

# MAINE ANNUAL CANCER REPORT 2014



**2011 Cancer Incidence**  
**2011 Cancer Mortality**



## **Maine CDC Cancer Registry**

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## INTRODUCTION

The Maine CDC Cancer Registry collects information on all cancer cases diagnosed in Maine according to State Law Title 22, Chapter 255. The 2014 annual report is based on 2011 cancer incidence and 2011 cancer mortality data, the latest years for which data were available at the time of the analysis. The report provides information on the most frequently diagnosed cancer types in Maine.

The purpose of this report is to summarize data on newly diagnosed cases of cancer (incidence) and

deaths associated with cancer (mortality) among Maine residents. Data are presented at the county and public health district levels for all cancer types combined, the top four cancers in Maine (namely: female breast, prostate, lung, and colorectal cancers), and tobacco-related cancers combined (excluding lung cancer).

The information contained in this report may be used in conjunction with other data sources to determine cancer burden and to guide programs and policies targeted at reducing the impact of cancer.

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## SUMMARY OF FEATURES

The following are features added to this report in recent years:

- charts describing the trends in the incidence and mortality due to the top four cancers (namely: female breast, prostate, lung, and colorectal cancers), and tobacco-related cancers combined (excluding lung cancer) in Maine (see pages 22-23, 36-37);
- county-level and public health district-level maps of incidence and mortality rates for all cancer types combined (see pages 24-25, 39-40);
- data for 'tobacco-related cancers', 'obesity-related cancers', and 'HPV-related cancers';
- age-specific incidence data are presented for the top four cancer sites in Maine; and
- data for malignant and non-malignant incident cases of brain and other nervous system tumors.

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## CASE DEFINITIONS

### *Incidence Case Definitions:*

Incidence data are based on SEER site recode ICD-O-3/WHO 2008 definitions, version 2008. Histologies consistent with Kaposi sarcoma and mesothelioma are excluded (where applicable). Case definitions for single cancers and 'all sites' are included in Appendix 1 and also found at [http://www.seer.cancer.gov/siterecode/icdo3\\_dwhoheme/index.html](http://www.seer.cancer.gov/siterecode/icdo3_dwhoheme/index.html). Case definitions for cancer groupings used in this report (HPV-associated, obesity-related, tobacco-related) are included in Appendix 2.

### *Mortality Case Definitions:*

Death data are based on ICD-10 codes for underlying cause of death are included in Appendix 3.

## TECHNICAL NOTES

### **Tobacco-related Cancers:**

Tobacco-related cancers excluding lung cancer are included in this report due to their increasing clinical and epidemiologic significance. According to a 2008 MMWR surveillance summary (Surveillance for Cancers Associated with Tobacco Use — United States, 1999–2004), tobacco-related cancers are those that are defined by the U.S. Surgeon General as having direct causal relationships to tobacco use. The list of tobacco-related cancers was expanded in 2004 to include the following: lung, laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical cancers, and acute myeloid leukemia.

### **Obesity-related Cancers:**

According to the 2007 expert report published by the World Cancer Research Fund and American Institute of Cancer Research, there is convincing evidence that greater body fat is a cause of adenocarcinoma of the esophagus, as well as cancers of the pancreas, colon, kidney, endometrium, and breast (postmenopausal). Due to the prevalence of obesity in Maine, this group of cancers is included in the annual cancer report again this year.

### **HPV-related Cancers:**

New to the Annual Cancer Report this year is a separate set of three tables (p. 20) presenting cancers that are associated with Human Papillomavirus (HPV) infection. There is variability in the degree of association: for example, nearly 100% of cervical cancers, 90% of anal cancers, and 35% of oropharyngeal cancers are associated with HPV. The proportion of HPV association for oral and oropharyngeal cancer sites is increasing. HPV infection is overtaking tobacco and alcohol in the causation of these cancers. Appendix Two (p. 45) lists HPV-related cancer sites and histologies used in this report.

### **Data Sources:**

Maine incidence data are obtained from the Maine CDC Cancer Registry. Mortality data for both Maine and the U.S. is provided by the National Center for Health Statistics. Estimates of national incidence data are used for comparisons and are derived from the Surveillance, Epidemiology and End Results (SEER) Program of the National Cancer Institute. The SEER dataset used in this report (SEER 18) represents about 27.8% of the U.S. population.

### **Data Analysis:**

Counts and rates presented in this report were produced using the following software: Surveillance Research Program, National Cancer Institute, SEER\*Stat 8.1.5. ([seer.cancer.gov/seerstat](http://seer.cancer.gov/seerstat))


### **National Comparisons:**

SEER incidence rates and national mortality rates for both whites and all races have been provided to allow an option for comparison by the reader. However due to the predominantly white population in Maine, all statistical comparisons in this report involving national estimates are based on rates for whites. These estimates appear under the headings 'SEER Whites' and 'SEER All races'.

### **Rates:**

Incidence and mortality rates are calculated per 100,000 population and are age-adjusted to the year 2000 U.S. standard population.

### **Confidence Intervals and Statistical Significance:**

Ninety-five percent confidence intervals are provided for all rates. If the 95% confidence intervals for two rates overlapped, the incidence rates were considered similar. If the confidence intervals did not overlap, we considered these rates to be significantly different. Maine rates that are higher than nationally comparable rates or county/district rates that are higher than State (Maine) rates are highlighted in orange .

**Maine Public Health Districts:**

In 2007, the Maine Center for Disease Control and Prevention created eight public health districts, each district made up of one or more counties. Cancer rates have been calculated for districts in addition to counties. The table below shows the constituent counties of each district.

Public Health District	Constituent Counties
1. Aroostook District	Aroostook County
2. Central District	Kennebec County, Somerset County
3. Cumberland District	Cumberland County
4. Downeast District	Hancock County, Washington County
5. Midcoast District	Lincoln County, Knox County, Sagadahoc County, Waldo County
6. Penquis District	Penobscot County, Piscataquis County
7. Western District	Androscoggin County, Franklin County, Oxford County
8. York District	York County

**Rates by County/District:**

More so than at the state level, the number of new cancer cases reported in a county or district varies from year to year, and much of this variation may be due purely to chance. As a result, cancer rates at the county or district level are more likely to vary on an annual basis than at the state level. Counties/districts with smaller populations tend to have greater variation from one time period to the next. In general, when there are less than 30 cancer cases a year in a geographic entity, it can be difficult to distinguish between normal variation and meaningful changes in cancer rates. In this report, multiple years of data are combined when producing the county or

district rates. Although combining years can make the rates more reliable, caution must still be used when interpreting county and district rates because of small populations.

**Maps:**

We have included maps to present the geographical distribution of 'All Cancer Combined' incidence and mortality rates. These maps were prepared at the county and public health district level. Maps were created using ArcGIS v.10 software; the 'quantile' method was used to categorize the rates.

**Charts:**

We have included charts describing trends in cancer incidence and mortality in Maine. The incidence charts show trends in the incidence rates of colorectal, cervical and female breast cancer from 2000 to 2011. The mortality charts show trends in mortality rates for the top four causes of cancers (lung, colorectal, female breast and prostate) and tobacco-related cancer from 1969 to 2011. Separate cancer mortality trend charts were prepared for males and females for gender-specific cancers.

# CANCER INCIDENCE



## INCIDENCE: STATE AND NATIONAL COMPARISONS

## Age-adjusted Cancer Incidence Rates by Site, Maine, 2011

	Total			
	AA Rate (95% CI)	Count	SEER Whites	SEER All races
All Sites	478.4 (467.8 - 489.1)	8,254	450.2 (448.7 - 451.8)	443.6 (442.2 - 445.0)
Lung and Bronchus	69.0 (65.1 - 73.0)	1,218	57.4 (56.9 - 58.0)	55.9 (55.4 - 56.4)
Tobacco-related, Excl. Lung	93.3 (88.7 - 98.1)	1,623	82.9 (82.2 - 83.6)	80.4 (79.8 - 81.0)
Colon and Rectum	38.6 (35.6 - 41.8)	650	39.3 (38.8 - 39.8)	40.3 (39.9 - 40.7)
Breast	See Page 6 & 7 for gender specific rate			
Prostate	See Page 6 for gender specific rate			
Urinary Bladder	29.8 (27.3 - 32.6)	521	21.5 (21.1 - 21.8)	19.7 (19.4 - 19.9)
Melanoma	21.5 (19.2 - 23.9)	360	24.8 (24.4 - 25.1)	21.1 (20.8 - 21.4)
Non-Hodgkin Lymphoma	19.6 (17.5 - 21.9)	335	19.8 (19.5 - 20.1)	19.0 (18.7 - 19.3)
Leukemia	15.5 (13.6 - 17.5)	258	13.6 (13.3 - 13.9)	13.0 (12.8 - 13.3)
Thyroid	15.4 (13.3 - 17.6)	222	14.5 (14.2 - 14.8)	13.8 (13.6 - 14.0)
Kidney and Renal Pelvis	15.3 (13.5 - 17.4)	268	15.6 (15.3 - 15.9)	15.2 (14.9 - 15.4)
Pancreas	13.3 (11.6 - 15.2)	233	12.1 (11.9 - 12.4)	12.2 (11.9 - 12.4)
Oral Cavity and Pharynx	11.7 (10.2 - 13.5)	210	11.5 (11.3 - 11.8)	11.0 (10.8 - 11.2)
Brain and Other Nervous System	6.7 (5.4 - 8.2)	102	6.8 (6.6 - 7.0)	6.1 (6.0 - 6.3)
Esophagus	6.1 (5.0 - 7.4)	110	4.5 (4.4 - 4.7)	4.3 (4.1 - 4.4)
Liver and Intrahepatic Bile Duct	5.2 (4.2 - 6.4)	94	7.2 (7.0 - 7.4)	8.1 (7.9 - 8.3)
Myeloma	5.2 (4.2 - 6.4)	95	5.6 (5.4 - 5.8)	6.2 (6.0 - 6.3)
Stomach	4.5 (3.6 - 5.7)	80	6.5 (6.3 - 6.6)	7.2 (7.0 - 7.4)
Larynx	3.5 (2.7 - 4.6)	65	3.2 (3.0 - 3.3)	3.1 (3.0 - 3.2)
Hodgkin Lymphoma	3.1 (2.2 - 4.2)	41	2.8 (2.7 - 2.9)	2.6 (2.5 - 2.7)
Mesothelioma	1.4 (0.9 - 2.1)	24	1.1 (1.0 - 1.1)	1.0 (0.9 - 1.0)
Corpus Uteri	See Page 7 for gender specific rate			
Ovary	See Page 7 for gender specific rate			
Cervix Uteri	See Page 7 for gender specific rate			
Testis	See Page 6 for gender specific rate			

## Notes:

- A shaded cell indicates that Maine rate is significantly higher than U.S. White rate
- Tobacco-related cancers excl. lung = laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical cancers, and acute myeloid leukemia. These cancers are also reported separately in the table
- Cancer sites are ordered by descending Maine incidence rates
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results


## Data Sources:

- Maine Incidence: Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission
- National Incidence: Surveillance, Epidemiology and End Results, SEER 18 Research Data, Nov 2013 Sub (2000-2011)

Age-adjusted Cancer Incidence Rates among Males by Site, Maine, 2011

	Male			
	AA Rate (95% CI)	Count	SEER Whites	SEER All races
All Sites	526.1 (509.8 - 542.8)	4,191	502.3 (499.8 - 504.8)	502.1 (499.9 - 504.3)
Prostate	115.3 (108.1 - 122.9)	1,006	125.7 (124.5 - 126.9)	135.6 (134.4 - 136.7)
Lung and Bronchus	79.7 (73.5 - 86.4)	632	66.4 (65.5 - 67.4)	66.2 (65.4 - 67.0)
Tobacco-related, Excl. Lung	132.7 (124.6 - 141.2)	1,056	117.8 (116.6 - 119.1)	113.6 (112.5 - 114.6)
Colon and Rectum	42.0 (37.3 - 47.0)	316	45.2 (44.5 - 46.0)	46.5 (45.8 - 47.2)
Breast	1.8 (0.9 - 3.1)	13	1.3 (1.2 - 1.5)	1.3 (1.2 - 1.4)
Urinary Bladder	51.5 (46.4 - 57.0)	393	37.7 (37.0 - 38.4)	34.6 (34.0 - 35.3)
Melanoma	25.8 (22.3 - 29.8)	201	32.1 (31.5 - 32.8)	27.7 (27.2 - 28.2)
Non-Hodgkin Lymphoma	22.2 (18.9 - 26.0)	172	23.9 (23.4 - 24.5)	23.0 (22.5 - 23.5)
Kidney and Renal Pelvis	20.9 (17.8 - 24.5)	167	21.1 (20.6 - 21.6)	20.6 (20.2 - 21.1)
Leukemia	19.8 (16.7 - 23.3)	151	17.2 (16.8 - 17.7)	16.5 (16.1 - 17.0)
Oral Cavity and Pharynx	16.8 (14.1 - 19.9)	145	17.4 (16.9 - 17.8)	16.6 (16.2 - 17.0)
Pancreas	14.7 (12.1 - 17.8)	118	14.1 (13.7 - 14.5)	14.0 (13.6 - 14.4)
Esophagus	10.8 (8.6 - 13.4)	89	8.0 (7.7 - 8.3)	7.4 (7.1 - 7.7)
Brain and Other Nervous System	8.9 (6.8 - 11.5)	64	8.1 (7.8 - 8.4)	7.4 (7.1 - 7.6)
Thyroid	8.8 (6.7 - 11.4)	64	7.4 (7.1 - 7.7)	6.9 (6.7 - 7.2)
Liver and Intrahepatic Bile Duct	7.8 (5.9 - 10.0)	65	11.2 (10.8 - 11.5)	12.6 (12.3 - 13.0)
Testis	7.0 (5.0 - 9.5)	41	6.5 (6.3 - 6.8)	5.5 (5.3 - 5.7)
Myeloma	6.7 (5.0 - 8.9)	54	7.2 (6.9 - 7.5)	7.7 (7.4 - 8.0)
Stomach	6.3 (4.6 - 8.3)	51	9.0 (8.7 - 9.4)	9.8 (9.5 - 10.1)
Larynx	6.0 (4.4 - 8.0)	50	5.6 (5.3 - 5.9)	5.6 (5.3 - 5.8)
Hodgkin Lymphoma	3.8 (2.4 - 5.7)	24	3.1 (2.9 - 3.3)	2.9 (2.7 - 3.1)
Mesothelioma	1.8 (1.0 - 3.1)	14	1.9 (1.7 - 2.0)	1.7 (1.6 - 1.8)

Notes:

-  A shaded cell indicates that Maine rate is significantly higher than U.S. White rate
- Tobacco-related cancers excl. lung = laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical cancers, and acute myeloid leukemia. These cancers are also reported separately in the table
- Cancer sites are ordered by descending incidence rates
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Excl. = Excluding.

Data Sources:

- Maine Incidence: Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission
- National Incidence: Surveillance, Epidemiology and End Results, SEER 18 Research Data, Nov 2013 Sub (2000-2011)

## Age-adjusted Cancer Incidence Rates among Females by Site, Maine, 2011

	Female			
	AA Rate (95% CI)	Count	SEER Whites	SEER All races
All Sites	444.1 (430.1 - 458.6)	4,063	414.1 (412.0 - 416.2)	402.3 (400.5 - 404.2)
Breast	126.9 (119.3 - 134.8)	1,137	127.1 (126.0 - 128.3)	124.2 (123.2 - 125.2)
Lung and Bronchus	60.9 (56.0 - 66.2)	586	50.7 (50.0 - 51.4)	48.2 (47.6 - 48.8)
Tobacco-related, Excl. Lung	60.8 (55.7 - 66.2)	567	55.0 (54.3 - 55.8)	54.4 (53.8 - 55.1)
Colon and Rectum	35.6 (31.7 - 39.8)	334	34.3 (33.7 - 34.9)	35.3 (34.7 - 35.8)
Corpus Uteri	28.1 (24.8 - 31.9)	272	24.8 (24.3 - 25.3)	24.1 (23.6 - 24.5)
Thyroid	21.7 (18.3 - 25.5)	158	21.7 (21.2 - 22.2)	20.5 (20.1 - 20.9)
Melanoma of the Skin	18.2 (15.4 - 21.4)	159	19.4 (18.9 - 19.8)	16.3 (15.9 - 16.6)
Non-Hodgkin Lymphoma	17.6 (14.9 - 20.7)	163	16.5 (16.1 - 16.9)	15.8 (15.5 - 16.2)
Urinary Bladder	13.1 (10.9 - 15.7)	128	9.0 (8.7 - 9.3)	8.4 (8.1 - 8.6)
Leukemia	11.8 (9.6 - 14.5)	107	10.7 (10.4 - 11.1)	10.3 (10.0 - 10.6)
Pancreas	11.6 (9.5 - 14.0)	115	10.5 (10.2 - 10.8)	10.6 (10.4 - 10.9)
Kidney and Renal Pelvis	10.6 (8.6 - 13.1)	101	10.8 (10.5 - 11.2)	10.5 (10.2 - 10.8)
Ovary	10.4 (8.3 - 12.9)	95	12.1 (11.8 - 12.5)	11.5 (11.2 - 11.8)
Cervix Uteri	7.3 (5.4 - 9.7)	52	7.5 (7.2 - 7.8)	7.4 (7.1 - 7.6)
Oral Cavity and Pharynx	7.0 (5.3 - 9.0)	65	6.3 (6.1 - 6.6)	6.1 (5.9 - 6.4)
Brain and Other Nervous System	4.5 (3.1 - 6.3)	38	5.7 (5.4 - 5.9)	5.1 (4.9 - 5.3)
Myeloma	4.1 (2.9 - 5.7)	41	4.3 (4.1 - 4.6)	5.0 (4.8 - 5.2)
Liver and Intrahepatic Bile Duct	3.0 (2.0 - 4.5)	29	3.7 (3.5 - 3.9)	4.2 (4.0 - 4.4)
Stomach	3.0 (2.0 - 4.3)	29	4.4 (4.2 - 4.6)	5.1 (4.9 - 5.3)
Hodgkin Lymphoma	2.5 (1.4 - 4.0)	17	2.5 (2.3 - 2.7)	2.4 (2.2 - 2.5)
Esophagus	2.0 (1.2 - 3.1)	21	1.7 (1.5 - 1.8)	1.7 (1.6 - 1.8)
Larynx	1.5 (0.8 - 2.6)	15	1.2 (1.1 - 1.3)	1.1 (1.0 - 1.2)
Mesothelioma	1.1 (0.5 - 2.1)	10	0.4 (0.4 - 0.5)	0.4 (0.3 - 0.5)

## Notes:

- A shaded cell indicates that Maine rate is significantly higher than U.S. White rate
- Tobacco-related cancers excl. Lung = laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical cancers, and acute myeloid leukemia. These cancers are also reported separately in the table
- Cancer sites are ordered by descending incidence rates
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Excl. = Excluding.

