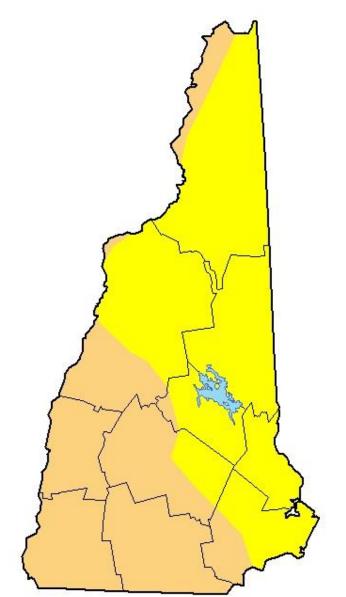
Summary of Drought Conditions in New Hampshire April 23, 2021

Brandon Kernen, PG
New Hampshire Department of Environmental Services



U.S. Drought Monitor

New Hampshire



April 20, 2021

(Released Thursday, Apr. 22, 2021) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	42.54	0.00	0.00	0.00
Last Week 04-13-2021	0.00	100.00	42.54	0.00	0.00	0.00
3 Month's Ago 01-19-2021	46.28	53.72	12.20	0.00	0.00	0.00
Start of Calendar Year 12-29-2020	51.64	48.36	12.20	0.00	0.00	0.00
Start of Water Year 09-29-2020	0.00	100.00	100.00	95.06	10.59	0.00
One Year Ago 04-21-2020	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate 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:

