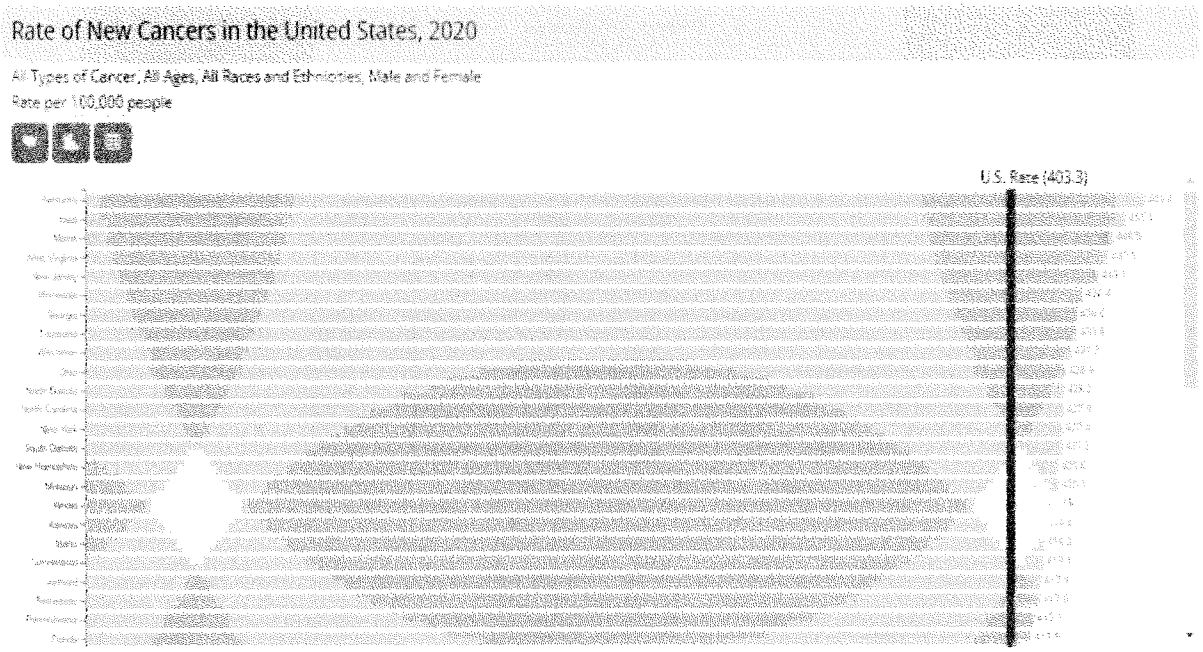
Copied from my presentation to the MBOIA in 2024 about Ventilation

Office of the State Fire Marshal Welcome to the Maine State Fire Marshal's Office website. Our intention is to provide you with a source of information about our role as a public safety organization in state government. As one of nine bureaus in the Department of Public Safety, we act as the State's primary enforcer of fire and life safety codes.

Let's look at some stats:
Residential House fire deaths About 4.5 deaths per 1000 fires
Crude rate 19.6 deaths per 1 million (Maine has 1.6 Million people)
Actual average over the last 10 years 18.2
Residential Fires kill 18.2 people per year in Maine.
Sprinkler Systems cost $10,000 - $15,000
Rates seem to be higher in the north
Maine has lower rates than the National Average - Good Job!!

"It's a serious problem," said Maine Radon Coordinator, Jonathan Dyer. He said studies show, "165 Mainers die each year, non-smokers, due to radon. Lung cancer due to radon."

