

# THE MAINE 2018 ANNUAL REPORT OF CANCER



## **Maine CDC Cancer Registry**

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**The Maine 2018 Annual Report of Cancer is based on 2015 cancer incidence and mortality.**

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## INTRODUCTION

The purpose of this report is to summarize data on newly diagnosed cases of cancer (cancer incidence) and deaths with cancer as an underlying cause (cancer mortality) among Maine residents. This report provides information on the most frequently diagnosed cancer types in Maine. Data are presented at the county and public health district levels for all cancer types combined, the top four cancers in Maine (female breast, prostate, lung and bronchus, and colon and rectum cancers) plus the following: tobacco-related cancers (excluding lung, bronchus, and trachea cancer), urinary bladder cancer, and brain and other nervous system cancer.

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

The Maine CDC Cancer Registry collects information on all cancer cases diagnosed in Maine according to State Law Title 22, Chapter 255. The Registry also receives data on Maine residents who have been diagnosed in other states from other state registries.

Cancer data in Maine are available approximately three years after the reporting period. The 2018 annual report is based on new cancer cases diagnosed in 2015 (cancer incidence) and cancer deaths occurring in 2015 (cancer mortality). This time-lag is consistent with reporting standards used throughout the U.S. to ensure high quality data. Reasons for this delay include the time it takes for a state cancer registry to:

- receive cancer cases from reporting sources including hospitals and pathology labs,
- follow up to ensure important information about the cancer is correct,
- consolidate state data, and
- carry out data quality checks.

Additional information and publications about cancer in Maine can be found at the websites of the Maine CDC Cancer Registry<sup>1</sup> and the Maine CDC Comprehensive Cancer Control Program<sup>2</sup>.

<sup>1</sup> Maine CDC Cancer Registry - List of Publications  
<http://www.maine.gov/dhhs/mecdc/public-health-systems/data-research/vital-records/mcr/reports/index.htm>

<sup>2</sup> Maine CDC Comprehensive Cancer Control Program  
<http://www.maine.gov/dhhs/mecdc/population-health/ccc/publications.shtml>

## SUMMARY OF FEATURES

This report contains the following data:

- Rates of new cancers and deaths in Maine residents by site (part of the body), sex and county.
- U.S. data by site and gender (for comparisons with Maine data).
- Age-specific incidence data for all sites combined, the most common cancer sites, and urinary bladder cancer.
- Malignant and non-malignant incident cases of brain and other nervous system tumors.
- Rates for groups of cancers that are tobacco-associated, obesity-associated and HPV-associated.
- Trends in incidence and mortality for all sites combined and selected cancers (see pages 29-33, 54-55).

## TECHNICAL NOTES

### **Data Analysis:**

Counts and rates presented in this report were produced using the Surveillance, Epidemiology, and End Results (SEER) Program, Surveillance Research Program, National Cancer Institute, SEER\*Stat 8.3.5 software.

### **Rates:**

Incidence and mortality rates are calculated per 100,000 population. The year 2000 U.S. standard population was used for age adjustment.

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

Ninety-five percent confidence intervals are provided for all rates. If the 95 percent confidence intervals for two rates overlapped, the incidence rates were considered similar. If the confidence intervals did not overlap, the rates were considered to be significantly different. Maine rates that are significantly higher than the national rate and county/district rates that are significantly higher than the Maine rate are shaded orange (■).

### **Data Sources:**

Maine incidence data are obtained from the Maine CDC Cancer Registry. Mortality data for Maine and the U.S. are provided by the National Center for Health Statistics and accessed through SEER\*Stat. The Maine mortality data are collected by Maine CDC's Data, Research, and Vital Statistics and provided to NCHS through cooperative agreement. National data are used for comparisons to Maine rates. Incidence data for U.S. and U.S. Whites were provided by the North American Association of Central Cancer Registries (NAACCR). The datafile, SEER\*Stat Database: NAACCR Incidence Data - CiNA (Cancer in North America) Analytic File, 1995-2015, Public Use, includes incidence data from registries that met NAACCR criteria for high quality data and consented to inclusion for the specified time periods, submitted December 2017.

### **National Comparisons:**

All statistical comparisons in this report involving national estimates are based on rates for U.S. whites due to the predominantly white population in Maine, although CiNA or SEER incidence rates and national mortality rates for both whites and all races have been provided. These rates appear under the headings "CINA Whites" and "CINA All races" or "U.S. Whites" and "U.S. All races."

## CASE DEFINITIONS

### **Incidence Case Definitions:**

Case definitions for single cancers and "all sites" are included in Appendix 1. Cancer groupings used in this report (HPV-associated, obesity-associated, tobacco-associated) are described below and definitions are included in Appendix 2.

### **Mortality Case Definitions:**

Case definitions of underlying cause of death using ICD-10 codes are included in Appendix 3.

### **Risk-Associated Cancers:**

For several years, groupings of cancers associated with tobacco use, obesity, and human papillomavirus (HPV) exposure have been included in this report due to their clinical, epidemiologic, and cancer prevention significance. Our approach and definitions have evolved over time. We have adopted predefined SEER\*stat variables<sup>[1]</sup> for calculating the number and rates of associated cancers for these three selected risk factors. See Appendix 2 for these definitions from SEER. These precise definitions allow us to produce Maine incidence estimates using nationally accepted and published methods. These defined groupings cannot be used with mortality data. See pages 24-28 for incidence tables for tobacco-associated, obesity-associated, and HPV-associated cancer. See pages 42-43 for maps of county incidence rates of obesity-associated and HPV-associated cancer.

### **Clarification of "Tobacco-associated" cancer and "Tobacco-related" cancer**

For more than a decade, the Maine Cancer Registry has used the term "**tobacco-related cancer, excluding lung and bronchus**" to quantify the additional impact of tobacco use on cancer incidence and mortality. The current definition includes the following cancers: oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix, urinary bladder, kidney and renal pelvis, acute myeloid leukemia. Lung, bronchus and trachea cancer are not included in this measure; lung and bronchus cancers have been presented separately. We have defined this term to produce both incidence and mortality counts and rates, although it has changed over time to include additional cancer sites as more research has become available. Tobacco-related cancer data are

[1] <https://www.cdc.gov/cancer/npcr/pdf/public-use/predefined-seer-stat-variables.pdf>

presented in tables, figures, and maps on pages 5-10, 15, 16, 30, 37, 45-47, 50, and 55.

The term “**tobacco-associated cancer**” is defined by SEER and is a broader measure than “tobacco-related.” It includes trachea, lung and bronchus cancer as well as other tobacco-related cancers. See pages 24-25 for incidence tables for tobacco-associated cancers.

**GEOGRAPHY**

**Maine Public Health Districts:**

Maine has eight geographically defined public health districts and one public health district based on tribal affiliation (Wabanaki). Cancer rates have been calculated for the eight geographical districts including the counties within each district. Cancer rates were not calculated for the Tribal district because of small numbers. The table below shows the counties in each district.

Public Health District	Counties
Aroostook District	Aroostook County
Central District	Kennebec County, Somerset County
Cumberland District	Cumberland County
Downeast District	Hancock County, Washington County
Midcoast District	Lincoln County, Knox County, Sagadahoc County, Waldo County
Penquis District	Penobscot County, Piscataquis County
Western District	Androscoggin County, Franklin County, Oxford County
York District	York County

**Rates by County/District:**

The number of new cancer cases reported in a county or district varies from year to year, and some of this variation is due to chance. County or district level cancer rates are more likely to vary on an annual basis than state level rates. In addition, counties/districts with smaller populations tend to have greater variation between time periods. In

general, when there are less than 30 cancer cases per 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:**

Maps were prepared to display the geographical distribution of cancer incidence and mortality rates. Maps were created using ArcGIS v.10.4 software. The ‘quantiles method’ with four categories was used to categorize rates using darker color gradients to represent higher rates. Counties with significantly higher or lower rates than the corresponding state rate were represented with patterns. (See legend on map pages).

**TRENDS**

**Figures:**

This report includes figures describing trends in cancer incidence and mortality in Maine. The incidence trends figures show rates for all cancer sites combined from 1995 to 2015 and selected cancers from 2000 to 2015.

The mortality figures show trends in mortality rates for all sites combined and selected cancers from 1969 to 2015. Separate cancer mortality trend figures were prepared for males and females.

# CANCER INCIDENCE

## INCIDENCE: STATE AND NATIONAL COMPARISONS

### Age-adjusted Cancer Incidence Rates by Site, Maine, 2015

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Cancer Sites	468.0 (457.8 - 478.4)	8,692	440.0 (439.2 - 440.7)	438.1 (437.4 - 438.8)
<b>Leading Cancer Sites</b>				
Tobacco-related, Excluding Lung and Bronchus	131.3 (126.0 - 136.8)	2,488	127.6 (127.2 - 128.1)	127.9 (127.5 - 128.2)
Lung and Bronchus	69.7 (65.9 - 73.6)	1,347	58.8 (58.5 - 59.0)	57.8 (57.5 - 58.0)
Colon and Rectum	35.7 (32.9 - 38.6)	669	37.4 (37.2 - 37.6)	38.1 (37.9 - 38.3)
Female Breast	124.5 (117.0 - 132.3)	1,173	125.6 (125.0 - 126.2)	124.8 (124.3 - 125.3)
Prostate	88.3 (82.4 - 94.7)	860	90.2 (89.7 - 90.7)	98.9 (98.5 - 99.4)
<b>Other Cancer Sites</b>				
Urinary Bladder	25.6 (23.3 - 28.0)	498	20.7 (20.6 - 20.9)	19.4 (19.3 - 19.6)
Melanoma of the Skin	28.0 (25.5 - 30.8)	484	25.0 (24.8 - 25.1)	22.0 (21.9 - 22.2)
Non-Hodgkin Lymphoma	21.0 (18.9 - 23.3)	389	19.0 (18.8 - 19.1)	18.4 (18.3 - 18.6)
Kidney and Renal Pelvis	17.0 (15.1 - 19.1)	310	16.7 (16.6 - 16.9)	16.6 (16.5 - 16.8)
Oral Cavity and Pharynx	13.9 (12.2 - 15.8)	266	12.1 (12.0 - 12.3)	11.7 (11.6 - 11.8)
Leukemia	15.1 (13.2 - 17.1)	265	13.7 (13.5 - 13.8)	13.2 (13.1 - 13.3)
Thyroid	15.6 (13.6 - 17.9)	244	15.1 (14.9 - 15.2)	14.5 (14.3 - 14.6)
Pancreas	12.4 (10.8 - 14.2)	240	12.6 (12.5 - 12.7)	12.8 (12.6 - 12.9)
Esophagus	7.0 (5.8 - 8.3)	136	4.7 (4.6 - 4.8)	4.5 (4.4 - 4.6)
Brain and Other Nervous System	7.7 (6.4 - 9.3)	127	6.9 (6.8 - 7.0)	6.4 (6.3 - 6.5)
Liver and Intrahepatic Bile Duct	5.6 (4.6 - 6.7)	114	7.6 (7.5 - 7.7)	8.4 (8.3 - 8.5)
Myeloma	5.6 (4.5 - 6.8)	106	5.7 (5.6 - 5.8)	6.4 (6.4 - 6.5)
Stomach	5.1 (4.1 - 6.2)	99	5.7 (5.7 - 5.8)	6.4 (6.3 - 6.5)
Larynx	3.8 (2.9 - 4.8)	75	3.2 (3.1 - 3.2)	3.2 (3.1 - 3.3)
Hodgkin Lymphoma	3.2 (2.3 - 4.4)	44	2.6 (2.5 - 2.7)	2.5 (2.5 - 2.6)
Mesothelioma	1.2 (0.7 - 1.8)	22	1.0 (0.9 - 1.0)	0.9 (0.8 - 0.9)
<b>Other Gender Specific Sites</b>				
Uterus (Corpus Uteri and Uterus, NOS)	30.0 (26.7 - 33.8)	315	26.1 (25.9 - 26.4)	25.8 (25.6 - 26.0)
Ovary	8.3 (6.4 - 10.7)	72	11.3 (11.1 - 11.5)	11.0 (10.8 - 11.1)
Cervix Uteri	5.7 (4.0 - 7.9)	39	7.5 (7.4 - 7.7)	7.6 (7.5 - 7.8)
Testis	6.8 (4.8 - 9.4)	38	6.4 (6.3 - 6.6)	5.5 (5.4 - 5.7)

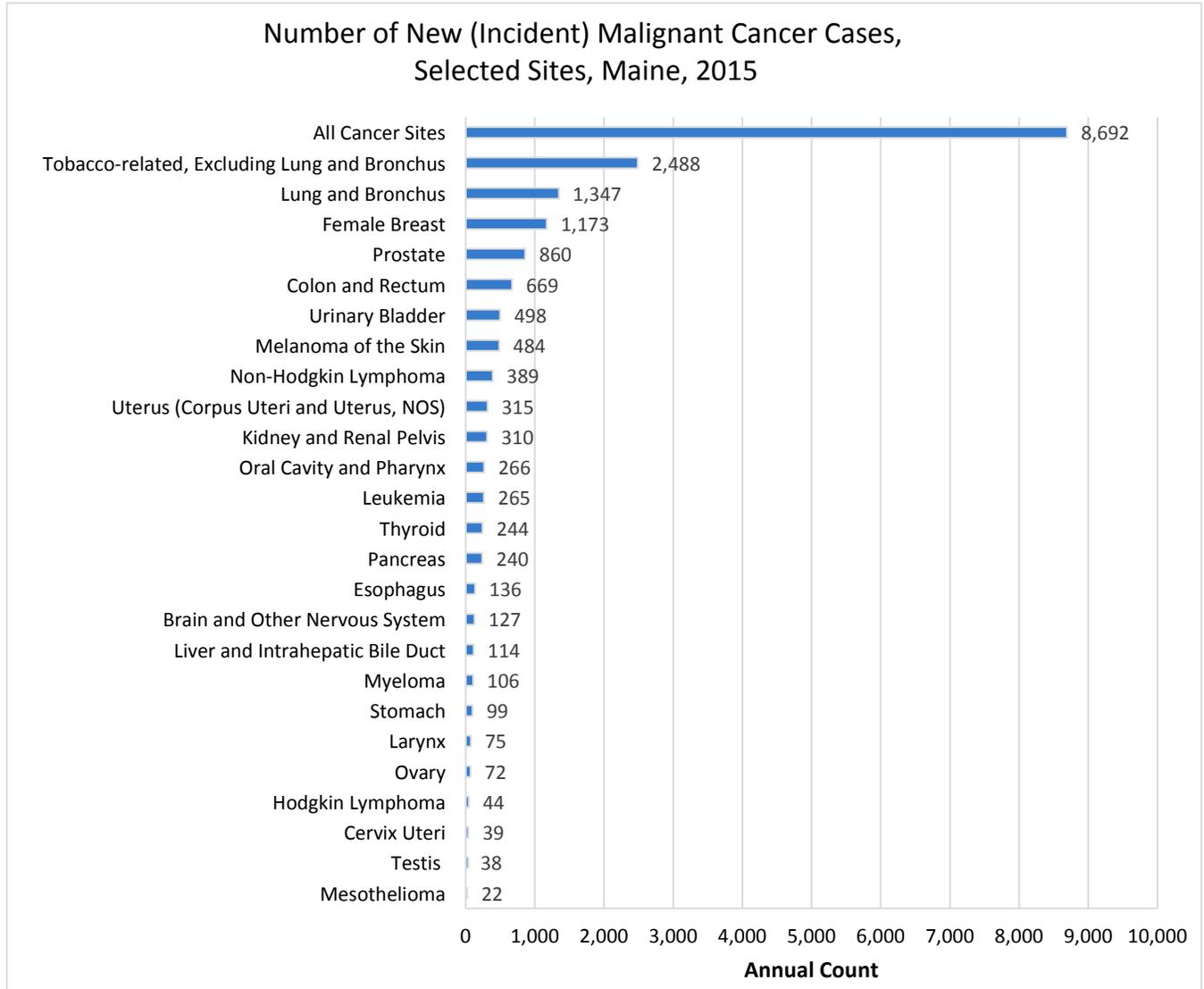
#### Notes:

- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia. Most of these cancers also appear separately in the table.
- Cancer sites are ordered by descending Maine incidence counts.
- 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.
- Subgroup counts might not sum to Maine total due to rounding.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; CINA = NAACCR Cancer in North America (CINA) Analytic File; NOS = Not Otherwise Specified.

#### Data Sources:

- Maine Incidence: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Analytic File, Public Use, 1994-2015.

Count of New Malignant Cancers, Maine 2015



**Notes:**

- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia. Most of these cancers also appear separately in the figure.
- Abbreviations: NOS= Not Otherwise Specified.

**Data Source:**

- Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Age-adjusted Cancer Incidence Rates among Males by Site, Maine, 2015

	Male			
	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Cancer Sites	493.1 (477.9 - 508.6)	4,314	470.2 (469.0 - 471.3)	473.4 (472.3 - 474.5)
Tobacco-related, Excluding Lung and Bronchus	176.4 (167.4 - 185.7)	1,553	170.8 (170.1 - 171.5)	170.5 (169.9 - 171.2)
Prostate	88.3 (82.4 - 94.7)	860	90.2 (89.7 - 90.7)	98.9 (98.5 - 99.4)
Lung and Bronchus	77.1 (71.2 - 83.3)	679	66.8 (66.4 - 67.3)	66.9 (66.5 - 67.3)
Urinary Bladder	44.1 (39.7 - 49.0)	379	35.8 (35.5 - 36.2)	33.7 (33.4 - 34.0)
Colon and Rectum	39.5 (35.3 - 44.1)	342	42.7 (42.4 - 43.1)	43.7 (43.3 - 44.0)
Melanoma of the Skin	29.6 (25.9 - 33.7)	251	31.2 (30.9 - 31.5)	28.0 (27.7 - 28.2)
Non-Hodgkin Lymphoma	26.4 (22.9 - 30.3)	218	22.8 (22.5 - 23.0)	22.2 (22.0 - 22.5)
Oral Cavity and Pharynx	21.6 (18.6 - 25.1)	195	18.4 (18.2 - 18.6)	17.7 (17.5 - 17.9)
Kidney and Renal Pelvis	20.0 (17.0 - 23.4)	175	22.5 (22.3 - 22.8)	22.5 (22.3 - 22.8)
Leukemia	18.2 (15.3 - 21.6)	148	17.4 (17.1 - 17.6)	16.8 (16.6 - 17.0)
Pancreas	14.5 (12.1 - 17.4)	130	14.5 (14.3 - 14.8)	14.6 (14.4 - 14.8)
Esophagus	12.8 (10.5 - 15.5)	114	8.1 (8.0 - 8.3)	7.7 (7.6 - 7.9)
Liver and Intrahepatic Bile Duct	8.6 (6.7 - 10.8)	81	11.6 (11.4 - 11.8)	12.8 (12.6 - 12.9)
Brain and Other Nervous System	8.4 (6.5 - 10.7)	70	7.9 (7.8 - 8.1)	7.4 (7.3 - 7.6)
Thyroid	8.1 (6.2 - 10.5)	67	7.7 (7.5 - 7.8)	7.3 (7.2 - 7.5)
Myeloma	7.5 (5.7 - 9.7)	64	7.2 (7.1 - 7.4)	8.0 (7.8 - 8.1)
Stomach	6.9 (5.2 - 8.9)	62	8.0 (7.8 - 8.1)	8.7 (8.6 - 8.9)
Larynx	5.2 (3.8 - 7.1)	49	5.4 (5.2 - 5.5)	5.5 (5.4 - 5.6)
Testis	6.8 (4.8 - 9.4)	38	6.4 (6.3 - 6.6)	5.5 (5.4 - 5.7)
Hodgkin Lymphoma	3.9 (2.5 - 5.8)	25	3.0 (2.9 - 3.1)	2.9 (2.8 - 3.0)
Mesothelioma	2.0 (1.2 - 3.4)	16	1.7 (1.6 - 1.7)	1.5 (1.5 - 1.6)