Richard Heim NCEI/NOAA



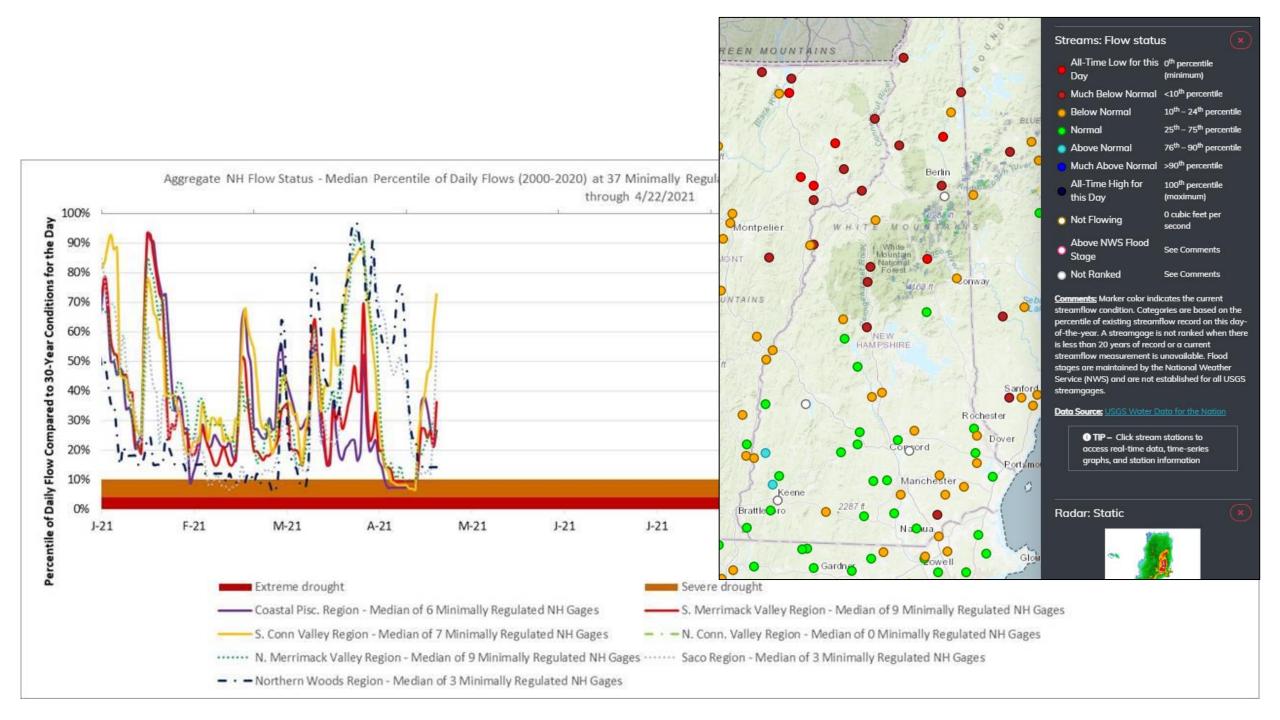




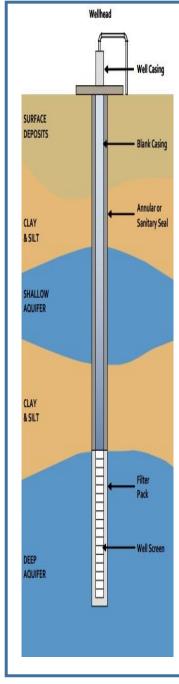


Precipitation/Departure from Normal Inches

	MONTH TO DATE	30 DAY	60 DAY	90 DAY	180 Day	Year TO DATE	365 DAY
	PCPN/DEPART	PCPN/DEPART	PCPN/DEPART	PCPN/DEPART	PCPN/DEPART	PCPN/DEPART	PCPN/DEPART
BELKNAP	2.39/ -0.23	4.07/ 0.40	5.27/ -1.80	7.40/ -2.83	18.67/ -2.40	9.38/ -2.93	36.11/ -9.14
CARROLL	2.45/ -0.68	4.36/ 0.05	5.88/ -2.22	8.36/ -3.26	20.31/ -3.88	10.57/ -3.47	41.17/ -9.66
CHESHIRE	2.52/ -0.13	3.74/ 0.01	4.83/ -2.46	7.29/ -3.35	19.83/ -1.96	9.37/ -3.58	38.75/ -8.15
COOS	1.91/ -0.61	2.98/ -0.48	4.16/ -2.35	5.72/ -3.73	13.71/ -6.81	7.29/ -4.25	37.57/ -9.82
GRAFTON	2.05/ -0.58	3.80/ 0.16	4.93/ -1.97	6.96/ -2.98	17.14/ -4.23	8.77/ -3.34	36.86/-11.16
HILLSBOROUGH	2.23/ -0.67	3.28/ -0.77	4.48/ -3.31	7.15/ -4.08	19.65/ -3.03	9.32/ -4.20	35.78/-11.22
MERRIMACK	2.26/ -0.51	3.72/ -0.15	4.89/ -2.51	7.32/ -3.33	18.94/ -2.85	9.31/ -3.54	35.88/-10.37
ROCKINGHAM	2.07/ -0.87	3.44/ -0.72	4.74/ -3.34	7.20/ -4.29	19.28/ -3.56	9.15/ -4.54	33.22/-13.37
STRAFFORD	2.01/ -0.95	3.52/ -0.65	4.87/ -3.21	7.27/ -4.19	19.81/ -3.21	9.19/ -4.43	35.62/-11.62
SULLIVAN	2.37/ -0.19	3.79/ 0.20	4.78/ -2.16	7.33/ -2.74	18.08/ -2.57	9.14/ -3.01	36.77/ -8.64

