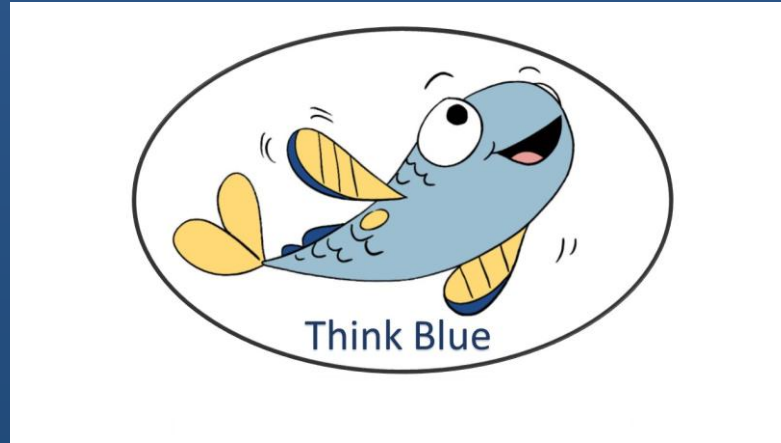


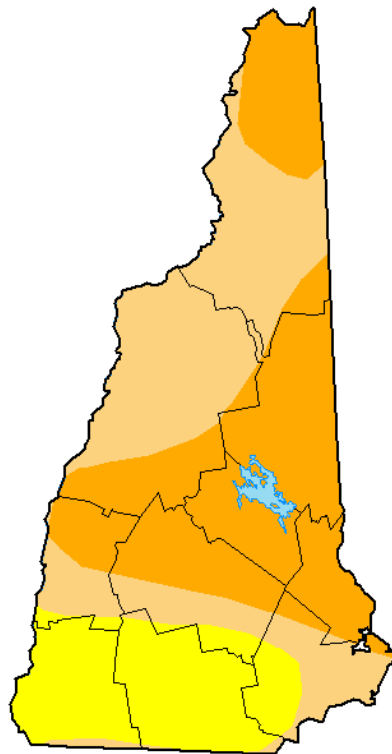
Portsmouth and Pease Water Supply Update









Safe Water Advisory Group
March 11, 2026

U.S. Drought Monitor New Hampshire

March 3, 2026
(Released Thursday, Mar. 5, 2026)
Valid 7 a.m. EST



Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

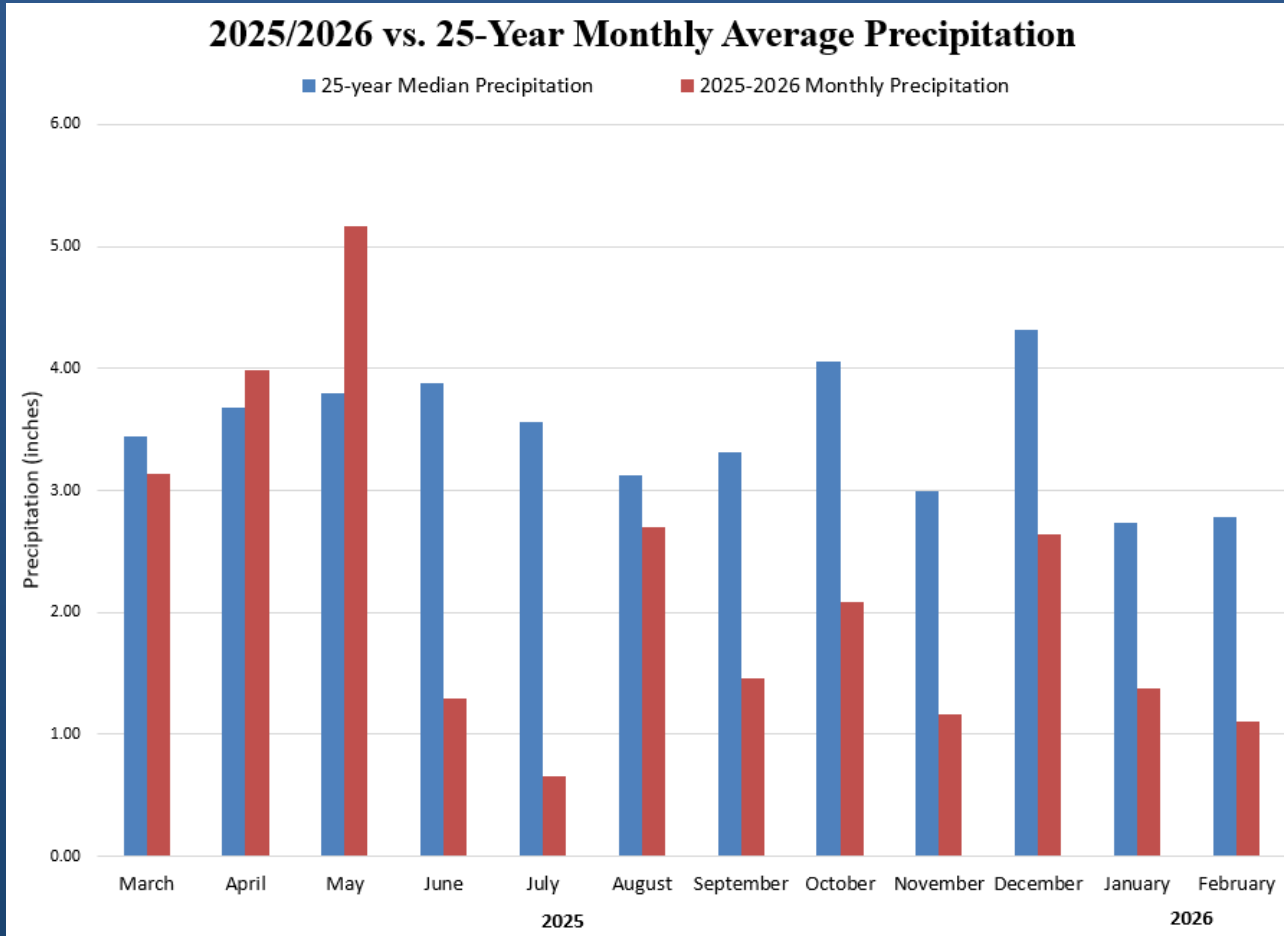
Author:

Brad Pugh
CPC/NOAA

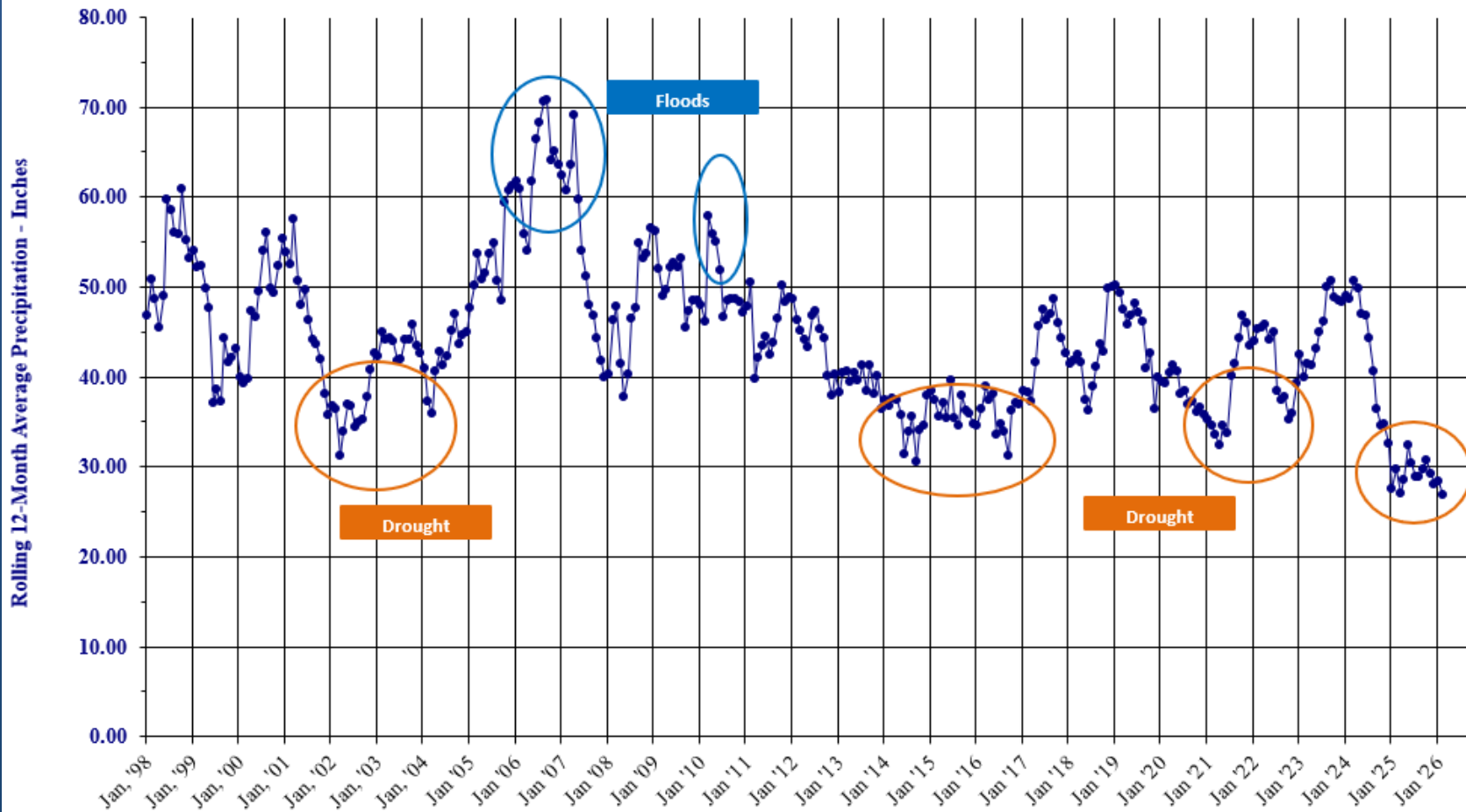


droughtmonitor.unl.edu

Precipitation – 36% Below Normal Annual Average

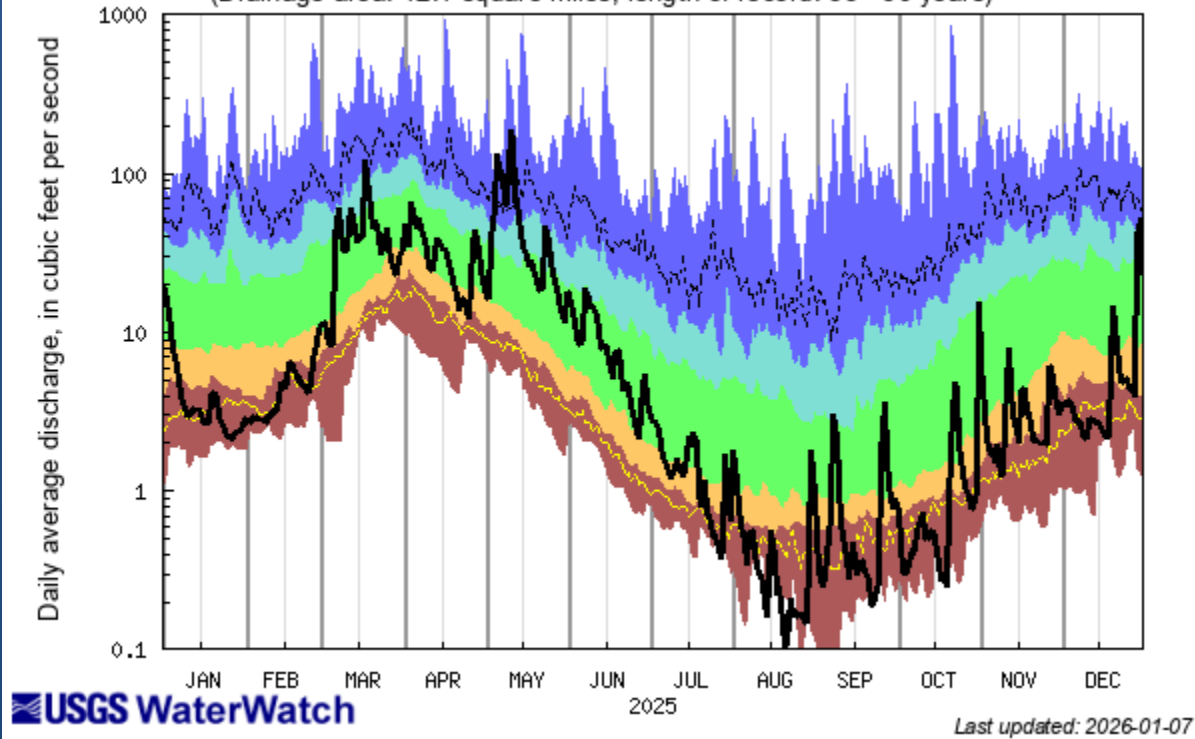