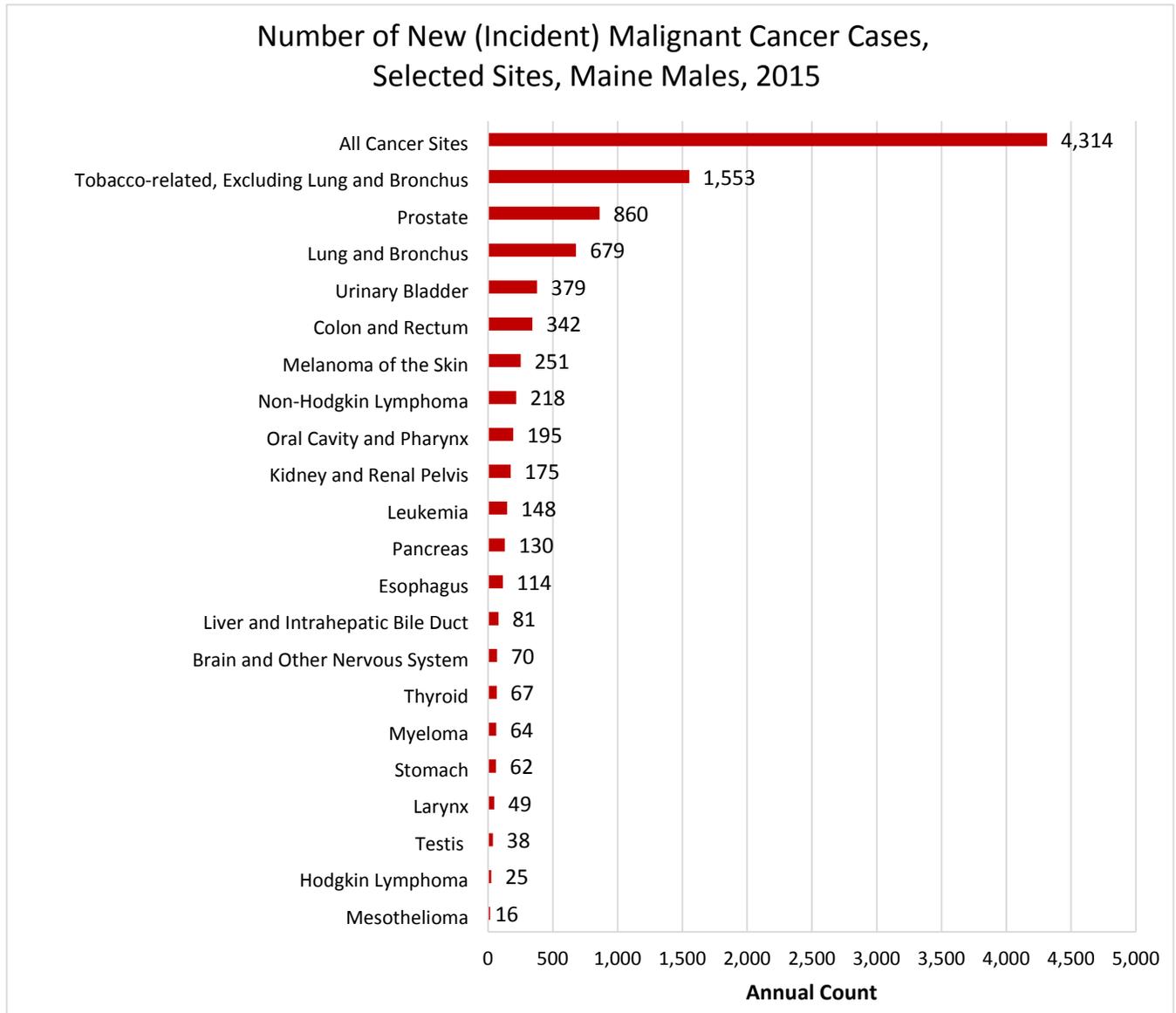
**Notes:**

- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia. Most of these cancers also appear separately in the table.
- Cancer sites are ordered by descending incidence counts.
- 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.
- Subgroup counts might not sum to Maine total due to rounding.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; CINA = NAACCR Cancer in North America (CINA) Analytic File.

**Data Sources:**

- Maine Incidence: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Analytic File, Public Use, 1994-2015.

Count of New Malignant Cancers, Maine Males, 2015



**Notes:**

- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia. Most of these cancers also appear separately in the figure.

**Data Source:**

- Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Age-adjusted Cancer Incidence Rates among Females by Site, Maine, 2015

	Female			
	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Cancer Sites	455.3 (441.2 - 469.8)	4,378	421.7 (420.6 - 422.7)	415.4 (414.4 - 416.4)
Breast	124.5 (117.0 - 132.3)	1,173	125.6 (125.0 - 126.2)	124.8 (124.3 - 125.3)
Tobacco-related, Excluding Lung and Bronchus	94.7 (88.5 - 101.4)	935	91.6 (91.2 - 92.1)	92.9 (92.5 - 93.4)
Lung and Bronchus	64.3 (59.4 - 69.5)	668	52.6 (52.3 - 53.0)	50.8 (50.5 - 51.1)
Colon and Rectum	33.0 (29.3 - 37.0)	327	32.8 (32.5 - 33.1)	33.4 (33.1 - 33.7)
Uterus (Corpus Uteri and Uterus, NOS)	30.0 (26.7 - 33.8)	315	26.1 (25.9 - 26.4)	25.8 (25.6 - 26.0)
Melanoma of the Skin	27.4 (23.7 - 31.4)	233	20.3 (20.1 - 20.6)	17.7 (17.5 - 17.9)
Thyroid	22.9 (19.5 - 26.8)	177	22.4 (22.2 - 22.7)	21.5 (21.2 - 21.7)
Non-Hodgkin Lymphoma	16.8 (14.3 - 19.7)	171	15.8 (15.6 - 16.0)	15.3 (15.1 - 15.5)
Kidney and Renal Pelvis	14.6 (12.1 - 17.4)	135	11.7 (11.5 - 11.8)	11.6 (11.4 - 11.7)
Urinary Bladder	10.9 (9.0 - 13.2)	119	8.8 (8.6 - 8.9)	8.3 (8.2 - 8.5)
Leukemia	12.4 (10.1 - 15.1)	117	10.6 (10.5 - 10.8)	10.3 (10.2 - 10.5)
Pancreas	10.4 (8.5 - 12.7)	110	10.9 (10.7 - 11.1)	11.2 (11.1 - 11.4)
Ovary	8.3 (6.4 - 10.7)	72	11.3 (11.1 - 11.5)	11.0 (10.8 - 11.1)
Oral Cavity and Pharynx	7.1 (5.4 - 9.1)	71	6.5 (6.4 - 6.7)	6.4 (6.3 - 6.5)
Brain and Other Nervous System	7.1 (5.3 - 9.5)	57	6.0 (5.8 - 6.1)	5.5 (5.4 - 5.6)
Myeloma	3.9 (2.8 - 5.5)	42	4.5 (4.4 - 4.6)	5.2 (5.1 - 5.3)
Cervix Uteri	5.7 (4.0 - 7.9)	39	7.5 (7.4 - 7.7)	7.6 (7.5 - 7.8)
Stomach	3.6 (2.5 - 5.1)	37	3.9 (3.8 - 4.0)	4.5 (4.4 - 4.6)
Liver and Intrahepatic Bile Duct	3.0 (2.0 - 4.3)	33	4.1 (4.0 - 4.2)	4.5 (4.4 - 4.6)
Larynx	2.5 (1.6 - 3.9)	26	1.3 (1.2 - 1.3)	1.3 (1.2 - 1.3)
Esophagus	2.1 (1.3 - 3.3)	22	1.7 (1.7 - 1.8)	1.8 (1.7 - 1.8)
Hodgkin Lymphoma	2.5 (1.5 - 4.1)	19	2.3 (2.2 - 2.4)	2.2 (2.1 - 2.3)
Mesothelioma	0.6 (0.2 - 1.5)	6	0.4 (0.4 - 0.5)	0.4 (0.4 - 0.4)

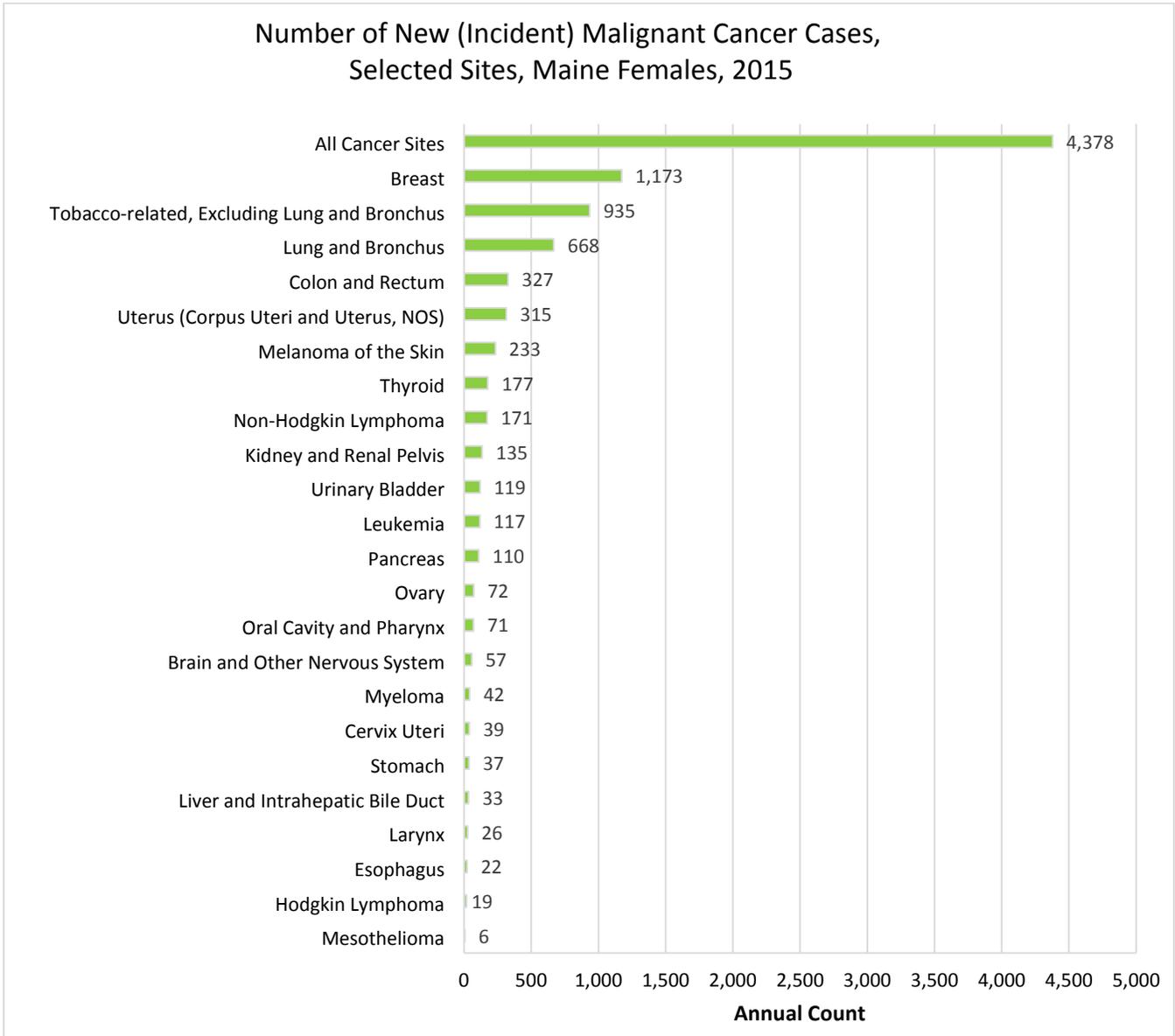
**Notes:**

- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia. Most of these cancers also appear separately in the table.
- Cancer sites are ordered by descending incidence counts.
- 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.
- Subgroup counts might not sum to Maine total due to rounding.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; CINA = NAACCR Cancer in North America (CINA) Analytic File; NOS = Not Otherwise Specified.

**Data Sources:**

- Maine Incidence: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Analytic File, Public Use, 1994-2015.

Count of New Malignant Cancers, Maine Females 2015



**Notes:**

- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia. Most of these cancers also appear separately in the figure.
- Abbreviations: NOS= Not Otherwise Specified.

**Data Source:**

- Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## All Cancers: Incidence by Age, Maine 2013-2015

	Total		Male		Female	
	Crude Rate (95% CI)	Count /Yr	Crude Rate (95% CI)	Count /Yr	Crude Rate (95% CI)	Count /Yr
0-14 years	17.3 (14.3 - 20.9)	37	20.2 (15.7 - 25.8)	22	14.3 (10.4 - 19.2)	15
15-19 years	28.1 (21.9 - 35.6)	23	25.3 (17.3 - 35.7)	11	31.1 (21.9 - 42.9)	12
20-24 years	45.3 (37.1 - 54.7)	36	43.0 (32.1 - 56.4)	17	47.6 (35.9 - 62.0)	18
25-29 years	62.9 (53.1 - 73.9)	49	46.7 (35.2 - 60.8)	18	79.2 (63.9 - 97.2)	31
30-34 years	103.8 (90.9 - 118.0)	78	76.0 (60.7 - 93.9)	28	131.2 (111.0 - 154.1)	50
35-39 years	146.1 (130.5 - 163.1)	106	75.2 (59.7 - 93.4)	27	215.3 (188.8 - 244.5)	79
40-44 years	260.8 (241.1 - 281.7)	215	159.1 (137.5 - 183.1)	65	359.4 (327.0 - 394.1)	151
45-49 years	384.3 (361.6 - 408.0)	356	286.1 (258.4 - 316.0)	130	477.9 (442.6 - 515.3)	226
50-54 years	589.7 (563.5 - 616.8)	634	544.3 (508.4 - 582.0)	286	633.0 (595.2 - 672.6)	348
55-59 years	868.4 (836.6 - 901.1)	938	897.8 (851.6 - 945.9)	470	840.7 (797.3 - 885.9)	467
60-64 years	1,183.3 (1,144.3 - 1,223.3)	1,160	1,288.7 (1,230.3 - 1,349.1)	610	1,084.9 (1,033.2 - 1,138.5)	550
65-69 years	1,685.2 (1,634.3 - 1,737.2)	1,385	1,840.3 (1,764.5 - 1,918.5)	740	1,536.6 (1,468.9 - 1,606.6)	645
70-74 years	2,036.9 (1,970.3 - 2,105.3)	1,176	2,275.5 (2,173.5 - 2,381.1)	623	1,822.1 (1,735.5 - 1,911.9)	554
75-79 years	2,311.2 (2,226.8 - 2,397.9)	944	2,665.9 (2,531.9 - 2,805.2)	494	2,015.5 (1,909.4 - 2,126.0)	450
80-84 years	2,522.3 (2,420.7 - 2,627.1)	774	3,031.0 (2,860.1 - 3,209.5)	391	2,152.5 (2,029.8 - 2,280.8)	382
85+ years	2,296.5 (2,201.2 - 2,395.0)	727	3,109.0 (2,919.9 - 3,307.1)	336	1,876.0 (1,770.2 - 1,986.5)	391
Maine All Ages*	649.5 (641.7 - 657.5)	8,637	654.8 (643.5 - 666.3)	4,267	644.4 (633.4 - 655.5)	4,369

**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."
- Subgroup counts might not sum to Maine total due to rounding.
- Abbreviations: CI = Confidence Interval; Count/Yr = Average Annual Count.

**Data Source:**

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## All Cancers: Incidence by County of Residence, Maine, 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr
Androscoggin	476.2 (454.6 - 498.7)	637	500.2 (467.9 - 534.2)	314	460.5 (431.0 - 491.5)	323
Aroostook	485.9 (460.6 - 512.2)	515	529.4 (492.0 - 569.3)	270	452.6 (418.1 - 489.4)	244
Cumberland	455.6 (442.8 - 468.8)	1,683	483.2 (463.6 - 503.5)	810	443.1 (425.6 - 461.2)	872
Franklin	458.3 (419.4 - 500.1)	191	489.4 (433.5 - 551.2)	102	433.2 (379.2 - 493.3)	89
Hancock	475.8 (447.8 - 505.3)	403	522.3 (480.2 - 567.5)	210	441.3 (403.6 - 482.1)	193
Kennebec	460.9 (441.4 - 481.1)	752	488.8 (459.7 - 519.3)	376	444.7 (418.0 - 472.9)	376
Knox	471.1 (438.4 - 505.8)	292	468.9 (423.2 - 518.8)	139	484.6 (437.1 - 536.4)	153
Lincoln	447.1 (412.6 - 484.1)	250	432.2 (385.4 - 484.1)	118	460.7 (410.9 - 515.8)	132
Oxford	482.4 (454.5 - 511.7)	407	510.5 (469.4 - 554.5)	208	460.3 (422.3 - 501.3)	199
Penobscot	494.2 (475.9 - 513.2)	973	519.4 (492.2 - 547.8)	482	485.4 (459.9 - 512.1)	492
Piscataquis	473.3 (425.1 - 526.5)	136	457.2 (391.0 - 533.6)	66	497.3 (427.3 - 577.6)	69
Sagadahoc	426.0 (392.9 - 461.4)	219	417.8 (370.9 - 469.6)	103	435.9 (389.3 - 487.2)	116
Somerset	459.0 (429.8 - 489.8)	332	462.8 (421.0 - 508.1)	163	459.9 (418.9 - 504.2)	169
Waldo	489.5 (454.9 - 526.2)	275	542.2 (489.5 - 599.6)	145	445.6 (400.2 - 495.3)	131
Washington	533.6 (494.8 - 575.1)	263	566.0 (509.6 - 627.9)	134	515.5 (461.1 - 575.1)	129
York	477.1 (461.7 - 492.9)	1,306	491.8 (469.1 - 515.4)	626	471.8 (450.6 - 493.9)	679
Maine	471.5 (465.6 - 477.5)	8,637	494.4 (485.6 - 503.4)	4,267	459.2 (451.0 - 467.6)	4,369

## All Cancers: Incidence by Public Health District of Residence, Maine, 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr
Aroostook	485.9 (460.6 - 512.2)	515	529.4 (492.0 - 569.3)	270	452.6 (418.1 - 489.4)	244
Central	459.7 (443.4 - 476.4)	1,084	479.9 (455.9 - 504.8)	539	448.6 (426.1 - 472.0)	545
Cumberland	455.6 (442.8 - 468.8)	1,683	483.2 (463.6 - 503.5)	810	443.1 (425.6 - 461.2)	872
Downeast	496.8 (474.0 - 520.6)	666	538.9 (504.9 - 574.8)	344	467.3 (436.1 - 500.5)	322
Midcoast	457.4 (440.5 - 474.8)	1,037	464.7 (440.4 - 490.0)	505	455.3 (431.6 - 480.2)	532
Penquis	492.3 (475.1 - 510.0)	1,109	511.8 (486.6 - 538.1)	548	487.7 (463.5 - 512.8)	561
Western	475.3 (459.6 - 491.5)	1,235	501.7 (478.5 - 525.9)	623	455.6 (434.1 - 478.0)	611
York	477.1 (461.7 - 492.9)	1,306	491.8 (469.1 - 515.4)	626	471.8 (450.6 - 493.9)	679
Maine	471.5 (465.6 - 477.5)	8,637	494.4 (485.6 - 503.4)	4,267	459.2 (451.0 - 467.6)	4,369

## Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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 9 cases with unknown county of residence.
- Subgroup counts might not sum to Maine total due to rounding.

## Data Source:

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Lung and Bronchus Cancer: Incidence by Age, Maine 2013-2015

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
40-44 years	13.3 (9.2 - 18.7)	11	13.9 (8.1 - 22.3)	6	12.7 (7.3 - 20.7)	5
45-49 years	43.9 (36.4 - 52.4)	41	52.1 (40.7 - 65.7)	24	36.0 (26.8 - 47.3)	17
50-54 years	77.2 (67.9 - 87.5)	83	81.3 (67.8 - 96.7)	43	73.4 (60.9 - 87.7)	40
55-59 years	127.5 (115.5 - 140.4)	138	140.6 (122.7 - 160.4)	74	115.1 (99.4 - 132.6)	64
60-64 years	166.0 (151.6 - 181.4)	163	197.3 (174.9 - 221.8)	93	136.8 (118.8 - 156.7)	69
65-69 years	277.0 (256.6 - 298.6)	228	297.6 (267.6 - 330.0)	120	257.3 (230.0 - 286.9)	108
70-74 years	402.3 (373.0 - 433.3)	232	417.8 (374.8 - 464.5)	114	388.3 (348.9 - 431.0)	118
75-79 years	510.9 (471.6 - 552.5)	209	574.2 (512.9 - 640.8)	106	458.3 (408.5 - 512.6)	102
80-84 years	499.9 (455.3 - 547.7)	153	606.7 (531.6 - 689.5)	78	422.2 (368.9 - 481.2)	75
85+ years	352.7 (316.0 - 392.6)	112	515.6 (440.4 - 600.0)	56	268.5 (229.4 - 312.3)	56
Maine All Ages*	103.2 (100.1 - 106.4)	1,372	109.8 (105.2 - 114.5)	715	96.9 (92.7 - 101.3)	657

**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 "Maine All ages."
- Subgroup counts might not sum to Maine total due to rounding.