## Data Sources:

- Maine Incidence: Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission
- National Incidence: Surveillance, Epidemiology and End Results, SEER 18 Research Data, Nov 2013 Sub (2000-2011)

## All Cancers: Incidence by Age, Maine 2009-2011

	Total		Male		Female	
	Crude Rate (95% CI)	Count /Yr	Crude Rate (95% CI)	Count /Yr	Crude Rate (95% CI)	Count /Yr
0-14 years	17.9 (14.8 - 21.4)	40	19.9 (15.5 - 25.2)	23	15.7 (11.7 - 20.7)	17
15-19 years	23.4 (18.0 - 30.1)	21	23.4 (16.0 - 33.1)	11	23.5 (15.8 - 33.5)	10
20-24 years	41.3 (33.6 - 50.3)	33	41.9 (31.2 - 55.1)	17	40.8 (30.1-54.0)	16
25-29 years	72.7 (61.9 - 84.9)	53	66.2 (51.8 - 83.4)	24	79.1 (63.4 - 97.6)	29
30-34 years	91.6 (82.8 - 101.0)	133	74.9 (63.8 - 87.4)	54	108.0 (94.7 - 122.7)	79
35-39 years	153.2 (137.9 - 169.8)	121	107.9 (89.9 - 128.4)	42	197.1 (172.9 - 223.8)	79
40-44 years	230 (212.4 - 248.7)	211	150.4 (130.4 - 172.5)	68	307.0 (278.6 - 337.4)	143
45-49 years	379.6 (358.5 - 401.6)	404	287.4 (261.5 - 315.2)	150	468.7 (436.0 - 503.2)	254
50-54 years	594.8 (568.8 - 621.6)	659	590.9 (554.1 - 629.5)	320	598.5 (562.3 - 636.4)	339
55-59 years	862.3 (829.9 - 895.7)	888	901.2 (853.9 - 950.5)	452	825.4 (781.2 - 871.3)	436
60-64 years	1,214.3 (1,173.1 - 1,256.4)	1,098	1,377.8 (1,315.6 - 1,442.1)	615	1,054.9 (1,001.2 - 1,110.6)	483
65-69 years	1,772.1 (1,713.6 - 1,832.0)	1,157	2,034.7 (1,944.8 - 2,127.6)	642	1,526.2 (1,451.0 - 1,604.3)	515
70-74 years	2,221.2 (2,145.0 - 2,299.5)	1,068	2,715.0 (2,592.1 - 2,842.3)	610	1,787.4 (1,694.1 - 1,884.5)	457
75-79 years	2,601.4 (2,509.7 - 2,695.7)	1,011	3,212.7 (3,060.5 - 3,370.5)	557	2,109.1 (1,998.6 - 2,224.2)	454
80-84 years	2,502.2 (2,400.8 - 2,606.8)	764	3,175.3 (2,995.6 - 3,362.9)	389	2,052.2 (1,934.1 - 2,175.6)	376
85+ years	2,390.2 (2,289.0 - 2,494.9)	698	3,197.6 (2,992.2 - 3,413.4)	300	2,007.4 (1,895.1 - 2,124.7)	398
All Ages*	625.2 (617.5 - 633.0)	8,305	653.6 (642.3 - 665.0)	4,250	598.0 (587.4 - 608.7)	4,056

## Notes:

- Incidence case definitions are based on SEER Site Recode ICD-O-3 /WHO 2008
- Age-specific (crude) rates are calculated per 100,000 population.
- \*Crude (not age-adjusted) rate displayed for 'All ages'
- Abbreviations: CI = Confidence Interval; Count/Yr = Average Annual Count

## Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission


## All Cancers: Incidence by County of Residence, Maine, 2009-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr
Androscoggin	486.3 (463.9 - 509.6)	605	552.3 (516.7 - 589.7)	311	441.5 (412.2 - 472.4)	294
Aroostook	491.3 (465.9 - 517.9)	502	563.1 (523.7 - 605.0)	270	437.8 (404.0 - 474.0)	232
Cumberland	483.6 (469.8 - 497.8)	1,625	543.1 (521.0 - 565.8)	805	446.2 (428.2 - 464.8)	820
Franklin	427.4 (390.4 - 467.2)	174	433.0 (379.4 - 492.4)	85	425.3 (374.1 - 482.3)	89
Hancock	523.9 (493.6 - 555.8)	404	576.2 (530.0 - 625.7)	207	491.7 (450.7 - 535.9)	196
Kennebec	488.5 (468.1 - 509.5)	757	532.4 (501.2 - 565.1)	382	455.8 (428.6 - 484.3)	375
Knox	508.5 (474.1 - 544.9)	297	568.8 (516.8 - 625.1)	156	464.8 (418.5 - 515.3)	141
Lincoln	439.0 (405.5 - 474.9)	238	467.3 (418.2 - 521.2)	121	419.6 (373.5 - 470.8)	117
Oxford	466.3 (438.2 - 495.9)	361	515.7 (472.9 - 561.6)	190	427.9 (390.5 - 468.3)	171
Penobscot	507.8 (488.8 - 527.5)	926	571.6 (541.7 - 602.8)	478	461.2 (436.3 - 487.4)	448
Piscataquis	458.3 (410.7 - 510.7)	125	437.7 (373.3 - 511.9)	60	475.6 (406.8 - 554.4)	65
Sagadahoc	429.6 (394.8 - 467.0)	199	486.2 (431.7 - 545.9)	104	385.3 (340.2 - 435.3)	95
Somerset	472.4 (442.2 - 504.2)	320	529.0 (482.6 - 578.9)	170	425.1 (385.6 - 467.9)	150
Waldo	496.2 (460.2 - 534.6)	253	538.6 (483.7 - 598.4)	129	470.1 (421.5 - 523.2)	124
Washington	511.5 (473.7 - 551.8)	247	589.1 (530.7 - 652.9)	134	448.7 (399.2 - 503.2)	112
York	507.3 (490.9 - 524.2)	1,266	566.9 (541.1 - 593.6)	642	466.3 (444.8 - 488.7)	624
Maine	488.7 (482.5 - 494.9)	8,305	543.9 (534.2 - 553.7)	4,250	449.4 (441.2 - 457.7)	4,056

## All Cancers: Incidence by Public Health District of Residence, Maine, 2009-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr
Aroostook	491.3 (465.9 - 517.9)	502	563.1 (523.7 - 605.0)	270	437.8 (404.0 - 474.0)	232
Central	483.1 (466.2 - 500.5)	1,077	529.9 (504.0 - 556.8)	552	446.5 (424.0 - 469.9)	525
Cumberland	483.6 (469.8 - 497.8)	1,625	543.1 (521.0 - 565.8)	805	446.2 (428.2 - 464.8)	820
Downeast	518.2 (494.5 - 542.9)	650	580.4 (544.0 - 618.8)	342	474.6 (442.8 - 508.2)	309
Midcoast	469.1 (451.7 - 487.1)	986	516.5 (490.0 - 544.2)	510	434.3 (410.9 - 458.8)	476
Penquis	502.1 (484.4 - 520.4)	1,051	554.2 (526.8 - 582.7)	538	462.9 (439.4 - 487.5)	513
Western	470.0 (454.0 - 486.3)	1,140	519.6 (495.0 - 545.2)	586	434.3 (413.1 - 456.3)	554
York	507.3 (490.9 - 524.2)	1,266	566.9 (541.1 - 593.6)	642	466.3 (444.8 - 488.7)	624
Maine	488.7 (482.5 - 494.9)	8,305	543.9 (534.2 - 553.7)	4,250	449.4 (441.2 - 457.7)	4,056

## Notes:

-  A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Incidence case definitions are based on SEER Site Recode ICD-O-3 /WHO 2008
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. Standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count
- Maine total includes 25 cases with unknown county of residence

## Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

Lung Cancer: Incidence by Age, Maine 2009-2011

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
40-44 years	13.5 (9.5 - 18.6)	12	14.1 (8.5 - 22.0)	6	12.9 (7.6 - 20.4)	6
45-49 years	39.5 (32.9 - 47.0)	42	34.4 (25.8 - 44.9)	18	44.3 (34.7 - 55.8)	24
50-54 years	73.7 (64.7 - 83.5)	82	73.9 (61.2 - 88.3)	40	73.5 (61.2 - 87.6)	42
55-59 years	113.3 (101.8 - 125.9)	117	128.4 (110.9 - 147.8)	64	99.1 (84.2 - 115.8)	52
60-64 years	161.8 (147.0 - 177.7)	146	169.5 (148.2 - 193.1)	76	154.3 (134.3 - 176.6)	71
65-69 years	328.8 (303.9 - 355.2)	215	365.3 (327.8 - 405.9)	115	294.6 (262.1 - 330.0)	99
70-74 years	432.0 (398.8 - 467.3)	208	483.4 (432.3 - 538.8)	109	386.9 (344.2 - 433.5)	99
75-79 years	509.5 (469.3 - 552.2)	198	580.6 (517.0 - 650.0)	101	452.2 (401.8 - 507.1)	97
80-84 years	510.7 (465.5 - 559.1)	156	669.9 (588.8 - 759.1)	82	404.2 (352.8 - 461.1)	74
85+ years	344.7 (306.9 - 385.9)	101	514.6 (434.3 - 605.5)	48	264.2 (224.5 - 308.9)	52
Maine All Ages*	96.5 (93.5 - 99.6)	1,282	101.9 (97.5 - 106.5)	663	91.3 (87.2 - 95.5)	619

Notes:

- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Age-specific (crude) rates are calculated per 100,000 population.
- Abbreviations: CI = Confidence Interval; Count/Yr = Average Annual Count
- 'Maine All Ages' includes cases where age is less than 40 years
- \*Crude (not age-adjusted) rate displayed for 'All ages'

Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission


## Lung Cancer: Incidence by County of Residence, Maine 2009-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	81.2 (72.2 - 91.0)	102	86.3 (72.8 - 101.7)	50	77.1 (65.3 - 90.6)	51
Aroostook	85.5 (75.5 - 96.6)	92	103.8 (87.5 - 122.6)	50	72.4 (59.9 - 87.1)	42
Cumberland	70.6 (65.4 - 76.2)	237	81.7 (73.2 - 91.0)	116	64.0 (57.5 - 71.2)	121
Franklin	62.8 (49.4 - 79.1)	26	67.2 (46.6 - 94.2)	12	61.7 (44.0 - 85.1)	14
Hancock	65.5 (55.5 - 77.2)	52	78.1 (61.9 - 97.7)	28	55.8 (43.5 - 71.3)	24
Kennebec	79.5 (71.5 - 88.3)	123	91.1 (78.4 - 105.4)	64	70.3 (60.2 - 81.8)	59
Knox	67.1 (55.4 - 80.8)	41	79 (60.8 - 101.6)	22	59.3 (44.4 - 78.7)	19
Lincoln	50.1 (39.9 - 62.7)	29	61.4 (45.0 - 82.9)	16	41.3 (29.1 - 58.6)	13
Oxford	77.1 (66.3 - 89.5)	61	85.5 (68.9 - 105.1)	32	70.0 (56.0 - 86.9)	29
Penobscot	82.8 (75.3 - 90.8)	154	100.2 (87.9 - 113.8)	83	69.6 (60.5 - 79.9)	71
Piscataquis	79.2 (60.4 - 103.1)	21	94.0 (65.0 - 133.7)	12	66.0 (42.9 - 99.7)	9
Sagadahoc	47.3 (36.3 - 61.0)	22	48.2 (32.1 - 70.1)	10	49.8 (34.3 - 70.5)	12
Somerset	73.1 (61.9 - 86.0)	52	90.3 (72.0 - 112.2)	30	58.5 (45.2 - 75.1)	22
Waldo	85.4 (71.1 - 101.9)	44	90.9 (69.3 - 117.5)	21	82.1 (63.4 - 105.2)	23
Washington	90.0 (75.2 - 107.5)	45	96.9 (74.6 - 124.6)	23	83.5 (64.3 - 107.8)	22
York	70.9 (65.0 - 77.3)	180	81.3 (71.8 - 91.7)	92	63.0 (55.5 - 71.4)	88
Maine	74.0 (71.7 - 76.5)	1,282	85.2 (81.4 - 89.2)	663	65.9 (62.9 - 69.0)	619

## Lung Cancer: Incidence by Public Health District of Residence, Maine, 2009-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	85.5 (75.5 - 96.6)	92	103.8 (87.5 - 122.6)	50	72.4 (59.9 - 87.1)	42
Central	77.4 (70.8 - 84.4)	175	90.5 (79.9 - 102.0)	94	66.6 (58.4 - 75.8)	81
Cumberland	70.6 (65.4 - 76.2)	237	81.7 (73.2 - 91.0)	116	64.0 (57.5 - 71.2)	121
Downeast	75.0 (66.5 - 84.5)	97	85.3 (71.9 - 100.7)	51	66.5 (55.7 - 79.2)	46
Midcoast	62.7 (56.7 - 69.4)	136	70.6 (61.2 - 81.3)	70	58.2 (50.1 - 67.3)	66
Penquis	82.0 (75.1 - 89.5)	176	99.1 (87.7 - 111.5)	95	69.0 (60.4 - 78.5)	81
Western	76.5 (70.3 - 83.2)	189	82.6 (73.1 - 93.1)	95	72.1 (63.8 - 81.2)	94
York	70.9 (65.0 - 77.3)	180	81.3 (71.8 - 91.7)	92	63.0 (55.5 - 71.4)	88
Maine	74.0 (71.7 - 76.5)	1,282	85.2 (81.4 - 89.2)	663	65.9 (62.9 - 69.0)	619

## Notes:

-  A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Incidence case definitions are based on SEER Site Recode ICD-O-3 /WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count

## Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

Tobacco-related Cancers, Excl. Lung: Incidence by Age, Maine 2009-2011

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
25-29 years	9.6 (5.9 - 14.7)	7	5.5 (2.0 - 12.0)	2	13.6 (7.6 - 22.5)	5
30-34 years	13.5 (10.3 - 17.5)	20	6.9 (3.9 - 11.4)	5	20.1 (14.6 - 26.9)	15
35-39 years	19.8 (14.5 - 26.3)	16	15.4 (9.1 - 24.4)	6	24.0 (16.1 - 34.5)	10
40-44 years	34.2 (27.6 - 41.9)	31	39.3 (29.4 - 51.3)	18	29.3 (21.1 - 39.8)	14
45-49 years	64.2 (55.7 - 73.6)	68	85.4 (71.5 - 101.1)	45	43.7 (34.2 - 55.2)	24
50-54 years	112.5 (101.3 - 124.5)	125	158.8 (140.0 - 179.4)	86	68.2 (56.4 - 81.8)	39
55-59 years	162.9 (149.0 - 177.8)	168	232.1 (208.4 - 257.8)	116	97.2 (82.4 - 113.8)	51
60-64 years	224.9 (207.4 - 243.4)	203	327.1 (297.2 - 359.2)	146	125.2 (107.2 - 145.4)	57
65-69 years	319.6 (295.0 - 345.6)	209	442.4 (401.1 - 486.9)	140	204.6 (177.7 - 234.5)	69
70-74 years	436.2 (402.8 - 471.7)	210	680.6 (619.8 - 745.8)	153	221.5 (189.4 - 257.4)	57
75-79 years	520.6 (480.0 - 563.7)	202	805.6 (730.3 - 886.5)	140	291.1 (251.0 - 335.8)	63
80-84 years	557.6 (510.3 - 608.1)	170	882.3 (788.9 - 983.8)	108	340.5 (293.5 - 393.0)	62
85+ years	497.7 (452.1 - 546.7)	145	837.6 (734.1 - 951.5)	79	336.5 (291.5 - 386.5)	67
Maine All Ages*	118.6 (115.3 - 122.0)	1,576	160.8 (155.2 - 166.5)	1,045	78.2 (74.4 - 82.1)	530

Notes:

- Tobacco-related cancers excl. Lung = laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical cancers, and acute myeloid leukemia.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Age-specific (crude) rates are calculated per 100,000 population.
- \* Crude (not age-adjusted) rate displayed for 'All ages'
- Abbreviations: Excl. = Excluding; CI = Confidence Interval; Count/Yr = Average Annual Count

Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission




## Tobacco-related Cancers, Excl. Lung: Incidence by County of Residence, Maine, 2009-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	88.0 (78.7 - 98.2)	111	130.7 (113.7 - 149.6)	73	53.7 (44.1 - 64.9)	38
Aroostook	100.9 (89.6 - 113.3)	104	146.4 (126.9 - 168.3)	71	64.6 (51.6 - 80.1)	33
Cumberland	87.0 (81.2 - 93.1)	294	132.6 (121.8 - 144.2)	195	52.8 (46.8 - 59.4)	99
Franklin	78.5 (63.5 - 96.5)	33	105.5 (80.9 - 135.9)	22	51.7 (35.0 - 74.4)	11
Hancock	100.4 (87.3 - 115.0)	77	142.8 (120.1 - 168.9)	50	69.1 (53.9 - 87.6)	27
Kennebec	92.1 (83.4 - 101.5)	143	127.8 (112.8 - 144.4)	92	62.9 (53.0 - 74.3)	51
Knox	97.9 (83.3 - 114.6)	58	147.8 (121.9 - 178.0)	40	56.7 (41.4 - 76.7)	17
Lincoln	81.5 (67.6 - 97.9)	45	99.2 (77.6 - 126.0)	26	66.5 (49.3 - 88.9)	19
Oxford	94.2 (82.0 - 108.0)	74	133.2 (112.1 - 157.3)	50	60.3 (46.8 - 76.8)	24
Penobscot	92.9 (84.9 - 101.5)	171	137.4 (123.0 - 153.2)	115	55.8 (47.5 - 65.2)	56
Piscataquis	75.2 (56.9 - 98.7)	21	120.0 (87.1 - 163.5)	16	32.7 (16.5 - 60.7)	4
Sagadahoc	86.3 (71.1 - 104.1)	40	111.3 (86.1 - 142.0)	24	64.9 (47.1 - 87.7)	16
Somerset	106.6 (92.6 - 122.3)	72	155.4 (131.0 - 183.4)	50	64.5 (49.2 - 83.3)	22
Waldo	81.7 (67.3 - 98.4)	41	116.9 (91.9 - 146.8)	27	52.0 (36.7 - 72.2)	14
Washington	106.5 (89.9 - 125.6)	52	153.9 (125.2 - 188.0)	36	65.9 (47.9 - 89.5)	16
York	94.8 (87.8 - 102.2)	239	137.2 (124.8 - 150.6)	157	61.3 (53.6 - 69.8)	82
Maine	91.9 (89.2 - 94.6)	1,576	133.6 (128.8 - 138.5)	1,045	58.0 (55.1 - 61.0)	530

