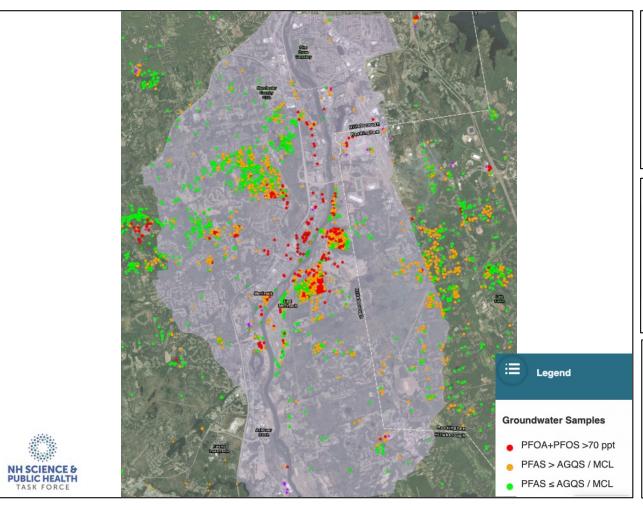


Teflon Town: ChemFab's toxic legacy



File photo/Bennington Banner

Saint Gobain Performance Plastics moved from Bennington, VT to Merrimack, NH in 2002.



ENVIRONMENT & SCIENCE

NH Expands Area for PFOA Private Well Testing

By NHDES news release April 13, 2016

PFOA crisis ongoing

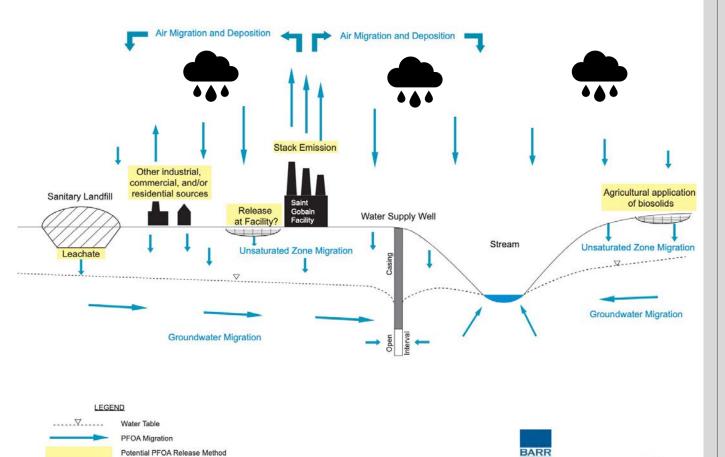
Merrimack residents await resolution of Saint-Gobain water contamination

By Ken Liebeskind - Correspondent | Mar 18, 2018

26 wells in Merrimack, Litchfield found to contain

State officials have released updated results of well water tests in Merrimack and Litchfield.

Conceptual Model

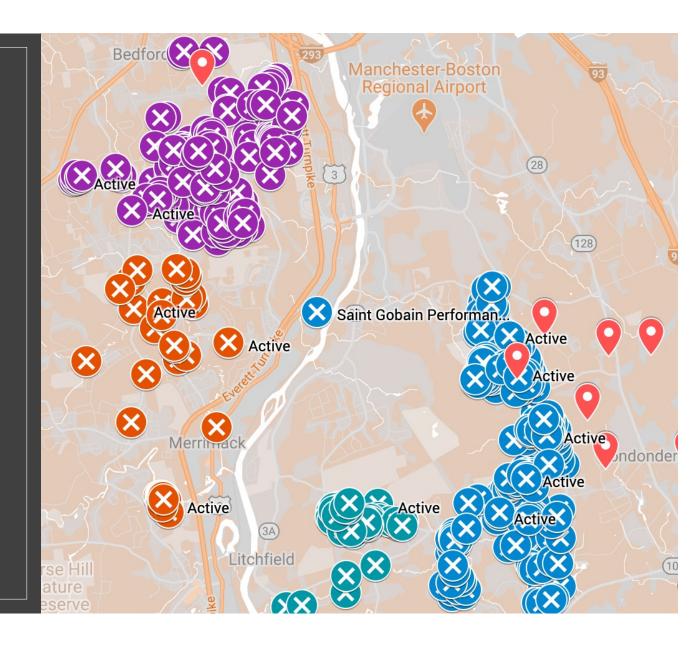




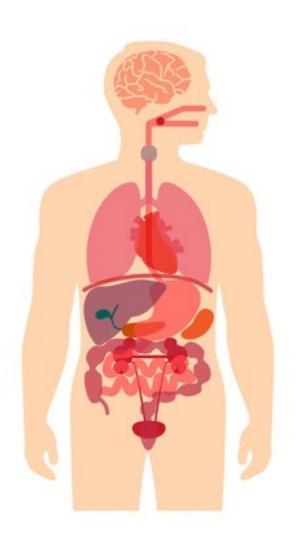
AIR EMISSIONS
CONTAMINATE
GROUNDWATER/
DRINKING WATER
FOR DECADES IN
SOUTHERN NH



48 IN MERRIMACK 278 IN LONDONDERRY 44 IN LITCHFIELD 207 IN BEDFORD







What Are the Health Risks of PFAS?

• Humans

- Elevated cholesterol
- Thyroid disease
- Cancer (prostate, testicular, kidney, breast)
- Pregnancy-induced hypertension
- Ulcerative colitis
- Decreased fertility
- Immune system/Reduced vaccine efficacy
- Hormone system disruption
- Liver enzyme disruption
- Decreased birth weight

Probable link –

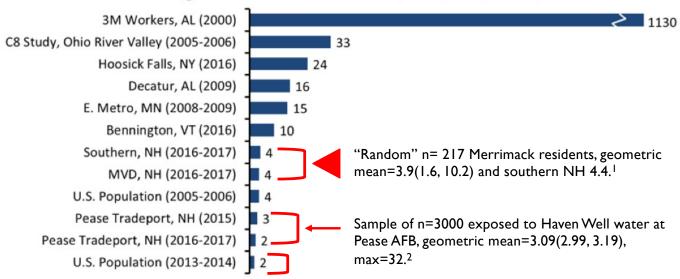
C8 Science Panel

Grandjean, et al.

ATSR "may cause"



Average PFOA Levels in Blood (Micrograms per Liter)



PFOA SERUM
LEVELS IN
MERRIMACK ARE
TWICE THE
NATIONAL
AVERAGE

- I- Source: NHDHHS, 2017. Merrimack Village District Community Exposure Assessment Summary Report.
- 2- Source: NHDHHS, 2016. Pease PFC Blood Testing Program: April 2015-October 2015.



Cancer Incidence Report Merrimack, NH

Prepared by:

New Hampshire Department of Health and Human Services, Division of Public Health Services

January 2018

Report concluded "none of the cancers in Merrimack, NH [when compared with state incidence rates] were significantly higher than expected."