**Data Source:**

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Lung and Bronchus Cancer: Incidence by County of Residence, Maine 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	83.0 (74.2 - 92.5)	113	89.6 (76.3 - 104.6)	57	77.1 (65.7 - 90.0)	56
Aroostook	72.7 (63.6 - 83.0)	80	75.5 (62.0 - 91.5)	39	70.4 (58.2 - 84.8)	42
Cumberland	62.6 (57.9 - 67.6)	232	70.2 (62.8 - 78.3)	115	57.0 (51.1 - 63.5)	118
Franklin	58.2 (45.3 - 74.1)	24	67.0 (47.6 - 92.7)	14	49.7 (33.5 - 72.1)	11
Hancock	67.3 (57.3 - 78.8)	58	74.5 (59.3 - 92.9)	30	61.1 (48.2 - 77.0)	27
Kennebec	69.3 (62.0 - 77.2)	116	83.4 (71.8 - 96.6)	65	57.5 (48.6 - 67.7)	52
Knox	74.0 (62.1 - 88.0)	48	83.1 (64.7 - 105.7)	25	67.1 (51.9 - 86.5)	24
Lincoln	51.7 (41.0 - 64.9)	30	56.2 (40.3 - 77.4)	16	47.0 (33.6 - 65.7)	15
Oxford	87.7 (76.4 - 100.5)	76	104.2 (86.3 - 125.1)	42	72.8 (58.9 - 89.6)	33
Penobscot	85.2 (77.9 - 93.1)	172	99.7 (88.1 - 112.5)	93	74.9 (65.5 - 85.5)	79
Piscataquis	78.9 (61.8 - 101.0)	25	79.1 (54.4 - 114.6)	12	82.0 (58.3 - 115.9)	13
Sagadahoc	71.0 (58.3 - 86.1)	38	76.9 (57.6 - 101.4)	19	66.6 (50.2 - 87.7)	19
Somerset	84.1 (72.2 - 97.6)	63	107.2 (87.7 - 130.1)	38	63.9 (49.8 - 81.3)	25
Waldo	80.0 (66.9 - 95.2)	47	104.5 (82.3 - 131.4)	27	62.9 (47.2 - 83.1)	19
Washington	93.7 (78.9 - 111.0)	50	92.5 (71.4 - 119.0)	23	95.3 (75.2 - 120.4)	27
York	70.1 (64.5 - 76.1)	199	80.6 (71.6 - 90.5)	102	62.4 (55.3 - 70.3)	97
Maine	72.5 (70.3 - 74.8)	1,372	82.6 (79.1 - 86.3)	715	64.7 (61.8 - 67.7)	657

## Lung and Bronchus Cancer: Incidence by Public Health District of Residence, Maine, 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	72.7 (63.6 - 83.0)	80	75.5 (62.0 - 91.5)	39	70.4 (58.2 - 84.8)	42
Central	73.6 (67.4 - 80.3)	179	90.5 (80.4 - 101.7)	103	59.3 (51.7 - 67.8)	76
Cumberland	62.6 (57.9 - 67.6)	232	70.2 (62.8 - 78.3)	115	57.0 (51.1 - 63.5)	118
Downeast	76.9 (68.5 - 86.2)	108	81.2 (68.7 - 95.8)	54	73.1 (62.0 - 86.0)	54
Midcoast	68.3 (62.2 - 75.0)	163	78.3 (68.7 - 88.9)	86	60.8 (53.0 - 69.8)	77
Penquis	84.6 (77.8 - 91.9)	197	97.0 (86.3 - 108.8)	104	76.0 (67.1 - 85.9)	93
Western	79.9 (73.7 - 86.5)	213	90.0 (80.4 - 100.5)	113	70.9 (62.9 - 79.6)	100
York	70.1 (64.5 - 76.1)	199	80.6 (71.6 - 90.5)	102	62.4 (55.3 - 70.3)	97
Maine	72.5 (70.3 - 74.8)	1,372	82.6 (79.1 - 86.3)	715	64.7 (61.8 - 67.7)	657

## Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Subgroup counts might not sum to Maine total due to rounding.

## Data Source:

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

### Tobacco-related Cancers, Excluding Lung and Bronchus: Incidence by Age, Maine 2013-2015

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
25-29 years	9.0 (5.6 - 13.7)	7	3.4 (0.9 - 8.7)	1	14.6 (8.5 - 23.4)	6
30-34 years	20.9 (15.3 - 27.7)	16	16.1 (9.5 - 25.4)	6	25.5 (17.1 - 36.7)	10
35-39 years	32.5 (25.4 - 41.0)	24	22.3 (14.3 - 33.1)	8	42.5 (31.2 - 56.5)	16
40-44 years	49.7 (41.3 - 59.2)	41	47.6 (36.1 - 61.5)	19	51.7 (39.9 - 65.9)	22
45-49 years	94.9 (83.8 - 107.1)	88	115.9 (98.5 - 135.5)	53	74.7 (61.2 - 90.4)	35
50-54 years	170.0 (156.1 - 184.8)	183	219.7 (197.2 - 244.2)	115	122.5 (106.2 - 140.6)	67
55-59 years	251.6 (234.6 - 269.5)	272	350.0 (321.3 - 380.5)	183	158.9 (140.4 - 179.2)	88
60-64 years	334.0 (313.4 - 355.6)	327	458.0 (423.4 - 494.6)	217	218.3 (195.4 - 243.1)	111
65-69 years	464.8 (438.3 - 492.5)	382	614.3 (570.8 - 660.1)	247	321.6 (291.1 - 354.5)	135
70-74 years	594.5 (558.8 - 632.0)	343	810.1 (749.7 - 874.1)	222	400.4 (360.4 - 443.7)	122
75-79 years	684.7 (639.2 - 732.7)	280	961.2 (881.4 - 1,046.3)	178	455.4 (405.7 - 509.4)	102
80-84 years	792.2 (735.8 - 851.9)	243	1,094.7 (992.9 - 1,204.0)	141	572.4 (509.9 - 640.4)	102
85+ years	846.6 (789.1 - 907.2)	268	1,290.5 (1,169.8 - 1,420.4)	139	616.8 (556.8 - 681.5)	129
Maine All Ages*	186.6 (182.4 - 190.9)	2,481	235.3 (228.6 - 242.2)	1,534	139.8 (134.7 - 145.0)	948

#### Notes:

- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, 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 "Maine All ages."
- Abbreviations: CI = Confidence Interval; Count/Yr = Average Annual Count.
- Subgroup counts might not sum to Maine total due to rounding.
- "Maine All Ages" includes cases where age is less than 25 years.

#### Data Source:

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Tobacco-related Cancers, Excl. Lung and Bronchus: Incidence by County of Residence, Maine, 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	138.7 (127.3 - 151.0)	188	181.3 (162.1 - 202.2)	114	101.4 (88.2 - 116.3)	74
Aroostook	142.1 (128.9 - 156.5)	154	190.6 (168.2 - 215.5)	94	102.1 (86.8 - 119.8)	59
Cumberland	124.1 (117.4 - 131.0)	463	169.4 (157.9 - 181.6)	283	88.7 (81.0 - 96.9)	180
Franklin	137.8 (117.8 - 160.7)	61	188.2 (154.8 - 227.5)	40	92.1 (69.6 - 120.4)	21
Hancock	134.3 (120.2 - 149.9)	119	200.2 (174.8 - 228.9)	80	81.0 (66.3 - 98.7)	38
Kennebec	132.4 (122.3 - 143.3)	222	175.9 (158.9 - 194.4)	138	97.0 (84.8 - 110.6)	84
Knox	123.2 (106.9 - 141.6)	77	164.3 (137.6 - 195.4)	48	89.6 (69.9 - 113.7)	29
Lincoln	130.8 (113.2 - 150.8)	78	160.2 (133.3 - 192.0)	46	107.0 (84.1 - 135.3)	32
Oxford	152.8 (137.4 - 169.6)	129	196.2 (171.3 - 224.0)	80	114.6 (95.8 - 136.3)	49
Penobscot	132.3 (123.1 - 142.1)	268	175.7 (160.0 - 192.5)	163	98.5 (87.6 - 110.6)	105
Piscataquis	119.3 (96.9 - 146.7)	36	156.3 (119.9 - 203.0)	24	84.7 (58.9 - 121.1)	12
Sagadahoc	106.0 (89.9 - 124.4)	55	121.6 (97.8 - 150.4)	32	90.2 (69.4 - 116.0)	24
Somerset	135.6 (120.1 - 152.7)	99	164.5 (139.8 - 192.7)	57	111.3 (92.2 - 133.7)	42
Waldo	134.9 (117.0 - 154.9)	76	184.6 (154.2 - 219.6)	49	88.5 (69.5 - 112.0)	27
Washington	160.4 (140.0 - 183.4)	81	214.0 (180.5 - 252.8)	52	116.9 (92.0 - 147.4)	29
York	134.2 (126.3 - 142.6)	376	179.9 (166.3 - 194.3)	232	96.9 (87.6 - 107.1)	143
Maine	132.7 (129.6 - 135.9)	2,481	176.9 (171.6 - 182.2)	1,534	96.4 (92.7 - 100.2)	948

## Tobacco-related Cancers, Excl. Lung and Bronchus: Incidence by Public Health District of Residence, Maine, 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	142.1 (128.9 - 156.5)	154	190.6 (168.2 - 215.5)	94	102.1 (86.8 - 119.8)	59
Central	133.4 (124.9 - 142.4)	321	172.1 (158.0 - 187.3)	195	101.5 (91.1 - 112.8)	126
Cumberland	124.1 (117.4 - 131.0)	463	169.4 (157.9 - 181.6)	283	88.7 (81.0 - 96.9)	180
Downeast	143.8 (132.1 - 156.5)	200	205.5 (185.0 - 228.0)	132	93.7 (80.5 - 108.7)	68
Midcoast	124.0 (115.4 - 133.2)	285	159.6 (145.7 - 174.8)	174	93.1 (82.6 - 104.7)	111
Penquis	130.8 (122.2 - 139.9)	304	173.5 (159.1 - 189.1)	187	96.9 (86.7 - 108.1)	117
Western	143.4 (135.0 - 152.3)	378	187.7 (173.7 - 202.6)	235	104.2 (94.2 - 115.0)	144
York	134.2 (126.3 - 142.6)	376	179.9 (166.3 - 194.3)	232	96.9 (87.6 - 107.1)	143
Maine	132.7 (129.6 - 135.9)	2,481	176.9 (171.6 - 182.2)	1,534	96.4 (92.7 - 100.2)	948

## Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the Maine rate.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.
- 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: Excl. = Excluding; AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count.
- Subgroup counts might not sum to Maine total due to rounding.

## Data Source:

Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

**Prostate Cancer: Incidence by Age, Maine 2013-2015**

	Male	
	Crude Rate (95% CI)	Count/Yr
40-44 years	4.1 (1.3 - 9.6)	2
45-49 years	13.9 (8.4 - 21.8)	6
50-54 years	88.9 (74.8 - 104.9)	47
55-59 years	185.2 (164.5 - 207.7)	97
60-64 years	348.8 (318.7 - 380.9)	165
65-69 years	501.5 (462.3 - 543.1)	202
70-74 years	477.5 (431.4 - 527.2)	131
75-79 years	437.4 (384.1 - 496.0)	81
80-84 years	366.6 (308.8 - 432.1)	47
85+ years	327.3 (267.9 - 395.8)	35
<b>Maine All Ages*</b>	<b>124.7 (119.8 - 129.8)</b>	<b>813</b>

**Prostate Cancer: Incidence by Public Health District of Residence, Maine, 2013-2015**

	Male	
	AA Rate (95% CI)	Count/Yr
Aroostook	113.8 (98.4 - 131.4)	68
Central	75.8 (66.9 - 85.7)	92
Cumberland	90.5 (82.5 - 99.2)	166
Downeast	104.2 (90.1 - 120.2)	71
Midcoast	76.5 (67.6 - 86.4)	94
Penquis	83.2 (73.7 - 93.6)	98
Western	83.5 (74.8 - 93.1)	117
York	75.9 (67.7 - 85.1)	107
<b>Maine</b>	<b>85.2 (81.8 - 88.8)</b>	<b>813</b>

**Prostate Cancer: Incidence by County of Residence, Maine, 2013-2015**

	Male	
	AA Rate (95% CI)	Count/Yr
Androscoggin	84.6 (72.4 - 98.5)	60
Aroostook	113.8 (98.4 - 131.4)	68
Cumberland	90.5 (82.5 - 99.2)	166
Franklin	92.9 (71.4 - 120.2)	22
Hancock	105.9 (88.2 - 126.6)	46
Kennebec	74.4 (63.7 - 86.5)	61
Knox	74.1 (57.9 - 94.3)	25
Lincoln	56.5 (42.0 - 75.9)	18
Oxford	76.1 (61.8 - 93.2)	35
Penobscot	86.4 (76.0 - 97.9)	87
Piscataquis	60.7 (41.4 - 90.2)	11
Sagadahoc	82.8 (63.5 - 107.1)	22
Somerset	80.0 (64.0 - 99.3)	31
Waldo	97.9 (77.6 - 122.5)	29
Washington	101.5 (78.9 - 129.5)	25
York	75.9 (67.7 - 85.1)	107
<b>Maine</b>	<b>85.2 (81.8 - 88.8)</b>	<b>813</b>

**Notes:**

- A shaded cell indicates that the County/District rate is significantly higher than the Maine rate.
- Incidence case definitions are based on SEER Site Recode ICD-O-3 /WHO 2008.
- 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 "Maine 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.
- Subgroup counts might not sum to Maine total due to rounding.

**Data Source:**

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

**Female Breast Cancer: Incidence by Age, Maine, 2013-2015**

	Female	
	Crude Rate (95% CI)	Count/Yr
25-29 years	5.2 (1.9 - 11.2)	2
30-34 years	29.1 (20.0 - 40.8)	11
35-39 years	69.7 (55.0 - 87.1)	26
40-44 years	145.5 (125.2 - 168.2)	61
45-49 years	196.0 (173.6 - 220.4)	93
50-54 years	189.8 (169.3 - 212.0)	104
55-59 years	247.7 (224.4 - 272.7)	138
60-64 years	328.1 (299.9 - 358.2)	166
65-69 years	449.5 (413.2 - 488.1)	189
70-74 years	489.3 (444.9 - 536.8)	149
75-79 years	450.9 (401.5 - 504.7)	101
80-84 years	448.5 (393.5 - 509.1)	80
85+ years	298.8 (257.5 - 344.9)	62
Maine All Ages*	174.2 (168.5 - 180.1)	1,181

**Female Breast Cancer: Incidence by Public Health District of Residence, Maine, 2013-2015**

	Female	
	AA Rate (95% CI)	Count/Yr
Aroostook	112.8 (95.3 - 132.8)	58
Central	115.0 (103.7 - 127.4)	138
Cumberland	131.7 (122.1 - 141.8)	255
Downeast	118.9 (103.3 - 136.5)	82
Midcoast	131.3 (118.4 - 145.3)	148
Penquis	131.5 (118.9 - 145.1)	148
Western	117.5 (106.8 - 129.2)	158
York	138.7 (127.1 - 151.1)	194
Maine	126.6 (122.2 - 131.0)	1,181

**Female Breast Cancer: Incidence by County of Residence, Maine, 2013-2015**

	Female	
	AA Rate (95% CI)	Count/Yr
Androscoggin	111.8 (97.4 - 127.8)	78
Aroostook	112.8 (95.3 - 132.8)	58
Cumberland	131.7 (122.1 - 141.8)	255
Franklin	122.4 (93.9 - 157.3)	25
Hancock	115.5 (96.2 - 138.1)	50
Kennebec	123.8 (109.6 - 139.4)	102
Knox	142.5 (117.1 - 172.5)	44
Lincoln	121.2 (95.5 - 152.6)	33
Oxford	124.0 (105.3 - 145.7)	56
Penobscot	130.0 (116.8 - 144.4)	129
Piscataquis	145.6 (107.0 - 195.4)	19
Sagadahoc	131.5 (105.8 - 162.1)	33
Somerset	94.8 (77.0 - 115.9)	36
Waldo	127.4 (103.7 - 155.6)	38
Washington	123.5 (98.3 - 154.2)	32
York	138.7 (127.1 - 151.1)	194
Maine	126.6 (122.2 - 131.0)	1,181

**Notes:**

-  A shaded cell indicates that the County/District rate is significantly higher than the Maine rate.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- 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 "Maine All ages."
- "Maine All Ages" includes cases where age is less than 25 years.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count.
- Subgroup counts might not sum to Maine total due to rounding.

**Data Source:**

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Colon and Rectum Cancer: Incidence by Age, Maine, 2013-2015

	Total		Male		Female	
	Crude Rate (95% CI)	Count/ Yr	Crude Rate (95% CI)	Count/ Yr	Crude Rate (95% CI)	Count/Yr
35-39 years	10.1 (6.3 - 15.3)	7	7.4 (3.2 - 14.6)	3	12.7 (6.9 - 21.2)	5
40-44 years	14.5 (10.2 - 20.1)	12	13.1 (7.5 - 21.3)	5	15.9 (9.7 - 24.6)	7
45-49 years	29.1 (23.1 - 36.2)	27	27.1 (19.1 - 37.4)	12	31.0 (22.5 - 41.6)	15
50-54 years	59.9 (51.7 - 68.9)	64	71.8 (59.1 - 86.3)	38	48.5 (38.5 - 60.4)	27
55-59 years	68.8 (60.1 - 78.5)	74	87.8 (73.8 - 103.7)	46	51.0 (40.7 - 63.0)	28
60-64 years	75.2 (65.6 - 85.8)	74	87.4 (72.7 - 104.2)	41	63.8 (51.7 - 77.8)	32
65-69 years	124.1 (110.6 - 138.8)	102	132.6 (112.9 - 154.9)	53	115.9 (97.9 - 136.3)	49
70-74 years	132.8 (116.2 - 151.1)	77	131.6 (107.9 - 158.8)	36	133.8 (111.1 - 159.8)	41
75-79 years	162.4 (140.6 - 186.6)	66	190.8 (156.2 - 230.8)	35	138.8 (112.1 - 170.1)	31
80-84 years	239.1 (208.5 - 272.8)	73	245.3 (198.4 - 299.8)	32	234.6 (195.3 - 279.5)	42
85+ years	282.2 (249.4 - 318.1)	89	342.7 (281.9 - 412.7)	37	250.9 (213.2 - 293.3)	52
Maine All Ages*	50.9 (48.7 - 53.2)	677	52.8 (49.6 - 56.1)	344	49.2 (46.2 - 52.3)	333

**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 "Maine All ages."
- "Maine All Ages" includes cases where age is less than 35 years.
- Abbreviations: CI = Confidence Interval; Count/Yr = Average Annual Count.
- Subgroup counts might not sum to Maine total due to rounding.