## Tobacco-related Cancers, Excl. Lung: Incidence by Public Health District of Residence, Maine, 2009-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	100.9 (89.6 - 113.3)	104	146.4 (126.9 - 168.3)	71	64.6 (51.6 - 80.1)	33
Central	96.7 (89.2 - 104.6)	215	136.6 (123.6 - 150.6)	142	63.4 (55.0 - 72.9)	73
Cumberland	87.0 (81.2 - 93.1)	294	132.6 (121.8 - 144.2)	195	52.8 (46.8 - 59.4)	99
Downeast	102.0 (91.7 - 113.3)	129	146.4 (128.5 - 166.4)	86	67.3 (55.5 - 81.1)	43
Midcoast	87.2 (79.8 - 95.2)	184	120.2 (107.5 - 134.0)	117	59.5 (51.1 - 69.0)	66
Penquis	90.9 (83.5 - 98.8)	191	134.9 (121.6 - 149.4)	131	53.0 (45.4 - 61.7)	60
Western	88.4 (81.7 - 95.6)	218	127.8 (115.8 - 140.7)	145	55.1 (47.9 - 63.1)	73
York	94.8 (87.8 - 102.2)	239	137.2 (124.8 - 150.6)	157	61.3 (53.6 - 69.8)	82
Maine	91.9 (89.2 - 94.6)	1,576	133.6 (128.8 - 138.5)	1,045	58.0 (55.1 - 61.0)	530

## Notes:

-  A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Tobacco-related cancers excl. Lung = laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical cancers, and acute myeloid leukemia
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: Excl. = Excluding; AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count

## Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

**Prostate Cancer: Incidence by Age, Maine 2009-2011**

	Male	
	Crude Rate (95% CI)	Count/Yr
40-44 years	8.1 (4.1 - 14.6)	4
45-49 years	26.8 (19.3 - 36.2)	14
50-54 years	114.5 (98.6 - 132.2)	62
55-59 years	256.7 (231.8 - 283.7)	129
60-64 years	478.7 (442.3 - 517.2)	214
65-69 years	654.6 (604.1 - 708.3)	207
70-74 years	723.6 (660.8 - 790.8)	163
75-79 years	657.5 (589.7 - 731.1)	114
80-84 years	460.2 (393.5 - 535.1)	56
85+ years	408.1 (337.0 - 489.9)	38
Maine All Ages*	153.9 (148.4 - 159.5)	1,001


**Prostate Cancer: Incidence by County of Residence, Maine, 2009-2011**

	Male	
	AA Rate (95% CI)	Count/Yr
Androscoggin	124.4 (108.2 - 142.5)	73
Aroostook	106.7 (91.0 - 124.7)	57
Cumberland	114.1 (104.5 - 124.4)	184
Franklin	113.3 (88.3 - 144.0)	25
Hancock	139.6 (118.5 - 164.0)	55
Kennebec	121.5 (107.2 - 137.2)	92
Knox	144.3 (119.8 - 173.1)	43
Lincoln	112.4 (90.8 - 138.7)	33
Oxford	111.0 (92.3 - 132.7)	44
Penobscot	117.0 (104.1 - 131.1)	105
Piscataquis	69.7 (47.0 - 102.7)	11
Sagadahoc	127.1 (101.6 - 157.7)	30
Somerset	98.4 (80.0 - 120.2)	35
Waldo	123.2 (99.0 - 152.2)	33
Washington	130.5 (105.0 - 161.1)	32
York	122.9 (111.4 - 135.3)	148
Maine	118.4 (114.1 - 122.9)	1,001

**Prostate Cancer: Incidence by Public Health District of Residence, Maine, 2009-2011**

	Male	
	AA Rate (95% CI)	Count/Yr
Aroostook	106.7 (91.0 - 124.7)	57
Central	114.2 (102.7 - 126.7)	127
Cumberland	114.1 (104.5 - 124.4)	184
Downeast	136.3 (119.8 - 154.7)	87
Midcoast	127.0 (114.7 - 140.3)	139
Penquis	110.3 (98.7 - 123.0)	115
Western	117.9 (106.7 - 130.0)	142
York	122.9 (111.4 - 135.3)	148
Maine	118.4 (114.1 - 122.9)	1,001

**Notes:**

-  A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Incidence case definitions are based on SEER Site Recode ICD-O-3 /WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Age-adjusted rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Age-specific (crude) rates are calculated per 100,000 population.
- \*Crude (not age-adjusted) rate displayed for 'All ages'
- 'Maine All Ages' includes cases where age is less than 40 years
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count


**Data Sources:**

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

### Female Breast Cancer: Incidence by Age, Maine, 2009-2011

	Female	
	Crude Rate (95% CI)	Count/Yr
25-29 years	7.3 (3.1 - 14.3)	3
30-34 years	18.7 (13.4 - 25.4)	14
35-39 years	66.3 (52.5 - 82.5)	27
40-44 years	128.1 (110.0 - 148.3)	60
45-49 years	185.4 (165.0 - 207.6)	100
50-54 years	203.4 (182.5 - 226.0)	115
55-59 years	261.2 (236.7 - 287.7)	138
60-64 years	330.5 (300.8 - 362.4)	151
65-69 years	440.9 (400.9 - 483.7)	149
70-74 years	454.7 (408.2 - 505.0)	116
75-79 years	456.8 (406.2 - 512.0)	98
80-84 years	418.8 (366.4 - 476.6)	77
85+ years	336.5 (291.5 - 386.5)	67
Maine All Ages*	164.2 (158.6 - 169.8)	1,113

#### Notes:

-  A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Age-adjusted rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Age-specific (crude) rates are calculated per 100,000 population.
- \* Crude (not age-adjusted) rate displayed for 'All ages'
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count
- 'Maine All Ages' includes cases where age is less than 25 years

#### Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

### Female Breast Cancer: Incidence by County of Residence, Maine, 2009-2011

	Female	
	AA Rate (95% CI)	Count/Yr
Androscoggin	112.6 (98.1 - 128.7)	75
Aroostook	100.7 (84.7 - 119.1)	51
Cumberland	134.5 (124.7 - 145)	245
Franklin	122.9 (96.3 - 155.2)	26
Hancock	122.8 (103.0 - 145.8)	50
Kennebec	135.5 (120.8 - 151.5)	111
Knox	118.8 (95.8 - 146.4)	34
Lincoln	109.0 (86.7 - 136.4)	31
Oxford	109.7 (91.2 - 131.2)	44
Penobscot	126.8 (113.7 - 141.0)	121
Piscataquis	148.5 (110.4 - 197.4)	20
Sagadahoc	99.7 (77.6 - 126.7)	25
Somerset	106.9 (87.8 - 129.4)	38
Waldo	139.0 (112.3 - 170.4)	35
Washington	113.0 (88.4 - 143.1)	27
York	136.5 (124.9 - 149.0)	180
Maine	125.0 (120.6 - 129.4)	1,113

### Female Breast Cancer: Incidence by Public Health District of Residence, Maine, 2009-2011

	Female	
	AA Rate (95% CI)	Count/Yr
Aroostook	100.7 (84.7 - 119.1)	51
Central	127.1 (115.2 - 139.9)	148
Cumberland	134.5 (124.7 - 145.0)	245
Downeast	119.6 (103.9 - 137.4)	77
Midcoast	117.1 (104.9 - 130.4)	125
Penquis	129.1 (116.7 - 142.5)	140
Western	113.2 (102.6 - 124.7)	145
York	136.5 (124.9 - 149.0)	180
Maine	125.0 (120.6 - 129.4)	1,113

## Colorectal Cancer: Incidence by Age, Maine, 2009-2011

	Total		Male		Female	
	Rate (95% CI)	Count/Yr	Rate (95% CI)	Count/Yr	Rate (95% CI)	Count/Yr
35-39 years	15.2 (10.6 – 21.0)	12	18.0 (11.1 - 27.5)	7	12.4 (7.0 - 20.5)	5
40-44 years	17.5 (12.9 - 23.2)	16	16.3 (10.2 - 24.7)	7	18.6 (12.2 - 27.3)	9
45-49 years	27.2 (21.8 - 33.6)	29	28.7 (20.9 - 38.4)	15	25.9 (18.6 – 35.0)	14
50-54 years	53.2 (45.7 - 61.7)	59	63.4 (51.7 - 76.9)	34	43.5 (34.2 - 54.6)	25
55-59 years	57.6 (49.5 - 66.8)	59	65.2 (52.9 - 79.4)	33	50.5 (40.0 - 62.8)	27
60-64 years	69.7 (60.1 - 80.3)	63	85.1 (70.2 - 102.3)	38	54.6 (42.9 - 68.4)	25
65-69 years	120.5 (105.6 - 136.9)	79	152.0 (128.2 - 179)	48	90.9 (73.3 - 111.5)	31
70-74 years	183.8 (162.3 - 207.3)	88	203.1 (170.6 - 240.2)	46	166.8 (139.1 - 198.3)	43
75-79 years	256.5 (228.2 - 287.2)	100	278.8 (235.3 – 328.0)	48	238.5 (202.3 - 279.3)	51
80-84 years	270.6 (238.0 - 306.5)	83	291.4 (238.8 - 352.1)	36	256.7 (216.1 - 302.8)	47
85+ years	345.9 (308.0 - 387.1)	101	362.0 (295.2 - 439.4)	34	338.2 (293.1 - 388.3)	67
Maine All Ages*	52.3 (50.1 - 54.6)	695	53.8 (50.6 - 57.1)	350	51.0 (47.9 - 54.2)	346

## Notes:

- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Age-specific (crude) rates are calculated per 100,000 population.
- \*Crude (not age-adjusted) rate displayed for 'All ages'
- Abbreviations: CI = Confidence Interval; Count/Yr = Average Annual Count
- 'Maine All Ages' includes cases where age is less than 35 years

## Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

## Colorectal Cancer: Incidence by County of Residence, Maine, 2009-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	40.8 (34.5 - 47.9)	51	55.6 (44.4 - 68.6)	30	31.3 (24.0 - 40.3)	22
Aroostook	52.6 (44.6 - 61.7)	55	56.7 (44.8 - 71.2)	28	46.5 (36.5 - 58.8)	27
Cumberland	38.9 (35.1 - 43.1)	128	48.5 (41.9 - 55.8)	68	31.6 (27.0 - 36.8)	60
Franklin	39.8 (28.9 - 53.7)	16	29.5 (15.9 - 50.1)	5	50.2 (33.9 - 72.4)	11
Hancock	50.0 (40.8 - 60.9)	37	53.4 (39.4 - 71.0)	18	46.8 (35.1 - 61.8)	20
Kennebec	37.1 (31.7 - 43.3)	57	39.9 (31.6 - 49.8)	28	34.7 (27.7 - 43.2)	29
Knox	29.5 (22.1 - 39.1)	18	32.0 (21.0 - 47.6)	9	26.1 (16.9 - 39.7)	9
Lincoln	33.1 (24.6 - 44.2)	18	37.3 (24.3 - 55.7)	10	28.8 (18.4 - 44.5)	9
Oxford	41.1 (33.2 - 50.5)	32	38.3 (27.3 - 52.6)	14	42.5 (31.9 - 56.1)	18
Penobscot	42.4 (37.0 - 48.3)	76	46.8 (38.5 - 56.3)	39	38.0 (31.1 - 46.1)	37
Piscataquis	38.7 (26.1 - 56.4)	11	27.7 (12.9 - 54.7)	4	46.7 (28.7 - 75.1)	7
Sagadahoc	33.8 (24.7 - 45.5)	16	37.2 (23.2 - 56.9)	8	31.0 (19.7 - 47.3)	8
Somerset	43.8 (34.9 - 54.5)	29	37.3 (25.5 - 53.0)	11	50.3 (37.4 - 66.6)	17
Waldo	49.8 (39.0 - 62.9)	26	64.3 (46.2 - 87.6)	15	37.9 (25.7 - 54.6)	11
Washington	46.2 (35.6 - 59.5)	23	51.5 (35.4 - 73.4)	12	41.6 (28.2 - 60.4)	11
York	41.5 (36.8 - 46.5)	101	46.0 (38.9 - 54.2)	51	36.9 (31.1 - 43.7)	50
Maine	41.1 (39.4 - 43.0)	695	46.0 (43.1 - 48.9)	350	36.9 (34.6 - 39.3)	346

## Colorectal Cancer: Incidence by Public Health District of Residence, Maine, 2009-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	52.6 (44.6 - 61.7)	55	56.7 (44.8 - 71.2)	28	46.5 (36.5 - 58.8)	27
Central	39.1 (34.4 - 44.3)	86	38.8 (32.0 - 46.8)	39	39.4 (33.0 - 46.8)	47
Cumberland	38.9 (35.1 - 43.1)	128	48.5 (41.9 - 55.8)	68	31.6 (27.0 - 36.8)	60
Downeast	48.6 (41.5 - 56.8)	61	52.9 (41.9 - 66.0)	30	44.7 (35.6 - 55.6)	31
Midcoast	36.1 (31.5 - 41.2)	78	42.2 (34.9 - 50.8)	42	30.1 (24.5 - 36.7)	36
Penquis	42.0 (37.0 - 47.5)	87	44.1 (36.6 - 52.7)	43	39.2 (32.7 - 46.8)	44
Western	40.7 (36.2 - 45.7)	99	45.3 (38.1 - 53.5)	49	38.1 (32.2 - 44.9)	51
York	41.5 (36.8 - 46.5)	101	46.0 (38.9 - 54.2)	51	36.9 (31.1 - 43.7)	50
Maine	41.1 (39.3 - 43.0)	695	46.0 (43.1 - 48.9)	350	36.9 (34.6 - 39.3)	346

## Notes:

- A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count

## Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission


**Brain and Other Nervous System Tumors: Incidence by County of Residence, Maine, 2007-2011**

	All Behaviors		Malignant		Non-Malignant	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	15.5 (12.5 - 19.1)	18	5.4 (3.6 - 7.7)	6	10.1 (7.7 - 13.1)	12
Aroostook	13.9 (10.5 - 18.0)	13	6.7 (4.5 - 9.8)	6	7.1 (4.8 - 10.3)	6
Cumberland	15.3 (13.4 - 17.4)	49	9.0 (7.5 - 10.6)	28	6.3 (5.1 - 7.8)	20
Franklin	9.4 (5.3 - 15.6)	3	5.0 (2.1 - 10.1)	2	4.3 (1.8 - 9.0)	2
Hancock	13.9 (10.0 - 18.9)	9	7.2 (4.4 - 11.1)	5	6.7 (4.1 - 10.4)	5
Kennebec	15.6 (12.8 - 19.0)	22	8.1 (6.0 - 10.6)	11	7.6 (5.7 - 10)	11
Knox	20.1 (14.9 - 26.7)	11	10.0 (6.5 - 15)	6	10.1 (6.5 - 15.2)	5
Lincoln	14.1 (9.1 - 21.0)	6	7.2 (3.8 - 12.6)	3	6.9 (3.6 - 12.1)	3
Oxford	18.6 (14.1 - 24.1)	12	7.2 (4.7 - 10.8)	5	11.3 (7.8 - 15.9)	7
Penobscot	16.3 (13.6 - 19.3)	27	9.0 (7.1 - 11.4)	15	7.2 (5.5 - 9.4)	12
Piscataquis	22.9 (13.8 - 35.9)	5	11.4 (5.5 - 21.1)	2	11.5 (5.3 - 21.9)	2
Sagadahoc	16.7 (11.3 - 23.8)	7	8.5 (4.9 - 13.9)	4	8.2 (4.5 - 13.6)	3
Somerset	15.3 (11.1 - 20.7)	9	6.8 (4.1 - 10.7)	4	8.5 (5.5 - 12.7)	5
Waldo	17.2 (12.2 - 23.8)	8	8.0 (4.8 - 12.7)	4	9.2 (5.6 - 14.4)	4
Washington	11.0 (6.7 - 17.3)	4	6.3 (3.1 - 11.5)	2	4.7 (2.1 - 9.2)	2
York	16.5 (14.1 - 19.1)	38	8.2 (6.6 - 10.1)	19	8.3 (6.6 - 10.2)	19
Maine	15.6 (14.7 - 16.6)	243	7.9 (7.3 - 8.6)	123	7.7 (7.1 - 8.3)	120

**Brain and Other Nervous System Tumors: Incidence by Public Health District of Residence, Maine, 2007-2011**

	All Behaviors		Malignant		Non-Malignant	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	13.9 (10.5 - 18.0)	13	6.7 (4.5 - 9.8)	6	7.1 (4.8 - 10.3)	6
Central	15.5 (13.1 - 18.2)	32	7.7 (6.0 - 9.7)	15	7.8 (6.2 - 9.8)	16
Cumberland	15.3 (13.4 - 17.4)	49	9 (7.5 - 10.6)	28	6.3 (5.1 - 7.8)	20
Downeast	12.7 (9.7 - 16.4)	14	6.9 (4.7 - 9.7)	7	5.9 (3.9 - 8.5)	7
Midcoast	16.9 (14.3 - 20.0)	32	8.3 (6.5 - 10.5)	16	8.6 (6.7 - 10.9)	16
Penquis	16.9 (14.3 - 19.8)	32	9.3 (7.4 - 11.6)	18	7.6 (5.9 - 9.6)	14
Western	15.5 (13.2 - 18.1)	34	5.9 (4.6 - 7.6)	13	9.6 (7.8 - 11.7)	21
York	16.5 (14.1 - 19.1)	38	8.2 (6.6 - 10.1)	19	8.3 (6.6 - 10.2)	19
Maine	15.6 (14.7 - 16.6)	243	7.9 (7.3 - 8.6)	123	7.7 (7.1 - 8.3)	120