Results

All Cancer Types - Overview of Findings

We compared the observed to the expected numbers of cancer cases for 24 types of cancer for males and 26 types of cancer for females. For cancers affecting both sexes, the observed and expected number of cancer cases were compared for both males and females combined. Table 2 summarizes the results of the cancer analysis, showing that none of the cancers in Merrimack, NH occurred in significantly higher numbers than would be expected.



COMPARISON OF MERRIMACK CANCER RATES TO STATE RATES



Environmental Health

Home About Articles Submission Guidelines

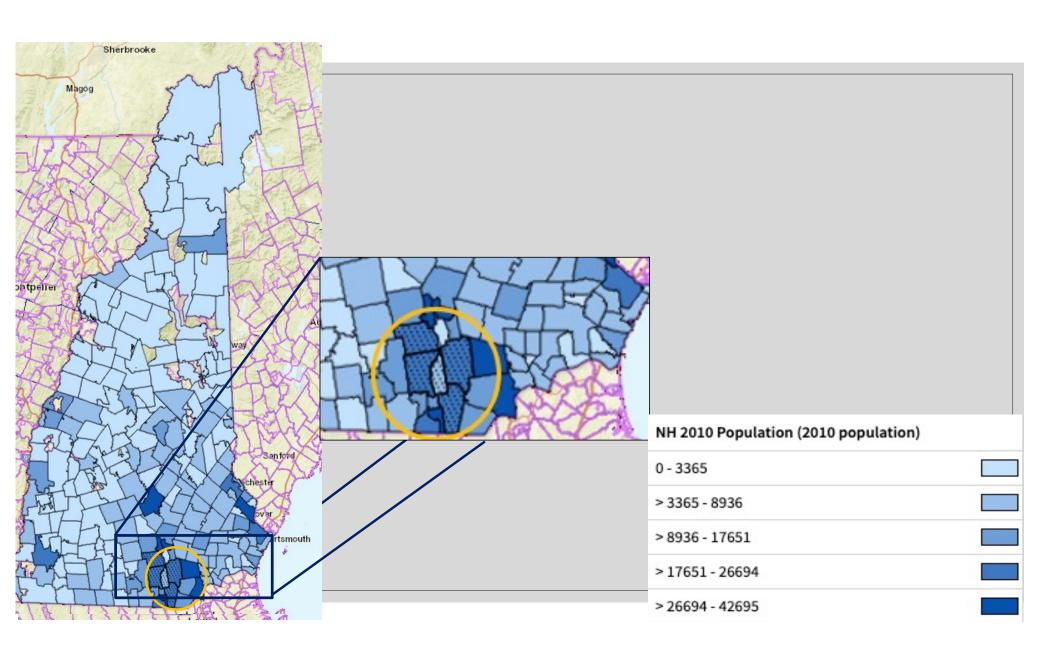
Research | Open Access | Published: 30 August 2019

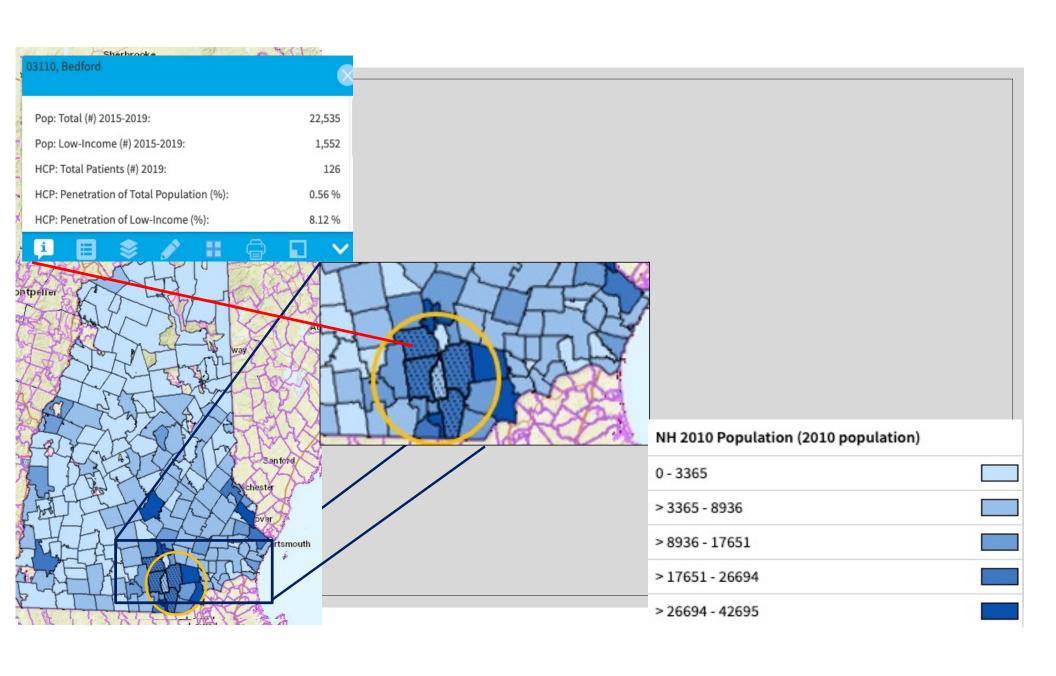
Making the invisible visible: results of a communityled health survey following PFAS contamination of drinking water in Merrimack, New Hampshire

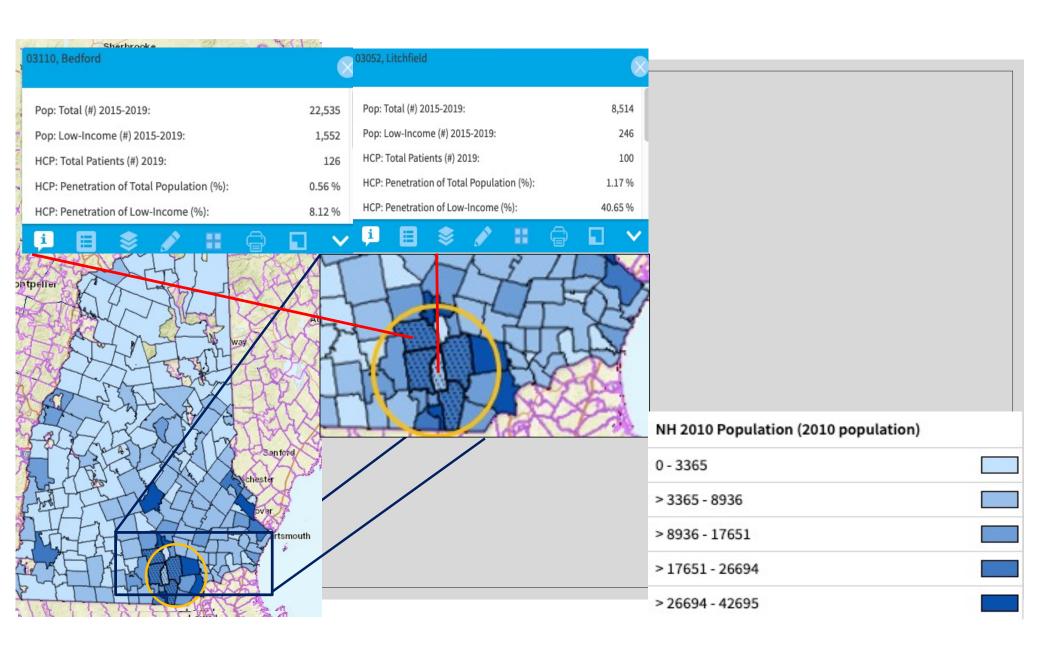
Found elevated levels of autoimmune, kidney, cardiovascular, respiratory, liver and reproductive disorders in Merrimack citizens.