Precipitation - Portsmouth, NH - 1998 to 2026



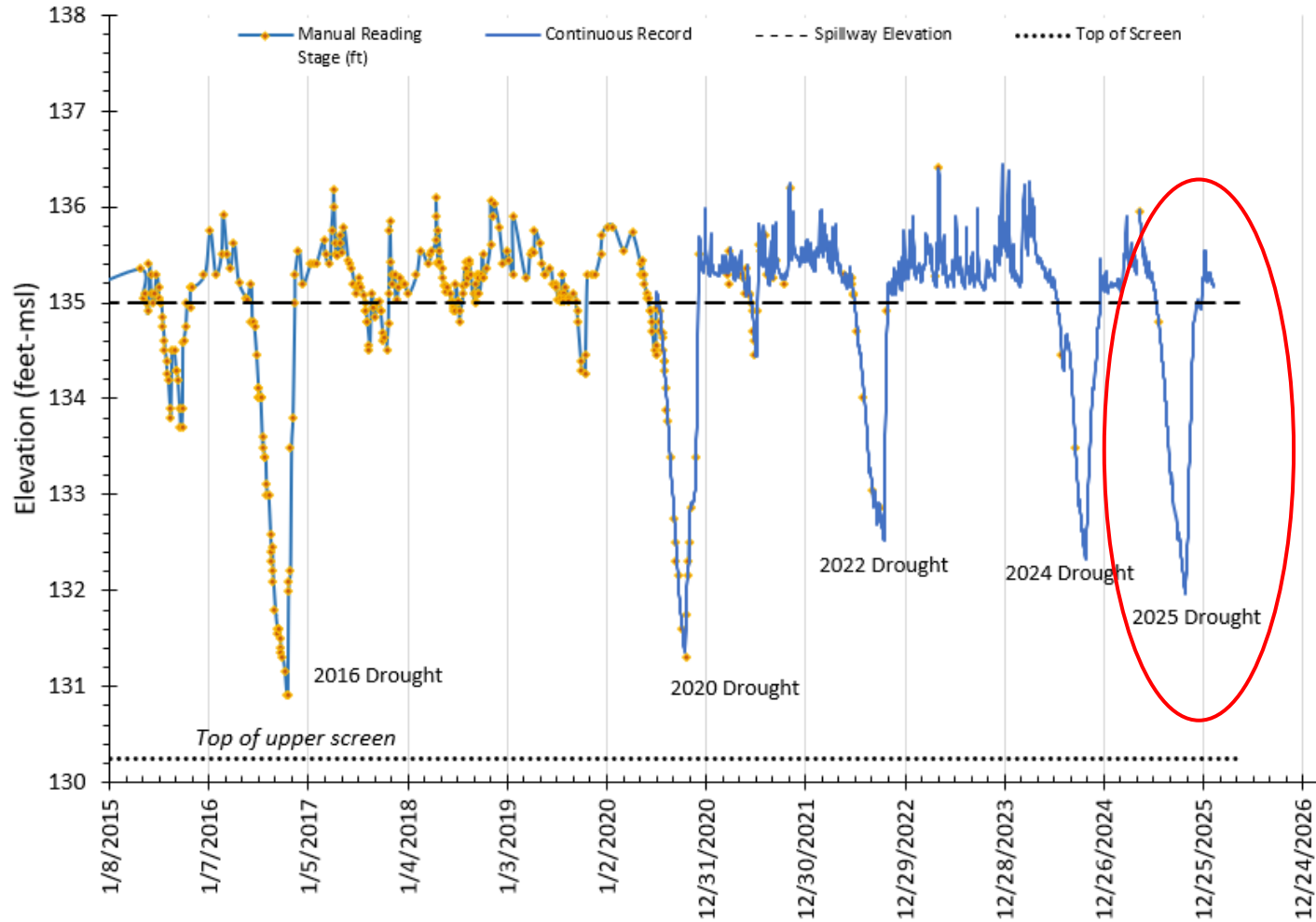
Stream Flow

USGS 01073000 OYSTER RIVER NEAR DURHAM, NH
 (Drainage area: 12.1 square miles, length of record: 88 - 90 years)