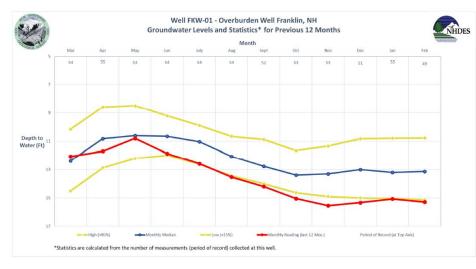


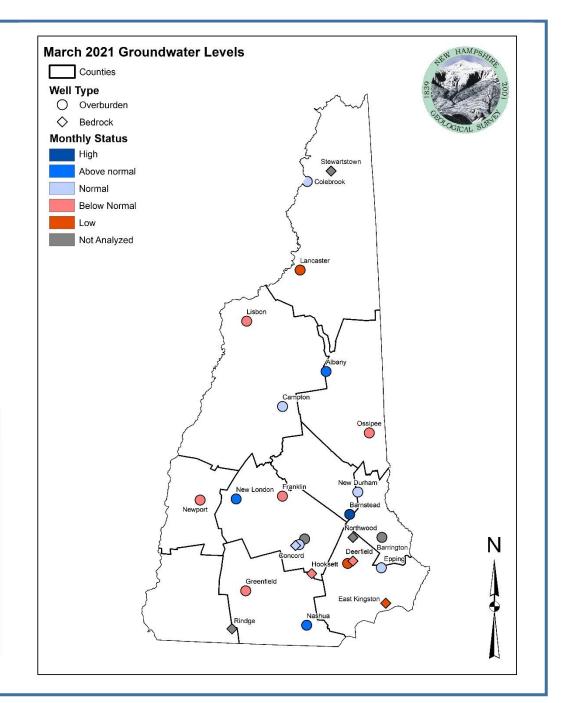
Drought: Groundwater

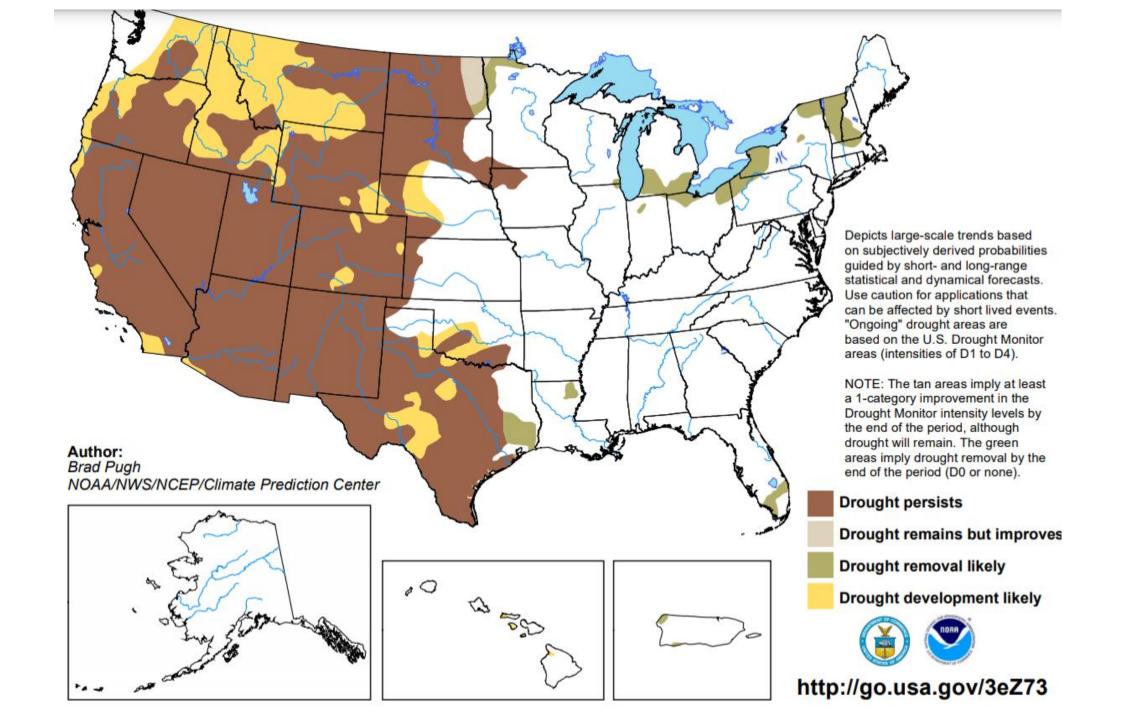


Key Points

- Levels in steady decline northern and western New Hampshire
- Mixed trends in Merrimack Valley and Seacoast regions
- Rises in groundwater where they occurred a result of recent rain and snowmelt
- March 2021 statewide average groundwater level is 0.73 feet lower than March 2020