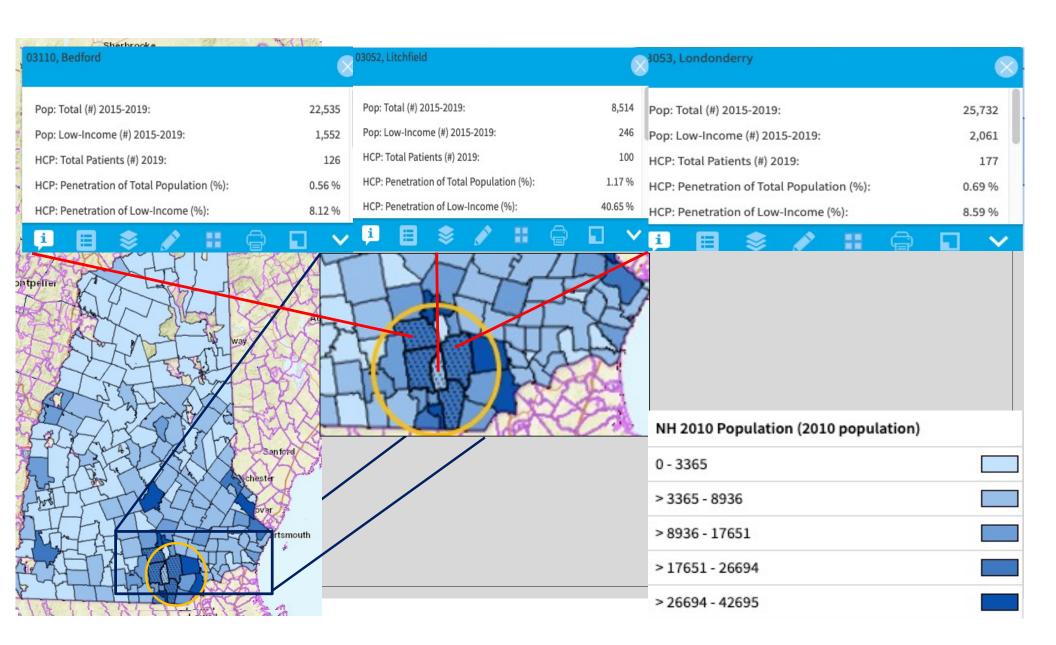
COMMUNITY-LED HEALTH STUDY

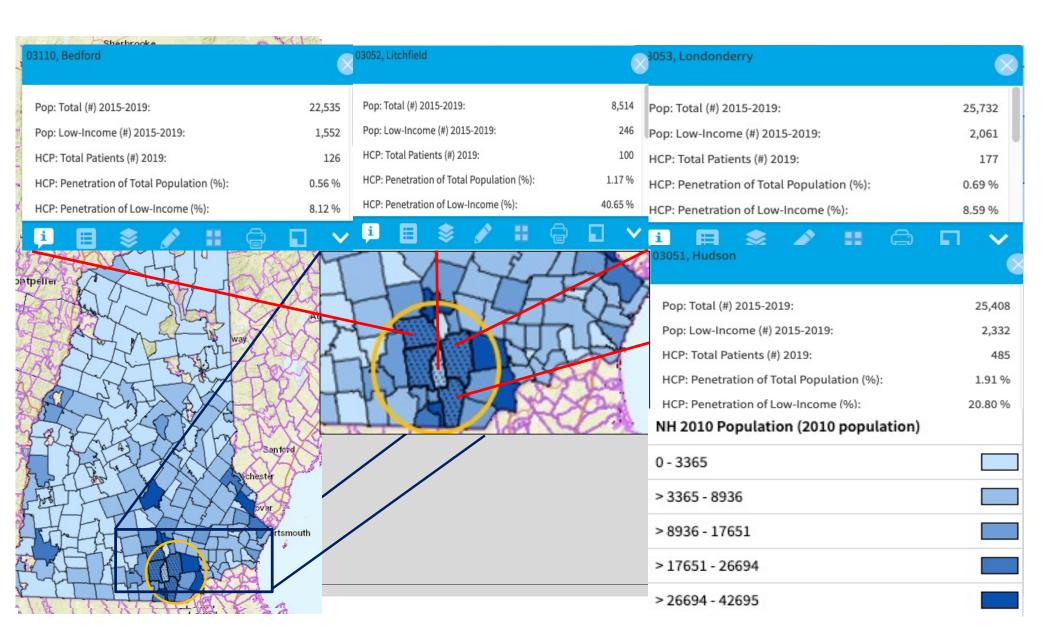


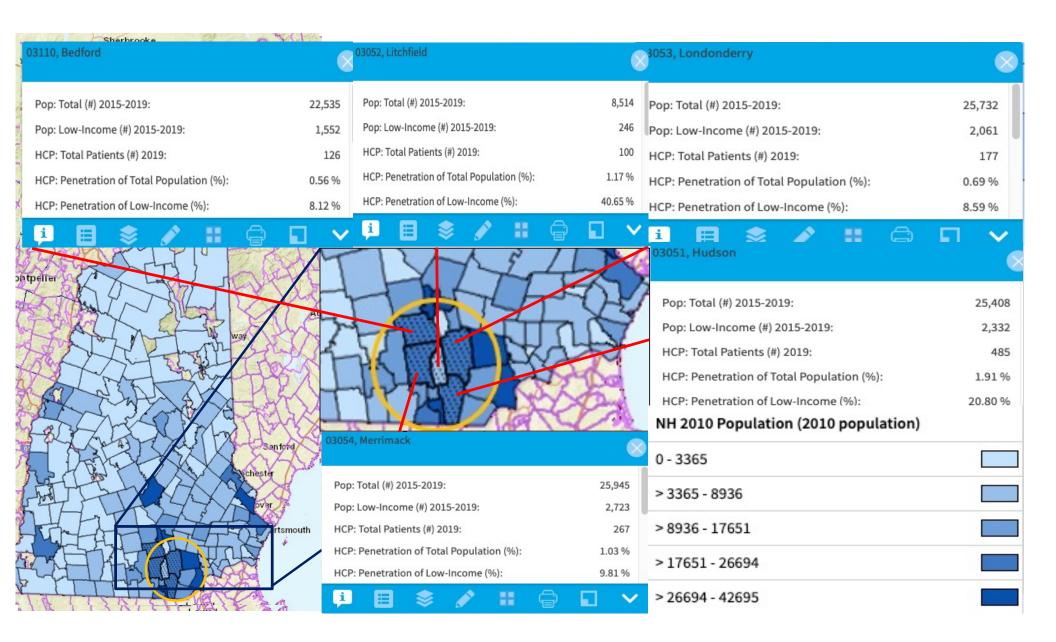








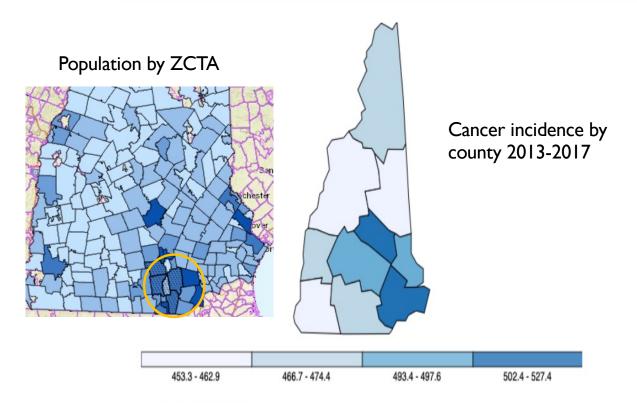






Rate of New Cancers in New Hampshire

All Types of Cancer, All Ages, All Races/Ethnicities, Male and Female, 2013-2017



Rate per 100,000 people

Data source - U.S. Cancer Statistics Working Group. U.S. Cancer Statistics Data Visualizations Tool, based on November 2019 submission data (1999-2017): U.S. Department of Health and Human Services, Centers for Disk

NH SCIENCE &
PUBLIC PORCE

TASK FORCE

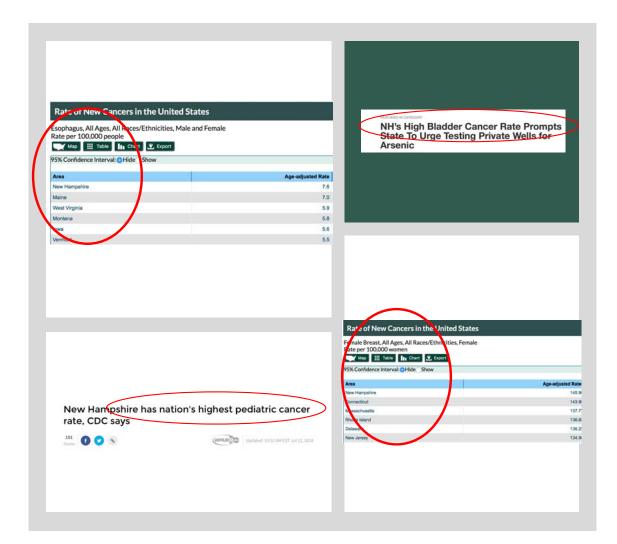
TASK FORCE

TASK FORCE

TASK FORCE Control and Prevention and National Cancer Institute; https://www.cdc.gov/cancer/dataviz, June 2020.

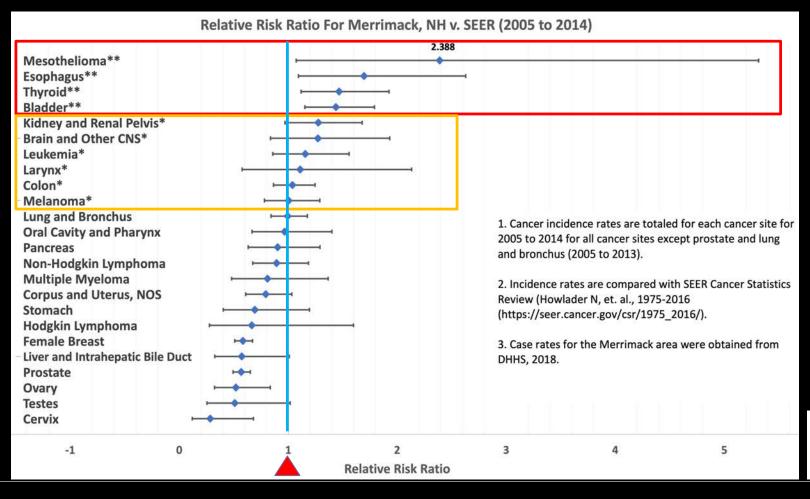


CONCERNS ABOUT STATE COMPARATOR -**CANCER RATES IN** DENSE **POPULATION AREAS**



NH has the highest rates of some cancers in the nation.

RISK RATIOS: MERRIMACK V. NCI SEER



PUBLIC HEALTH

	9	South Portland,		
Merrimack v. Maine Town Comparator Demographics	Merrimack, NH	ME	Auburn, ME	Sanford, ME
Population, Census, April 1, 2010	25,494	25,002	23,055	20,798