**Notes:**

-  A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count

**Data Source:**

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

## Age-adjusted Obesity-related Cancer Incidence Rates by Anatomic Site, Maine and US, 2011

	Total			
	AA Rate (95% CI)	Count	SEER Whites	SEER All races
Colorectal	38.6 (35.6 - 41.8)	650	39.3 (38.8 - 39.8)	40.3 (39.9 - 40.7)
Esophagus, Adenocarcinoma	4.5 (3.6 - 5.7)	82	3.1 (2.9 - 3.2)	2.6 (2.5 - 2.7)
Kidney and Renal Pelvis	15.3 (13.5 - 17.4)	268	15.6 (15.3 - 15.9)	15.2 (14.9 - 15.4)
Pancreas	13.3 (11.6 - 15.2)	233	12.1 (11.9 - 12.4)	12.2 (11.9 - 12.4)
Breast, post-menopausal	See gender specific rate below			
Corpus Uteri	See gender specific rate below			


## Age-adjusted Obesity-related Cancer Incidence Rates among Males by Anatomic Site, Maine and US, 2011

	Male			
	AA Rate (95% CI)	Count	SEER Whites	SEER All races
Colorectal	42.0 (37.3 - 47.0)	316	45.2 (44.5 - 46.0)	46.5 (45.8 - 47.2)
Esophagus, Adenocarcinoma	8.4 (6.5 - 10.7)	70	5.8 (5.6 - 6.1)	4.9 (4.7 - 5.2)
Kidney and Renal Pelvis	20.9 (17.8 - 24.5)	167	21.1 (20.6 - 21.6)	20.6 (20.2 - 21.1)
Pancreas	14.7 (12.1 - 17.8)	118	14.1 (13.7 - 14.5)	14 (13.6 - 14.4)

## Age-adjusted Obesity-related Cancer Incidence Rates among Females by Anatomic Site, Maine and US, 2011

	Female			
	AA Rate (95% CI)	Count	SEER Whites	SEER All races
Colorectal	35.6 (31.7 - 39.8)	334	34.3 (33.7 - 34.9)	35.3 (34.7 - 35.8)
Esophagus, Adenocarcinoma	1.1 (0.6 - 2.0)	12	0.7 (0.7 - 0.8)	0.6 (0.6 - 0.7)
Kidney and Renal Pelvis	10.6 (8.6 - 13.1)	101	10.8 (10.5 - 11.2)	10.5 (10.2 - 10.8)
Pancreas	11.6 (9.5 - 14.0)	115	10.5 (10.2 - 10.8)	10.6 (10.4 - 10.9)
Breast, post-menopausal	337.5 (315.9 - 360.3)	930	347.3 (343.8 - 350.8)	336.5 (333.4 - 339.5)
Corpus Uteri	27.7 (24.4 - 31.3)	268	23.6 (23.1 - 24.1)	22.8 (22.4 - 23.3)

## Notes:

-  A shaded cell indicates that Maine rate is significantly higher than SEER White rate
- Obesity-related cancers = cancers of colon and rectum, esophagus (adenocarcinoma), kidney and renal pelvis, pancreas, corpus uteri, and breast (post-menopausal). Post-menopausal breast cancer cases include malignant breast cancer cases diagnosed among females with age 50 years or greater
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Count = Average Annual Count
- Cancer sites are ordered by gender-specific cancers and then alphabetically

## Data Sources:

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission
- National Incidence: Surveillance, Epidemiology and End Results, SEER 18 Research Data, Nov 2013 Sub (2000-2011)

**Age-adjusted Human Papillomavirus (HPV)-associated Cancer Incidence Rates by Anatomic Site, Maine and US, 2011**

	<b>Total</b>			
	<b>AA Rate (95% CI)</b>	<b>Count</b>	<b>SEER Whites</b>	<b>SEER All races</b>
Anus	1.4 (0.9 - 2.1)	26	1.8 (1.7 - 1.9)	1.6 (1.5 - 1.7)
Oral Cavity and Oropharynx (limited sites including base of tongue, tonsils and other oropharynx)	5.7 (4.6 - 6.9)	102	4.5 (4.3 - 4.6)	4.1 (3.9 - 4.2)
Cervix	See gender specific rate below			
Vagina	See gender specific rate below			
Vulva	See gender specific rate below			
Penis	See gender specific rate below			


**Age-adjusted Human Papillomavirus (HPV)-associated Cancer Incidence Rates among Males by Anatomic Site, Maine and US, 2011**

	<b>Male</b>			
	<b>AA Rate (95% CI)</b>	<b>Count</b>	<b>SEER Whites</b>	<b>SEER All races</b>
Penis	1.5 (0.8 - 2.8)	11	0.8 (0.7 - 0.9)	0.8 (0.7 - 0.9)
Anus	0.8 (0.3 - 1.7)	7	1.3 (1.1 - 1.4)	1.2 (1.1 - 1.3)
Oral Cavity and Oropharynx (limited sites including base of tongue, tonsils and other oropharynx)	9.2 (7.2 - 11.6)	80	7.7 (7.4 - 8.0)	7.0 (6.7 - 7.2)

**Age-adjusted Human Papillomavirus (HPV)-associated Cancer Incidence Rates among Females by Anatomic Site, Maine and US, 2011**

	<b>Female</b>			
	<b>AA Rate (95% CI)</b>	<b>Count</b>	<b>SEER Whites</b>	<b>SEER All races</b>
Cervix	6.9 (5.0 - 9.3)	49	7.3 (7.0 - 7.6)	7.2 (6.9 - 7.4)
Vagina	0.4 (0.1 - 1.1)	4	0.4 (0.4 - 0.5)	0.5 (0.4 - 0.5)
Vulva	2.3 (1.4 - 3.6)	22	1.9 (1.8 - 2.1)	1.8 (1.6 - 1.9)
Anus	1.9 (1.2 - 3.1)	19	2.2 (2.1 - 2.4)	2 (1.9 - 2.1)
Oral Cavity and Oropharynx (limited sites including base of tongue, tonsils and other oropharynx)	2.3 (1.5 - 3.6)	22	1.6 (1.4 - 1.7)	1.4 (1.3 - 1.6)

**Notes:**

-  A shaded cell indicates that Maine rate is significantly higher than SEER White rate
- HPV-related Cancers = all carcinomas of the Cervix, and squamous cell carcinomas for Vagina, Vulva, Penis, Anus, and Oropharynx. Oral cavity and oropharyngeal cancers are limited to the subsites specified in Appendix 2.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Count = Annual Count
- Cancer sites are ordered alphabetically by gender specific cancers and then by non-gender specific cancers.

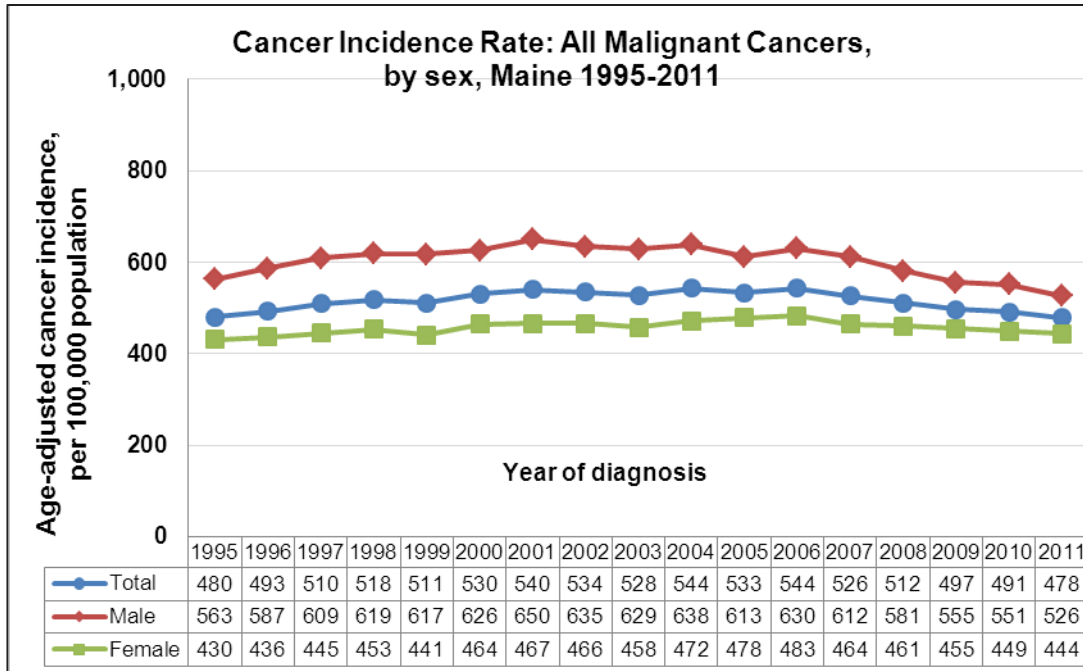
**Data Sources:**

- Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission
- National Incidence: Surveillance, Epidemiology and End Results, SEER 18 Research Data, Nov 2013 Sub (2000-2011)



# CANCER INCIDENCE TRENDS

## Age-adjusted Incidence of all Malignant Cancers, Maine 1995-2011



## Cancer Incidence Rates: All Malignant Cancers, Maine 1995-2011

Year	Total	Male	Female
	AA Rate (95% CI)	AA Rate (95% CI)	AA Rate (95% CI)
1995	480.3 (468.5 - 492.4)	563.2 (543.5 - 583.5)	430.4 (415.2 - 446)
1996	493.2 (481.3 - 505.3)	586.7 (566.7 - 607.2)	435.8 (420.7 - 451.4)
1997	509.6 (497.6 - 521.8)	609.1 (588.9 - 629.7)	445.2 (430.1 - 460.8)
1998	518.1 (506.0 - 530.3)	619.0 (598.8 - 639.6)	453.0 (437.8 - 468.7)
1999	510.6 (498.8 - 522.6)	617.0 (597.2 - 637.4)	440.6 (425.7 - 455.8)
2000	530.2 (518.3 - 542.3)	626.0 (606.3 - 646.2)	464.4 (449.4 - 479.9)
2001	540.3 (528.4 - 552.5)	649.7 (629.8 - 670.1)	466.6 (451.6 - 482.1)
2002	534.3 (522.5 - 546.3)	634.7 (615.2 - 654.6)	465.6 (450.7 - 481.0)
2003	528.1 (516.4 - 539.9)	628.5 (609.3 - 648.2)	457.6 (442.8 - 472.7)
2004	543.5 (531.8 - 555.4)	638.4 (619.4 - 657.9)	471.9 (457.1 - 487.1)
2005	533.3 (521.8 - 545.0)	612.5 (594.0 - 631.5)	478.2 (463.3 - 493.4)
2006	543.7 (532.1 - 555.4)	629.9 (611.2 - 648.9)	482.5 (467.6 - 497.7)
2007	526.2 (514.9 - 537.6)	611.8 (593.7 - 630.4)	464.3 (449.8 - 479.3)
2008	511.5 (500.4 - 522.7)	581.3 (563.8 - 599.2)	461.0 (446.6 - 475.8)
2009	496.9 (486 - 507.9)	555.3 (538.3 - 572.7)	455.2 (440.9 - 469.9)
2010	491.4 (480.6 - 502.3)	551.3 (534.6 - 568.6)	449.1 (434.8 - 463.7)
2011	478.4 (467.8 - 489.1)	526.1 (509.8 - 542.8)	444.1 (430.1 - 458.6)

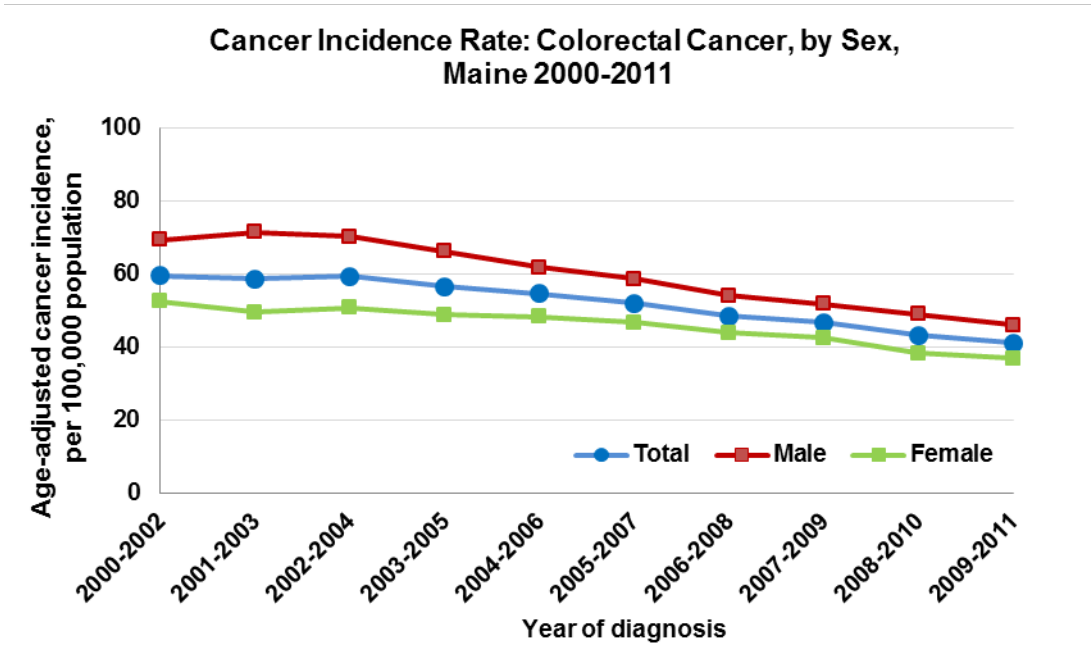
**Notes:**

- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population

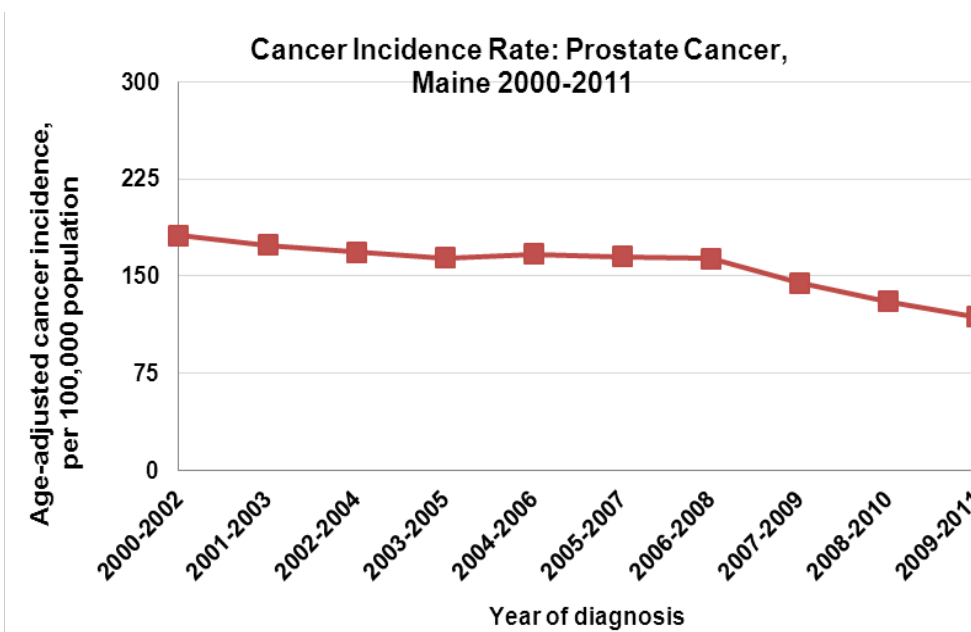
**Data Source:**

- Maine Incidence: Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

Age-adjusted Incidence of Colorectal Cancer, Maine 2000-2011



Age-adjusted Incidence of Prostate Cancer, Maine 2000-2011



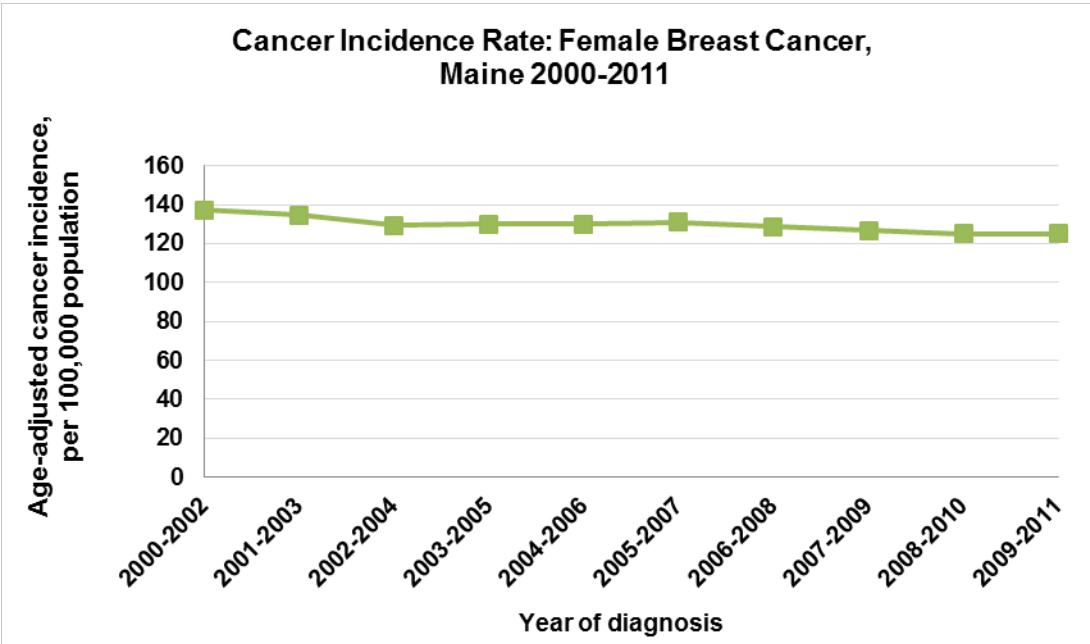
Data Source:

- Data Source: Maine Incidence: Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

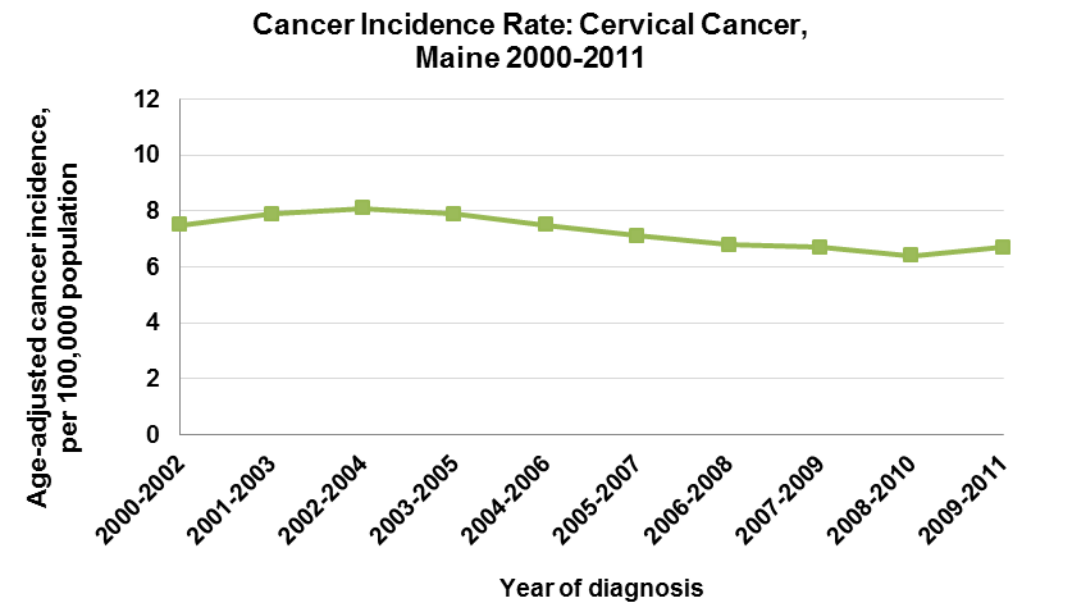
Notes:

- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population

Age-adjusted Incidence of Breast Cancer among Females, Maine 2000-2011



Age-adjusted Incidence of Cervical Cancer among Females, Maine 2000-2011



Data Source:

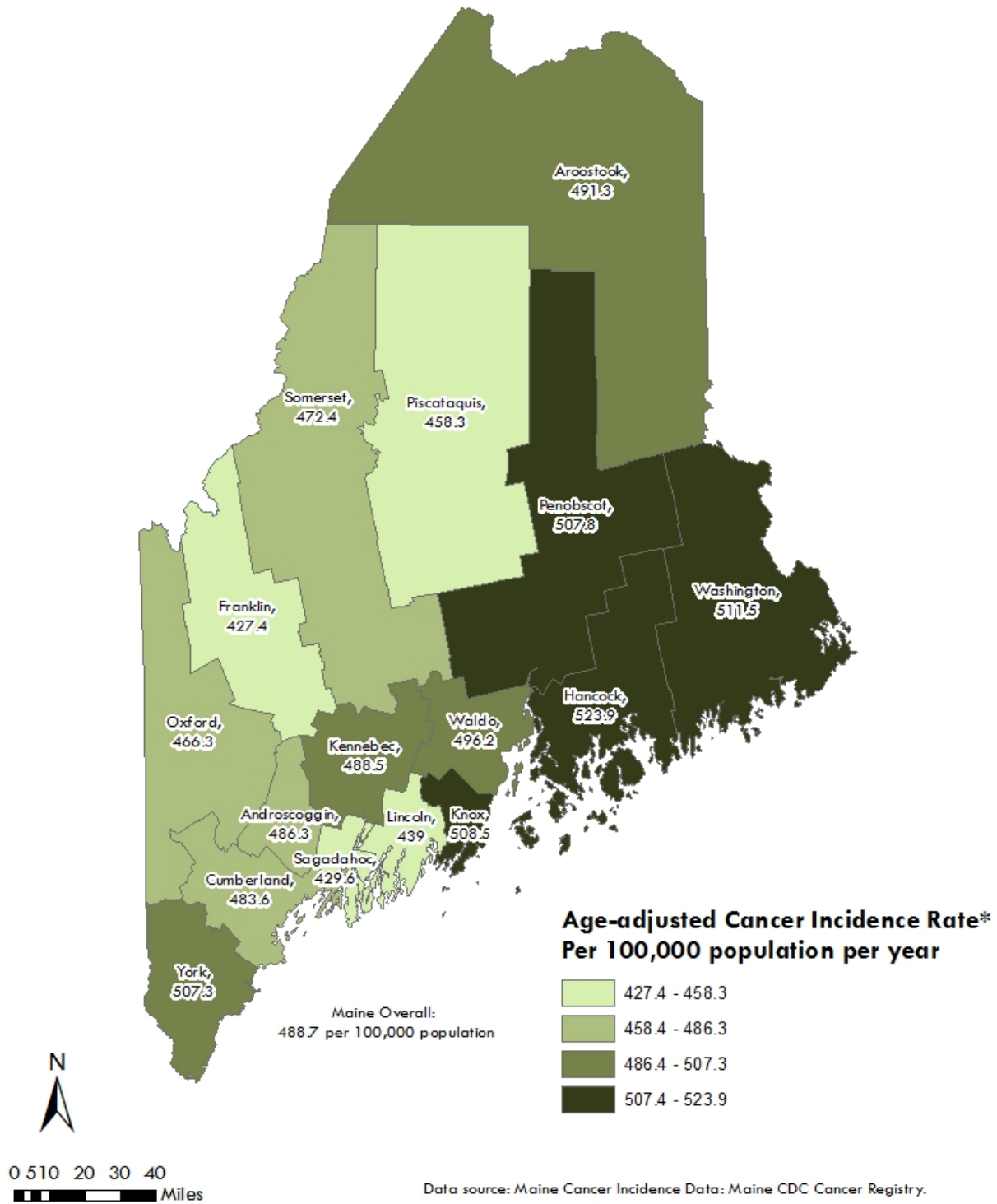
- Data Source: Maine Incidence: Maine CDC Cancer Registry, 1995-2011 NPCR-CSS submission

Notes:

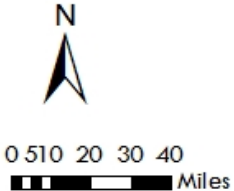
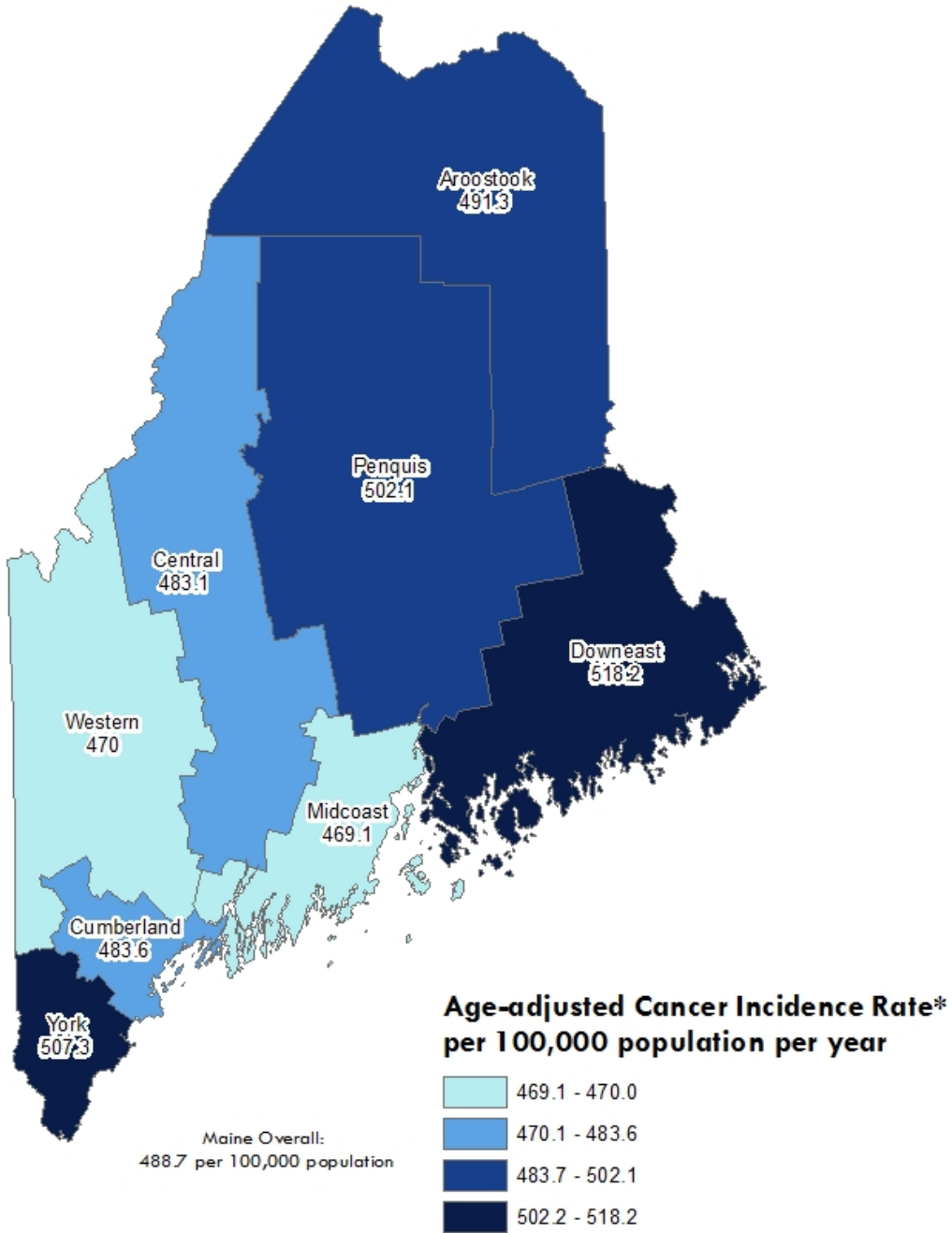
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population

# CANCER INCIDENCE MAPS

## Cancer Incidence Rate for All Sites Combined by County, Maine, 2009-2011



# Cancer Incidence Rate for All Sites Combined by Public Health District, Maine, 2009-2011



Data source: Maine Cancer Incidence Data: Maine CDC Cancer Registry.

Note: \*Incidence rates are age-adjusted to 2000 U.S. Standard population.

# CANCER RELATED MORTALITY

## MORTALITY: STATE AND NATIONAL COMPARISONS

## Age-adjusted Cancer Mortality Rate by Site, Maine 2011

	Total			
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	181.7 (175.3 - 188.2)	3,201	168.5 (168.0 - 168.9)	168.7 (168.3 - 169.1)
Lung and Bronchus	51.8 (48.4 - 55.3)	920	46.7 (46.5 - 47.0)	46.0 (45.8 - 46.2)
Tobacco-related, excl. Lung	37.9 (35.1 - 41.0)	677	34.1 (33.9 - 34.3)	34.3 (34.1 - 34.5)
Colon and Rectum	15.0 (13.2 - 17.0)	259	14.6 (14.5 - 14.8)	15.1 (15.0 - 15.2)
Breast	See page 28 for gender specific rates			
Prostate	See page 29 for gender specific rates			
Pancreas	11.8 (10.2 - 13.5)	210	10.8 (10.7 - 10.9)	10.9 (10.8 - 11.0)
Leukemia	7.8 (6.5 - 9.3)	132	7.2 (7.1 - 7.3)	6.9 (6.9 - 7.0)
Non-Hodgkin Lymphoma	7.2 (6 - 8.6)	123	6.3 (6.2 - 6.4)	6.0 (5.9 - 6.1)
Urinary Bladder	6.4 (5.3 - 7.7)	113	4.6 (4.6 - 4.7)	4.4 (4.4 - 4.5)
Esophagus	5.5 (4.5 - 6.8)	98	4.3 (4.3 - 4.4)	4.2 (4.1 - 4.2)
Brain and Other Nervous System	4.8 (3.8 - 6.0)	81	4.6 (4.6 - 4.7)	4.3 (4.2 - 4.3)
Liver & Intrahepatic Bile Duct	4.3 (3.4 - 5.5)	77	5.7 (5.6 - 5.8)	6.1 (6.0 - 6.2)
Kidney and Renal Pelvis	4.2 (3.3 - 5.3)	74	4.0 (4.0 - 4.1)	3.9 (3.9 - 4.0)
Myeloma	3.0 (2.2 - 3.9)	54	3.2 (3.1 - 3.2)	3.4 (3.3 - 3.4)
Oral Cavity and Pharynx	2.9 (2.1 - 3.8)	53	2.4 (2.4 - 2.5)	2.5 (2.4 - 2.5)
Melanoma of the skin	2.8 (2.1 - 3.7)	49	3.1 (3.0 - 3.2)	2.7 (2.6 - 2.7)
Stomach	2.1 (1.5 - 2.9)	39	2.8 (2.8 - 2.9)	3.3 (3.2 - 3.3)
Larynx	1.5 (1.0 - 2.2)	29	1.0 (1.0 - 1.0)	1.1 (1.0 - 1.1)
Thyroid Cancer	0.6 (0.3 - 1.1)	10	0.5 (0.5 - 0.5)	0.5 (0.5 - 0.5)
Hodgkin Lymphoma	~	~	0.4 (0.3 - 0.4)	0.4 (0.3 - 0.4)
Ovary	See page 29 for gender specific rates			
Corpus Uteri	See page 29 for gender specific rates			
Cervix Uteri	See page 29 for gender specific rates			
Testis	See page 28 for gender specific rates			

## Notes:

- A shaded cell indicates that Maine rate is significantly higher than U.S. White rate
- Mortality case definitions are based on ICD-10 codes (See Appendix 3)
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Excl. = Excluding
- Tobacco-related cancers, excl. lung = laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical cancers, and acute myeloid leukemia
- ~ Rates and counts are suppressed due to fewer than 10 cases


## Data Sources:

- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2011)

## Age-adjusted Cancer Mortality Rates by Site, Maine 2011

	Male			
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	222 (211.3 - 233.0)	1,704	203.2 (202.4 - 204.0)	204.3 (203.5 - 205.0)
Lung and Bronchus	64.9 (59.3 - 71.0)	515	57.8 (57.4 - 58.2)	57.9 (57.5 - 58.3)
Tobacco-related, excl. Lung	55.2 (50.0 - 60.8)	436	47.3 (46.9 - 47.7)	47.1 (46.7 - 47.4)
Prostate	19.7 (16.5 - 23.3)	140	19.2 (19.0 - 19.5)	20.8 (20.5 - 21.0)
Colon and Rectum	17.2 (14.2 - 20.5)	127	17.5 (17.3 - 17.7)	18.1 (17.8 - 18.3)
Pancreas	12.3 (9.9 - 15.1)	97	12.5 (12.3 - 12.7)	12.5 (12.3 - 12.7)
Esophagus	10.3 (8.2 - 12.9)	83	7.8 (7.6 - 7.9)	7.4 (7.3 - 7.6)
Urinary Bladder	11.1 (8.8 - 13.8)	82	8.1 (7.9 - 8.2)	7.6 (7.5 - 7.8)
Leukemia	10.1 (7.9 - 12.7)	74	9.6 (9.4 - 9.8)	9.3 (9.1 - 9.4)
Non-Hodgkin Lymphoma	8.9 (6.8 - 11.4)	63	8.2 (8.0 - 8.3)	7.8 (7.7 - 8.0)
Liver Intrahepatic Bile Duct	6.5 (4.8 - 8.6)	52	8.3 (8.2 - 8.5)	9.0 (8.9 - 9.2)
Brain and Other Nervous System	6.3 (4.6 - 8.4)	50	5.7 (5.5 - 5.8)	5.2 (5.1 - 5.3)
Kidney and Renal Pelvis	6.3 (4.6 - 8.4)	50	5.9 (5.7 - 6.0)	5.7 (5.6 - 5.8)
Oral Cavity and Pharynx	4.5 (3.1 - 6.3)	38	3.7 (3.6 - 3.8)	3.9 (3.8 - 4.0)
Melanoma of the skin	4.5 (3.1 - 6.3)	34	4.6 (4.5 - 4.7)	4.0 (3.9 - 4.1)
Myeloma	4.2 (2.9 - 6.1)	32	4.1 (4.0 - 4.2)	4.3 (4.2 - 4.4)
Larynx	3.2 (2.1 - 4.7)	28	1.8 (1.7 - 1.8)	1.9 (1.8 - 2.0)
Stomach	3.1 (2.0 - 4.7)	25	3.9 (3.8 - 4.0)	4.4 (4.3 - 4.5)
Breast	~	~	0.3 (0.3 - 0.3)	0.3 (0.3 - 0.3)
Hodgkin Lymphoma	~	~	0.5 (0.4 - 0.5)	0.5 (0.4 - 0.5)
Testis	~	~	0.3 (0.3 - 0.3)	0.3 (0.2 - 0.3)
Thyroid	~	~	0.5 (0.5 - 0.6)	0.5 (0.5 - 0.6)

## Notes:

-  A shaded cell indicates that Maine rate is significantly higher than U.S. White rate
- Mortality case definitions are based on ICD-10 codes (See Appendix 3)
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Excl. = Excluding
- Tobacco-related cancers, excl. lung = laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical cancers, and acute myeloid leukemia
- ~ Rates and counts are suppressed due to fewer than 10 cases

## Data Sources:


- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2011)