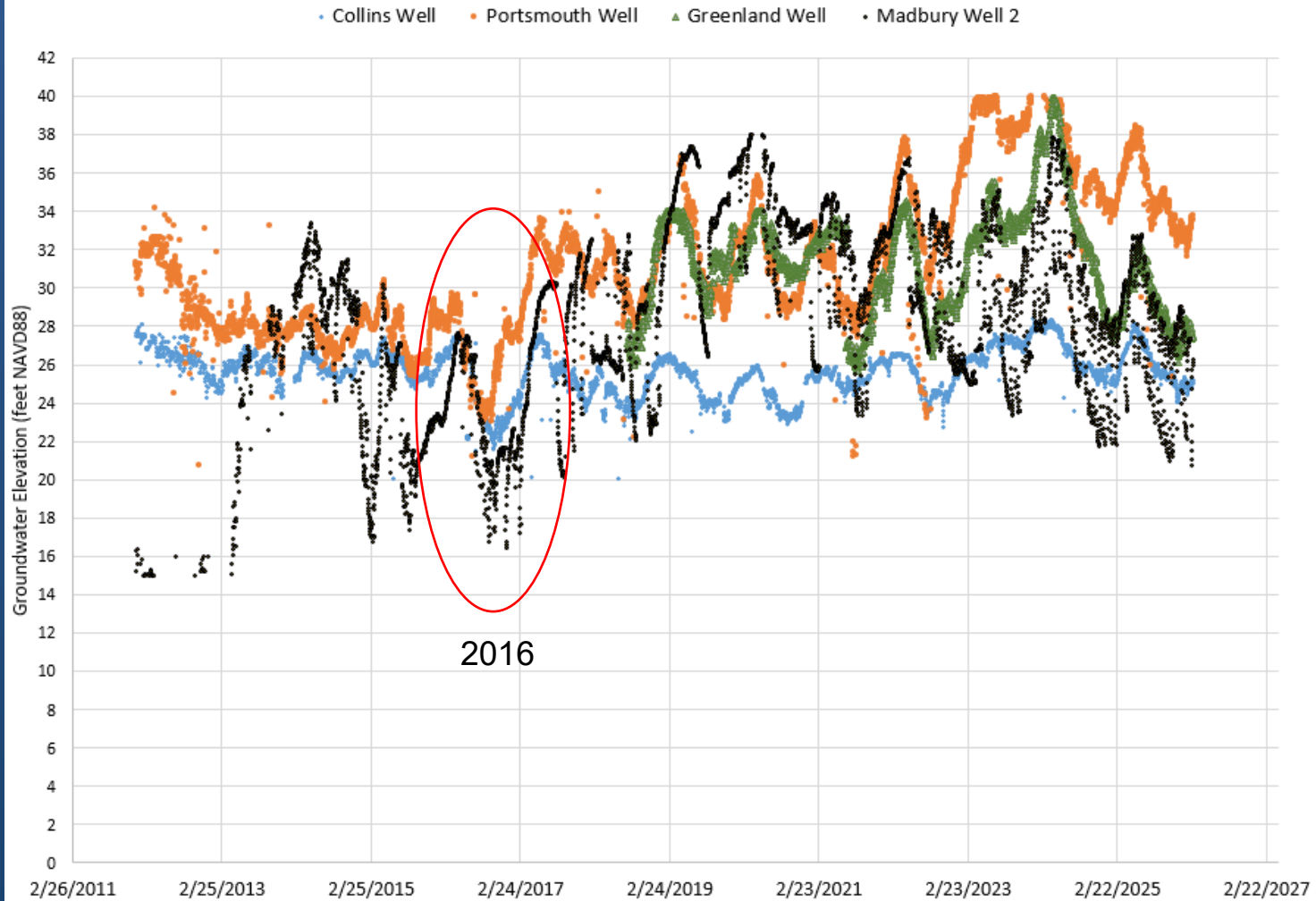


Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest
Much below Normal		Below normal	Normal	Above normal	Much above normal	Flow