Population per square mile, 2010	783.7	2,086.10	388.6	NA
Age				
Persons under 18 years, percent	21.60%	17.90%	21.30%	22.40%
Persons 65 years and over, percent	15.10%	16.70%	18.30%	16.90%
Gender				
Female persons, percent	49.40%	52.10%	52.00%	53.00%
Race, Ethnicity				
White alone, percent	92.30%	89.80%	91.00%	93.20%
Black or African American alone, percent	1.00%	4.30%	1.30%	1.00%
Asian alone, percent	2.00%	1.60%	1.20%	2.50%
Hispanic or Latino, percent	3.70%	2.80%	2.00%	1.80%
Economic/Health Factors				
Persons without health insurance, under age 65 years, percent	4.00%	7.30%	8.80%	8.40%
Median household income (in 2019 dollars), 2015-2019	\$107,232	\$69,290	\$49,719	\$52,513
Persons in poverty, percent	3.90%	8.80%	11.30%	13.90%
Owner-occupied housing unit rate, 2015-2019	86.80%	63.40%	55.90%	59.20%
Median value of owner-occupied housing units, 2015-2019	\$283,200	\$257,200	\$165,200	\$183,800
Living in same house 1 year ago, percent of persons age 1 year+, 2015-				
<mark>2019</mark>	91.20%	86.50%	82.50%	83.40%
Education				
High school graduate or higher, percent of persons age 25 years+, 2015-2019	96.50%	96.00%	90.90%	91.80%
Bachelor's degree or higher, percent of persons age 25 years+, 2015-2019	46.60%	45.70%	28.50%	19.40%