**Data Source:**

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Colon and Rectum Cancer: Incidence by County of Residence, Maine, 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	35.4 (29.7 - 41.9)	48	36.2 (27.9 - 46.2)	23	34.3 (26.7 - 43.4)	25
Aroostook	44.1 (37.0 - 52.4)	48	42.0 (32.1 - 54.5)	21	46.1 (36.1 - 58.4)	27
Cumberland	34.2 (30.8 - 38.0)	127	38.1 (32.7 - 44.1)	63	30.8 (26.4 - 35.8)	64
Franklin	45.9 (34.8 - 60.0)	20	50.6 (34.4 - 73.0)	11	41.5 (27.1 - 62.1)	9
Hancock	37.0 (29.7 - 45.9)	32	56.2 (42.9 - 72.9)	22	21.8 (14.5 - 32.2)	10
Kennebec	35.6 (30.5 - 41.4)	60	41.7 (33.5 - 51.4)	32	31.0 (24.6 - 38.8)	28
Knox	35.6 (27.0 - 46.6)	21	43.5 (29.6 - 62.4)	11	27.7 (18.3 - 41.7)	10
Lincoln	46.0 (35.8 - 58.9)	27	48.7 (34.2 - 68.6)	13	45.1 (30.9 - 64.9)	14
Oxford	42.0 (34.3 - 51.2)	36	44.8 (33.3 - 59.4)	18	39.4 (29.3 - 52.6)	18
Penobscot	34.4 (29.7 - 39.6)	68	36.1 (29.2 - 44.2)	34	33.5 (27.1 - 41.0)	35
Piscataquis	37.9 (25.7 - 55.5)	11	39.3 (22.5 - 67.5)	6	34.6 (18.9 - 61.9)	5
Sagadahoc	25.2 (17.8 - 35.1)	13	21.5 (12.4 - 36.0)	6	26.6 (16.5 - 41.7)	8
Somerset	34.3 (26.5 - 43.8)	24	26.9 (17.4 - 40.2)	9	41.6 (29.8 - 56.9)	15
Waldo	40.6 (31.2 - 52.3)	23	44.7 (30.8 - 63.6)	12	37.0 (24.9 - 53.9)	11
Washington	43.7 (33.4 - 56.7)	22	52.1 (36.3 - 73.5)	12	38.1 (24.5 - 57.6)	10
York	34.7 (30.7 - 39.2)	96	39.3 (33.1 - 46.4)	50	31.2 (26.0 - 37.2)	46
Maine	36.6 (35.0 - 38.3)	677	40.3 (37.8 - 42.9)	344	33.6 (31.5 - 35.9)	333

## Colon and Rectum Cancer: Incidence by Public Health District of Residence, Maine, 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	44.1 (37.0 - 52.4)	48	42.0 (32.1 - 54.5)	21	46.1 (36.1 - 58.4)	27
Central	35.2 (30.9 - 40.1)	84	37.2 (30.7 - 44.8)	41	34.2 (28.4 - 41.1)	43
Cumberland	34.2 (30.8 - 38.0)	127	38.1 (32.7 - 44.1)	63	30.8 (26.4 - 35.8)	64
Downeast	39.4 (33.3 - 46.4)	54	54.8 (44.3 - 67.3)	34	27.6 (20.7 - 36.5)	20
Midcoast	36.8 (32.2 - 42.0)	85	40.2 (33.2 - 48.3)	43	33.9 (27.8 - 41.0)	42
Penquis	34.9 (30.5 - 39.8)	79	36.7 (30.3 - 44.3)	40	33.5 (27.6 - 40.5)	40
Western	39.5 (35.2 - 44.3)	104	41.9 (35.4 - 49.3)	52	37.2 (31.4 - 43.8)	52
York	34.7 (30.7 - 39.2)	96	39.3 (33.1 - 46.4)	50	31.2 (26.0 - 37.2)	46
Maine	36.6 (35.0 - 38.3)	677	40.3 (37.8 - 42.9)	344	33.6 (31.5 - 35.9)	333

## Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Subgroup counts might not sum to Maine total due to rounding.

## Data Source:

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Urinary Bladder Cancer: Incidence by Age, Maine, 2013-2015

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
35-39 years	1.8 (0.5 - 4.7)	1	2.8 (0.6 - 8.1)	1	0.9 (0.0 - 5.0)	0
40-44 years	2.4 (0.9 - 5.3)	2	4.1 (1.3 - 9.6)	2	0.8 (0.0 - 4.4)	0
45-49 years	12.6 (8.8 - 17.5)	12	19.8 (13.1 - 28.8)	9	5.6 (2.4 - 11.1)	3
50-54 years	19.9 (15.3 - 25.4)	21	28.6 (20.8 - 38.2)	15	11.5 (6.9 - 18.0)	6
55-59 years	33.7 (27.6 - 40.6)	36	50.3 (39.8 - 62.6)	26	18.0 (12.1 - 25.7)	10
60-64 years	62.9 (54.2 - 72.7)	62	94.4 (79.1 - 111.8)	45	33.5 (25.0 - 44.1)	17
65-69 years	90.4 (79.0 - 103.1)	74	141.8 (121.3 - 164.7)	57	41.3 (30.8 - 54.2)	17
70-74 years	155.8 (137.8 - 175.6)	90	266.8 (232.6 - 304.5)	73	55.9 (41.7 - 73.6)	17
75-79 years	167.3 (145.2 - 191.8)	68	284.4 (241.8 - 332.4)	53	70.2 (51.6 - 93.3)	16
80-84 years	217.3 (188.3 - 249.6)	67	389.8 (330.1 - 457.2)	50	92.0 (68.0 - 121.6)	16
85+ years	226.4 (197.1 - 258.8)	72	460.0 (389.1 - 540.1)	50	105.5 (81.6 - 134.2)	22
Maine All Ages*	38.0 (36.1 - 40.0)	506	58.4 (55.1 - 61.9)	381	18.4 (16.6 - 20.4)	125

**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 "Maine All ages."
- "Maine All Ages" includes cases where age is less than 35 years.
- Abbreviations: CI = Confidence Interval; Count/Yr = Average Annual Count.
- Subgroup counts might not sum to Maine total due to rounding.

**Data Source:**

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Urinary Bladder Cancer: Incidence by County of Residence, Maine, 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	31.3 (26.0 - 37.3)	43	52.4 (42.2 - 64.4)	32	13.9 (9.5 - 19.9)	11
Aroostook	27.9 (22.5 - 34.5)	32	47.3 (36.7 - 60.5)	24	12.9 (8.2 - 20.1)	8
Cumberland	24.3 (21.4 - 27.5)	90	41.6 (35.8 - 48.0)	66	11.2 (8.7 - 14.2)	24
Franklin	30.7 (22.0 - 42.2)	14	55.8 (38.8 - 79.1)	12	8.1 (2.9 - 20.0)	2
Hancock	37.1 (30.1 - 45.7)	34	65.1 (50.9 - 82.6)	26	15.5 (9.8 - 24.3)	8
Kennebec	27.9 (23.3 - 33.1)	46	46.2 (37.5 - 56.5)	34	12.9 (8.9 - 18.3)	12
Knox	20.4 (14.2 - 28.8)	13	35.4 (23.9 - 51.5)	11	9.1 (3.4 - 20.3)	3
Lincoln	22.7 (16.1 - 31.8)	14	33.5 (22.4 - 49.8)	10	13.7 (6.7 - 26.7)	4
Oxford	25.9 (20.1 - 33.1)	23	45.3 (33.9 - 59.9)	18	10.2 (5.7 - 18.0)	5
Penobscot	26.1 (22.2 - 30.7)	53	48.5 (40.3 - 58.0)	43	8.8 (5.9 - 12.8)	10
Piscataquis	24.1 (14.6 - 39.1)	7	35.0 (19.1 - 62.5)	5	15.6 (5.4 - 39.0)	2
Sagadahoc	18.4 (12.4 - 26.8)	10	29.7 (18.8 - 45.8)	8	8.3 (3.3 - 18.8)	2
Somerset	27.7 (21.1 - 36.1)	21	41.6 (29.7 - 57.2)	14	16.1 (9.6 - 26.2)	6
Waldo	18.9 (13.0 - 27.2)	12	33.6 (22.0 - 50.1)	10	5.6 (2.0 - 14.3)	2
Washington	30.9 (22.5 - 41.9)	16	48.0 (32.7 - 69.0)	11	16.7 (9.0 - 30.1)	5
York	27.5 (24.0 - 31.3)	78	45.6 (38.9 - 53.2)	58	13.1 (10.0 - 17.0)	21
Maine	26.6 (25.2 - 28.0)	506	45.0 (42.4 - 47.8)	381	11.8 (10.6 - 13.1)	125

## Urinary Bladder Cancer: Incidence by Public Health District of Residence, Maine, 2013-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	27.9 (22.5 - 34.5)	32	47.3 (36.7 - 60.5)	24	12.9 (8.2 - 20.1)	8
Central	27.8 (24.0 - 32.1)	67	44.6 (37.5 - 52.8)	49	13.9 (10.3 - 18.4)	18
Cumberland	24.3 (21.4 - 27.5)	90	41.6 (35.8 - 48.0)	66	11.2 (8.7 - 14.2)	24
Downeast	34.8 (29.3 - 41.3)	50	58.6 (47.9 - 71.4)	37	16.0 (11.2 - 22.6)	13
Midcoast	20.2 (17.0 - 24.0)	49	33.7 (27.7 - 40.9)	38	8.9 (6.0 - 13.1)	11
Penquis	25.8 (22.1 - 30.1)	60	46.7 (39.2 - 55.4)	48	9.6 (6.7 - 13.5)	12
Western	29.4 (25.8 - 33.5)	80	50.6 (43.5 - 58.7)	62	11.8 (8.8 - 15.7)	18
York	27.5 (24.0 - 31.3)	78	45.6 (38.9 - 53.2)	58	13.1 (10.0 - 17.0)	21
Maine	26.6 (25.2 - 28.0)	506	45.0 (42.4 - 47.8)	381	11.8 (10.6 - 13.1)	125

## Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Subgroup counts might not sum to Maine total due to rounding.

## Data Source:

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Brain and Other Nervous System Tumors: Incidence by County of Residence, Maine, 2011-2015

	All Behaviors		Malignant		Non-Malignant	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	17.1 (14.0 - 20.8)	21	6.7 (4.8 - 9.2)	8	10.4 (8.0 - 13.4)	13
Aroostook	13.8 (10.4 - 18.1)	13	7.3 (4.7 - 10.7)	6	6.5 (4.4 - 9.4)	7
Cumberland	15.4 (13.5 - 17.4)	53	6.9 (5.7 - 8.4)	23	8.4 (7.1 - 10.0)	30
Franklin	18.1 (11.7 - 26.6)	6	11.6 (6.7 - 18.7)	4	6.4 (2.9 - 12.3)	2
Hancock	14.2 (10.4 - 19.0)	11	8.1 (5.4 - 11.9)	7	6.1 (3.7 - 9.6)	4
Kennebec	16.0 (13.0 - 19.4)	23	6.7 (4.9 - 9.1)	9	9.2 (7.1 - 11.9)	13
Knox	13.6 (9.4 - 19.3)	8	5.7 (3.1 - 9.9)	3	7.9 (4.8 - 12.4)	5
Lincoln	17.3 (11.6 - 25.0)	7	7.5 (3.9 - 13.0)	3	9.9 (5.7 - 16.1)	4
Oxford	19.9 (15.3 - 25.6)	14	7.2 (4.4 - 11.1)	5	12.7 (9.2 - 17.3)	9
Penobscot	12.2 (9.9 - 14.8)	22	7.0 (5.3 - 9.2)	12	5.1 (3.8 - 6.9)	10
Piscataquis	13.5 (7.5 - 22.9)	4	8.7 (4.1 - 17.1)	2	4.7 (1.7 - 11.7)	1
Sagadahoc	14.6 (9.9 - 20.9)	7	8.8 (5.3 - 14.0)	4	5.8 (3.1 - 10.2)	3
Somerset	22.0 (16.9 - 28.4)	14	9.2 (5.9 - 13.7)	5	12.8 (9.0 - 17.7)	8
Waldo	21.5 (15.5 - 29.2)	9	10.7 (6.5 - 16.5)	5	10.8 (6.7 - 16.6)	5
Washington	10.0 (6.0 - 16.0)	4	5.7 (2.8 - 10.6)	2	4.3 (1.8 - 8.8)	2
York	17.3 (14.9 - 20.0)	41	7.4 (5.9 - 9.3)	18	9.9 (8.1 - 12.0)	23
Maine	15.8 (14.9 - 16.7)	257	7.4 (6.7 - 8.0)	117	8.4 (7.8 - 9.1)	140

## Brain and Other Nervous System Tumors: Incidence by Public Health District of Residence, Maine, 2011-2015

	All Behaviors		Malignant		Non-Malignant	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	13.8 (10.4 - 18.1)	13	7.3 (4.7 - 10.7)	6	6.5 (4.4 - 9.4)	7
Central	17.7 (15.1 - 20.6)	36	7.4 (5.7 - 9.4)	15	10.3 (8.3 - 12.6)	22
Cumberland	15.4 (13.5 - 17.4)	53	6.9 (5.7 - 8.4)	23	8.4 (7.1 - 10.0)	30
Downeast	12.6 (9.7 - 16.1)	15	7.2 (5.1 - 10.0)	9	5.4 (3.5 - 7.9)	6
Midcoast	16.6 (13.9 - 19.7)	31	8.1 (6.2 - 10.4)	15	8.5 (6.6 - 10.8)	16
Penquis	12.3 (10.2 - 14.8)	26	7.3 (5.6 - 9.3)	14	5.1 (3.8 - 6.6)	11
Western	18.0 (15.5 - 20.8)	41	7.5 (5.9 - 9.4)	17	10.5 (8.6 - 12.6)	24
York	17.3 (14.9 - 20.0)	41	7.4 (5.9 - 9.3)	18	9.9 (8.1 - 12.0)	23
Maine	15.8 (14.9 - 16.7)	257	7.4 (6.7 - 8.0)	117	8.4 (7.8 - 9.1)	140

## Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Subgroup counts might not sum to Maine total due to rounding.

## Data Source:

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

## Age-adjusted Tobacco-associated Cancers: Incidence by Anatomic Site, Maine and U.S., 2015

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
<b>Both Sexes</b>				
Total Tobacco-associated Cancers	201.0 (194.5 - 207.8)	3,836	186.4 (185.9 - 186.9)	185.7 (185.2 - 186.1)
Trachea, Lung, Bronchus	69.7 (66.0 - 73.7)	1,348	58.8 (58.5 - 59.1)	57.8 (57.6 - 58.1)
Tobacco excluding Trachea, Lung, Bronchus	131.3 (126.0 - 136.8)	2,488	127.6 (127.2 - 128.1)	127.9 (127.5 - 128.2)
Lip, Oral Cavity, Pharynx	13.9 (12.2 - 15.8)	266	12.1 (12.0 - 12.3)	11.7 (11.6 - 11.8)
Esophagus	7.0 (5.8 - 8.3)	136	4.7 (4.6 - 4.8)	4.5 (4.4 - 4.6)
Stomach	5.1 (4.1 - 6.2)	99	5.7 (5.7 - 5.8)	6.4 (6.3 - 6.5)
Colon and Rectum	35.7 (32.9 - 38.6)	669	37.4 (37.2 - 37.6)	38.1 (37.9 - 38.3)
Liver	4.4 (3.6 - 5.5)	92	6.4 (6.3 - 6.5)	7.1 (7.0 - 7.2)
Pancreas	12.4 (10.8 - 14.2)	240	12.6 (12.5 - 12.7)	12.8 (12.6 - 12.9)
Larynx	3.8 (2.9 - 4.8)	75	3.2 (3.1 - 3.2)	3.2 (3.1 - 3.3)
Cervix Uteri	5.7 (4.0 - 7.9)	39	7.5 (7.4 - 7.7)	7.6 (7.5 - 7.8)
Kidney and Renal Pelvis	17.0 (15.1 - 19.1)	310	16.7 (16.6 - 16.9)	16.6 (16.5 - 16.8)
Urinary Bladder	25.6 (23.3 - 28.0)	498	20.7 (20.6 - 20.9)	19.4 (19.3 - 19.6)
Acute Myeloid Leukemia	3.6 (2.8 - 4.7)	64	4.2 (4.1 - 4.3)	4.1 (4.0 - 4.2)

**Notes:**

A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.

- Tobacco-associated cancers include lung, bronchus and trachea, as well as lip, oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, kidney and renal pelvis, urinary bladder, and acute myeloid leukemia. All 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 by SEER recode value.
- Subgroup counts might not sum to Maine total due to rounding.

**Data Sources:**

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission
- SEER\*Stat Database: NAACCR Incidence Data - CiNA Analytic File, 1995-2015, Public Use

### Age-adjusted Tobacco-associated Cancers: Incidence by Gender and Anatomic Site, Maine and U.S., 2015

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
<b>Male</b>				
Total Tobacco-associated Cancers	253.4 (242.7 - 264.6)	2,232	237.7 (236.8 - 238.5)	237.5 (236.8 - 238.3)
Trachea, Lung, Bronchus	77.1 (71.2 - 83.3)	679	66.9 (66.4 - 67.3)	67.0 (66.6 - 67.4)
Tobacco excluding Trachea, Lung, Bronchus	176.4 (167.4 - 185.7)	1,553	170.8 (170.1 - 171.5)	170.5 (169.9 - 171.2)
Lip, Oral Cavity, Pharynx	21.6 (18.6 - 25.1)	195	18.4 (18.2 - 18.6)	17.7 (17.5 - 17.9)
Esophagus	12.8 (10.5 - 15.5)	114	8.1 (8.0 - 8.3)	7.7 (7.6 - 7.9)
Stomach	6.9 (5.2 - 8.9)	62	8.0 (7.8 - 8.1)	8.7 (8.6 - 8.9)
Colon and Rectum	39.5 (35.3 - 44.1)	342	42.7 (42.4 - 43.1)	43.7 (43.3 - 44.0)
Liver	7.4 (5.8 - 9.5)	72	10.1 (10.0 - 10.3)	11.3 (11.2 - 11.5)
Pancreas	14.5 (12.1 - 17.4)	130	14.5 (14.3 - 14.8)	14.6 (14.4 - 14.8)
Larynx	5.2 (3.8 - 7.1)	49	5.4 (5.2 - 5.5)	5.5 (5.4 - 5.6)
Kidney and Renal Pelvis	20.0 (17.0 - 23.4)	175	22.5 (22.3 - 22.8)	22.5 (22.3 - 22.8)
Urinary Bladder	44.1 (39.7 - 49.0)	379	35.8 (35.5 - 36.2)	33.7 (33.4 - 34.0)
Acute Myeloid Leukemia	4.3 (2.9 - 6.0)	35	5.2 (5.0 - 5.3)	5.0 (4.9 - 5.1)
	Maine		CINA Whites	CINA All races
<b>Female</b>	AA Rate (95% CI)	Count	AA Rate (95% CI)	AA Rate (95% CI)
Total Tobacco-associated Cancers	159.1 (151.1 - 167.5)	1,604	144.3 (143.7 - 144.9)	143.8 (143.2 - 144.3)
Trachea, Lung, Bronchus	64.4 (59.5 - 69.6)	669	52.7 (52.3 - 53.0)	50.9 (50.5 - 51.2)
Tobacco excluding Trachea, Lung, Bronchus	94.7 (88.5 - 101.4)	935	91.6 (91.2 - 92.1)	92.9 (92.5 - 93.4)
Lip, Oral Cavity, Pharynx	7.1 (5.4 - 9.1)	71	6.5 (6.4 - 6.7)	6.4 (6.3 - 6.5)
Esophagus	2.1 (1.3 - 3.3)	22	1.7 (1.7 - 1.8)	1.8 (1.7 - 1.8)
Stomach	3.6 (2.5 - 5.1)	37	3.9 (3.8 - 4.0)	4.5 (4.4 - 4.6)
Colon and Rectum	33.0 (29.3 - 37.0)	327	32.8 (32.5 - 33.1)	33.4 (33.1 - 33.7)
Liver	1.8 (1.1 - 2.9)	20	3.0 (3.0 - 3.1)	3.4 (3.3 - 3.5)
Pancreas	10.4 (8.5 - 12.7)	110	10.9 (10.7 - 11.1)	11.2 (11.1 - 11.4)
Larynx	2.5 (1.6 - 3.9)	26	1.3 (1.2 - 1.3)	1.3 (1.2 - 1.3)
Cervix Uteri	5.7 (4.0 - 7.9)	39	7.5 (7.4 - 7.7)	7.6 (7.5 - 7.8)
Kidney and Renal Pelvis	14.6 (12.1 - 17.4)	135	11.7 (11.5 - 11.8)	11.6 (11.4 - 11.7)
Urinary Bladder	10.9 (9.0 - 13.2)	119	8.8 (8.6 - 8.9)	8.3 (8.2 - 8.5)
Acute Myeloid Leukemia	3.1 (2.0 - 4.7)	29	3.5 (3.4 - 3.6)	3.4 (3.3 - 3.5)

#### Notes:

A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.

- Tobacco-associated cancers include lung, bronchus and trachea, as well as lip, oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, kidney and renal pelvis, urinary bladder, and acute myeloid leukemia. All are limited to the subsites specified in Appendix 2.