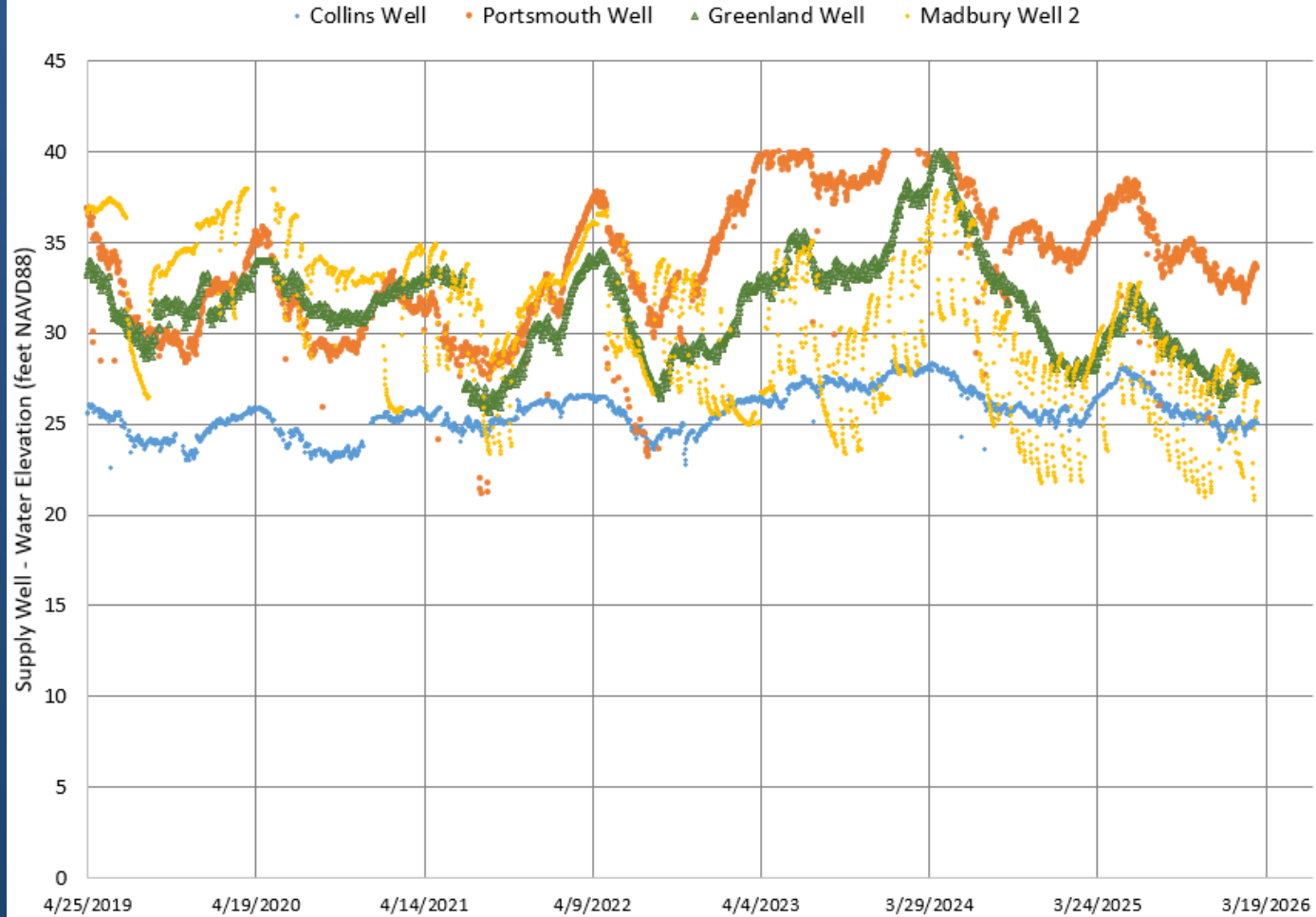
Bellamy Reservoir Water Level



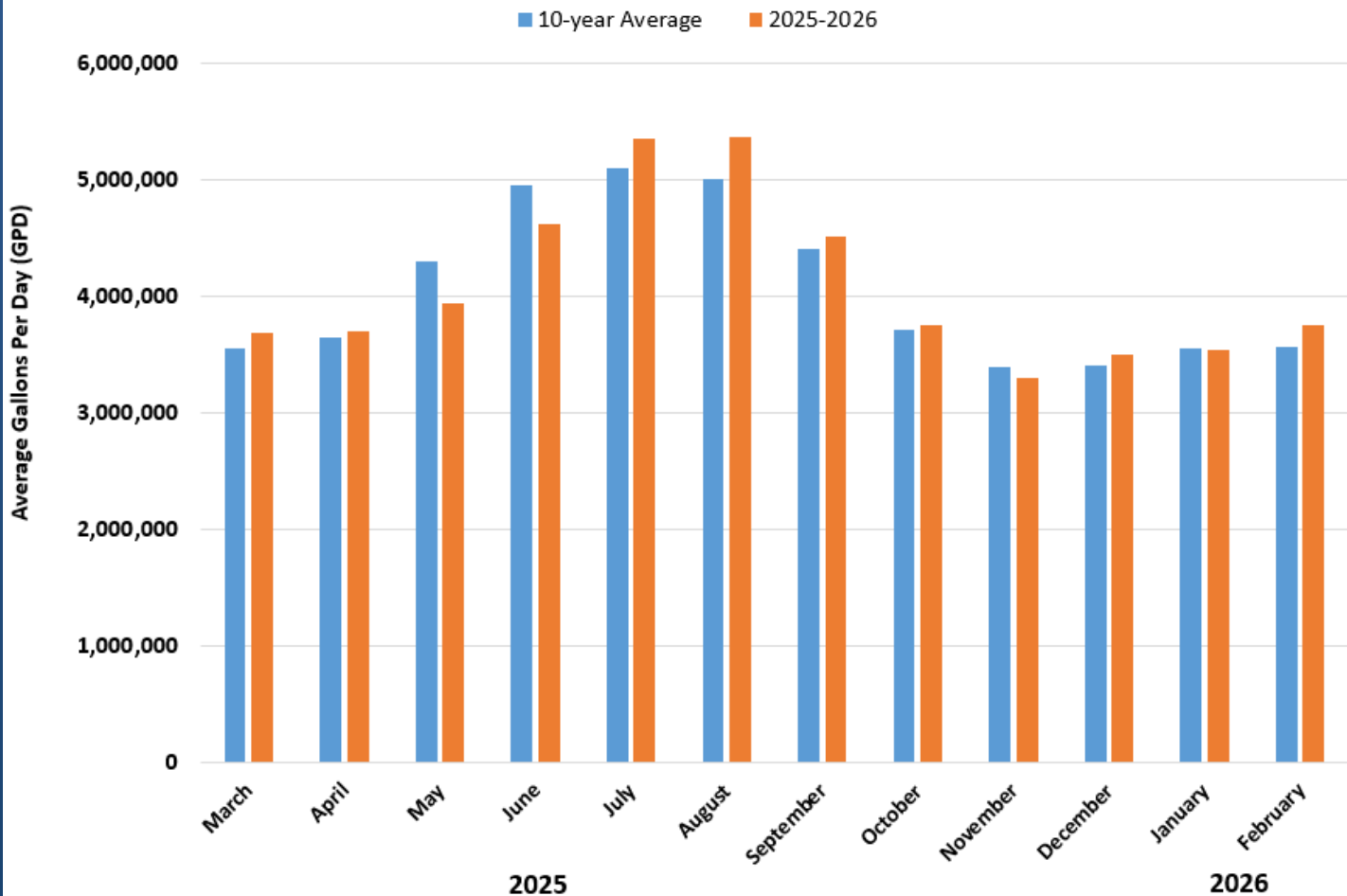
Supply Well Water Elevations