Merrimack v. Vermont Town Comparator Demographics	Merrimack, NH	Colchester, VT	Bennington, VT
Population, Census, April 1, 2010	25,494	17,067	15,764
Population per square mile, 2010	783.7	469.9	373.1
Age			
Persons under 18 years, percent	21.60%	17.40%	16.30%
Persons 65 years and over, percent	15.10%	13.00%	21.50%
Gender			
Female persons, percent	49.40%	51.00%	52.90%
Race, Ethnicity			
White alone, percent	92.30%	93.10%	93.80%
Black or African American alone, percent	1.00%	2.90%	1.20%
Asian alone, percent	2.00%	1.90%	0.90%
Hispanic or Latino, percent	3.70%	2.80%	3.20%
Economic/Health Factors			
Persons without health insurance, under age 65 years, percent	4.00%	2.80%	6.60%
Median household income (in 2019 dollars), 2015-2019	\$107,232	\$71,090	\$50,892
Persons in poverty, percent	3.90%	10.90%	15.00%
Owner-occupied housing unit rate, 2015-2019	86.80%	68.70%	61.50%
Median value of owner-occupied housing units, 2015-2019	\$283,200	\$265,000	\$164,600
Living in same house 1 year ago, percent of persons age 1 year+, 2015-2019	91.20%	80.70%	87.00%
Education			
High school graduate or higher, percent of persons age 25 years+, 2015-			
2019	96.50%	94.50%	90.30%
Bachelor's degree or higher, percent of persons age 25 years+, 2015-2019	46.60%	43.10%	31.80%

Water District	PFAS in Drinking Water
Merrimack, NH ^{1*}	140 parts per trillion (ppt)
Comparator Towns with no known PFOA	
Portland, ME Water District ²	PFOA 2 ppt
Auburn, ME Water District ²	PFOA Not detected (ND)
Sanford, ME Water District ²	PFOA ND
Colchester, VT ⁴	PFAS ND
Comparator Town with known PFOA	
Bennington VT ³	40 to 2880 ppt PFOA

^{*} Data listed for Merrimack Valley Water District (MVD) well MW-4 which along with MW-5 were shut down in 2016 due to PFOA contamination..

- I- Merrimack data from: https://www4.des.state.nh.us/IISProxy.dll?ContentId=4649008.
- 2- Maine data retrieved from Maine DEP GIS: https://maine.maps.arcgis.com/apps/webappviewer/index.html?id=815b4093464c405daf7a17e43a1d9da7









Marrimack v Varmant Town Comparator Domographics	Merrimack, NH	Colchester, VT	EXPOSED PFAS Bennington, VT
Merrimack v. Vermont Town Comparator Demographics		,	
Population, Census, April 1, 2010	25,494 783.7	17,067	15,764
Population per square mile, 2010	/83./	469.9	373.1
Age	24.522/	1= 100/	4.0.004
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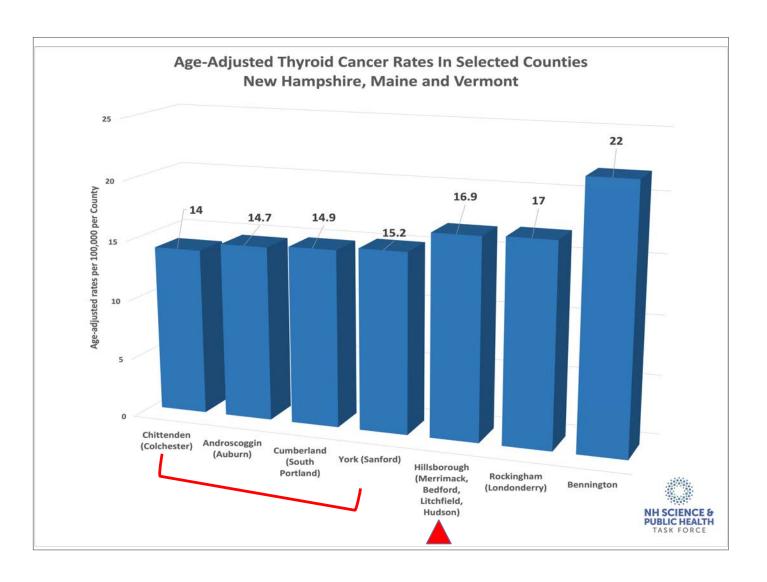
R	Merrimack v. SEER	Merrimack v. Sanford	Merrimack v. Auburn	Merrimack v. South Portland	Merrimack v Colchester	Merrimack v.
E	Mesothelioma **	Testes ⁺	Melanoma ⁺	Mesothelioma ⁺	Colon**	Bennington None
L A	Esophagus **	Thyroid**	Kidney and Renal Pelvis ⁺	Thyroid**	Prostate**	None
T	Thyroid **	Cervix ⁺	Mesothelioma ⁺	Prostate**	Bladder ⁺	
'	i llyrold	Prostate ⁺	Brain and Other CNS+	Colon ⁺	L I D	
	Bladder **	Colon**	Thyroid ⁺	Kidney and Renal	Lung and Bronchus ⁺	
V	IZ: 1		·	Pelvis ⁺	Female Breast ⁺	
E	Kidney and Renal Pelvis ⁺	Female Breast**	Corpus and Uterus ⁺		No VT Data for Kidney, Thyroid an	
		Esophagus ⁺	Prostate ⁺		Esophag	us
R	Brain and other CNS ⁺	Melanoma ⁺	Esophagus ⁺		Legend	
	Leukemia ⁺	Multiple Myeloma ⁺	Oral Cavity and Pharynx ⁺		I. Relative risk for eacomparator town	(purple shading)
S		Brain and Other CNS+	Testes ⁺		arranged by decrear	•
K	Larynx ⁺	Non-Hodgkin Lymphoma+			2. ** Statistically signing relative risk.	
$ \mathbf{u} $	Colon ⁺	Corpus and Uterus ⁺			3. +Elevated relative	risk.
	Melanoma ⁺	Kidney and Renal Pelvis ⁺				

R	Merrimack v. SEER	Merrimack v. Sanford	Merrimack v. Auburn	Merrimack v. South Portland	Merrimack v Colchester	Merrimack v.
E	Mesothelioma **	Testes ⁺	Melanoma ⁺	Mesothelioma ⁺	Colon**	Bennington None
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T	Thyroid **	Cervix ⁺	Mesothelioma ⁺	Prostate**	Bladder ⁺	
	Thyrold	Prostate ⁺	Brain and Other CNS ⁺	Colon ⁺	Lung and Branchust	
	Bladder **	Colon**	Thyroid ⁺	Kidney and Renal	Lung and Bronchus ⁺	
V	Kida aa ah Danal		,	Pelvis ⁺	Female Breast ⁺	
E	Kidney and Renal Pelvis ⁺	Female Breast**	Corpus and Uterus ⁺		No VT Data for M	
		Esophagus+	Prostate ⁺		Kidney, Thyroid and	d Esophagus
R	Brain and other CNS ⁺	Melanoma ⁺	Esophagus ⁺		Legend	
1	Leukemia ⁺	Multiple Myeloma ⁺	Oral Cavity and Pharynx ⁺		I. Relative risk for ea comparator town	(purple shading)
S		Brain and Other CNS ⁺	Testes ⁺		arranged by decrearatio (top to botto	_
K	Larynx ⁺	Non-Hodgkin			2. ** Statistically signi	
'.`	Colon ⁺	Lymphoma ⁺			relative risk. 3. +Elevated relative	risk
		Corpus and Uterus ⁺			J. LIEVALEGI EIALIVE	ISK.
	Melanoma ⁺	Kidney and Renal Pelvis ⁺				