## Age-adjusted Cancer Mortality Rates by Site, Maine 2011

	Female			
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	152.4 (144.6 - 160.6)	1,497	143.4 (142.8 - 144.0)	143.5 (142.9 - 144.0)
Lung and Bronchus	41.7 (37.7 - 46.1)	405	38.2 (37.9 - 38.5)	37.0 (36.7 - 37.3)
Tobacco-related, excl. Lung	24.0 (21.0 - 27.4)	241	23.9 (23.6 - 24.1)	24.5 (24.2 - 24.7)
Breast	16.9 (14.4 - 19.9)	163	20.9 (20.7 - 21.2)	21.5 (21.3 - 21.8)
Colon and Rectum	13.2 (11.0 - 15.8)	132	12.3 (12.1 - 12.5)	12.8 (12.6 - 12.9)
Pancreas	11.1 (9.1 - 13.5)	113	9.4 (9.2 - 9.5)	9.5 (9.4 - 9.7)
Ovary	7.6 (5.9 - 9.6)	74	7.8 (7.7 - 8.0)	7.5 (7.4 - 7.7)
Corpus Uteri	6.0 (4.5 - 7.8)	60	4.1 (4.0 - 4.2)	4.5 (4.4 - 4.6)
Non-Hodgkin Lymphoma	6.1 (4.6 - 7.9)	60	4.8 (4.7 - 4.9)	4.6 (4.5 - 4.7)
Leukemia	5.7 (4.3 - 7.6)	58	5.4 (5.3 - 5.5)	5.2 (5.1 - 5.3)
Brain and Other Nervous System	3.4 (2.2 - 4.9)	31	3.8 (3.7 - 3.9)	3.4 (3.4 - 3.5)
Urinary Bladder	3.1 (2.1 - 4.5)	31	2.2 (2.2 - 2.3)	2.2 (2.2 - 2.3)
Liver & Intrahepatic Bile Duct	2.6 (1.7 - 4.0)	25	3.4 (3.3 - 3.5)	3.6 (3.6 - 3.7)
Kidney and Renal Pelvis	2.6 (1.6 - 3.9)	24	2.6 (2.5 - 2.7)	2.5 (2.5 - 2.6)
Myeloma	2.0 (1.3 - 3.2)	22	2.5 (2.4 - 2.6)	2.7 (2.6 - 2.8)
Esophagus	1.5 (0.8 - 2.6)	15	1.5 (1.5 - 1.6)	1.5 (1.5 - 1.6)
Melanoma of the skin	1.5 (0.8 - 2.6)	15	1.9 (1.9 - 2.0)	1.7 (1.6 - 1.7)
Oral Cavity and Pharynx	1.4 (0.8 - 2.5)	15	1.3 (1.2 - 1.4)	1.3 (1.3 - 1.4)
Stomach	1.3 (0.7 - 2.2)	14	2.0 (2.0 - 2.1)	2.3 (2.3 - 2.4)
Cervix Uteri	~	~	2.1 (2.1 - 2.2)	2.3 (2.3 - 2.4)
Hodgkin Lymphoma	~	~	0.3 (0.3 - 0.3)	0.3 (0.2 - 0.3)
Larynx	~	~	0.4 (0.4 - 0.4)	0.4 (0.4 - 0.4)
Thyroid	~	~	0.5 (0.4 - 0.5)	0.5 (0.5 - 0.5)

## Notes:

-  A shaded cell indicates that Maine rate is significantly higher than U.S. White rate
- Mortality case definitions are based on ICD-10 codes (See Appendix 3)
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Excl. = Excluding
- Tobacco-related cancers, excl. lung = laryngeal, oral cavity and pharynx, esophageal, stomach, pancreatic, kidney and renal pelvis, urinary bladder, cervical cancers, and acute myeloid leukemia
- ~ Rates and counts are suppressed due to fewer than 10 cases

## Data Sources:

- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2011)

All Cancers: Mortality by County of Residence, Maine 2007-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	195.5 (184.7 - 206.9)	246	244.6 (225.8 - 264.5)	131	161.3 (148.1 - 175.4)	115
Aroostook	197.5 (185.5 - 210.2)	208	238.5 (218.5 - 259.9)	111	168.3 (153.2 - 184.7)	97
Cumberland	174.9 (168.5 - 181.5)	586	220.1 (208.9 - 231.7)	302	146.4 (138.6 - 154.5)	284
Franklin	182.9 (164.1 - 203.4)	72	222.1 (190.7 - 257.4)	38	155.9 (132.7 - 182.5)	33
Hancock	171.4 (158.6 - 185.3)	135	202.5 (181.2 - 225.8)	69	152.3 (135.9 - 170.3)	66
Kennebec	199.4 (189.4 - 209.8)	305	237.1 (220.5 - 254.5)	159	173.8 (161.2 - 187.3)	146
Knox	173.8 (159.1 - 189.6)	108	222.1 (197.2 - 249.6)	60	138.1 (120.6 - 158.0)	48
Lincoln	167.8 (152.7 - 184.3)	95	201.2 (176.6 - 228.8)	50	146.6 (127.3 - 168.6)	45
Oxford	196.4 (182.7 - 211.1)	154	246.9 (223.6 - 272.1)	86	160.2 (143.5 - 178.7)	68
Penobscot	189.4 (180.5 - 198.7)	342	231.9 (216.7 - 247.8)	182	159.3 (148.3 - 170.9)	161
Piscataquis	197.4 (173.8 - 223.8)	53	234.6 (196.7 - 278.7)	29	164.9 (136.3 - 199.0)	24
Sagadahoc	166.8 (150.1 - 185.0)	75	189.0 (162.0 - 219.2)	37	152.7 (131.3 - 176.9)	38
Somerset	204.9 (189.7 - 221.0)	138	250.9 (225.6 - 278.3)	76	168.1 (149.7 - 188.3)	63
Waldo	189.2 (172.1 - 207.6)	94	216.1 (188.3 - 246.9)	47	171.6 (150.0 - 195.9)	47
Washington	210.5 (192.5 - 230.0)	104	269.0 (238.3 - 302.9)	59	166.5 (144.9 - 190.8)	46
York	178.9 (171.5 - 186.7)	443	220.9 (208.2 - 234.2)	235	150.0 (140.9 - 159.6)	208
Maine	185.5 (182.6 - 188.5)	3,157	227.7 (222.8 - 232.8)	1,669	156.5 (152.9 - 160.1)	1,489

All Cancers: Mortality by Public Health District of Residence, Maine 2007-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	197.5 (185.5 - 210.2)	208	238.5 (218.5 - 259.9)	111	168.3 (153.2 - 184.7)	97
Central	200.8 (192.4 - 209.5)	443	241.2 (227.3 - 255.8)	234	171.8 (161.4 - 182.9)	209
Cumberland	174.9 (168.5 - 181.5)	586	220.1 (208.9 - 231.7)	302	146.4 (138.6 - 154.5)	284
Downeast	186.1 (175.5 - 197.2)	239	228.2 (210.4 - 247.2)	128	156.9 (143.8 - 171.0)	111
Midcoast	174.2 (166.3 - 182.5)	372	207.8 (194.7 - 221.7)	194	151.3 (141.2 - 161.9)	178
Penquis	190.4 (182.0 - 199.1)	395	231.9 (217.8 - 246.6)	211	160.1 (149.8 - 171.0)	185
Western	193.4 (185.6 - 201.5)	471	240.9 (227.5 - 254.8)	255	160.2 (150.6 - 170.2)	216
York	178.9 (171.5 - 186.7)	443	220.9 (208.2 - 234.2)	235	150.0 (140.9 - 159.6)	208
Maine	185.5 (182.6 - 188.5)	3,157	227.7 (222.8 - 232.8)	1,669	156.5 (152.9 - 160.1)	1,489

Notes:

- A shaded cell indicates that County/District rate is significantly higher than Maine rate
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count

Data Sources:

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2011)

## Lung Cancer: Mortality by County of Residence, Maine 2007-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	61.1 (55.0 - 67.6)	77	74.2 (64.3 - 85.2)	42	50.0 (42.8 - 58.1)	35
Aroostook	60.6 (54.2 - 67.8)	65	80.4 (69.3 - 93.0)	39	45.4 (37.9 - 54.3)	26
Cumberland	50.7 (47.2 - 54.3)	167	66.1 (60.0 - 72.6)	91	40.4 (36.3 - 44.8)	76
Franklin	55.6 (45.6 - 67.3)	22	69.9 (53.4 - 90.3)	13	43.6 (32.0 - 58.6)	10
Hancock	48.0 (41.3 - 55.7)	37	48.9 (39.0 - 60.9)	17	47.8 (38.7 - 58.7)	20
Kennebec	56.6 (51.3 - 62.3)	86	66.4 (57.9 - 75.9)	45	49.2 (42.7 - 56.6)	41
Knox	48.4 (40.8 - 57.3)	30	67.0 (53.8 - 83.0)	18	34.2 (25.7 - 45.3)	11
Lincoln	45.0 (37.4 - 53.9)	26	56.7 (44.1 - 72.3)	14	37.6 (28.4 - 49.8)	12
Oxford	59.2 (51.8 - 67.5)	47	75.5 (63.0 - 89.9)	27	47.1 (38.2 - 57.7)	20
Penobscot	61.2 (56.2 - 66.6)	111	75.9 (67.5 - 85.1)	61	50.2 (44.1 - 57.0)	50
Piscataquis	51.0 (39.4 - 65.6)	14	72.5 (52.9 - 98.3)	9	30.9 (18.8 - 49.3)	4
Sagadahoc	52.6 (43.4 - 63.3)	24	56.1 (42.2 - 73.5)	11	50.4 (38.4 - 65.3)	12
Somerset	57.6 (49.8 - 66.5)	40	78.8 (65.1 - 94.6)	24	40.7 (32.0 - 51.4)	15
Waldo	54.1 (45.2 - 64.4)	27	57.2 (43.8 - 73.6)	13	51.6 (39.9 - 66.0)	14
Washington	61.8 (52.4 - 72.7)	31	77.9 (62.2 - 96.9)	18	49.1 (37.9 - 63.4)	13
York	49.4 (45.5 - 53.5)	122	59.9 (53.4 - 66.9)	65	41.9 (37.1 - 47.1)	57
Maine	54.3 (52.8 - 55.9)	927	67.6 (65.0 - 70.4)	509	44.5 (42.5 - 46.4)	417

## Lung Cancer: Mortality by Public Health District of Residence, Maine 2007-2011

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	60.6 (54.2 - 67.8)	65	80.4 (69.3 - 93.0)	39	45.4 (37.9 - 54.3)	26
Central	56.8 (52.4 - 61.5)	126	70.1 (62.8 - 78.0)	70	46.6 (41.2 - 52.5)	56
Cumberland	50.7 (47.2 - 54.3)	167	66.1 (60.0 - 72.6)	91	40.4 (36.3 - 44.8)	76
Downeast	53.2 (47.7 - 59.4)	69	60.2 (51.4 - 70.1)	35	48.1 (40.9 - 56.3)	33
Midcoast	49.9 (45.6 - 54.4)	106	59.8 (52.9 - 67.4)	57	42.9 (37.6 - 48.9)	49
Penquis	59.7 (55.1 - 64.7)	125	75.3 (67.5 - 83.7)	71	47.7 (42.1 - 53.8)	54
Western	59.3 (55.1 - 63.9)	146	73.6 (66.5 - 81.4)	82	48.0 (42.9 - 53.7)	64
York	49.4 (45.5 - 53.5)	122	59.9 (53.4 - 66.9)	65	41.9 (37.1 - 47.1)	57
Maine	54.3 (52.8 - 55.9)	927	67.6 (65.0 - 70.4)	509	44.5 (42.5 - 46.4)	417

## Notes:

- A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Mortality case definitions are based on ICD-10 codes (See Appendix 3)
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count

## Data Sources:

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2011)


**Tobacco-related Cancers, Excl. Lung: Mortality by County of Residence, Maine 2007-2011**

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	42.8 (37.8 - 48.3)	54	60.1 (51.0 - 70.4)	32	28.7 (23.5 - 35.0)	21
Aroostook	38.6 (33.3 - 44.5)	40	56.2 (46.8 - 67.2)	26	24.4 (18.9 - 31.3)	14
Cumberland	35.4 (32.6 - 38.4)	119	52.0 (46.7 - 57.7)	73	23.6 (20.5 - 26.9)	46
Franklin	31.9 (24.5 - 41.0)	13	38.8 (26.6 - 54.8)	7	27.0 (18.0 - 39.6)	6
Hancock	31.0 (25.7 - 37.3)	24	49.2 (38.9 - 61.6)	17	17.2 (12.2 - 24.2)	8
Kennebec	41.1 (36.6 - 46.0)	63	58.7 (50.7 - 67.6)	41	27.4 (22.5 - 33.2)	23
Knox	38.4 (31.7 - 46.5)	23	61.8 (49.0 - 77.3)	17	19.0 (13.0 - 27.4)	7
Lincoln	32.6 (26.3 - 40.4)	19	40.3 (29.9 - 53.6)	10	26.3 (18.7 - 36.7)	8
Oxford	44.9 (38.4 - 52.2)	35	67.8 (56.1 - 81.5)	24	26.5 (19.9 - 35.0)	11
Penobscot	33.8 (30.1 - 37.9)	61	46.0 (39.4 - 53.4)	36	24.3 (20.2 - 29.1)	25
Piscataquis	40.5 (30.3 - 53.7)	11	59.0 (40.9 - 83.5)	7	25.7 (15.2 - 42.5)	4
Sagadahoc	30.6 (23.6 - 39.1)	14	40.0 (28.2 - 55.2)	8	22.8 (15.1 - 33.7)	6
Somerset	44.5 (37.5 - 52.4)	30	59.8 (48.1 - 73.7)	19	30.7 (23.1 - 40.4)	11
Waldo	32.5 (25.8 - 40.6)	17	47.9 (35.6 - 63.4)	11	20.2 (13.5 - 29.5)	6
Washington	46.3 (38.1 - 56.0)	23	65.9 (51.5 - 83.6)	15	29.6 (21.0 - 41.3)	8
York	37.0 (33.7 - 40.6)	92	54.3 (48.1 - 61.0)	59	23.6 (20.1 - 27.6)	33
Maine	37.4 (36.1 - 38.7)	639	53.7 (51.3 - 56.2)	402	24.6 (23.2 - 26.1)	237

**Tobacco-related Cancers, Excl. Lung: Mortality by Public Health District of Residence, Maine 2007-2011**

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	38.6 (33.3 - 44.5)	40	56.2 (46.8 - 67.2)	26	24.4 (18.9 - 31.3)	14
Central	42.2 (38.4 - 46.3)	93	59.2 (52.5 - 66.6)	59	28.4 (24.2 - 33.2)	34
Cumberland	35.4 (32.6 - 38.4)	119	52.0 (46.7 - 57.7)	73	23.6 (20.5 - 26.9)	46
Downeast	36.7 (32.1 - 41.9)	48	55.5 (46.9 - 65.3)	32	21.8 (17.2 - 27.5)	16
Midcoast	33.8 (30.3 - 37.5)	73	47.9 (41.8 - 54.8)	46	22.0 (18.3 - 26.2)	27
Penquis	34.8 (31.2 - 38.6)	72	47.8 (41.5 - 54.7)	44	24.6 (20.7 - 29.1)	28
Western	41.7 (38.1 - 45.5)	102	59.0 (52.5 - 66.0)	63	27.9 (24.1 - 32.3)	38
York	37.0 (33.7 - 40.6)	92	54.3 (48.1 - 61.0)	59	23.6 (20.1 - 27.6)	33
Maine	37.4 (36.1 - 38.7)	639	53.7 (51.3 - 56.2)	402	24.6 (23.2 - 26.1)	237

**Notes:**

-  A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Mortality case definitions are based on ICD-10 codes (See Appendix 3)
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: Excl. = Excluding; AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count

**Data Sources:**

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2011)


**Prostate Cancer: Mortality by County of Residence, Maine 2007-2011**

**Prostate Cancer: Mortality by Public Health District of Residence, Maine 2007-2011**

	Male	
	AA Rate (95% CI)	Count/Yr
Androscoggin	20.7 (15.3 - 27.3)	10
Aroostook	17.4 (12.0 - 24.5)	7
Cumberland	23.2 (19.6 - 27.3)	29
Franklin	18.6 (10.1 - 31.5)	3
Hancock	30.7 (22.4 - 41.1)	9
Kennebec	27.0 (21.4 - 33.6)	16
Knox	22.0 (14.7 - 32.1)	6
Lincoln	18.7 (11.7 - 29.0)	4
Oxford	17.4 (11.4 - 25.6)	5
Penobscot	*	*
Piscataquis	~	~
Sagadahoc	23.8 (14.4 - 36.9)	4
Somerset	23.6 (16.0 - 33.6)	6
Waldo	21.2 (12.9 - 32.9)	4
Washington	29.1 (19.5 - 42.2)	6
York	19.8 (15.9 - 24.3)	18
Maine	22.1 (20.5 - 23.7)	146

	Male	
	AA Rate (95% CI)	Count/Yr
Aroostook	17.4 (12.0 - 24.5)	7
Central	26.2 (21.5 - 31.5)	23
Cumberland	23.2 (19.6 - 27.3)	29
Downeast	30.1 (23.6 - 37.8)	15
Midcoast	21.4 (17.2 - 26.4)	18
Penquis	20.3 (16.1 - 25.2)	17
Western	19.1 (15.4 - 23.5)	18
York	19.8 (15.9 - 24.3)	18
Maine	22.1 (20.5 - 23.7)	146

**Notes:**

-  A shaded cell indicates that a County/District rate is significantly higher than Maine rate
- Mortality case definitions are based on ICD-10 codes (See Appendix 3)
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count
- ~ Rates and counts are suppressed due to fewer than 10 cases,
- \* Rates and counts are suppressed due to r complementary suppression

**Data Sources:**

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2011)


**Female Breast Cancer: Mortality by County of Residence, Maine 2007-2011**

	Female	
	AA Rate (95% CI)	Count/Yr
Androscoggin	19.4 (15.0 - 24.9)	13
Aroostook	24.2 (18.4 - 31.4)	13
Cumberland	19.7 (16.9 - 22.8)	38
Franklin	18.0 (10.4 - 29.3)	4
Hancock	19.9 (14.2 - 27.5)	8
Kennebec	22.1 (17.7 - 27.4)	18
Knox	24.1 (16.9 - 33.8)	8
Lincoln	14.2 (8.7 - 22.7)	4
Oxford	22.4 (16.5 - 30.1)	10
Penobscot	17.7 (14.1 - 21.9)	18
Piscataquis	20.1 (11.2 - 35.3)	3
Sagadahoc	19.1 (11.8 - 29.6)	4
Somerset	18.5 (12.8 - 26.1)	7
Waldo	22.0 (14.7 - 32.2)	6
Washington	23.8 (16.0 - 34.8)	6
York	19.0 (15.8 - 22.7)	26
<b>Maine</b>	<b>20.0 (18.7 - 21.4)</b>	<b>187</b>