## Age-adjusted Obesity-associated Cancers: Incidence by Anatomic Site, Maine and U.S., 2015

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
<b>Both Sexes</b>				
Total Obesity-associated Cancers	166.9 (160.9 - 173.0)	3,194	169.4 (169.0 - 169.9)	170.5 (170.1 - 170.9)
Adenocarcinoma of the Esophagus	5.7 (4.7 - 7.0)	112	3.3 (3.2 - 3.4)	2.9 (2.8 - 3.0)
Gastric Cardia	2.4 (1.7 - 3.2)	47	2.2 (2.2 - 2.3)	2.1 (2.0 - 2.1)
Colon and Rectum	35.7 (32.9 - 38.6)	669	37.4 (37.2 - 37.6)	38.1 (37.9 - 38.3)
Liver	4.4 (3.6 - 5.5)	92	6.4 (6.3 - 6.5)	7.1 (7.0 - 7.2)
Gallbladder	0.8 (0.5 - 1.4)	16	1.0 (0.9 - 1.0)	1.1 (1.0 - 1.1)
Pancreas	12.4 (10.8 - 14.2)	240	12.6 (12.5 - 12.7)	12.8 (12.6 - 12.9)
Multiple Myeloma	5.3 (4.3 - 6.6)	102	5.4 (5.3 - 5.5)	6.1 (6.0 - 6.2)
Post-menopausal Female Breast Cancer	324.2 (304.0 - 345.5)	983	340.0 (338.3 - 341.7)	336.2 (334.7 - 337.8)
Uterus (Corpus Uteri and Uterus, NOS)	30.9 (27.5 - 34.7)	324	26.9 (26.7 - 27.2)	26.7 (26.5 - 27.0)
Ovary	8.3 (6.4 - 10.7)	72	11.3 (11.1 - 11.5)	11.0 (10.8 - 11.1)
Kidney	16.0 (14.1 - 18.1)	290	15.8 (15.7 - 16.0)	15.8 (15.7 - 15.9)
Meningioma	0.2 (0.0 - 0.7)	3	0.1 (0.1 - 0.1)	0.1 (0.1 - 0.1)
Thyroid	15.6 (13.6 - 17.9)	244	15.1 (14.9 - 15.2)	14.5 (14.3 - 14.6)

**Notes:**

- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Obesity-associated cancers defined as adenocarcinoma of the esophagus, multiple myeloma, meningioma and cancers of the gastric cardia, colon, rectum, liver, gallbladder, pancreas, female breast (post-menopausal), corpus uteri, ovary, kidney, and thyroid. Post-menopausal breast cancer cases include malignant breast cancer cases diagnosed among females age 50 years or greater. Further detail provided 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 = Average Annual Count, NOS = Not Otherwise Specified.
- Cancer sites are ordered by SEER recode value.
- Subgroup counts might not sum to Maine total due to rounding.

**Data Source:**

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission
- SEER\*Stat Database: NAACCR Incidence Data - CINA Analytic File, 1995-2015, Public Use

## Age-adjusted Obesity-associated Cancers: Incidence by Gender and Anatomic Site, Maine and U.S., 2015

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
<b>Male</b>				
Total Obesity-associated Cancers	110.7 (103.5 - 118.2)	973	113.9 (113.3 - 114.5)	115.6 (115.1 - 116.2)
Adenocarcinoma of the Esophagus	11.0 (8.8 - 13.5)	98	6.1 (6.0 - 6.2)	5.4 (5.3 - 5.5)
Gastric Cardia	4.0 (2.8 - 5.6)	37	3.8 (3.7 - 3.9)	3.6 (3.5 - 3.7)
Colon and Rectum	39.5 (35.3 - 44.1)	342	42.7 (42.4 - 43.1)	43.7 (43.3 - 44.0)
Liver	7.4 (5.8 - 9.5)	72	10.1 (10.0 - 10.3)	11.3 (11.2 - 11.5)
Gallbladder	0.4 (0.1-1.2)	3	0.7 (0.7 - 0.8)	0.8 (0.8 - 0.8)
Pancreas	14.5 (12.1 - 17.4)	130	14.5 (14.3 - 14.8)	14.6 (14.4 - 14.8)
Multiple Myeloma	7.1 (5.4 - 9.3)	61	6.8 (6.6 - 6.9)	7.5 (7.3 - 7.6)
Kidney	18.6 (15.7 - 21.9)	163	21.3 (21.1 - 21.6)	21.4 (21.2 - 21.6)
Meningioma	0	0	0.1 (0.1 - 0.1)	0.1 (0.1 - 0.1)
Thyroid	8.1 (6.2 - 10.5)	67	7.7 (7.5 - 7.8)	7.3 (7.2 - 7.5)
<b>Female</b>				
Total Obesity-associated Cancers	218.6 (209.2 - 228.4)	2,221	219.7 (218.9 - 220.4)	219.1 (218.4 - 219.7)
Adenocarcinoma of the Esophagus	1.4 (0.7 - 2.5)	14	0.9 (0.8 - 0.9)	0.8 (0.7 - 0.8)
Gastric Cardia	0.9 (0.4 - 1.8)	10	0.9 (0.8 - 0.9)	0.9 (0.8 - 0.9)
Colon and Rectum	33.0 (29.3 - 37.0)	327	32.8 (32.5 - 33.1)	33.4 (33.1 - 33.7)
Liver	1.8 (1.1 - 2.9)	20	3.0 (3.0 - 3.1)	3.4 (3.3 - 3.5)
Gallbladder	1.2 (0.7 - 2.3)	13	1.2 (1.1 - 1.3)	1.3 (1.3 - 1.4)
Pancreas	10.4 (8.5 - 12.7)	110	10.9 (10.7 - 11.1)	11.2 (11.1 - 11.4)
Multiple Myeloma	3.8 (2.7 - 5.3)	41	4.3 (4.2 - 4.4)	5.0 (4.9 - 5.1)
Post-menopausal Female Breast Cancer	324.2 (304.0 - 345.5)	983	340.0 (338.3 - 341.7)	336.2 (334.7 - 337.8)
Uterus (Corpus Uteri and Uterus, NOS)	30.9 (27.5 - 34.7)	324	26.9 (26.7 - 27.2)	26.7 (26.5 - 27.0)
Ovary	8.3 (6.4 - 10.7)	72	11.3 (11.1 - 11.5)	11.0 (10.8 - 11.1)
Kidney	13.9 (11.4 - 16.7)	127	11.0 (10.8 - 11.2)	11.0 (10.8 - 11.1)
Meningioma	0.2 (0.1 - 1.3)	3	0.1 (0.1 - 0.1)	0.1 (0.1 - 0.1)
Thyroid	22.9 (19.5 - 26.8)	177	22.4 (22.2 - 22.7)	21.5 (21.2 - 21.7)

**Notes:**

- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Obesity-associated cancers defined as adenocarcinoma of the esophagus, multiple myeloma, meningioma and cancers of the gastric cardia, colon, rectum, liver, gallbladder, pancreas, female breast (post-menopausal), corpus uteri, ovary, kidney, and thyroid. Post-menopausal breast cancer cases include malignant breast cancer cases diagnosed among females age 50 years or greater. Further detail provided 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 = Average Annual Count, NOS = Not Otherwise Specified.
- Cancer sites are ordered by SEER recode value.
- Subgroup counts might not sum to Maine total due to rounding.

**Data Source:**

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission
- SEER\*Stat Database: NAACCR Incidence Data - CiNA Analytic File, 1995-2015, Public Use

## Age-adjusted Human Papillomavirus (HPV)-associated Cancers: Incidence by Anatomic Site, Maine and U.S., 2015

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
<b>Both Sexes</b>				
Total HPV-associated Cancers	13.7 (11.9 - 15.6)	243	12.7 (12.5 - 12.8)	12.2 (12.0 - 12.3)
Squamous cell carcinoma of the oropharynx	6.1 (5.0 - 7.4)	116	5.4 (5.3 - 5.5)	5.0 (4.9 - 5.0)
Squamous Cell Carcinoma of the anus and rectum	2.4 (1.7 - 3.3)	44	1.9 (1.9 - 2.0)	1.8 (1.8 - 1.9)
<b>Male</b>				
Total HPV-associated Cancers	13.2 (10.8 - 16.0)	118	11.3 (11.2 - 11.5)	10.6 (10.5 - 10.8)
Squamous cell carcinoma of the oropharynx	10.4 (8.3 - 12.9)	95	9.2 (9.1 - 9.4)	8.5 (8.4 - 8.7)
Squamous Cell Carcinoma of the anus and rectum	2.2 (1.3 - 3.5)	18	1.3 (1.3 - 1.4)	1.3 (1.3 - 1.4)
Squamous Cell Carcinoma of the penis	0.6 (0.2-1.5)	5	0.8 (0.7 - 0.8)	0.8 (0.7 - 0.8)
<b>Female</b>				
Total HPV-associated Cancers	14.1 (11.6 - 17.1)	125	14.1 (13.9 - 14.3)	13.7 (13.5 - 13.9)
Squamous cell carcinoma of the oropharynx	2.2 (1.3 - 3.6)	21	1.9 (1.8 - 2.0)	1.7 (1.7 - 1.8)
Squamous Cell Carcinoma of the anus and rectum	2.7 (1.7 - 4.1)	26	2.5 (2.4 - 2.5)	2.3 (2.2 - 2.3)
Squamous Cell Carcinoma of the vulva	3.2 (2.2 - 4.6)	35	2.2 (2.1 - 2.3)	2.0 (2.0 - 2.1)
Squamous Cell Carcinoma of the vagina	0.3 (0.1-1.1)	4	0.4 (0.4 - 0.4)	0.4 (0.4 - 0.4)
Carcinoma of the cervix	5.7 (4.0 - 7.9)	39	7.2 (7.0 - 7.3)	7.3 (7.1 - 7.4)

### Notes:

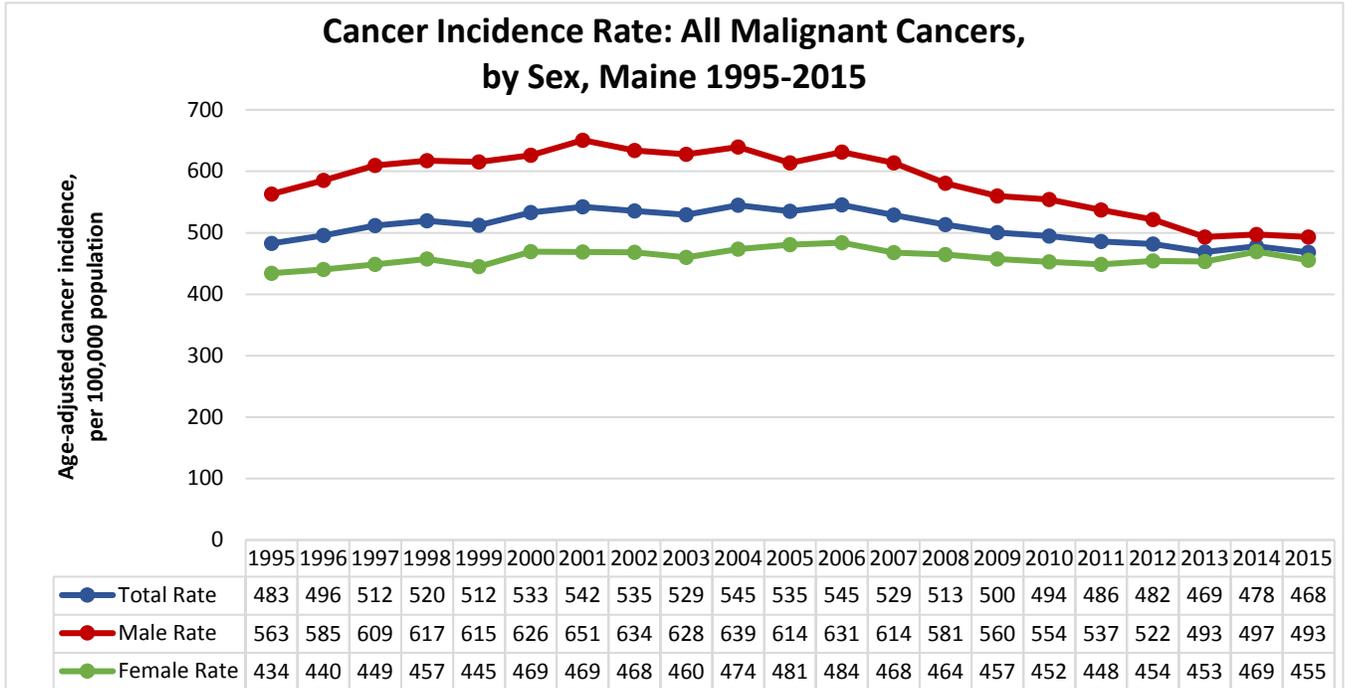
- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- HPV-associated cancers defined as squamous cell carcinomas of the oropharynx, rectum, anus, vulva, vagina, penis, and all carcinomas of the cervix. Oropharynx cancers are limited to the subsites specified in Appendix 2. All HPV-associated cancers are further restricted to those microscopically confirmed.
- 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 by SEER recode value.
- Subgroup counts might not sum to Maine total due to rounding.

### Data Sources:

- Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission
- SEER\*Stat Database: NAACCR Incidence Data - CiNA Analytic File, 1995-2015, Public Use

# CANCER INCIDENCE TRENDS

## Age-adjusted Incidence of all Malignant Cancers, Maine 1995-2015

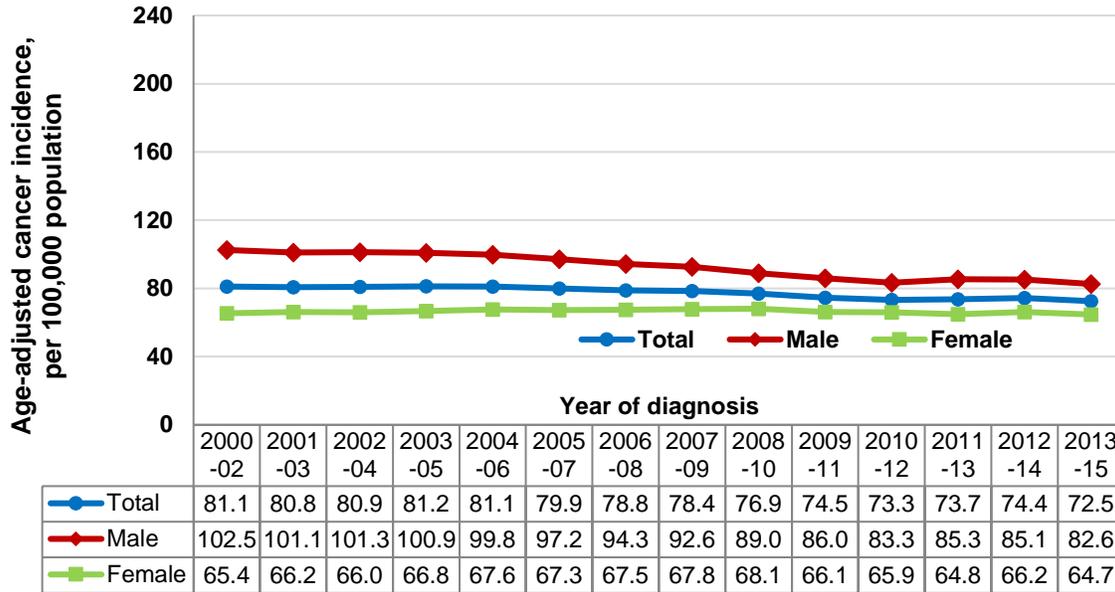


	Total		Male		Female	
	AA Rate (95% CI)	Count	AA Rate (95% CI)	Count	AA Rate (95% CI)	Count
1995	482.5 (470.6 - 494.6)	6,351	563.1 (543.5 - 583.3)	3,206	434.2 (419.0 - 449.9)	3,145
1996	495.6 (483.7 - 507.7)	6,611	585.4 (565.5 - 605.8)	3,369	440.4 (425.2 - 456.1)	3,242
1997	511.7 (499.7 - 524.0)	6,945	609.3 (589.2 - 630.0)	3,566	448.5 (433.3 - 464.1)	3,378
1998	519.5 (507.5 - 531.7)	7,140	617.4 (597.3 - 637.9)	3,674	457.2 (441.9 - 472.8)	3,466
1999	512.3 (500.5 - 524.3)	7,187	615.4 (595.6 - 635.7)	3,747	445.1 (430.2 - 460.4)	3,440
2000	533.0 (521.1 - 545.1)	7,614	626.1 (606.4 - 646.2)	3,922	469.2 (454.0 - 484.7)	3,692
2001	542.1 (530.1 - 554.2)	7,862	650.7 (630.8 - 671.1)	4,139	468.5 (453.4 - 484.0)	3,722
2002	535.3 (523.6 - 547.3)	7,904	634.0 (614.6 - 653.9)	4,131	468.1 (453.2 - 483.5)	3,772
2003	529.1 (517.5 - 540.9)	7,943	627.7 (608.6 - 647.3)	4,181	459.8 (445.1 - 474.9)	3,762
2004	544.8 (533.1 - 556.7)	8,349	639.4 (620.4 - 658.9)	4,402	473.5 (458.6 - 488.7)	3,947
2005	535.2 (523.6 - 546.9)	8,322	613.7 (595.1 - 632.7)	4,274	480.5 (465.6 - 495.8)	4,047
2006	545.2 (533.6 - 556.9)	8,636	631.4 (612.8 - 650.5)	4,503	483.8 (469.0 - 499.1)	4,133
2007	528.8 (517.5 - 540.3)	8,559	613.5 (595.3 - 632.0)	4,498	467.7 (453.2 - 482.7)	4,060
2008	513.4 (502.3 - 524.6)	8,482	580.6 (563.2 - 598.5)	4,379	464.4 (450.0 - 479.2)	4,103
2009	500.1 (489.2 - 511.1)	8,374	559.7 (542.6 - 577.1)	4,286	457.1 (442.8 - 471.7)	4,087
2010	494.4 (483.6 - 505.4)	8,402	554.4 (537.6 - 571.6)	4,345	452.4 (438.1 - 467.0)	4,057
2011	485.8 (475.1 - 496.6)	8,365	537.2 (520.8 - 554.0)	4,275	448.3 (434.1 - 462.8)	4,089
2012	481.5 (471.0 - 492.2)	8,532	521.5 (505.5 - 537.9)	4,296	454.0 (439.9 - 468.5)	4,235
2013	468.8 (458.5 - 479.3)	8,453	493.1 (477.9 - 508.8)	4,192	453.3 (439.2 - 467.8)	4,259
2014	478.0 (467.7 - 488.6)	8,767	497.2 (481.9 - 512.9)	4,296	469.2 (454.9 - 483.9)	4,471
2015	468.0 (457.8 - 478.4)	8,692	493.1 (477.9 - 508.6)	4,314	455.3 (441.2 - 469.8)	4,378

**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, based on November 2017 NPCR-CSS data submission

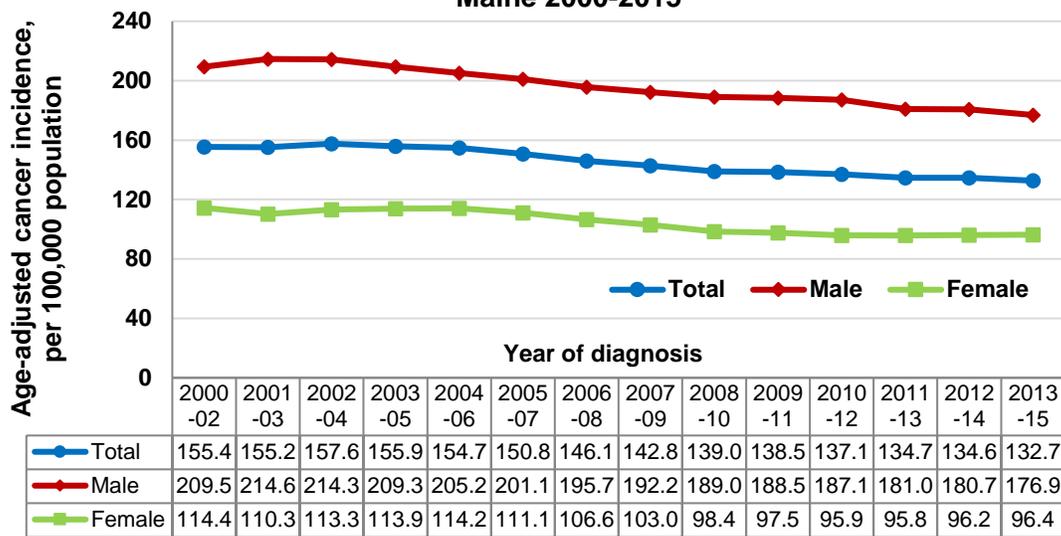
Age-adjusted Incidence of Lung and Bronchus Cancer, Maine 2000-2015

Cancer Incidence Rate: Lung and Bronchus Cancer, by Sex, Maine 2000-2015



Age-adjusted Incidence of Tobacco-related Cancers, Excluding Lung and Bronchus, Maine 2000-2015

Cancer Incidence Rate: Tobacco-Related Cancer, Excluding Lung, Bronchus and Trachea, by Sex, Maine 2000-2015



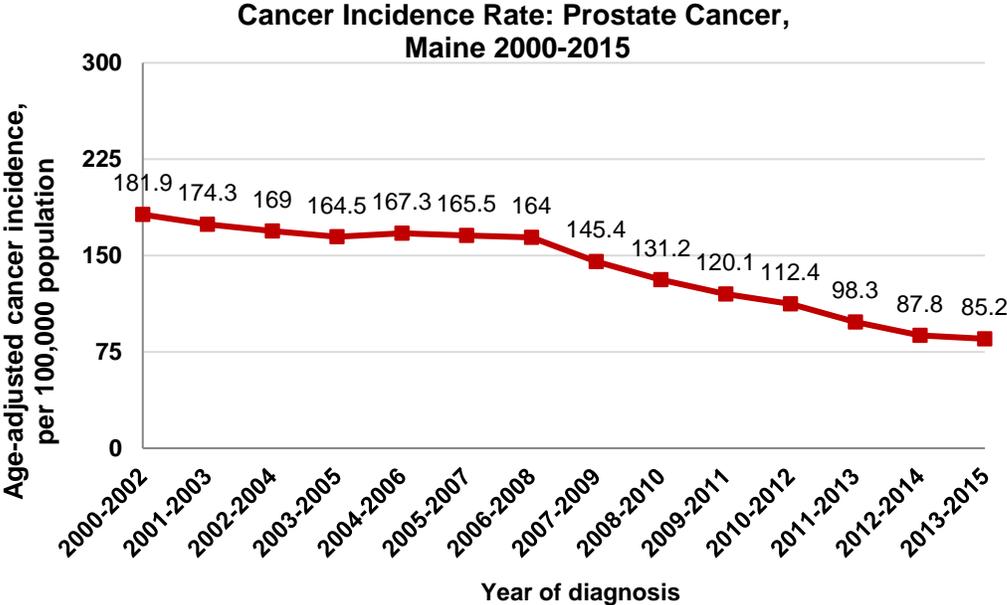
Notes:

- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.