R	Merrimack v. SEER	Merrimack v. Sanford	Merrimack v. Auburn	Merrimack v. South Portland	Merrimack v Colchester	Merrimack v.
E	Mesothelioma **	Testes ⁺	Melanoma ⁺	Mesothelioma ⁺	Colon**	Bennington None
L	Esophagus **	Thyroid**	Kidney and Renal Pelvis ⁺	Thyroid**	Prostate**	
$ \tau $	Thyroid **	Cervix ⁺	Mesothelioma ⁺	Prostate**	Bladder ⁺	
;	i ilyroid	Prostate ⁺	Brain and Other CNS+	Colon ⁺		
	Bladder **	Colon**	Thyroid ⁺	Kidney and Renal	Lung and Bronchus ⁺	
V				Pelvis ⁺	Female Breast ⁺	
E	Kidney and Renal Pelvis ⁺	Female Breast**	Corpus and Uterus ⁺		No VT Data for M	1esothelioma,
		Esophagus ⁺	Prostate ⁺		Kidney, Thyroid and Esophagus	
R	Brain and other CNS ⁺	Melanoma ⁺	Esophagus ⁺		Legend	
'`	Leukemia ⁺	Multiple Myeloma ⁺	Oral Cavity and Pharynx ⁺		I. Relative risk for ea comparator town	(purple shading)
S		Brain and Other CNS+	Testes ⁺		arranged by decrear	•
K	Larynx ⁺	Non-Hodgkin			2. ** Statistically signi	
'`	Colon ⁺	Lymphoma ⁺			relative risk. 3. +Elevated relative	riek
	20.01	Corpus and Uterus ⁺			J. I LIEVALED I EIALIVE	1131.
↓	Melanoma ⁺	Kidney and Renal Pelvis+				

R	Merrimack v. SEER	Merrimack v. Sanford	Merrimack v. Auburn	Merrimack v. South Portland	Merrimack v Colchester	Merrimack v.
E	Mesothelioma **	Testes ⁺	Melanoma ⁺	Mesothelioma ⁺	Colon**	Bennington None
A	Esophagus **	Thyroid**	Kidney and Renal Pelvis+	Thyroid**	Prostate**	
T	Thyroid **	Cervix ⁺	Mesothelioma ⁺	Prostate**	Bladder ⁺	
	Thyrold	Prostate ⁺	Brain and Other CNS+	Colon ⁺	Lung and Duamaharat	
	Bladder **	Colon**	Thyroid ⁺	Kidney and Renal	Lung and Bronchus ⁺	
V			ŕ	Pelvis ⁺	Female Breast ⁺	
E	Kidney and Renal Pelvis ⁺	Female Breast**	Corpus and Uterus ⁺		No VT Data for Mesot	helioma, Kidney,
		Esophagus ⁺	Prostate ⁺		Thyroid and E	sophagus
R	Brain and other CNS ⁺	Melanoma ⁺	Esophagus ⁺		Legend	
i`	Leukemia ⁺	Multiple Myeloma ⁺	Oral Cavity and Pharynx ⁺		I. Relative risk for ea comparator town	(purple shading)
S		Brain and Other CNS+	Testes ⁺		arranged by decrea	•
K	Larynx ⁺	Non-Hodgkin			2. ** Statistically signi	,
	Colon ⁺	Lymphoma+			relative risk. 3. +Elevated relative	risk
		Corpus and Uterus ⁺			J Lievaced i clacive	. 1010
↓	Melanoma ⁺	Kidney and Renal Pelvis ⁺				

THYROID CANCER

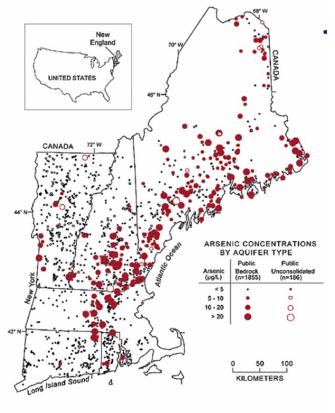


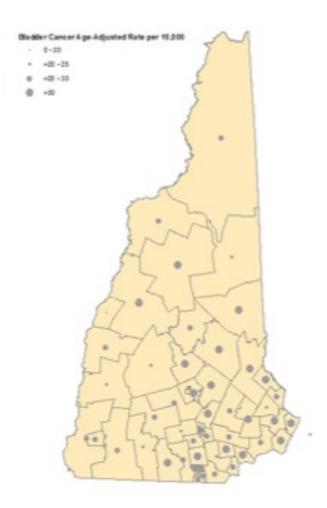
R	Merrimack v. SEER	Merrimack v. Sanford	Merrimack v. Auburn	Merrimack v. South Portland	Merrimack v Colchester	Merrimack v. Bennington
E	Mesothelioma **	Testes ⁺	Melanoma ⁺	Mesothelioma ⁺	Colon**	None
LA	Esophagus **	Thyroid**	Kidney and Renal Pelvis ⁺	Thyroid**	Prostate**	
T	Thyroid **	Cervix ⁺	Mesothelioma ⁺	Prostate**	Bladder ⁺	
	Thyroid	Prostate ⁺	Brain and Other CNS ⁺	Colon ⁺	Lung and Duanahust	
	Bladder **	Colon**	Thyroid ⁺	Kidney and Renal	Lung and Bronchus ⁺	
V			·	Pelvis ⁺	Female Breast ⁺	
E	Kidney and Renal Pelvis ⁺	Female Breast**	Corpus and Uterus ⁺		No VT Data for Meson	•
		Esophagus ⁺	Prostate ⁺		Thyroid and Es	ophagus
R	Brain and other CNS ⁺	Melanoma ⁺	Esophagus ⁺		Legend	
	Leukemia ⁺	Multiple Myeloma ⁺	Oral Cavity and Pharynx ⁺		I. Relative risk for ea	(purple shading)
S		Brain and Other CNS+	Testes ⁺		arranged by decrear	•
K	Larynx ⁺	Non-Hodgkin Lymphoma+			2. ** Statistically signing relative risk.	
	Colon ⁺	Corpus and Uterus ⁺			3. +Elevated relative	risk.
	Melanoma ⁺	Kidney and Renal Pelvis ⁺				

