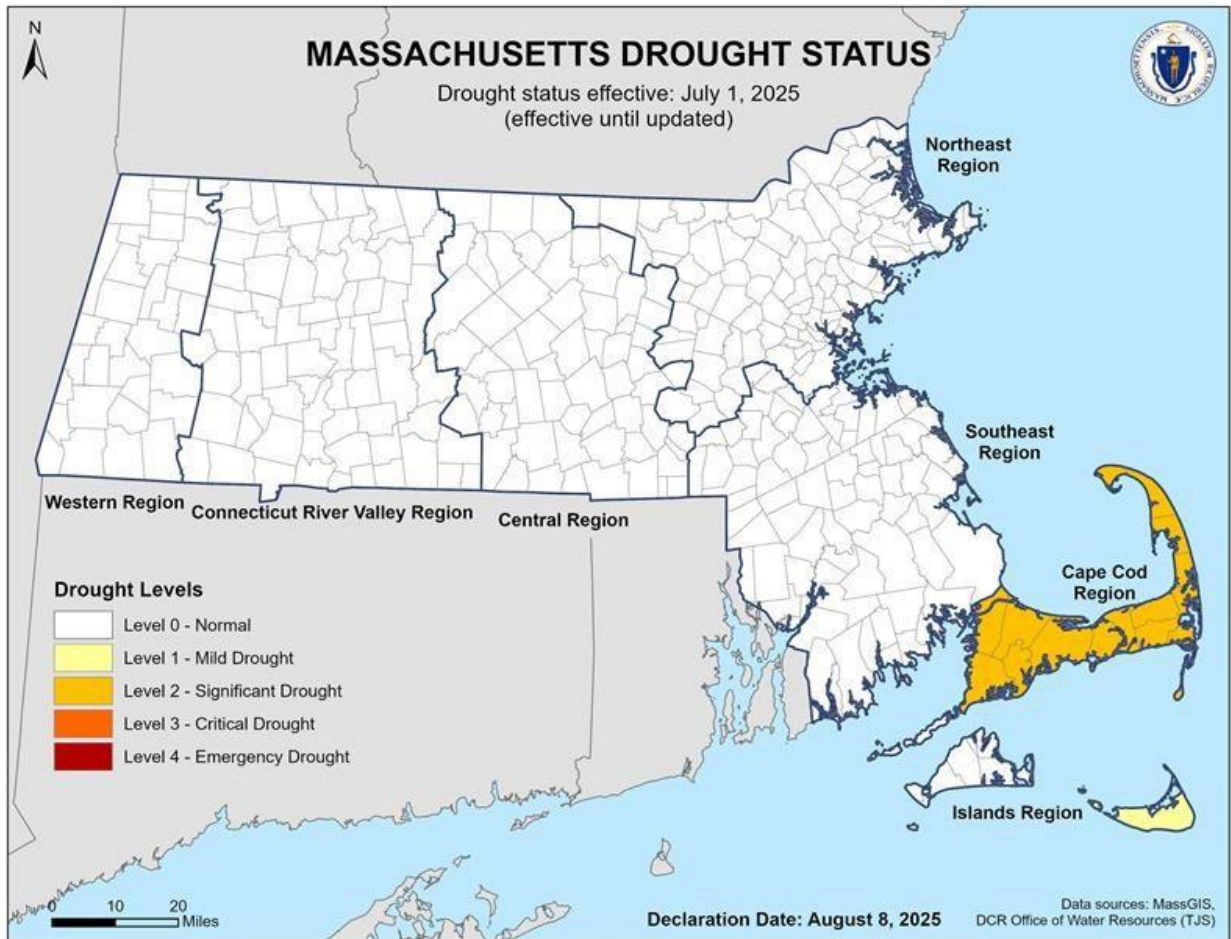
USGS 414101070011001 MA-CGM 138R CHATHAM, MA



USGS 414632070014901 MA-BMW 22R BREWSTER, MA



Cape Cod's Drought Conditions Worsen While Drought Remains Unchanged on Nantucket



On August 8, 2025, Secretary of Energy and Environmental Affairs Rebecca Tepper declared that the Cape Cod Region has been upgraded to a Level 2 - Significant Drought from a Level 1 – Mild Drought last month. Therefore, • **Level 1 – Mild Drought continues for Nantucket County**, and • **Level 2 – Significant Drought has returned to Cape Cod**.

The Western, Connecticut River Valley, Central, Northeast and Southeast Regions remain at Normal Conditions, although conditions are starting to dry across the state. Dukes County (Martha's Vineyard and the Elizabeth Islands) also remains at Normal Condition.

July was notably warm in Massachusetts, with average temperatures 2 to 5 degrees above normal. Precipitation levels varied in the state, with some areas getting above-normal rainfall amounts, while areas north of I-90, and the Northeast, Southeast, Cape Cod, and the Islands Regions have seen below-average rainfall. Even Regions that are currently not

in a drought are starting to see some indications of drought conditions increasing. Drought conditions have now persisted for nearly a year on the Cape.

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 .