Data Source:

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

Age-adjusted Incidence of Prostate Cancer, Maine 2000-2015



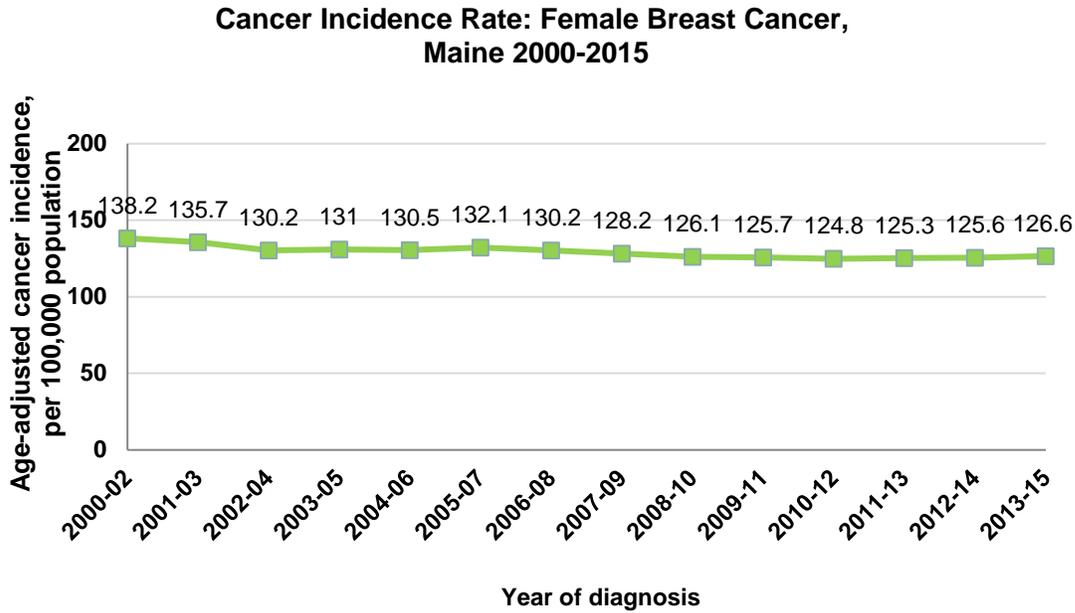
**Notes:**

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

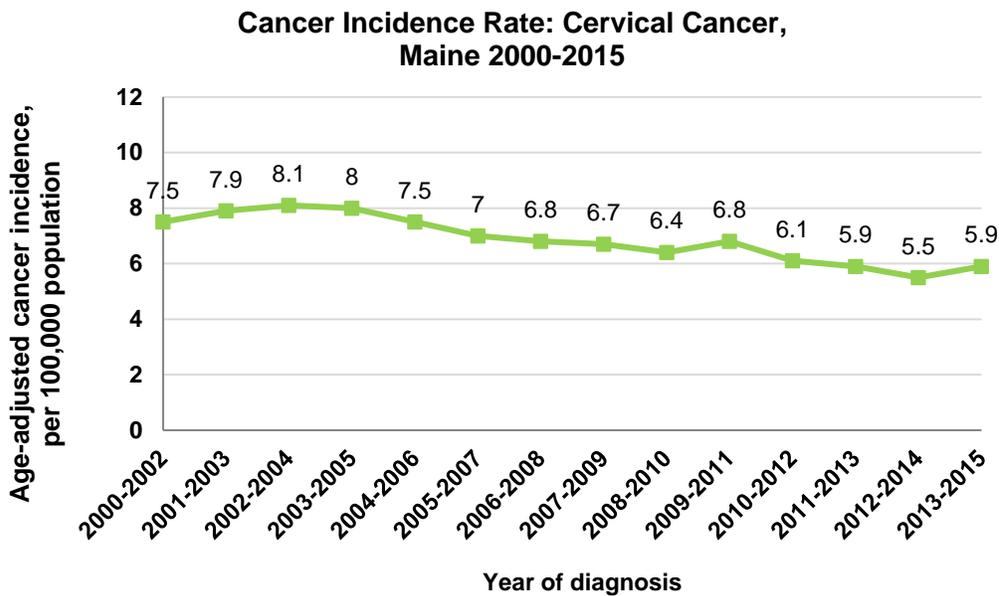
**Data Source:**

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

Age-adjusted Incidence of Female Breast Cancer, Maine 2000-2015



Age-adjusted Incidence of Cervical Cancer, Maine 2000-2015



**Notes:**

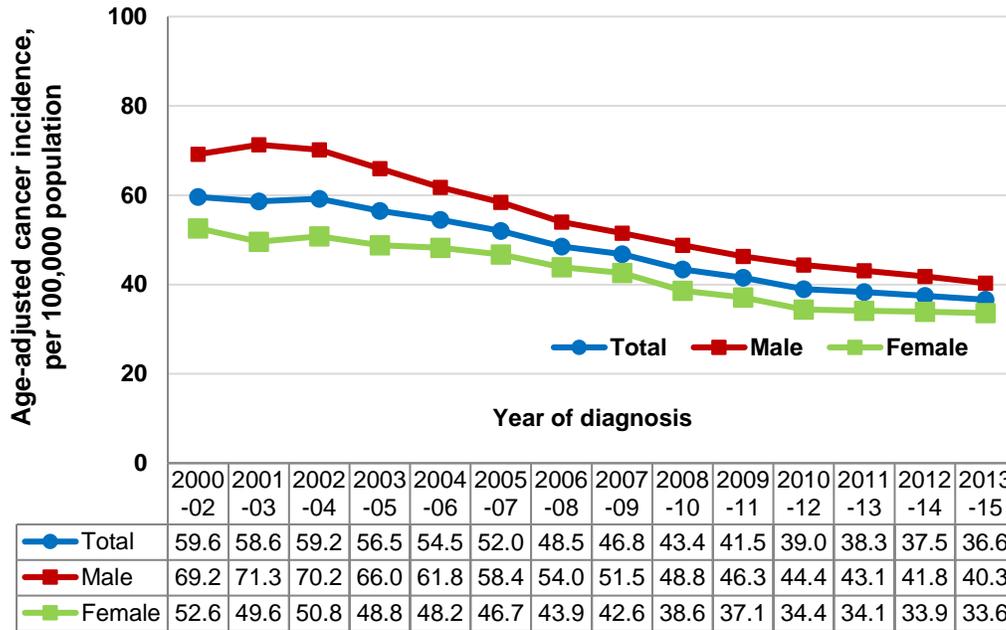
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.

**Data Source:**

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

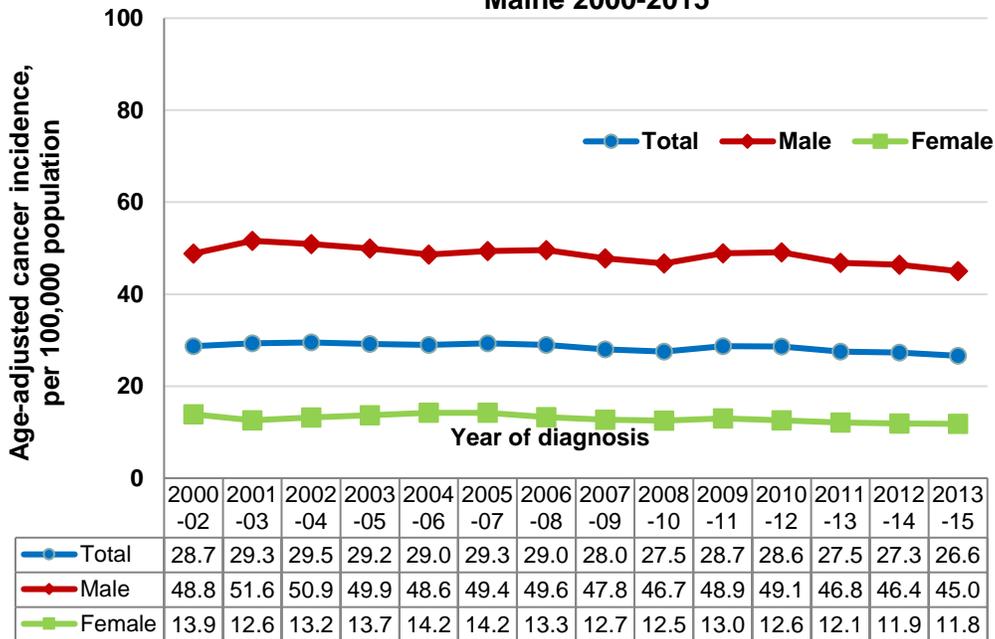
Age-adjusted Incidence of Colon and Rectum Cancer, Maine 2000-2015

Cancer Incidence Rate: Colon and Rectum Cancer, by Sex, Maine 2000-2015



Age-adjusted Incidence of Urinary Bladder Cancer, Maine 2000-2015

Cancer Incidence Rate: Urinary Bladder Cancer, by Sex, Maine 2000-2015



Notes:

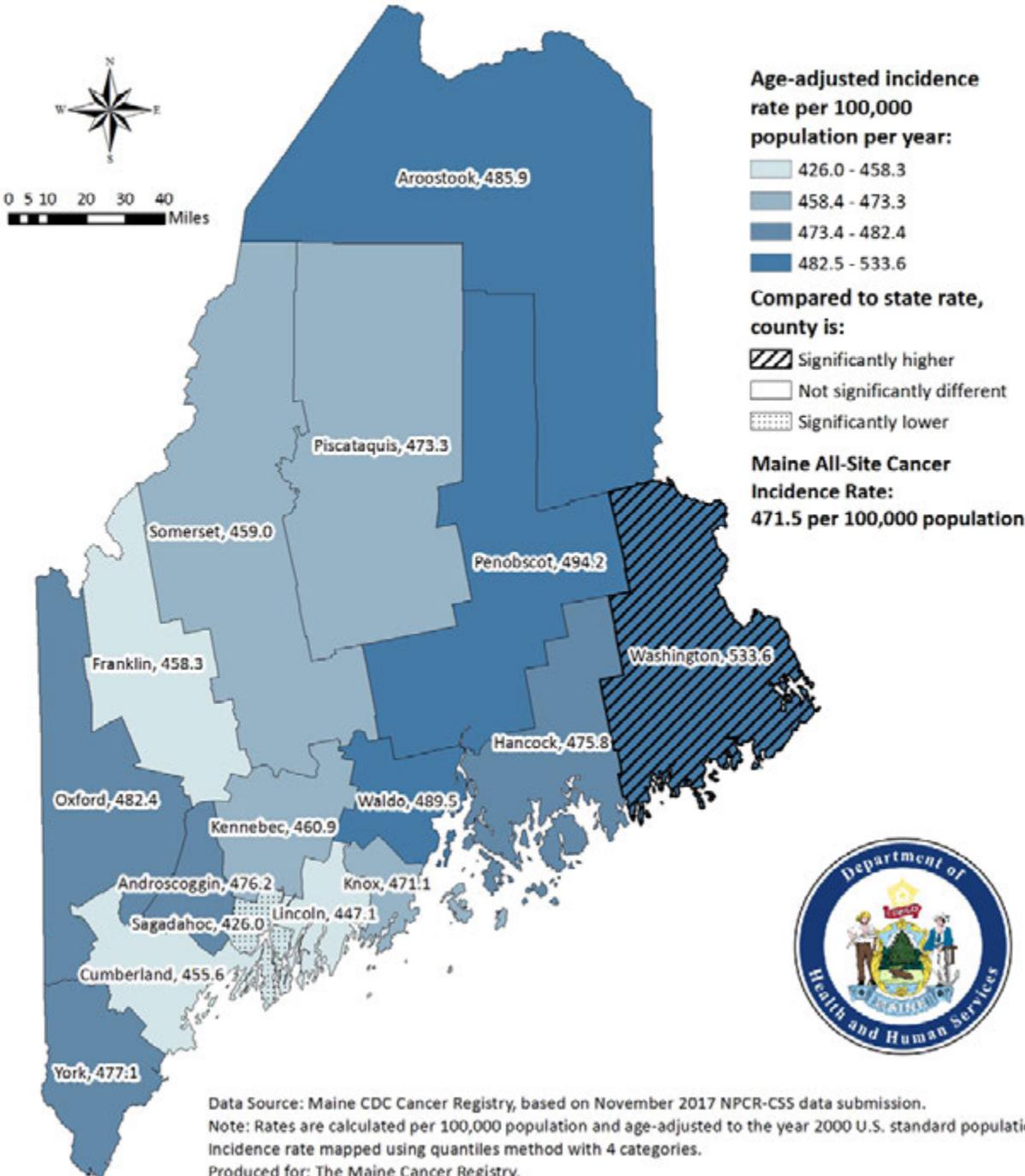
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.

Data Source:

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission

# CANCER INCIDENCE MAPS

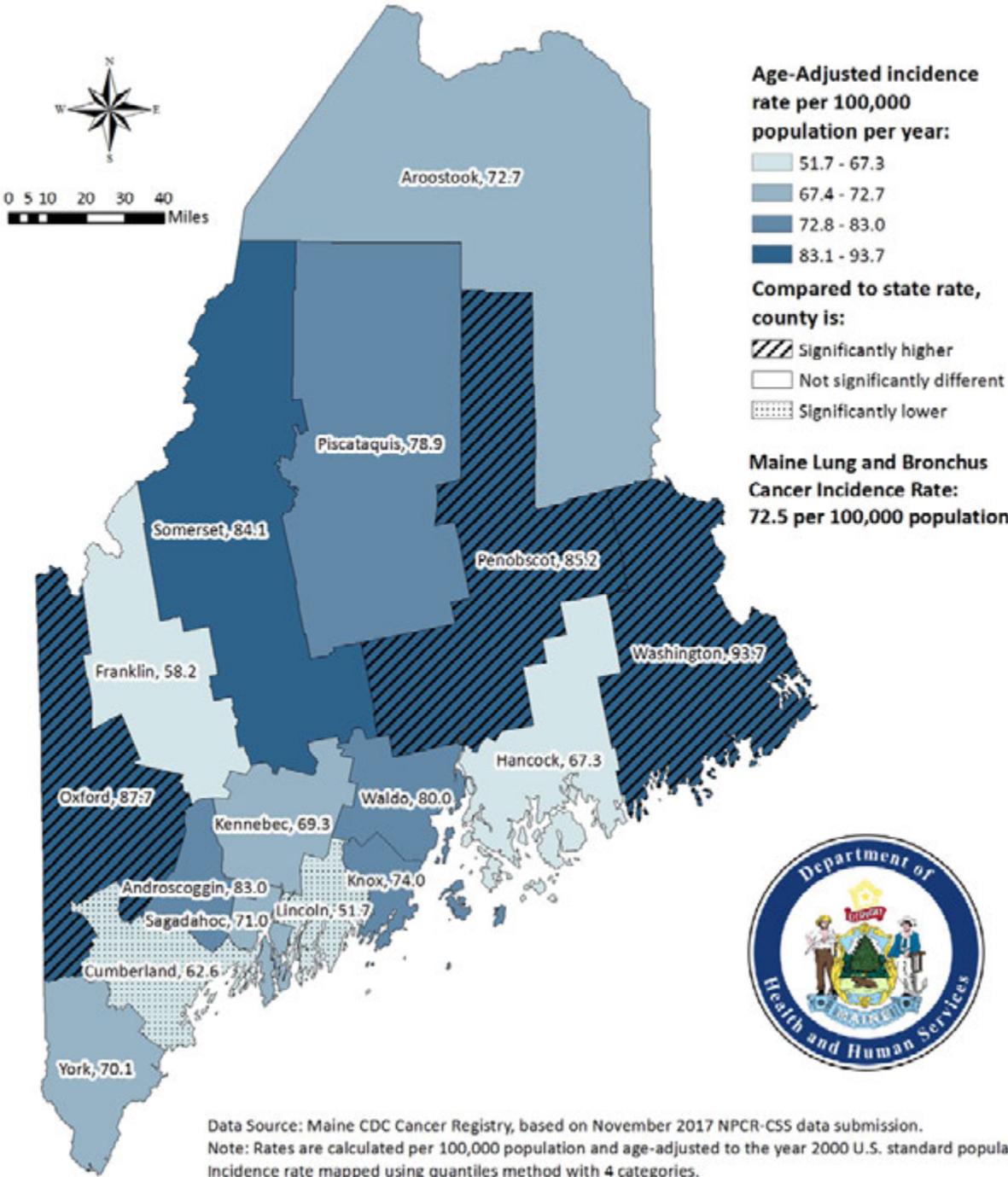
# All-Site Cancer Incidence Rate by County, Maine, 2013-2015



Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission.  
 Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Incidence rate mapped using quantiles method with 4 categories.  
 Produced for: The Maine Cancer Registry.  
 Created: 3/18/19 by Finn Teach. Data analyzed by USM Epidemiology.