ARSENIC IN NEW ENGLAND GROUNDWATER

Arsenic in New England

Source: Ayotte et al. 2017. Estimating the High-Arsenic Domestic-Well Population in the Conterminous United States. Environmental Science & Technology

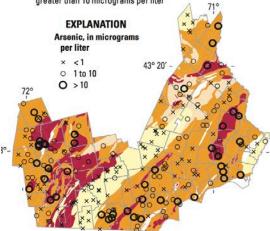




ARSENIC AND BLADDER CANCER IN NH

A. Arsenic

Percentage of wells, by grouped geologic units, with arsenic greater than 10 micrograms per liter



R	Merrimack v. SEER	Merrimack v. Sanford	Merrimack v. Auburn	Merrimack v. South Portland	Merrimack v Colchester	Merrimack v.
E	Mesothelioma **	Testes ⁺	Melanoma ⁺	Mesothelioma ⁺	Colon**	Bennington None
L	Esophagus **	Thyroid**	Kidney and Renal Pelvis ⁺	Thyroid**	Prostate**	
T	Thyroid **	Cervix ⁺	Mesothelioma ⁺	Prostate**	Bladder ⁺	
	Thyrold	Prostate ⁺	Brain and Other CNS ⁺	Colon ⁺	Lung and Branchust	
	Bladder **	Colon**	Thyroid ⁺	Kidney and Renal	Lung and Bronchus ⁺	
V	Kidaaaa d Daaal		,	Pelvis ⁺	Female Breast ⁺	
E	Kidney and Renal Pelvis ⁺	Female Breast**	Corpus and Uterus ⁺		No VT Data for M	•
		Esophagus+	Prostate ⁺		Kidney, Thyroid ar	nd Esophagus
R	Brain and other CNS ⁺	Melanoma ⁺	Esophagus ⁺		Legend	
· `	Leukemia ⁺	Multiple Myeloma ⁺	Oral Cavity and Pharynx ⁺		I. Relative risk for ea comparator town	(purple shading)
S		Brain and Other CNS+	Testes ⁺		arranged by decrearatio (top to botto	•
K	Larynx ⁺	Non-Hodgkin			2. ** Statistically signi	,
	Colon ⁺	Lymphoma ⁺			relative risk. 3. +Elevated relative	risk.
		Corpus and Uterus ⁺				
↓	Melanoma ⁺	Kidney and Renal Pelvis ⁺				

R	Merrimack v. SEER	Merrimack v. Sanford	Merrimack v. Auburn	Merrimack v. South Portland	Merrimack v Colchester	Merrimack v. Bennington
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	Bladder **	Colon**	Thyroid ⁺	Kidney and Renal Pelvis ⁺	Lung and Bronchus ⁺	
V	IZ: Lean and December		·	reivis	Female Breast ⁺	
E	Kidney and Renal Pelvis ⁺	Female Breast**	Corpus and Uterus ⁺		No VT Data for Meson	•
		Esophagus+	Prostate ⁺		Thyroid and Es	sophagus
R	Brain and other CNS ⁺	Melanoma ⁺	Esophagus ⁺		Legend	
	Leukemia ⁺	Multiple Myeloma ⁺	Oral Cavity and Pharynx ⁺		I. Relative risk for ea comparator town	(purple shading)
S		Brain and Other CNS+	Testes ⁺		arranged by decrear	_
K	Larynx ⁺	Non-Hodgkin Lymphoma ⁺			2. ** Statistically signing relative risk.	
1	Colon⁺	Corpus and Uterus ⁺			3. +Elevated relative	risk.
↓	Melanoma ⁺	Kidney and Renal Pelvis ⁺				

R	Merrimack v. SEER	Merrimack v. Sanford	Merrimack v. Auburn	Merrimack v. South Portland	Merrimack v Colchester	Merrimack v.	
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'	i llyroid · ·	Prostate ⁺	Brain and Other CNS+	Colon ⁺			
	Bladder **	Colon**	Thyroid ⁺	Kidney and Renal	Lung and Bronchus ⁺		
V				Pelvis ⁺	Female Breast ⁺		
E	Kidney and Renal Pelvis ⁺	Female Breast**	Corpus and Uterus ⁺		No VT Data for Mesot	thelioma, Kidney,	
		Esophagus ⁺	Prostate ⁺		Thyroid and Es	sophagus	
R	Brain and other CNS ⁺	Melanoma ⁺	Esophagus ⁺		Legend		
	Leukemia ⁺	Multiple Myeloma ⁺	Oral Cavity and Pharynx ⁺		I. Relative risk for ea comparator town	(purple shading)	
S		Brain and Other CNS+	Testes ⁺		arranged by decrear ratio (top to botto	•	
K	Larynx ⁺	Non-Hodgkin			2. ** Statistically signi		
	Colon+	Lymphoma ⁺			relative risk. 3. +Elevated relative	risk	
		Corpus and Uterus ⁺			J. · Licyated i clative	11310	
	Melanoma ⁺	Kidney and Renal Pelvis ⁺					

Findings

PFOA serum levels for a small set of residents in an impacted area are twice the national average.

Comparing one impacted community cancer incidence to a state average with above average rates may not tell the whole story.

Merrimack residents are more at risk for developing mesothelioma, and esophageal, bladder, and thyroid cancers when compared with national averages.

When compared with national averages, residents are at increased risk for developing colon, laryngeal, kidney and renal, brain and CNS cancers and leukemia.

Relative risks for **thyroid**, **prostate**, **kidney and renal and colon** cancers are higher when compared with three comparator towns in Maine and one in Vermont.

Relative risks were similar when comparing **Merrimack** with **Bennington,VT.**

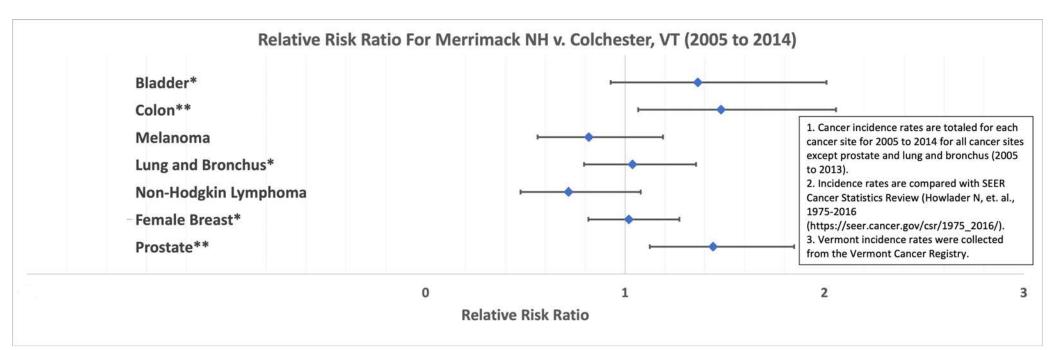
Town/State Tobacco Use¹Merrimack NH²14.80%Maine18.6%New Hampshire17.3%Vermont18.2%