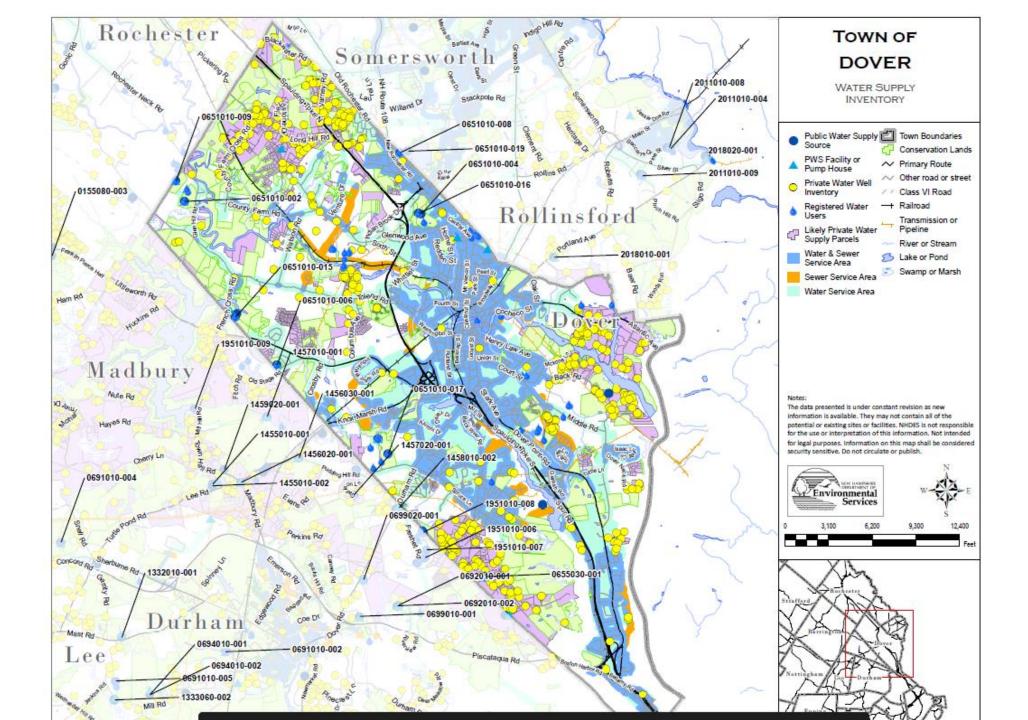


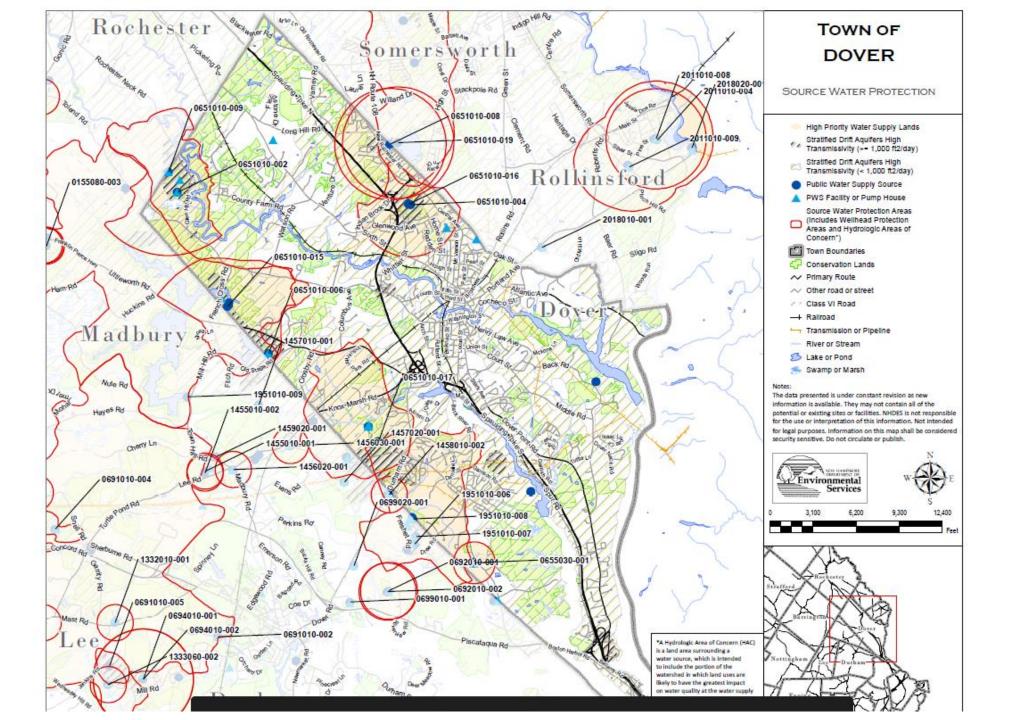


Summary of Water Supply Information Dover, New Hampshire

Brandon Kernen, PG
New Hampshire Department of Environmental Services







	Source Water Protection for the Town of DOVER, NH Total Town Acreage = 18592.05								
GIS LAYER	TOTAL AC.	DEVELOPED AC.	CONSERVED AC.	PROTECTION ZONING AC.	TOTAL PROTECTED AC.*	UNPROTECTED UNDEVELOPED AC.**			
WELLHEAD PROTECTION AREAS (WHPA)	4509	1597	930	4404	4406	88			
HYDROLOGIC AREAS OF CONCERN (HAC)	889	180	307	821	832	51			
HIGH YIELD STRATIFIED DRIFT AQUIFERS (HYSDA)	758	330	232	625	637	49			
HIGH PRIORITY WATER SUPPLY LANDS (WHPA + HAC + HYSDA)	4710	1680	953	4404	4429	187			

^{* &}quot;Conserved Ac" and "Protection Zoning Ac" are overlapping and cannot be added together to equal "Total Protected Ac."