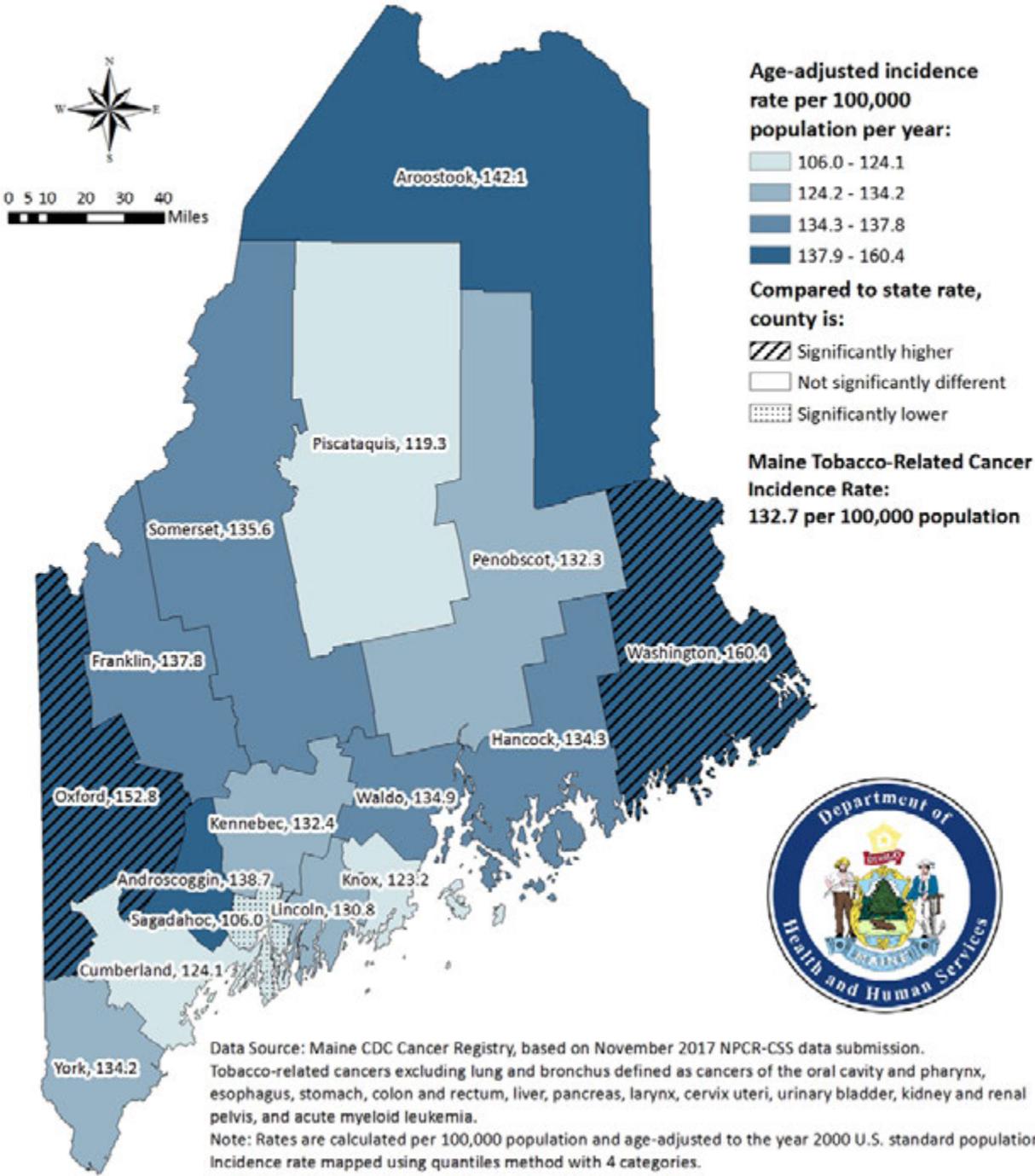


# Lung and Bronchus Cancer Incidence Rate by County, Maine, 2013-2015



Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission.  
Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Incidence rate mapped using quantiles method with 4 categories.  
Produced for: The Maine Cancer Registry.  
Created 3/18/19 by Finn Teach. Data analyzed by USM Epidemiology.

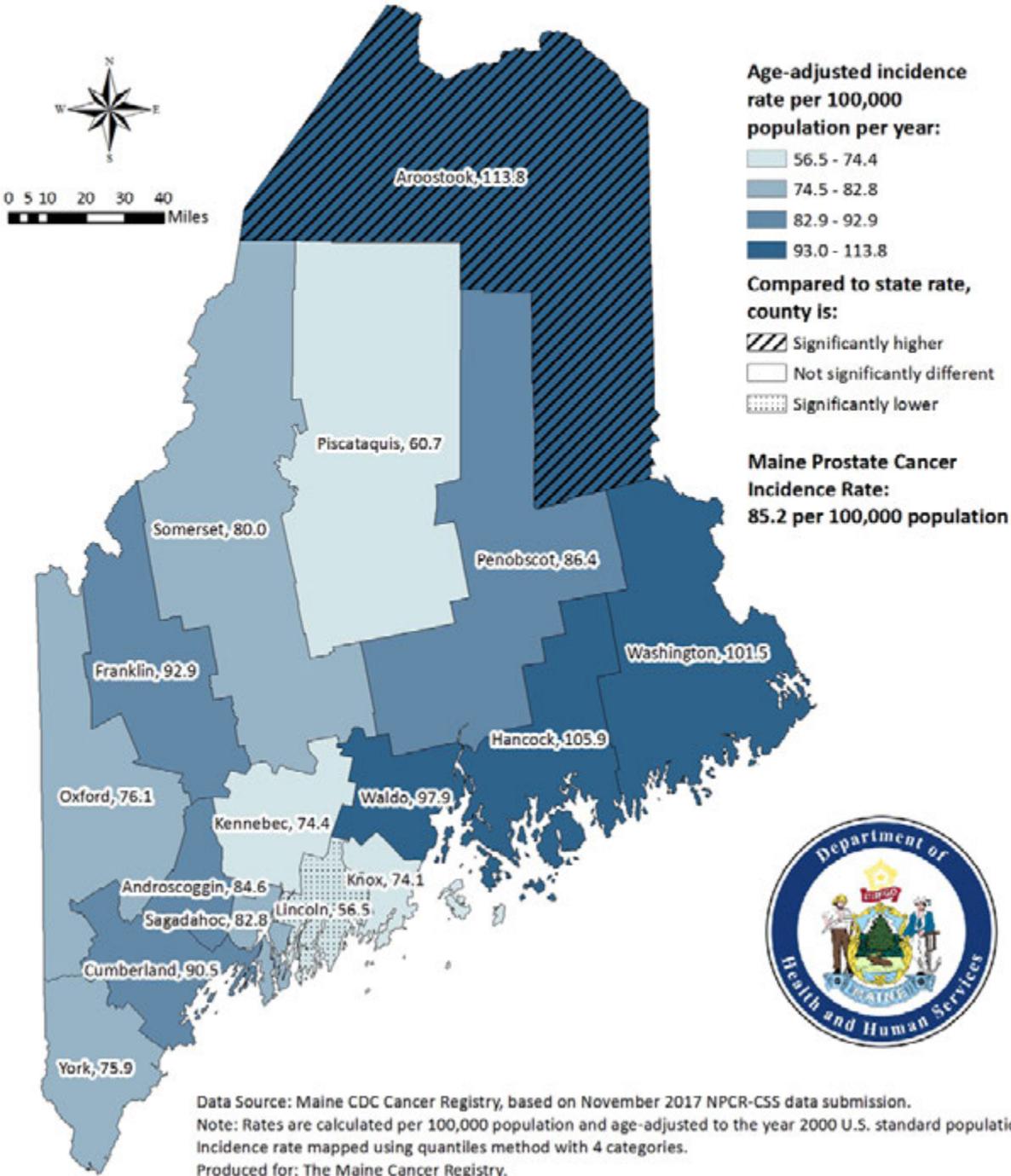
# Tobacco-Related Cancer Incidence Rate by County, Maine, 2013-2015



Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission. Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia. Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Incidence rate mapped using quantiles method with 4 categories. Produced for: The Maine Cancer Registry. Created 3/18/19 by Finn Teach. Data analyzed by USM Epidemiology.



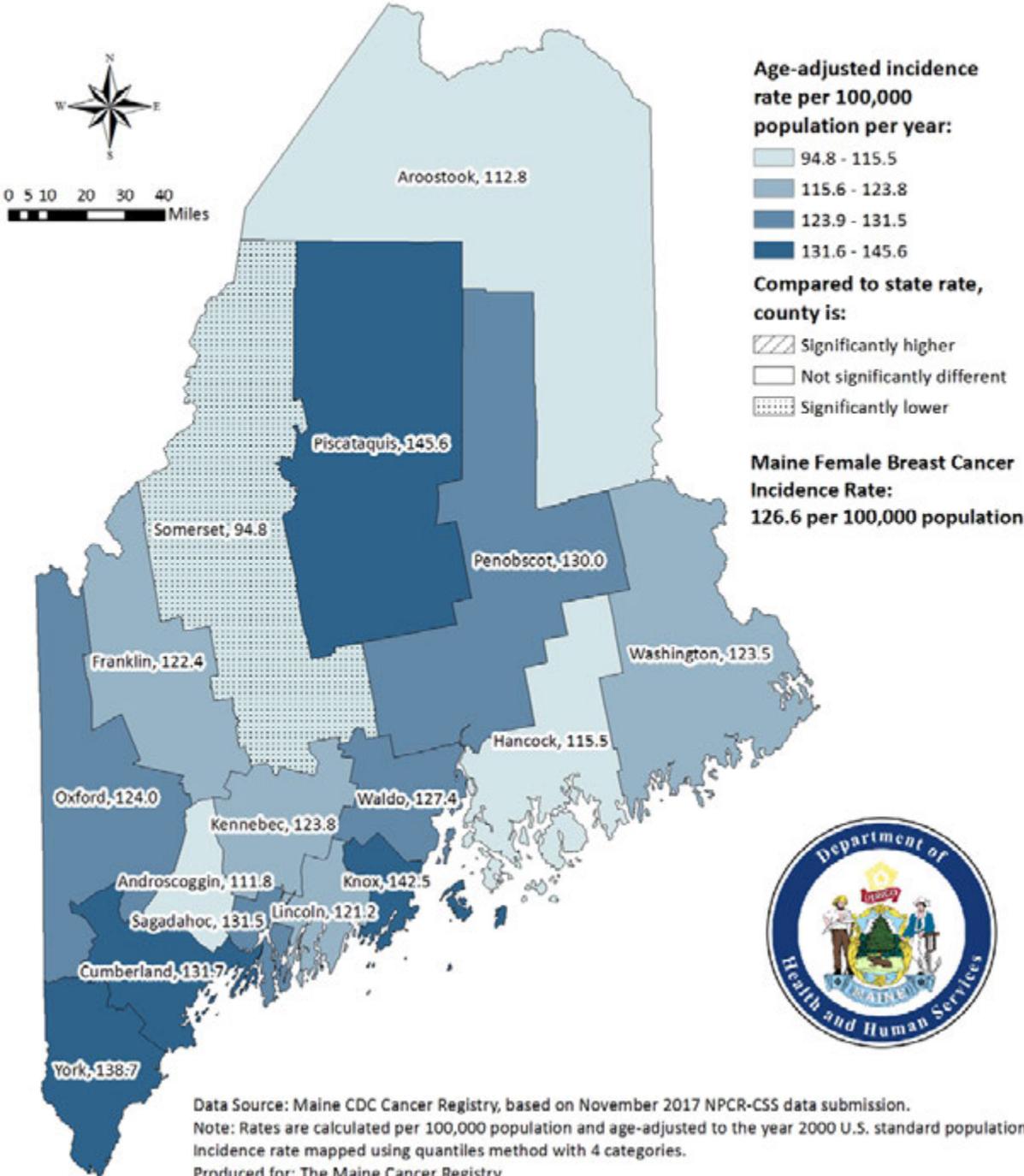
# Prostate Cancer Incidence Rate by County, Maine, 2013-2015



Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission.  
 Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.  
 Incidence rate mapped using quantiles method with 4 categories.  
 Produced for: The Maine Cancer Registry.  
 Created 3/18/19 by Finn Teach. Data analyzed by USM Epidemiology.



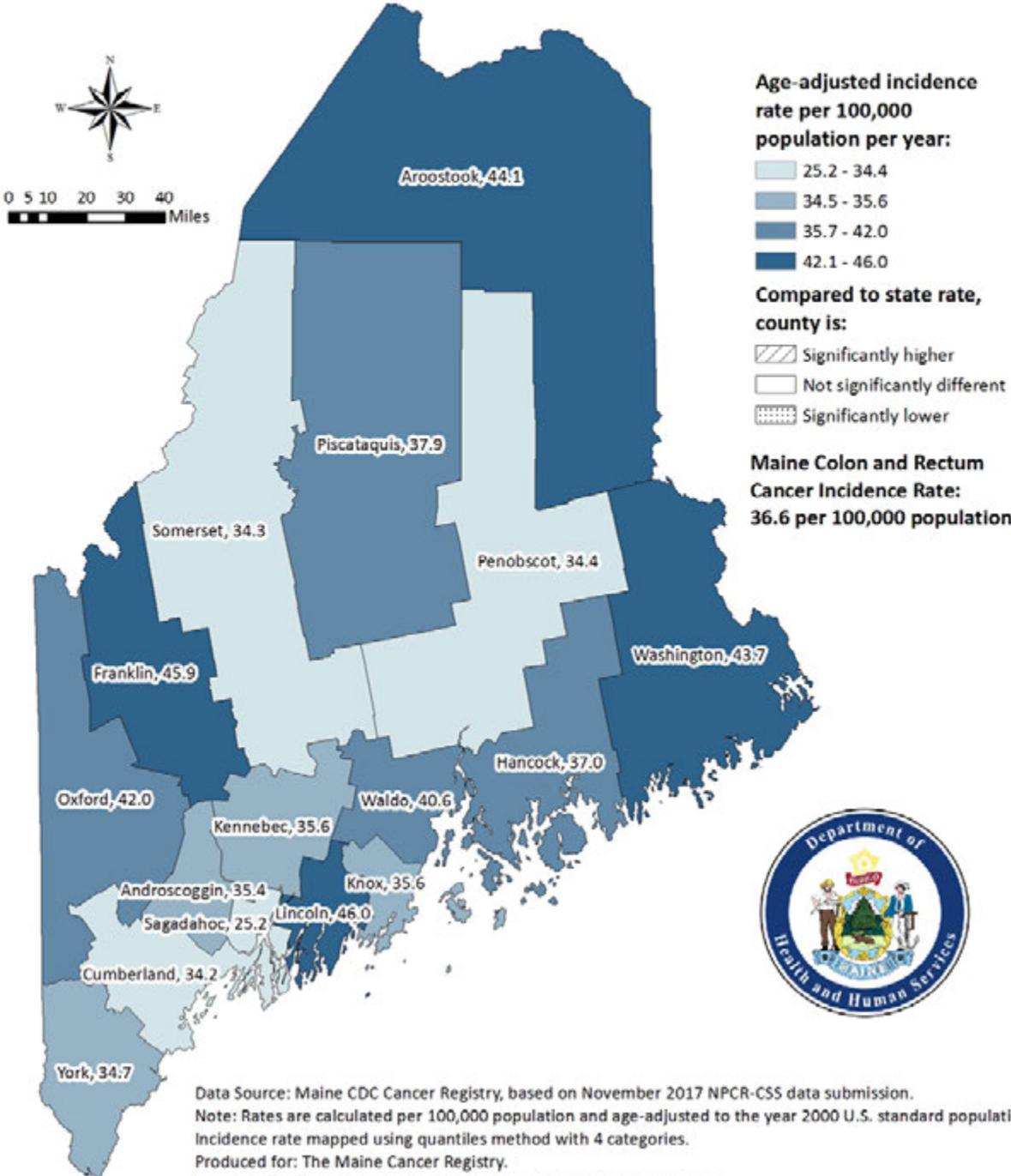
# Female Breast Cancer Incidence Rate by County, Maine, 2013-2015



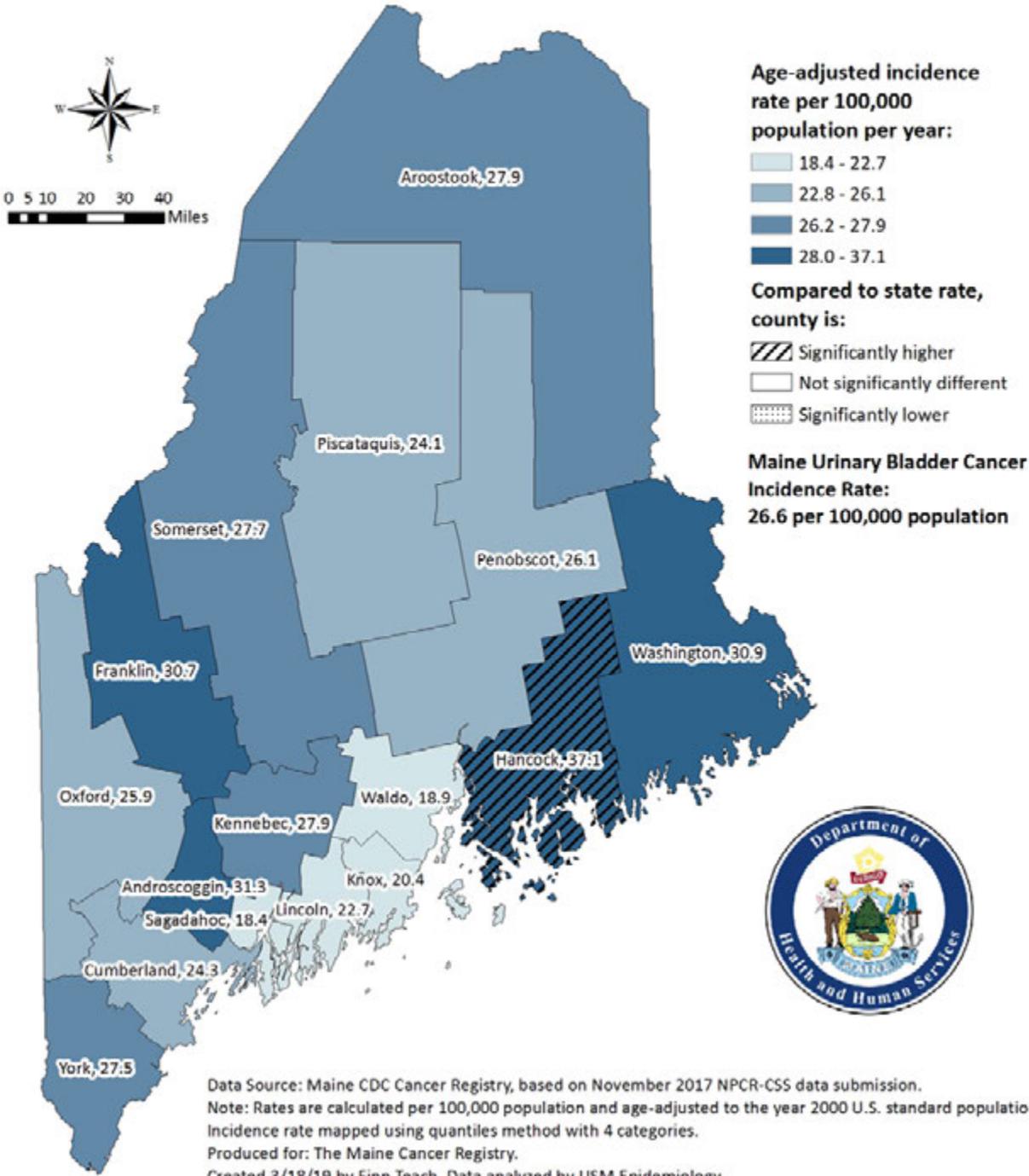
Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission.  
 Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.  
 Incidence rate mapped using quantiles method with 4 categories.  
 Produced for: The Maine Cancer Registry.  
 Created 3/18/19 by Finn Teach. Data analyzed by USM Epidemiology.