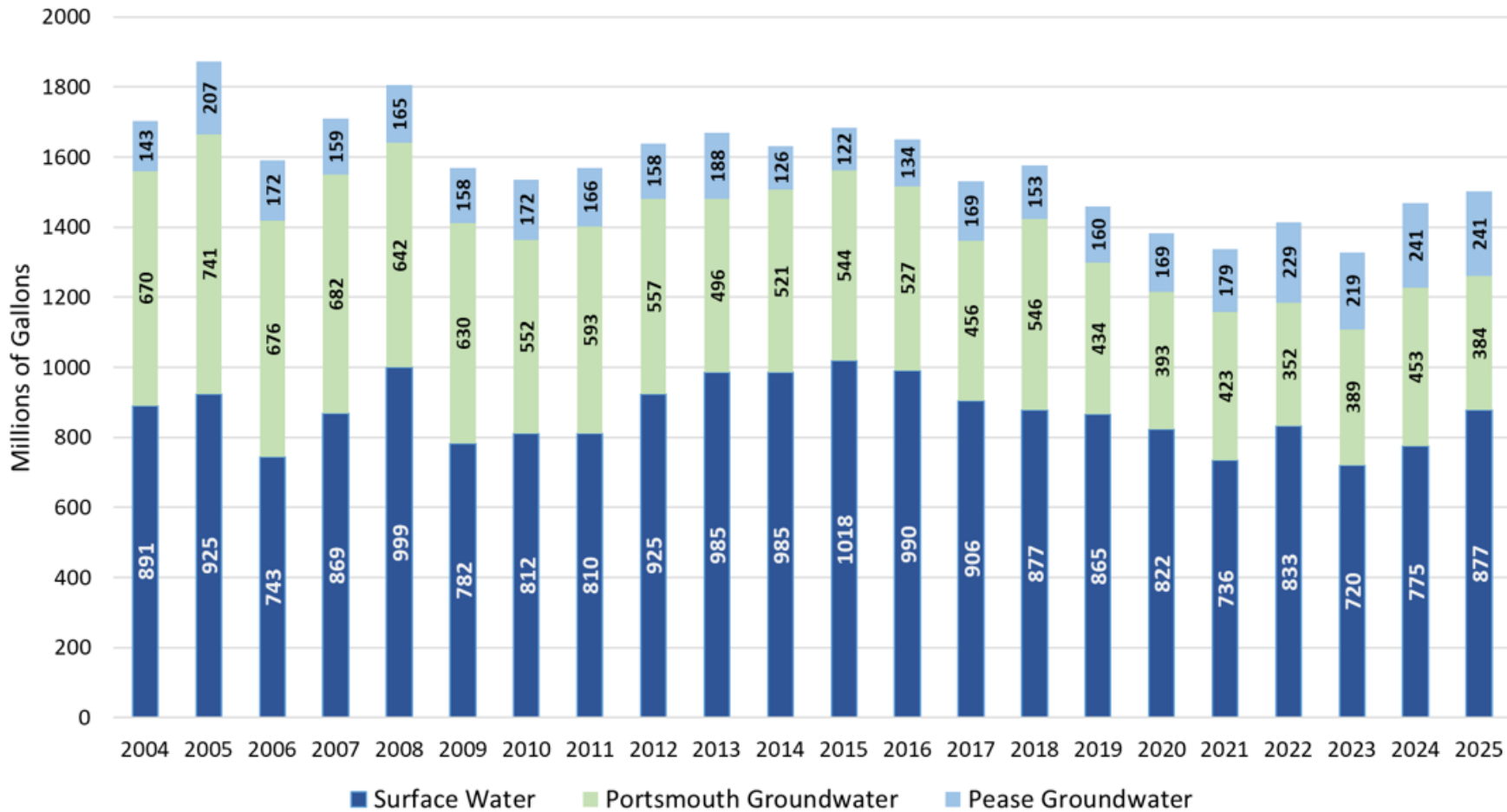
Supply Well - Water Elevations



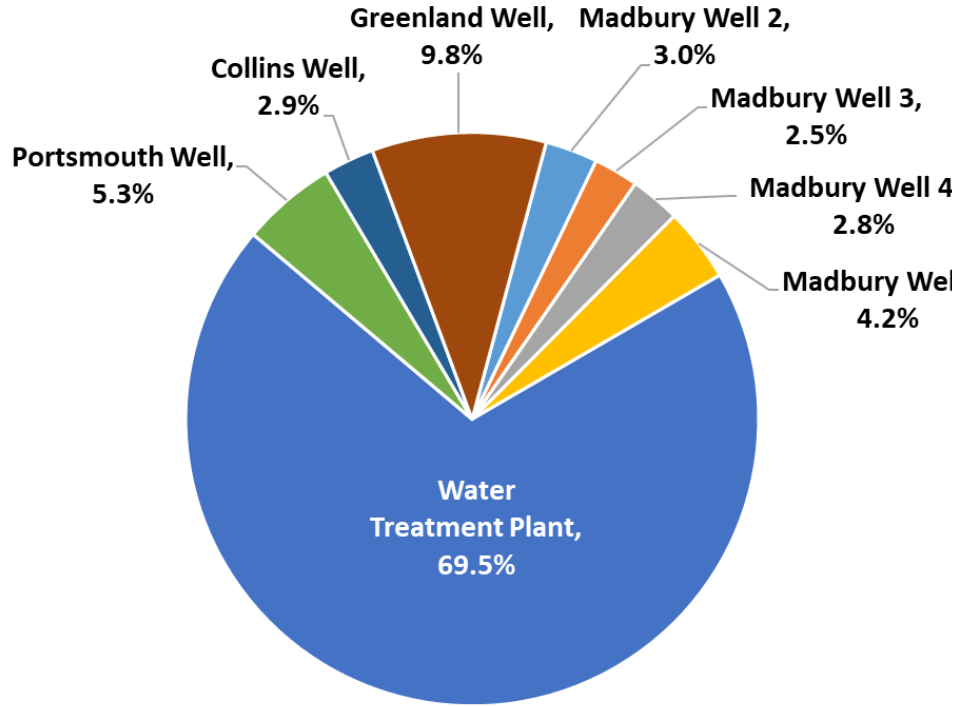