Cost to install Radon Reduction System - $1500 - $2500



Kurt Johnson Sr.
President Maine Indoor Air Quality Council
Owner Fresh Air Ventilation Systems, LLC

Scientifically rigorous peer-reviewed epidemiologic studies (described in the section "The Science Behind the Risk Estimates") performed since the 1960s provided a solid scientific foundation for the U.S. Environmental Protection Agency's (EPA) 2003 risk assessment,[1] which estimates that out of a total of 157,400 lung cancer deaths nationally in 1995, 21,100 (13.4%) were radon related. More recent direct estimates of the risk posed by radon, obtained from residential case-control studies performed globally, closely align with the 2003 EPA risk estimates. When compared to cancer mortality from all causes, radon-related lung cancer, if it were treated as a distinct disease category, would rank among the top 10 causes of cancer mortality and is considered a leading environmental cause of cancer mortality in the United States.[1]

Cancer Mortality 2020	
Cancer Type	Estimated U.S. Deaths in 2020[4,5]
1. Lung and Bronchus	135,720
2. Colon and Rectum	53,200
3. Pancreas	47,050
4. Breast	42,690
5. Prostate	33,330
6. Liver and Intrahepatic Bile Duct	30,160
7.Leukemia	23,100
Radon-Induced Lung Cancer	21,100*
8. Lymphoma (Combined Hodgkin & Non-Hodgkin)	20,910
9. Brain & Other Nervous System	18,020
10. Urinary Bladder	17,980
11. Esophagus	16,170
12. Kidney and Renal Pelvis	14,830
13. Ovary	13,940

* The 21,100 radon-induced lung cancer deaths, based on risk estimates using U.S. demographic information from 1995, are included in the estimate of lung and bronchus cancer deaths.

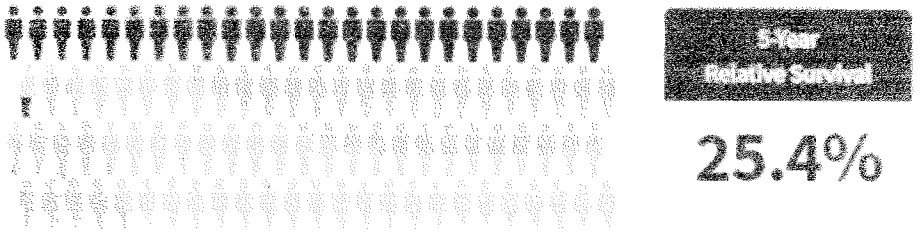
Mortality: Top 10 Cancers, Maine 2020

Red Rate = ME is significantly higher than U.S.

Cancer Type	Maine (all sexes)				U.S.		
	Count	AA Rate	AA Lower 95% CL	AA Upper 95% CL	AA Rate	AA Lower 95% CL	AA Upper 95% CL
All Sites	3,433	161.3	155.8	167.1	**144.1**	143.8	144.5
Lung and Bronchus	896	41.1	38.4	44.0	**31.8**	31.7	32.0
Colon and Rectum	280	**13.6**	12.0	15.4	**13.1**	12.9	13.2
Pancreas	247	**11.4**	10.0	13.1	**11.1**	11.0	11.2
Female Breast	196	**17.5**	15.0	20.4	**19.1**	18.9	19.3
Prostate	171	**19.1**	16.3	22.4	**18.5**	18.3	18.7
Urinary Bladder	123	5.7	4.7	6.9	**4.0**	3.9	4.0
Leukemia	119	**5.9**	4.9	7.2	**5.8**	5.7	5.9
Esophagus	110	5.0	4.1	6.2	**3.7**	3.6	3.7
Brain and Other Nervous System	109	**5.4**	4.4	6.6	**4.5**	4.4	4.5
Non-Hodgkin Lymphoma	106	**5.1**	4.2	6.3	**4.9**	4.8	4.9

How Many People Survive 5 Years Or More after Being Diagnosed with Lung and Bronchus Cancer?

Relative survival is an estimate of the percentage of patients who would be expected to survive the effects of their cancer. It excludes the risk of dying from other causes. Because survival statistics are based on large groups of people, they cannot be used to predict exactly what will happen to an individual patient. No two patients are entirely alike, and treatment and responses to treatment can vary greatly.



Based on data from SEER 22 (Excluding IL/MA) 2013-2019. Gray figures represent those who have died from lung and bronchus cancer. Green figures represent those who have survived 5 years or more.

About 80% are diagnosed Late - 50% of those DIE 1st yr.