**Female Breast Cancer: Mortality by Public Health District of Residence, Maine 2007-2011**

	Female	
	AA Rate (95% CI)	Count/Yr
Aroostook	24.2 (18.4 - 31.4)	13
Central	20.9 (17.3 - 25.1)	25
Cumberland	19.7 (16.9 - 22.8)	38
Downeast	21.4 (16.7 - 27.3)	15
Midcoast	20.1 (16.5 - 24.4)	23
Penquis	18.0 (14.6 - 22.0)	21
Western	20.0 (16.7 - 23.8)	27
York	19.0 (15.8 - 22.7)	26
<b>Maine</b>	<b>20.0 (18.7 - 21.4)</b>	<b>187</b>

**Notes:**

-  A shaded cell indicates that a County/District rate is significantly higher than Maine rate
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- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count

**Data Sources:**

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2011)

**Colorectal Cancer: Mortality by County of Residence, Maine 2007-2011**

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	15.0 (12.1 - 18.4)	19	21.7 (16.3 - 28.3)	11	10.9 (7.6 - 15.2)	7
Aroostook	20.0 (16.3 - 24.4)	21	20.0 (14.4 - 27.1)	9	19.6 (14.8 - 25.7)	12
Cumberland	15.3 (13.5 - 17.4)	52	18.5 (15.3 - 22.1)	25	13.1 (10.9 - 15.6)	26
Franklin	24.8 (18.1 - 33.4)	9	30.7 (19.6 - 46.0)	5	21.0 (12.9 - 32.9)	4
Hancock	13.0 (9.7 - 17.3)	10	13.1 (8.2 - 20.1)	5	13.0 (8.6 - 19.2)	6
Kennebec	18.1 (15.1 - 21.4)	27	20.7 (16.0 - 26.4)	14	16.1 (12.5 - 20.6)	14
Knox	11.7 (8.2 - 16.5)	8	14.0 (8.4 - 22.5)	4	10.2 (6.1 - 16.9)	4
Lincoln	13.1 (9.2 - 18.5)	8	19.1 (12.2 - 29.3)	5	8.1 (4.4 - 15.2)	3
Oxford	15.7 (12.0 - 20.4)	12	20.5 (14.2 - 28.8)	7	11.9 (7.7 - 18.0)	5
Penobscot	16.3 (13.7 - 19.2)	29	20 (15.7 - 25.1)	16	13.9 (10.8 - 17.8)	14
Piscataquis	17.7 (11.3 - 27.3)	5	22 (11.7 - 39.2)	3	13.8 (6.5 - 27.7)	2
Sagadahoc	13.1 (8.8 - 18.9)	6	11.9 (6.0 - 21.5)	2	13.8 (8.2 - 22.4)	4
Somerset	18.8 (14.3 - 24.2)	12	19.9 (13.2 - 28.9)	6	17.1 (11.7 - 24.5)	7
Waldo	18.2 (13.3 - 24.6)	9	23.4 (14.9 - 35.2)	5	14.4 (8.8 - 22.7)	4
Washington	14.9 (10.4 - 20.9)	7	22.3 (14.2 - 34.0)	5	9.2 (4.7 - 17.0)	3
York	15.8 (13.6 - 18.2)	39	18.4 (14.9 - 22.6)	19	13.7 (11.1 - 16.8)	20
Maine	16.1 (15.3 - 17.0)	274	19.4 (18.0 - 20.9)	140	13.7 (12.7 - 14.8)	134

**Colorectal Cancer: Mortality by Public Health District of Residence, Maine 2007-2011**

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	20.0 (16.3 - 24.4)	21	20.0 (14.4 - 27.1)	9	19.6 (14.8 - 25.7)	12
Central	18.2 (15.8 - 21.0)	40	20.5 (16.5 - 25.1)	19	16.3 (13.3 - 20)	20
Cumberland	15.3 (13.5 - 17.4)	52	18.5 (15.3 - 22.1)	25	13.1 (10.9 - 15.6)	26
Downeast	13.7 (11.0 - 17.0)	18	16.7 (12.2 - 22.5)	9	11.4 (8.1 - 15.7)	8
Midcoast	13.9 (11.7 - 16.4)	31	17.2 (13.6 - 21.6)	16	11.3 (8.8 - 14.5)	15
Penquis	16.5 (14.1 - 19.2)	34	20.4 (16.4 - 25.2)	18	13.9 (10.9 - 17.4)	16
Western	16.7 (14.4 - 19.2)	40	22.7 (18.7 - 27.4)	23	12.7 (10.1 - 15.8)	17
York	15.8 (13.6 - 18.2)	39	18.4 (14.9 - 22.6)	19	13.7 (11.1 - 16.8)	20
Maine	16.1 (15.3 - 17.0)	274	19.4 (18.0 - 20.9)	140	13.7 (12.7 - 14.8)	134

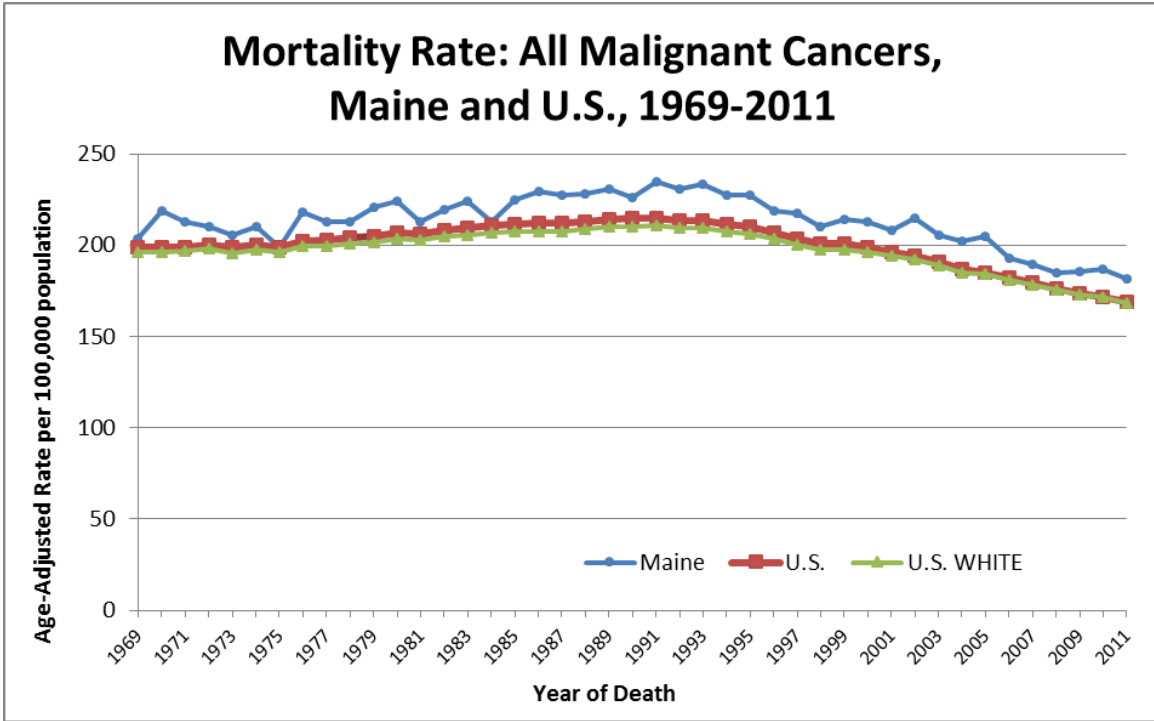
**Notes:**

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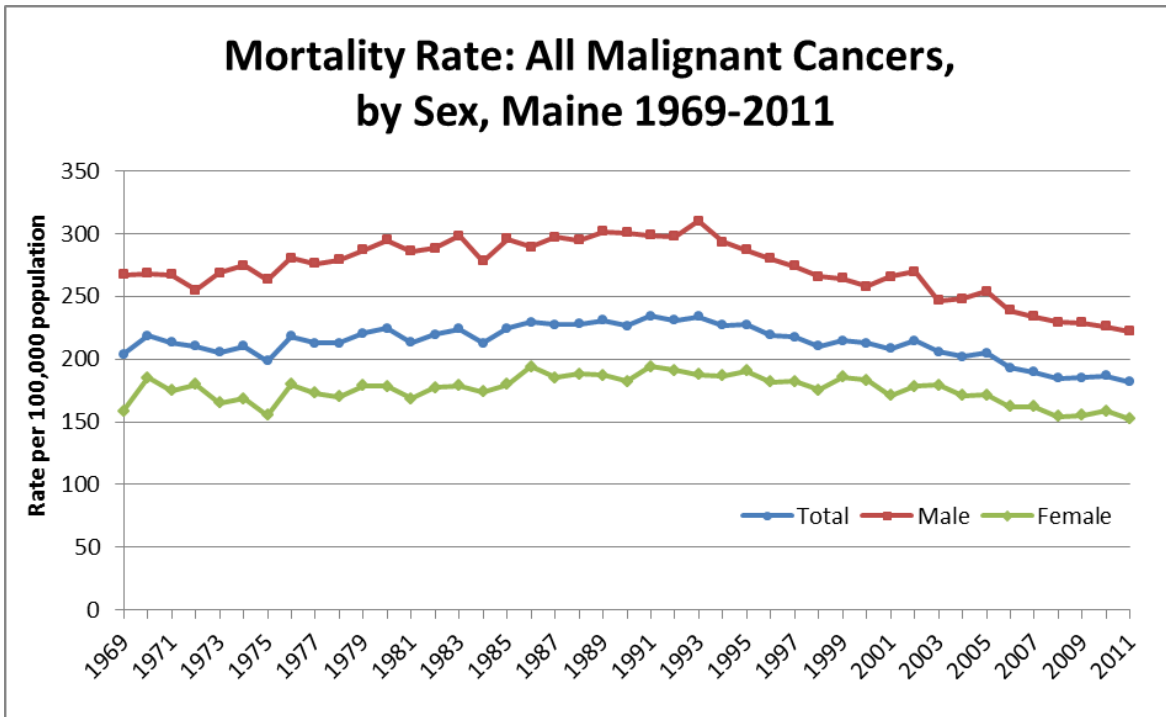
**Data Sources:**

- National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2011)

Age-adjusted Cancer Mortality Trend: All Malignant Cancers, U.S. and Maine 1969-2011



Age-adjusted Cancer Mortality Trend: All Malignant Cancers, Maine 1969-2011

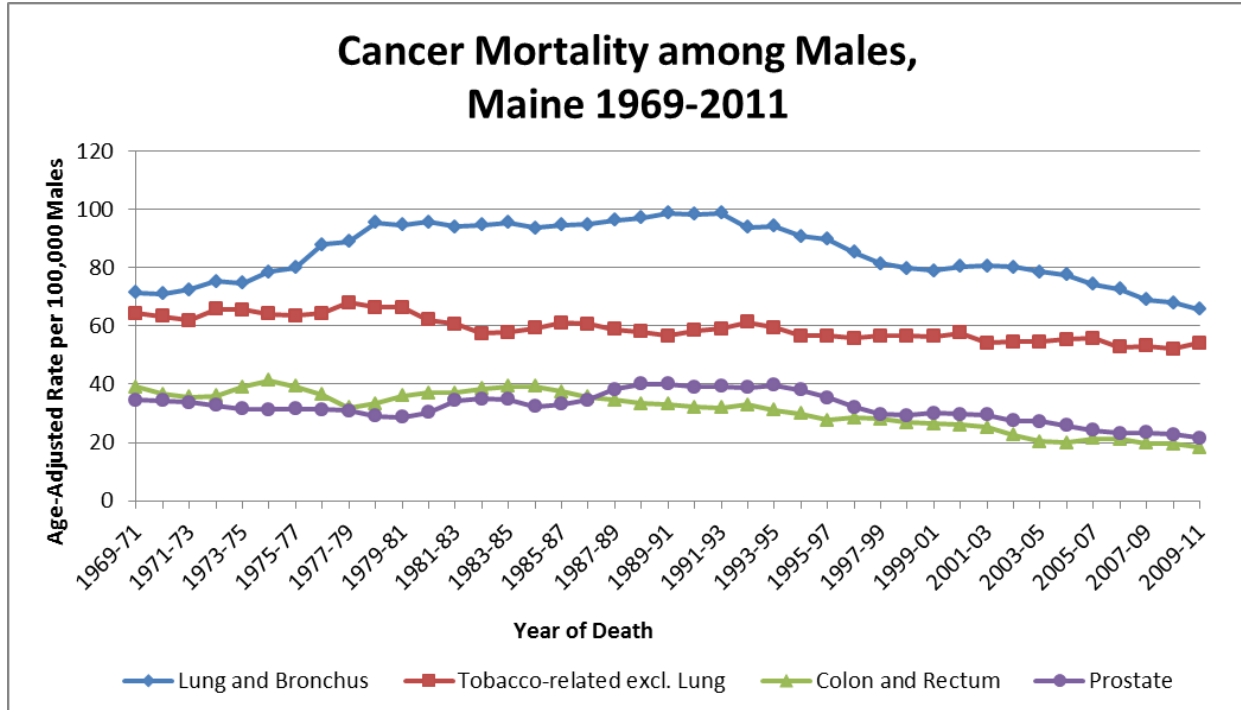


Data Source:

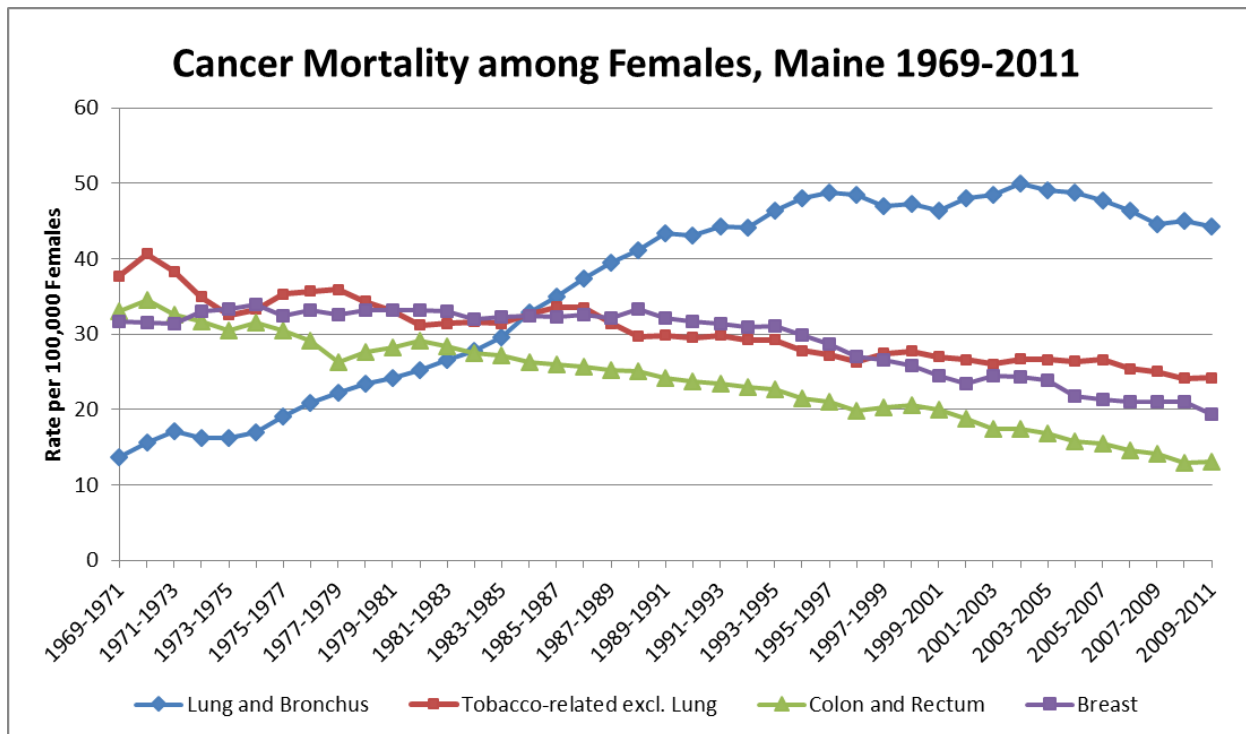
- National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2011)



Age-adjusted Cancer Mortality Trend: Top Causes of Cancer among Males, Maine 1969-2011



Age-adjusted Cancer Mortality Trend: Top Causes of Cancer among Females, Maine 1969-2011