^{** &}quot;Unprotected, undeveloped" areas include lands not protected by conservation or local zoning and are not developed according to 2016 land use GIS

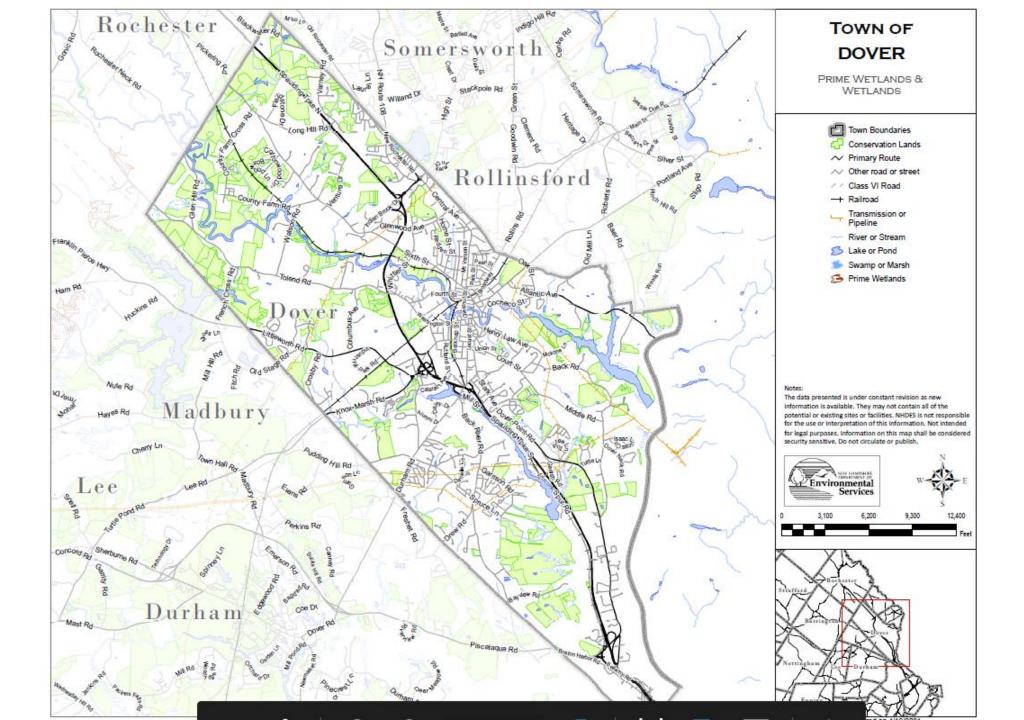
Land Conservation, Best Management Practice Inspections and Educational Mailings by WHPA								
SYSTEM NAME	PWS ID	ADDRESS	WHPA DELINEATION AC.	CONSERVED AC.	CONSERVED %	BMPS INSPECTIONS*	PUBLIC EDUCATIONAL MAILINGS**	
DOVER WATER DEPT	0651010-17	RIVER ST	1285.28	138.79	10.8	Υ	Υ	
DOVER WATER DEPT	0651010-19	RIVER ST	1153.5	130.55	11.32	Υ	Υ	
DOVER WATER DEPT	0651010-2, 9	RIVER ST	1297.95	387.64	29.87	N	N	
DOVER WATER DEPT	0651010-4, 16	RIVER ST	711.96	74.17	10.42	Υ	Υ	
DOVER WATER DEPT	0651010-6, 15	RIVER ST	1157.57	360.7	31.16	N	N	
DOVER WATER DEPT	0651010-8	RIVER ST	1153.5	123.53	10.71	Υ	Υ	
MISS PATTYS CHILDCARE	0655030-1	49 PISCATAQUA RD	162.21	25.85	15.94	N	Y	
LITTLE TREE ED CENTER	1458010-2	316 RTE 108	121.84	3.45	2.84	N	Υ	
PORTSMOUTH WATER WORKS	1951010-6, 7, 8	60 FRESHET RD	1531.74	129.32	8.44	N	N	