1- State Data on Tobacco Prevalence: <u>Odani S, Armour BS, Graffunder CM, Willis G, Hartman AM, Agaku IT. State-Specific Prevalence of Tobacco Product Use Among Adults — United States, 2014–2015. MMWR Morb Mortal Wkly Rep 2018;67:97–102.</u>

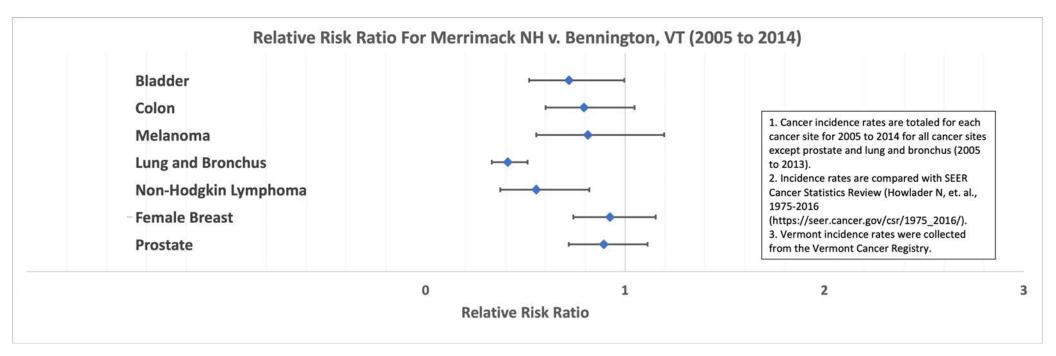
<u>2 Merrimack data from NHDHHS WISDOM Portal - https://wisdom.dhhs.nh.gov/wisdom/#CommunityProf FCCEB3C341</u> 78419782F0E98A50A8ABBF Anon

POTENTIAL CONFOUNDERS



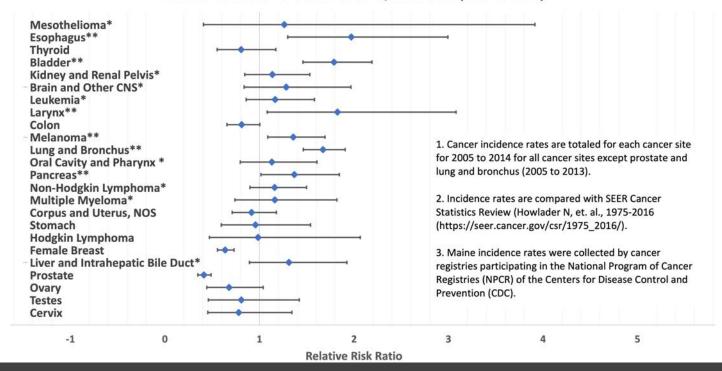


RELATIVE RISK RATIOS – COLCHESTER, VT



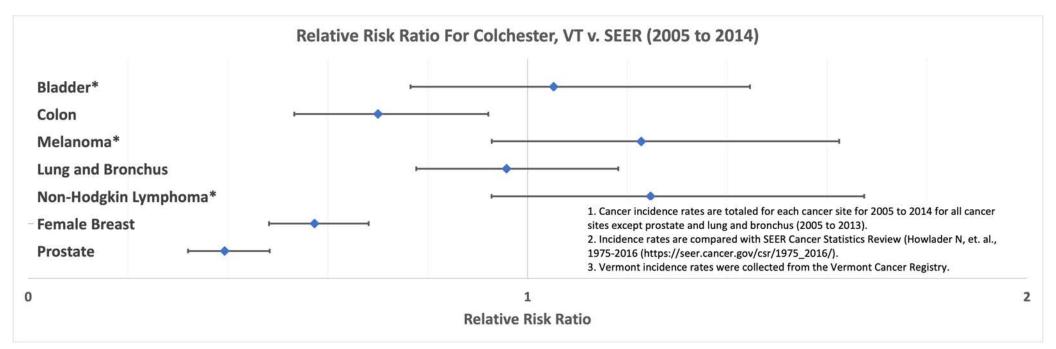
RELATIVE RISK RATIOS – BENNINGTON, VT

Relative Risk Ratio For South Portland, ME v. SEER (2005 to 2014)

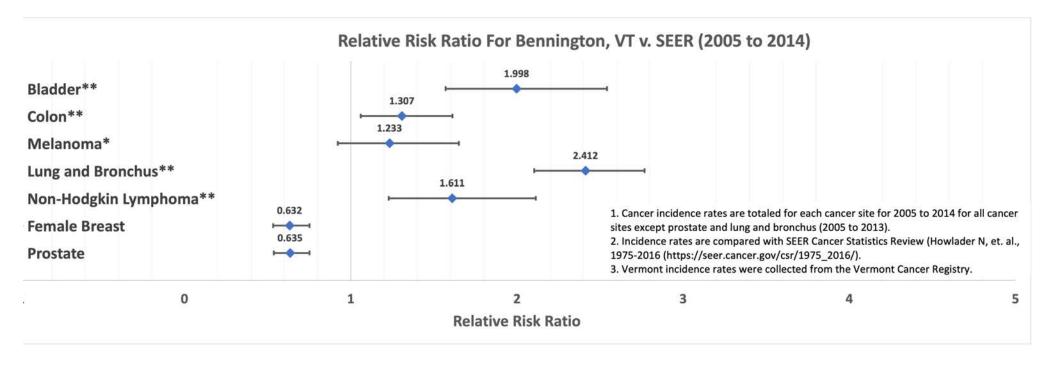


RELATIVE RISK RATIOS -SOUTH PORTLAND, ME

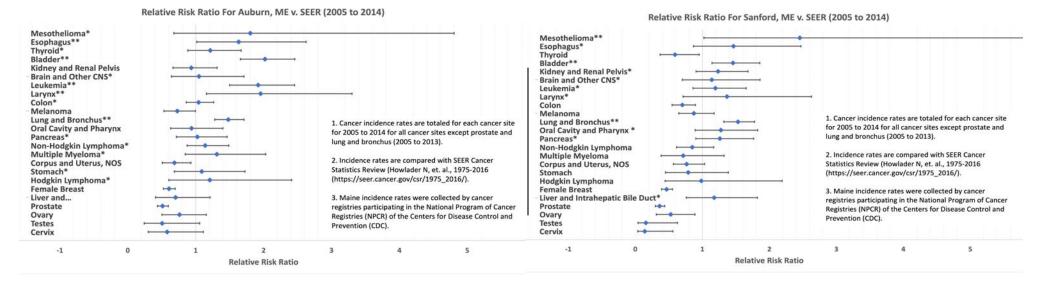




RELATIVE RISK RATIOS – COLCHESTER, VT



RELATIVE RISK RATIOS – BENNINGTON, VT



RELATIVE RISK RATIOS -AUBURN AND SANFORD, ME