Portsmouth & Pease Water Systems Average Daily Water Production



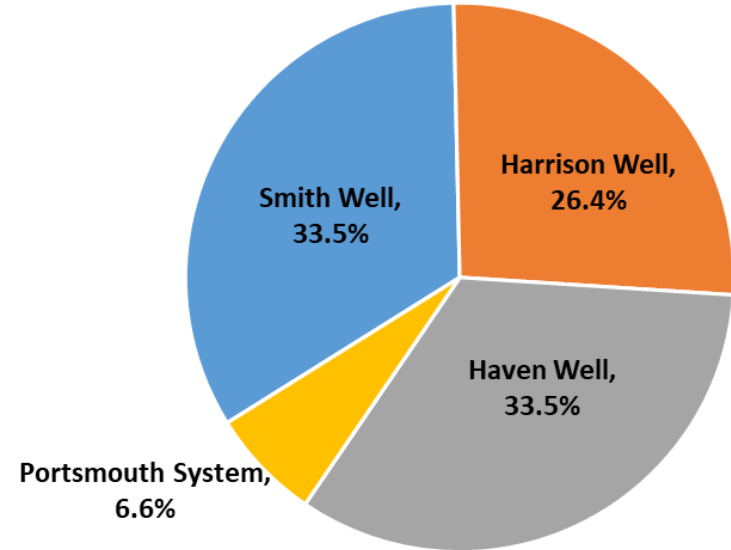
Total Water Supplied Portsmouth and Pease Sources