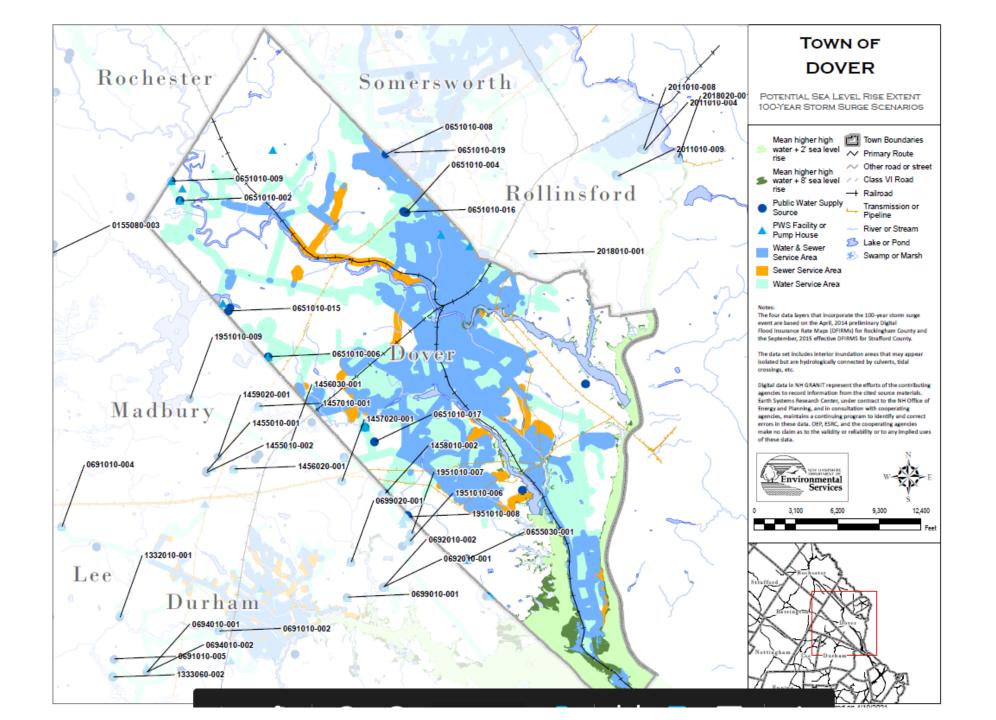
^{*} BMP inspections are conducted by a local entity to ensure compliance with Env-Wq 401, BMPs for Groundwater Protection.

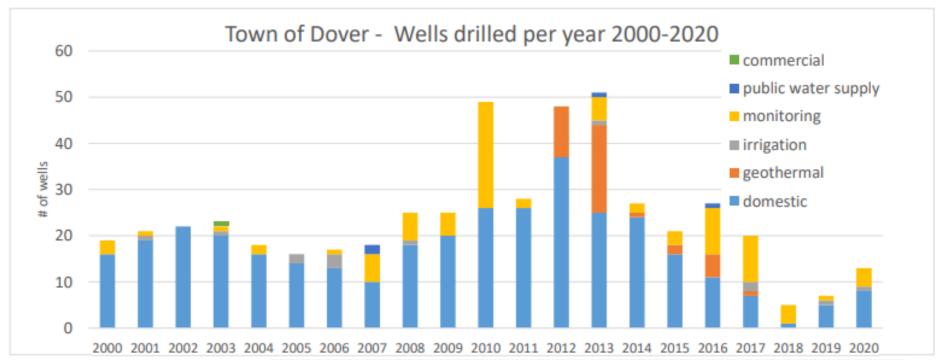
^{**} Public educational mailings are sent to residents and/or potential contamination sources (PCSs).

Summary of Protection in DOVER Zoning						
Zoning Ordinance Name	ame Groundwater Protection 170-28.3					
District Boundary	Wellhead Protect	ellhead Protection Areas				
Zoning Provisions	Yes/No	Type of Provision				
	Yes	Refers to NHDES Best Management Practices for Groundwater Protection (Env-Wq 401)				
	No	Prohibits Underground Storage Tanks (USTs) holding a regulated substance (defined under Env-Wq 401)				
	Yes	Prohibits most high-risk land uses recommended by NHDES				
		Requires blasting follow NHDES BMPs				
	Yes	Limits impervious surface for development proposals				

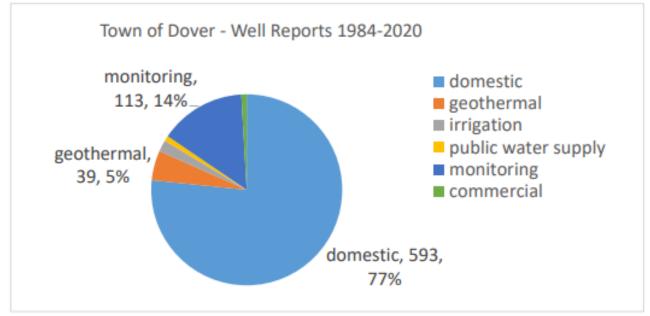
^{*} Additional zoning restrictions may apply but may not be listed.