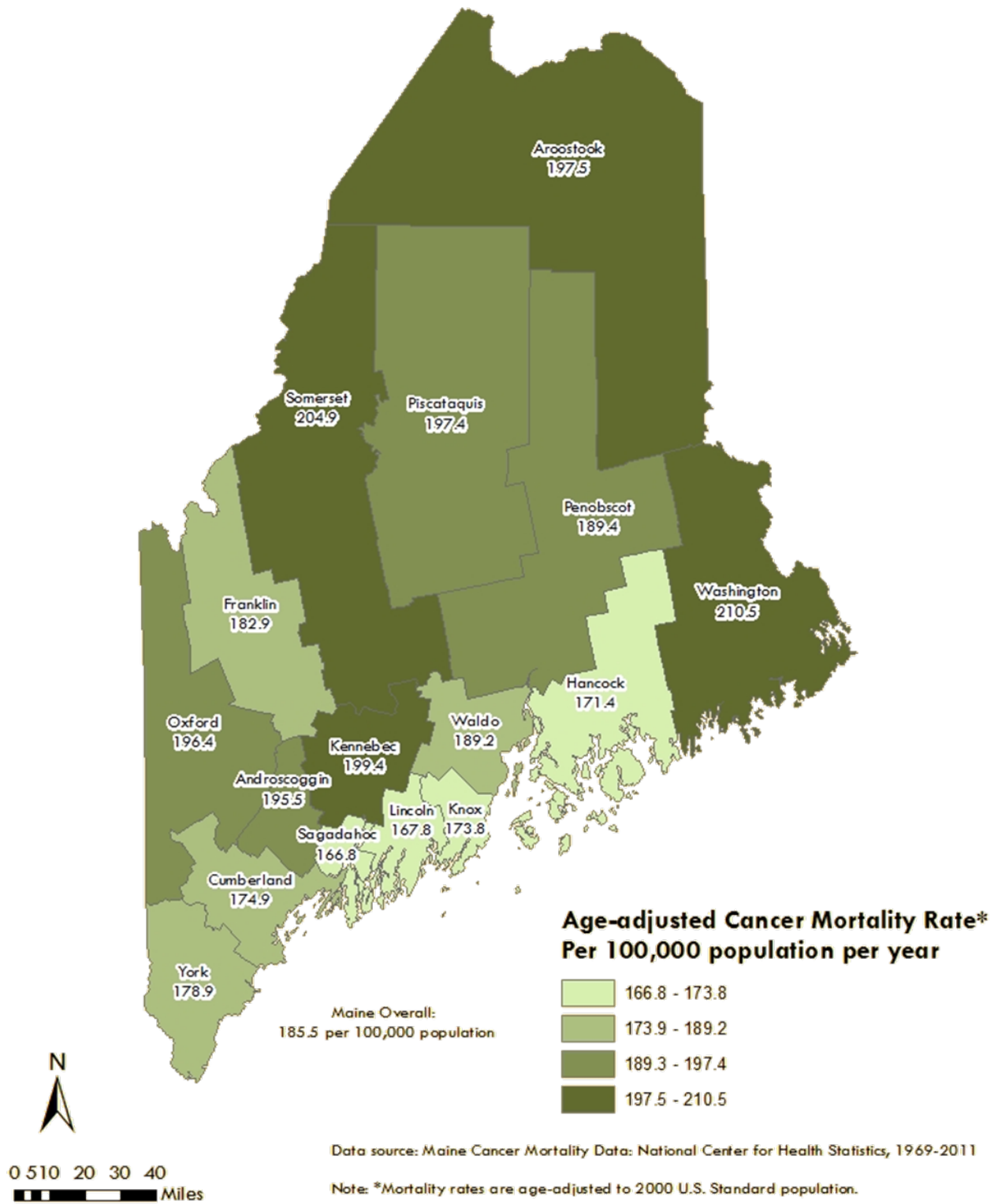
Data Source:

National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2011)

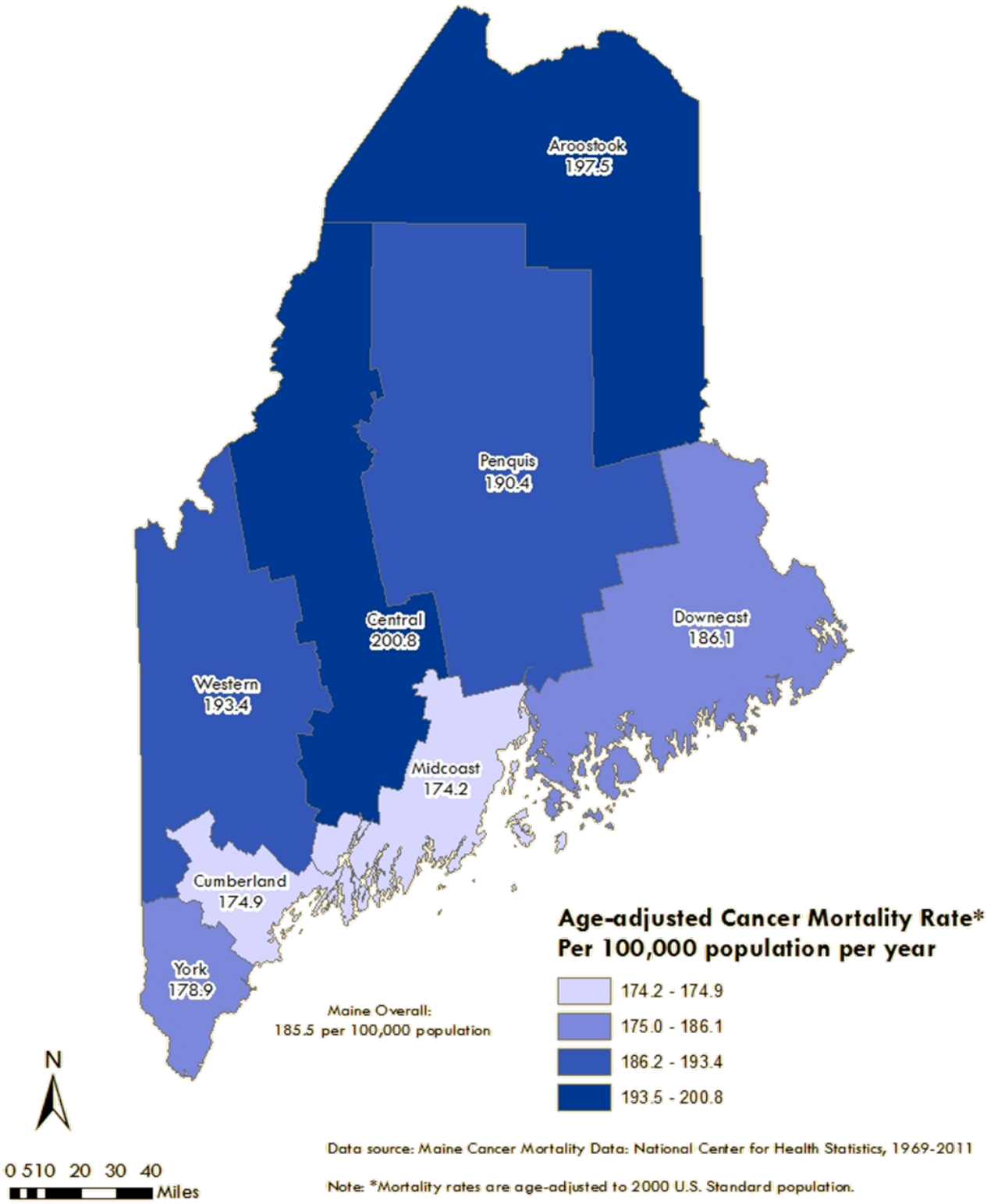
# CANCER MORTALITY MAPS



## Malignant Cancer Mortality Rate for All Cancer Sites Combined, by County, Maine, 2007-2011



### Malignant Cancer Mortality Rate for All Cancer Sites Combined, by Public Health District, Maine, 2007-2011



# APPENDIX 1

## INCIDENCE CASE DEFINITIONS

Incidence data are based on SEER site recode ICD-O-3/WHO 2008 definitions, version 2008. Available at [http://www.seer.cancer.gov/siterecode/icdo3\\_dwhoheme/index.html](http://www.seer.cancer.gov/siterecode/icdo3_dwhoheme/index.html).

### Site Recode ICD-O-3/WHO 2008 Definition\*<sup>A</sup>

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode	
<b>Oral Cavity and Pharynx</b>				
Lip	C000-C009	excluding 9050-9055, 9140, 9590-9992	20010	
Tongue	C019-C029		20020	
Salivary Gland	C079-C089		20030	
Floor of Mouth	C040-C049		20040	
Gum and Other Mouth	C030-C039, C050-C059, C060-C069		20050	
Nasopharynx	C110-C119		20060	
Tonsil	C090-C099		20070	
Oropharynx	C100-C109		20080	
Hypopharynx	C129, C130-C139		20090	
Other Oral Cavity and Pharynx	C140, C142-C148		20100	
<b>Digestive System</b>				
Esophagus	C150-C159		excluding 9050-9055, 9140, 9590-9992	21010
Stomach	C160-C169	21020		
Small Intestine	C170-C179	21030		
Colon and Rectum				
Colon excluding Rectum				
Cecum	C180	excluding 9050-9055, 9140, 9590-9992		21041
Appendix	C181			21042
Ascending Colon	C182			21043
Hepatic Flexure	C183			21044
Transverse Colon	C184			21045
Splenic Flexure	C185			21046
Descending Colon	C186			21047
Sigmoid Colon	C187		21048	
Large Intestine, NOS	C188-C189, C260		21049	
Rectum and Rectosigmoid Junction				
Rectosigmoid Junction	C199		excluding 9050-9055, 9140, 9590-9992	21051
Rectum	C209			21052
Anus, Anal Canal and Anorectum	C210-C212, C218	21060		
Liver and Intrahepatic Bile Duct				
Liver	C220	excluding 9050-9055, 9140, 9590-9992	21071	
Intrahepatic Bile Duct	C221		21072	
Gallbladder	C239		21080	
Other Biliary	C240-C249		21090	
Pancreas	C250-C259		21100	
Retroperitoneum	C480		21110	
Peritoneum, Omentum and Mesentery	C481-C482		21120	
Other Digestive Organs	C268-C269, C488		21130	
<b>Respiratory System</b>				
Nose, Nasal Cavity and Middle Ear	C300-C301, C310-C319		excluding 9050-9055, 9140, 9590-9992	22010
Larynx	C320-C329			22020
Lung and Bronchus	C340-C349			22030

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
Pleura	C384		22050
Trachea, Mediastinum and Other Respiratory Organs	C339, C381-C383, C388, C390, C398, C399		22060
<b>Bones and Joints</b>	C400-C419	excluding 9050-9055, 9140, 9590-9992	23000
<b>Soft Tissue including Heart</b>	C380, C470-C479, C490-C499	excluding 9050-9055, 9140, 9590-9992	24000
<b>Skin excluding Basal and Squamous</b>			
Melanoma of the Skin	C440-C449	8720-8790	25010
Other Non-Epithelial Skin	C440-C449	excluding 8000-8005, 8010-8046, 8050-8084, 8090-8110, 8720-8790, 9050-9055, 9140, 9590-9992	25020
<b>Breast</b>	C500-C509	excluding 9050-9055, 9140, 9590-9992	26000
<b>Female Genital System</b>			
Cervix Uteri	C530-C539	excluding 9050-9055, 9140, 9590-9992	27010
Corpus and Uterus, NOS			
Corpus Uteri	C540-C549	excluding 9050-9055, 9140, 9590-9992	27020
Uterus, NOS	C559		27030
Ovary	C569		27040
Vagina	C529		27050
Vulva	C510-C519		27060
Other Female Genital Organs	C570-C589		27070
<b>Male Genital System</b>			
Prostate	C619	excluding 9050-9055, 9140, 9590-9992	28010
Testis	C620-C629		28020
Penis	C600-C609		28030
Other Male Genital Organs	C630-C639		28040
<b>Urinary System</b>			
Urinary Bladder	C670-C679	excluding 9050-9055, 9140, 9590-9992	29010
Kidney and Renal Pelvis	C649, C659		29020
Ureter	C669		29030
Other Urinary Organs	C680-C689		29040
<b>Eye and Orbit</b>	C690-C699	excluding 9050-9055, 9140, 9590-9992	30000
<b>Brain and Other Nervous System</b>			
Brain	C710-C719	excluding 9050-9055, 9140, 9530-9539, 9590-9992	31010
Cranial Nerves Other Nervous System	C710-C719	9530-9539	31040
	C700-C709, C720-C729	excluding 9050-9055, 9140, 9590-9992	
<b>Endocrine System</b>			
Thyroid	C739	excluding 9050-9055, 9140, 9590-9992	32010
Other Endocrine including Thymus	C379, C740-C749, C750-C759		32020
<b>Lymphoma</b>			
Hodgkin Lymphoma			
Hodgkin - Nodal	C024, C098-C099, C111, C142, C379, C422, C770-C779	9650-9667	33011
Hodgkin - Extranodal	All other sites		33012
Non-Hodgkin Lymphoma			
NHL - Nodal	C024, C098, C099, C111, C142, C379, C422, C770-C779	9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737-9738, 9811-9818, 9823, 9827, 9837	33041
NHL - Extranodal	All sites except C024, C098-C099, C111, C142, C379, C422, C770-C779	9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737-9738	33042
	All sites except C024, C098-C099, C111, C142, C379, C420-C422, C424, C770-C779	9811-9818, 9823, 9827, 9837	

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Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
<b>Myeloma</b>		9731-9732, 9734	34000
<b>Leukemia</b>			
Lymphocytic Leukemia			
Acute Lymphocytic Leukemia		9826, 9835-9836	35011
	C420, C421, C424	9811-9818, 9837	
Chronic Lymphocytic Leukemia	C420, C421, C424	9823	35012
Other Lymphocytic Leukemia		9820, 9832-9834, 9940	35013
Myeloid and Monocytic Leukemia			
Acute Myeloid Leukemia		9840, 9861, 9865-9867, 9869, 9871-9874, 9895-9897, 9898, 9910-9911, 9920	35021
Acute Monocytic Leukemia		9891	35031
Chronic Myeloid Leukemia		9863, 9875-9876, 9945-9946	35022
Other Myeloid/Monocytic Leukemia		9860, 9930	35023
Other Leukemia			
Other Acute Leukemia		9801, 9805-9809, 9931	35041
Aleukemic, subleukemic and NOS		9733, 9742, 9800, 9831, 9870, 9948, 9963-9964	35043
	C420, C421, C424	9827	
<b>Mesothelioma</b>		9050-9055	36010
<b>Kaposi Sarcoma</b>		9140	36020
<b>Miscellaneous</b>		9740-9741, 9750-9769, 9950, 9960-9962, 9965-9967, 9970-9971, 9975, 9980, 9982-9987, 9989, 9991-9992	37000
	C760-C768, C809	excluding 9050-9055, 9140, 9590-9992	
	C420-C424		
	C770-C779		
<b>Invalid</b>	Site or histology code not within valid range or site code not found in this table.		99999

\* This table was updated for Hematopoietic codes based on WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008).

^ Subject to change based on evolving ICD-O-3 coding rules.



# APPENDIX 2

## INCIDENCE CASE DEFINITIONS

### Definitions of Groups of Cancers (HPV, Obesity, Tobacco)

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)
<b>HPV associated cancers*</b>		
Cervix	C530, C531, C538, C539	All carcinomas (8010-8671, 8940-8941)
Vagina	C529	Squamous cell carcinomas (8050-8084, 8120-8131)
Vulva	C510, C511, C512, C518, C519	Squamous cell carcinomas (8050-8084, 8120-8131)
Anus (including rectum)	C210, C211, C212, C218, C209	Squamous cell carcinomas (8050-8084, 8120-8131)
Penis	C600, C601, C602, C608, C609	Squamous cell carcinomas (8050-8084, 8120-8131)
Oral Cavity and Oropharynx (including base of tongue, tonsils, and other oropharynx)	C019, C024, C090, C091, C098, C099, C142, C028, C102, C108, C109, C140, C148	Squamous cell carcinomas (8050-8084, 8120-8131)
*HPV related sites as defined in: Watson M, Saraiya M, Ahmed F, et al. Using population-based cancer registry data to assess the burden of HPV-associated cancers in the United States: overview of methods. <i>Cancer</i> . 2008;113:2841–54. Accessed from <a href="http://onlinelibrary.wiley.com/doi/10.1002/cncr.23758/pdf">http://onlinelibrary.wiley.com/doi/10.1002/cncr.23758/pdf</a> .		
<b>Obesity related cancers</b>		
Colon and Rectum	C180, C181, C182, C183, C184, C185, C186, C187, C188-C189, C260, C199, C209	excluding 9050-9055, 9140, 9590-9992
Esophagus	C150-C159	Adenocarcinomas 8140-8149, 8160-8162, 8190-8221, 8260-8337, 8350-8551, 8570-8576, 8940-8941
Kidney and Renal Pelvis	C649, C659	excluding 9050-9055, 9140, 9590-9992
Pancreas,	C250-C259	excluding 9050-9055, 9140, 9590-9992
Corpus Uteri	C540-C549	excluding 9050-9055, 9140, 9590-9992
Breast (limited to post-menopausal and is defined as women age 50 years and older)	C500-C509	excluding 9050-9055, 9140, 9590-9992
<b>Tobacco related cancers</b>		
Laryngeal	C320-C329	excluding 9050-9055, 9140, 9590-9992
Oral Cavity and Pharynx	C000-C009, C019-C029, C079-C089, C040-C049, C030-C039, C050-C059, C060-C069, C110-C119, C090-C099, C100-C109, C129, C130-C139, C140, C142-C148	excluding 9050-9055, 9140, 9590-9992
Stomach	C160-C169	excluding 9050-9055, 9140, 9590-9992
Pancreas	C250-C259	excluding 9050-9055, 9140, 9590-9992
Kidney and Renal Pelvis	C649, C659	excluding 9050-9055, 9140, 9590-9992
Cervix Uteri	C530-C539	excluding 9050-9055, 9140, 9590-9992
Urinary Bladder	C670-C679	excluding 9050-9055, 9140, 9590-9992
Acute Myeloid Leukemia	Used recode 35021	9840, 9861, 9865-9867, 9869, 9871-9874, 9895-9897, 9898, 9910-9911, 9920

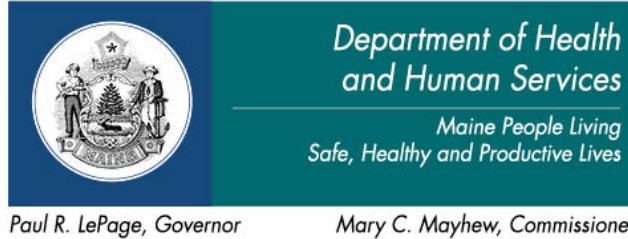
# APPENDIX 3

## MORTALITY CASE DEFINITIONS

SEER major site groupings of cause of death based on the International Classification of Diseases. ([http://seer.cancer.gov/codrecode/1969+\\_d04162012/index.html](http://seer.cancer.gov/codrecode/1969+_d04162012/index.html))

Site	ICD-10 Codes
All Sites	C00–C97
Brain and Other Nervous Systems	C70-C72
Breast	C50
Cervix Uteri	C53
Colon and Rectum	C18-C20, C26.0
Corpus Uterus	C54, C55
Esophagus	C15
Hodgkin Lymphoma	C81
Kidney and Renal Pelvis	C64-C65
Larynx	C32
Leukemia	C90.1, C91-C95
Liver & Intrahepatic Bile Duct	C22.0-C22.4, C22.7, C22.9
Lung and Bronchus	C34
Melanoma of the Skin	C43
Myeloma	C90.0, C90.2
Non-Hodgkin Lymphoma	C82-C85, C96.3
Oral Cavity and Pharynx	C00-C14
Ovary	C56
Pancreas	C25
Prostate	C61
Stomach	C16
Testis	C62
Thyroid	C73
Urinary Bladder	C67

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Paul R. LePage, Governor

Mary C. Mayhew, Commissioner