**Portsmouth Water Sources
Source Percentages in 2025**



**Pease Supply Sources
Source Percentages in 2025**



12-Month Rolling Average April 2026 – March 2026

12-MONTH ROLLING AVERAGE 2026 Q1		EPA MCL (2024)	NH MCL	MADBURY WTP FINISHED	MADBURY WELL 2	MADBURY WELL 3	MADBURY WELL 4R	MADBURY WELL 5	PORTSMOUTH WELL	COLLINS WELL	GREENLAND WELL	PEASE WTP
Perfluorohexanesulfonic acid(PFHxS)	ng/L	10	18	0.0	0.4	0.4	0.4	1.1	7.7	2.2	1.9	0.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	4	15	1.0	1.2	1.2	0.7	0.9	5.6	4.3	3.5	0.0
Perfluorooctanoic acid (PFOA)	ng/L	4	12	2.1	2.4	2.4	2.1	2.3	7.1	4.0	4.2	0.0
Perfluorononanoic acid (PFNA)	ng/L	10	11	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ng/L	10		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perfluorobutanesulfonic acid (PFBS)	ng/L			1.0	1.5	1.3	1.2	1.9	4.2	10.0	2.3	0.0
Hazard Index*		1		0.0	0.0	0.0	0.0	0.1	0.8	0.2	0.2	0.0

* Hazard Index MCL = (HFPO-DA/10)+(PFBS/2000)+(PFNA/10)+(PFHxS/10)

<https://www.portsmouthnh.gov/publicworks/water/portsmouth-water-system-pfas-updates>

Water Supply Project Updates

- Bellamy Dam Repair
- PFAS Treatment Design – Greenland Well
- PFAS Treatment Design – Portsmouth and Collins Wells
- Storage Tank Painting & Rehabilitation
- Little Bay Water Transmission Main Rehabilitation Project
- Service Line Inventory and Replacement Project

Bellamy Reservoir Dam Maintenance

- Minor seepage and efflorescence
- Epoxy injections
- Cement mortar patching
- 70% complete – finish in the Spring



Greenland Well – PFAS Treatment

- Final design on-going
- Construction anticipated 2026 - 2028
- Two (2) Granular Activated Carbon (GAC) vessels
- Permitting reactivation of old well for backup supply
- SRF Funds (\$6.5M)



Portsmouth and Collins Wells – PFAS Treatment

- Final design in FY27
- Construction anticipated 2028 - 2029
- Two (2) Granular Activated Carbon (GAC) vessels
- Submitting second formal request to the Air Force

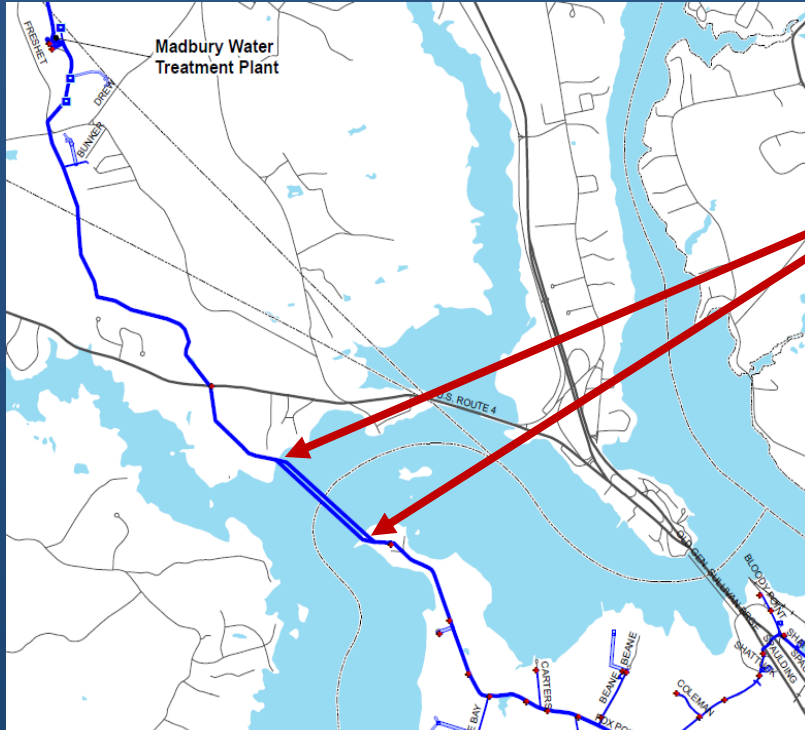


Water Storage Tank Painting & Rehabilitation

- Spinney Road Tank
 - Spot Rehab & Paint Exterior
 - Fall 2026
- Newington Booster Tank
 - Full Rehab
 - Paint Interior & Exterior
 - Spring 2027
- Lafayette Tank
 - Spot Rehab Interior & Exterior



Little Bay Water Transmission Main Resilience Project



■ Phase 1 – Valve Project

- Construction is Complete
- Two new valves installed on the lines that run under Little Bay
- Two 20" taps and valves installed in the PCCP for third main preparation

■ Phase 2 – New Main

- Permitting of Modified Design
- Engineer's Opinion of Cost
- Evaluate Funding Options

Water & Sewer Rate Study - Ongoing

Study Considerations

- Rate Structure (Tiers)
- Water and Sewer Rates
- Service Fees (“Fixed Charge”)
- Wholesale Water and Sewer Rates
- Capacity Use Surcharge Fees
- Other Fees (Fire Service & Hydrants)