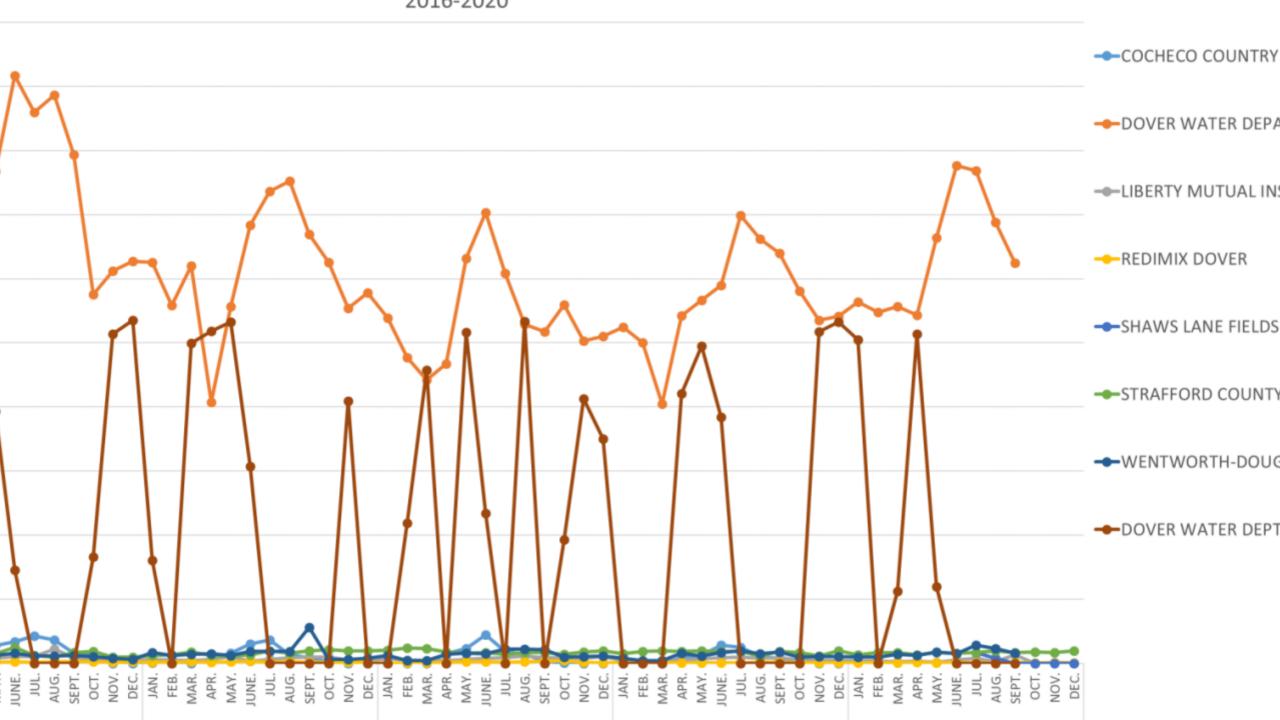




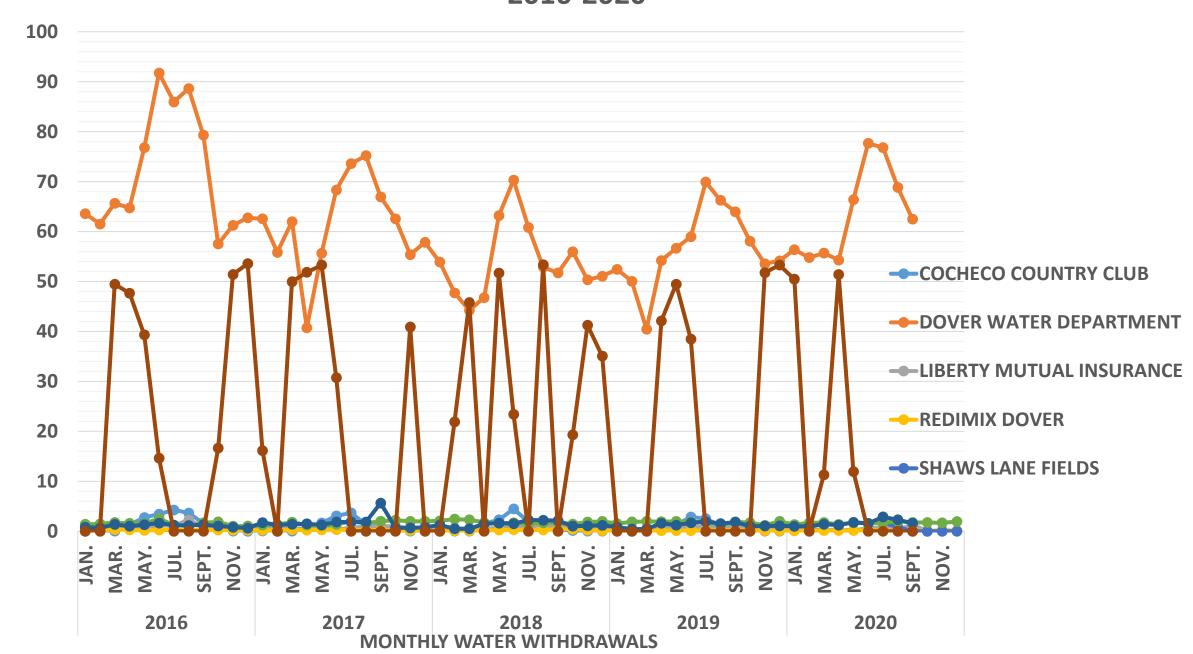


Well Type	Count
domestic	593
geothermal	39
irrigation	15
public water supply	7
monitoring	113
commercial	7
Grand Total	774





Dover Water Usage: Industrial, Commercial, Institutional & Dover Water Department 2016-2020



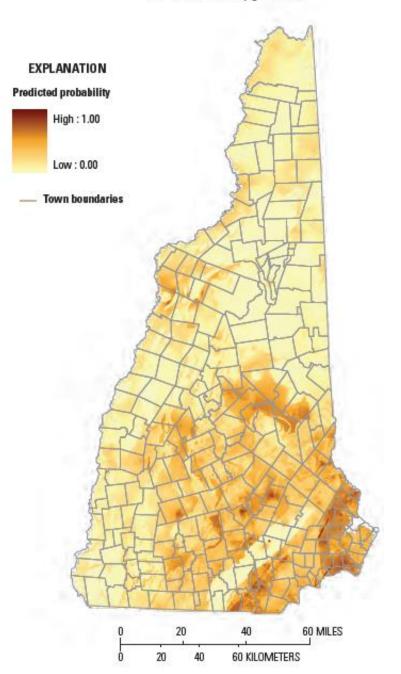
Health Limit > 0.005 mg/L	Wells Tested (n)	Percent Exceeded by	Percent Exceeded by	Percent
> 0.005 mg/L				Exceeded by
> 0.005 mg/L		<u>Town</u>	County	<u>State</u>
	22	45.5	39.8	25.2
250 mg/L	25	4	2.55	2.76
> 1.3 mg/L	21	0	0.23	0.787
1.3 mg/L	NA	NA	10.7	11.9
4 mg/L	26	0	0	0.822
0.3 mg/L	22	18.2	15.3	16.9
0.015 mg/L	21	0	0.915	1.51
0.015 mg/L	NA	NA	7.14	12.8
0.30 mg/L	21	4.76	7.32	5.26
10 mg/L	25	0	0.666	0.431
1 mg/L	25	0	0	0.00454
2000 pCI/L	NA	NA	32.7	27.2
20 mg/L	22	59.1	43.9	33.4
30 mg/L	22	0	1.96	4.16
	1.3 mg/L 4 mg/L 0.3 mg/L 0.015 mg/L 0.015 mg/L 0.30 mg/L 10 mg/L 1 mg/L 2000 pCI/L 20 mg/L	1.3 mg/L NA 4 mg/L 26 0.3 mg/L 22 0.015 mg/L 21 0.015 mg/L NA 0.30 mg/L 21 10 mg/L 25 1 mg/L 25 2000 pCI/L NA 20 mg/L 22	1.3 mg/L NA NA 4 mg/L 26 0 0.3 mg/L 22 18.2 0.015 mg/L 21 0 0.015 mg/L NA NA 0.30 mg/L 21 4.76 10 mg/L 25 0 1 mg/L 25 0 2000 pCI/L NA NA 20 mg/L 22 59.1	1.3 mg/L NA NA 10.7 4 mg/L 26 0 0 0.3 mg/L 22 18.2 15.3 0.015 mg/L 21 0 0.915 0.015 mg/L NA NA 7.14 0.30 mg/L 21 4.76 7.32 10 mg/L 25 0 0.666 1 mg/L 25 0 0 2000 pCI/L NA NA 32.7 20 mg/L 22 59.1 43.9

Data Source: EPHT Combined NH DES/NH Public Health Laboratories Data Set. Public water systems and community wells excluded.

Years = 2006 to August of 2020. Analysis is preliminary and subject to change.

NA = Number of Tests < 20

B. Arsenic ≥ 5 μg/L model





Elevated Radon in Homes Across NH (1988-2011; n=25,476)