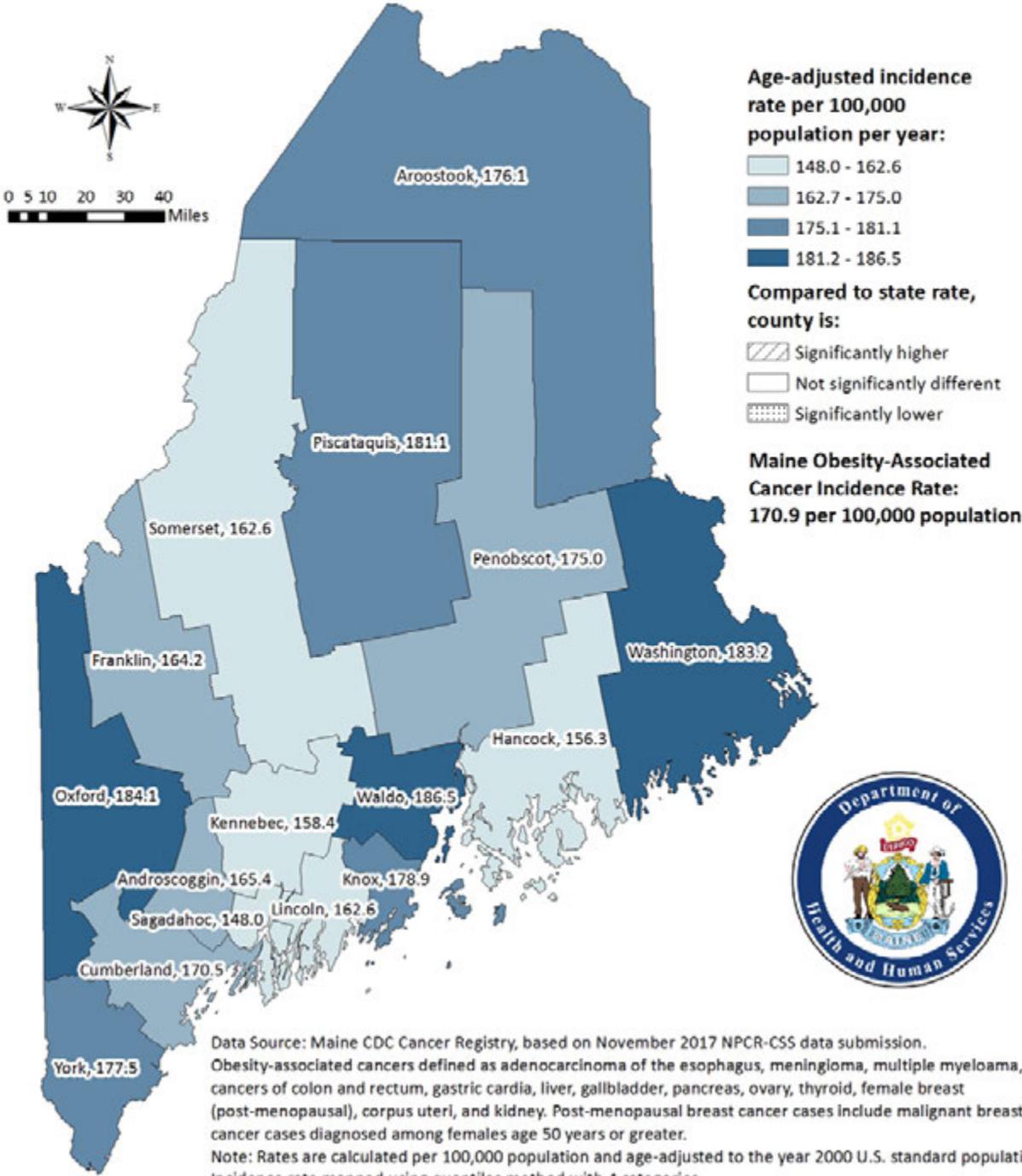
# Colon and Rectum Cancer Incidence Rate by County, Maine, 2013-2015



# Urinary Bladder Cancer Incidence Rate by County, Maine, 2013-2015



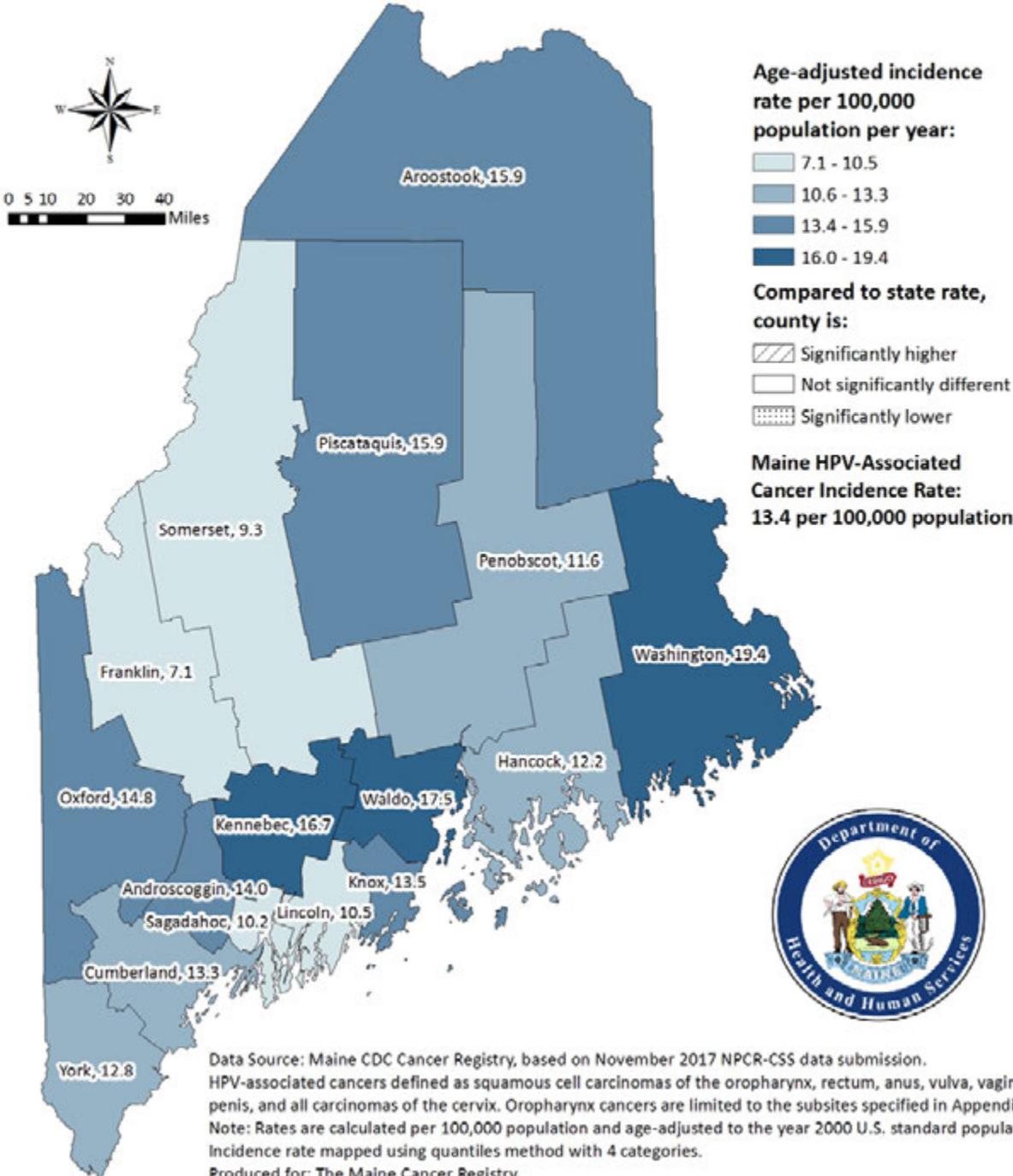
# Obesity-Associated Cancer Incidence Rate by County, Maine, 2013-2015



Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission.  
 Obesity-associated cancers defined as adenocarcinoma of the esophagus, meningioma, multiple myeloma, cancers of colon and rectum, gastric cardia, liver, gallbladder, pancreas, ovary, thyroid, female breast (post-menopausal), corpus uteri, and kidney. Post-menopausal breast cancer cases include malignant breast cancer cases diagnosed among females age 50 years or greater.  
 Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Incidence rate mapped using quantiles method with 4 categories.  
 Produced for: The Maine Cancer Registry.  
 Created 3/18/19 by Finn Teach. Data analyzed by USM Epidemiology.



# Human Papillomavirus-Associated Cancer Incidence Rate by County, Maine, 2013-2015



Data Source: Maine CDC Cancer Registry, based on November 2017 NPCR-CSS data submission. HPV-associated cancers defined as squamous cell carcinomas of the oropharynx, rectum, anus, vulva, vagina, penis, and all carcinomas of the cervix. Oropharynx cancers are limited to the subsites specified in Appendix 2. Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Incidence rate mapped using quantiles method with 4 categories. Produced for: The Maine Cancer Registry. Created 3/18/19 by Finn Teach. Data analyzed by USM Epidemiology.



# CANCER RELATED MORTALITY

**MORTALITY: STATE AND NATIONAL COMPARISONS****Age-adjusted Cancer Mortality Rate by Site, Maine 2015**

	<b>Total</b>			
	<b>Maine</b>		<b>U.S.</b>	
	<b>AA Rate (95% CI)</b>	<b>Count</b>	<b>U.S. Whites</b>	<b>U.S. All Races</b>
All Malignant Cancers	177.5 (171.4 - 183.7)	3,398	159.4 (158.9 - 159.8)	158.7 (158.3 - 159.1)
Lung and Bronchus	50.3 (47.2 - 53.7)	978	41.5 (41.3 - 41.7)	40.6 (40.4 - 40.8)
Tobacco-related, Excluding Lung and Bronchus	54.3 (51.0 - 57.8)	1,047	52.0 (51.8 - 52.3)	52.6 (52.3 - 52.8)
Colon and Rectum	13.8 (12.1 - 15.6)	263	13.7 (13.5 - 13.8)	14.0 (13.9 - 14.1)
Female Breast	See page 47 for sex specific rates			
Prostate	See page 46 for sex specific rates			
Pancreas	12.5 (10.9 - 14.2)	237	10.9 (10.8 - 11.0)	11.0 (10.9 - 11.1)
Non-Hodgkin Lymphoma	6.5 (5.4 - 7.8)	121	5.7 (5.6 - 5.8)	5.5 (5.4 - 5.5)
Leukemia	6.0 (5.0 - 7.3)	112	6.6 (6.5 - 6.6)	6.3 (6.2 - 6.4)
Esophagus	5.2 (4.3 - 6.4)	107	4.2 (4.2 - 4.3)	4.0 (3.9 - 4.0)
Liver & Intrahepatic Bile Duct	5.0 (4.1 - 6.2)	101	6.2 (6.1 - 6.3)	6.6 (6.5 - 6.7)
Urinary Bladder	5.2 (4.2 - 6.4)	100	4.6 (4.5 - 4.7)	4.4 (4.3 - 4.4)
Brain and Other Nervous System	5.0 (4.0 - 6.2)	90	4.8 (4.7 - 4.9)	4.4 (4.4 - 4.5)
Kidney and Renal Pelvis	4.3 (3.4 - 5.4)	82	3.9 (3.9 - 4.0)	3.8 (3.8 - 3.9)
Myeloma	3.7 (2.9 - 4.7)	72	3.1 (3.0 - 3.1)	3.3 (3.2 - 3.4)
Oral cavity and pharynx	2.9 (2.1 - 3.8)	58	2.5 (2.5 - 2.6)	2.5 (2.5 - 2.6)
Acute Myeloid Leukemia	2.5 (1.8 - 3.4)	47	2.8 (2.8 - 2.9)	2.7 (2.7 - 2.8)
Stomach	2.3 (1.7 - 3.2)	44	2.7 (2.6 - 2.8)	3.1 (3.0 - 3.1)
Melanoma of the Skin	2.4 (1.7 - 3.3)	43	2.8 (2.7 - 2.9)	2.4 (2.4 - 2.5)
Larynx	1.2 (0.8 - 1.9)	26	0.9 (0.9 - 1.0)	1.0 (0.9 - 1.0)
Thyroid	0.6 (0.3 - 1.1)	11	0.5 (0.5 - 0.5)	0.5 (0.5 - 0.5)
Hodgkin Lymphoma	~	~	0.3 (0.3 - 0.3)	0.3 (0.3 - 0.3)
Ovary	See page 47 for sex specific rates			
Corpus Uteri	See page 47 for sex specific rates			
Cervix Uteri	See page 47 for sex specific rates			
Testis	See page 46 for sex specific rates			

**Notes:**

-  A shaded cell indicates that the Maine rate is significantly higher than the 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.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.
- ~ Rates and counts are suppressed for privacy due to fewer than 10 cases.
- Cancer sites are ordered by descending Maine mortality counts.

**Data Source:**

- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2015)

## Age-adjusted Cancer Mortality Rates among Males by Site, Maine 2015

	Male			
	Maine		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	206.0 (196.2 - 216.2)	1,743	190.1 (189.4 - 190.8)	189.9 (189.3 - 190.6)
Tobacco-related, excl. Lung, Bronchus and Trachea	70.3 (64.6 - 76.3)	611	70.1 (69.7 - 70.6)	70.6 (70.2 - 71.0)
Lung and Bronchus	60.5 (55.3 - 66.1)	525	49.9 (49.5 - 50.3)	49.8 (49.4 - 50.1)
Prostate	20.1 (17.0 - 23.6)	159	17.7 (17.5 - 17.9)	18.9 (18.7 - 19.1)
Colon and Rectum	15.5 (12.9 - 18.6)	131	16.2 (16.0 - 16.5)	16.6 (16.4 - 16.8)
Pancreas	13.4 (11.0 - 16.3)	115	12.7 (12.5 - 12.9)	12.7 (12.5 - 12.8)
Esophagus	9.7 (7.8 - 12.1)	90	7.5 (7.4 - 7.7)	7.1 (6.9 - 7.2)
Urinary Bladder	8.9 (6.9 - 11.3)	71	7.9 (7.8 - 8.1)	7.5 (7.3 - 7.6)
Liver & Intrahepatic Bile Duct	7.2 (5.6 - 9.3)	69	9.0 (8.8 - 9.1)	9.7 (9.5 - 9.8)
Non-Hodgkin Lymphoma	8.3 (6.4 - 10.6)	68	7.4 (7.3 - 7.6)	7.1 (7.0 - 7.3)
Leukemia	7.9 (6.1 - 10.2)	65	8.8 (8.7 - 9.0)	8.5 (8.3 - 8.6)
Brain and Other Nervous System	6.3 (4.6 - 8.3)	53	5.8 (5.7 - 6.0)	5.4 (5.3 - 5.5)
Kidney and Renal Pelvis	5.9 (4.3 - 7.9)	49	5.8 (5.7 - 5.9)	5.6 (5.5 - 5.8)
Oral Cavity and Pharynx	3.7 (2.6 - 5.3)	35	3.9 (3.8 - 4.0)	3.9 (3.8 - 4.0)
Myeloma	4.0 (2.7 - 5.7)	32	4.0 (3.9 - 4.1)	4.2 (4.1 - 4.3)
Acute Myeloid Leukemia	3.1 (2.0 - 4.6)	26	3.7 (3.6 - 3.8)	3.5 (3.5 - 3.6)
Stomach	2.7 (1.7 - 4.1)	23	3.6 (3.5 - 3.7)	4.1 (4.0 - 4.2)
Melanoma of the Skin	2.7 (1.7 - 4.1)	23	4.1 (4.0 - 4.2)	3.6 (3.5 - 3.7)
Larynx	1.9 (1.1 - 3.1)	19	1.6 (1.6 - 1.7)	1.7 (1.7 - 1.8)
Thyroid	~	~	0.5 (0.5 - 0.6)	0.5 (0.5 - 0.6)
Hodgkin Lymphoma	~	~	0.4 (0.4 - 0.5)	0.4 (0.4 - 0.4)
Breast	~	~	0.3 (0.2 - 0.3)	0.3 (0.3 - 0.3)
Testis	~	~	0.3 (0.2 - 0.3)	0.2 (0.2 - 0.3)

## Notes:

-  A shaded cell indicates that the Maine rate is significantly higher than the 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.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.
- ~ Rates and counts are suppressed for privacy due to fewer than 10 cases.

## Data Source:

- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2015)

## Age-adjusted Cancer Mortality Rates among Females by Site, Maine 2015

	Female			
	Maine		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	156.7 (149.0 - 164.7)	1,655	136.5 (136.0 - 137.1)	135.8 (135.3 - 136.3)
Lung and Bronchus	42.4 (38.5 - 46.6)	453	34.9 (34.6 - 35.2)	33.6 (33.3 - 33.8)
Tobacco-related, excl. Lung and Bronchus	41.6 (37.7 - 45.9)	436	37.4 (37.1 - 37.7)	38.2 (37.9 - 38.4)
Breast	20.1 (17.4 - 23.2)	210	19.8 (19.6 - 20.0)	20.3 (20.1 - 20.5)
Colon and Rectum	12.4 (10.3 - 14.9)	132	11.5 (11.4 - 11.7)	11.8 (11.7 - 12.0)
Pancreas	11.7 (9.6 - 14.1)	122	9.4 (9.3 - 9.6)	9.6 (9.5 - 9.7)
Ovary	6.6 (5.1 - 8.5)	68	7.0 (6.8 - 7.1)	6.7 (6.6 - 6.9)
Non-Hodgkin Lymphoma	5.1 (3.8 - 6.9)	53	4.3 (4.2 - 4.4)	4.2 (4.1 - 4.3)
Corpus Uteri, Uterus NOS	4.3 (3.1 - 5.8)	48	4.4 (4.3 - 4.5)	4.8 (4.7 - 4.9)
Leukemia	4.7 (3.4 - 6.3)	47	4.8 (4.7 - 4.9)	4.6 (4.5 - 4.7)
Myeloma	3.5 (2.5 - 4.8)	40	2.4 (2.3 - 2.4)	2.6 (2.6 - 2.7)
Brain and Other Nervous System	3.8 (2.6 - 5.4)	37	3.9 (3.8 - 4.0)	3.6 (3.5 - 3.7)
Kidney and Renal Pelvis	3.0 (2.1 - 4.4)	33	2.4 (2.3 - 2.5)	2.3 (2.3 - 2.4)
Liver & Intrahepatic Bile Duct	3.1 (2.1 - 4.4)	32	3.8 (3.7 - 3.9)	4.0 (3.9 - 4.1)
Urinary Bladder	2.7 (1.8 - 3.9)	29	2.2 (2.2 - 2.3)	2.2 (2.1 - 2.2)
Oral Cavity and Pharynx	2.0 (1.3 - 3.2)	23	1.4 (1.3 - 1.4)	1.4 (1.3 - 1.4)
Stomach	2.1 (1.2 - 3.3)	21	2.0 (1.9 - 2.0)	2.2 (2.2 - 2.3)
Acute Myeloid Leukemia	2.1 (1.3 - 3.3)	21	2.2 (2.1 - 2.2)	2.1 (2.0 - 2.2)
Melanoma of the Skin	2.3 (1.3 - 3.6)	20	1.8 (1.7 - 1.8)	1.5 (1.5 - 1.6)
Esophagus	1.5 (0.9 - 2.6)	17	1.5 (1.4 - 1.5)	1.4 (1.4 - 1.5)
Cervix Uteri	2.0 (1.1 - 3.4)	16	2.2 (2.1 - 2.3)	2.3 (2.2 - 2.3)
Larynx	~	~	0.4 (0 - 0.4)	0.4 (0.3 - 0.4)
Thyroid	~	~	0.5 (0 - 0.5)	0.5 (0.5 - 0.5)
Hodgkin Lymphoma	~	~	0.2 (0 - 0.3)	0.2 (0.2 - 0.3)

## Notes:

- A shaded cell indicates that the Maine rate is significantly higher than the 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; NOS = Not otherwise specified
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.
- ~ Rates and counts are suppressed for privacy due to fewer than 10 cases.

## Data Source:

- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2015)

## All Cancers: Mortality by County of Residence, Maine 2011-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	183.0 (172.7 - 193.8)	244	210.6 (194.0 - 228.3)	124	162.3 (149.3 - 176.3)	120
Aroostook	179.4 (167.9 - 191.5)	195	217.3 (198.6 - 237.5)	105	152.0 (137.6 - 167.8)	90
Cumberland	168.2 (162.2 - 174.4)	619	201.6 (191.5 - 212.1)	312	146.0 (138.5 - 153.8)	307
Franklin	164.2 (147.1 - 182.9)	71	194.2 (167.2 - 224.9)	39	138.7 (117.4 - 163.3)	32
Hancock	162.5 (150.3 - 175.5)	139	199.8 (179.7 - 221.8)	77	131.7 (117.0 - 148.1)	62
Kennebec	182.1 (172.9 - 191.8)	301	221.3 (206.0 - 237.6)	163	152.3 (140.9 - 164.5)	139
Knox	170.6 (156.3 - 186.2)	112	211.4 (187.9 - 237.4)	62	141.6 (123.5 - 162.0)	50
Lincoln	163.1 (148.4 - 179.2)	99	193.0 (169.9 - 219.0)	54	140.3 (121.5 - 162.0)	45
Oxford	185.7 (172.6 - 199.7)	155	232.4 (210.6 - 255.9)	89	150.1 (133.9 - 168.1)	66
Penobscot	176.7 (168.4 - 185.4)	351	213.0 (199.2 - 227.4)	187	150.4 (140.1 - 161.4)	165
Piscataquis	205.0 (181.6 - 231.3)	59	247.0 (209.1 - 291.0)	33	170.7 (142.0 - 205.0)	26
Sagadahoc	179.7 (163.2 - 197.6)	91	204.6 (178.2 - 234.1)	45	160.3 (139.7 - 183.6)	45
Somerset	192.5 (178.1 - 208.0)	137	230.4 (206.8 - 256.1)	75	161.4 (143.6 - 181.0)	62
Waldo	174.9 (159.1 - 192.0)	96	206.4 (180.9 - 234.8)	51	152.7 (132.7 - 175.3)	45
Washington	209.4 (191.7 - 228.6)	108	262.2 (232.7 - 294.8)	61	166.4 (145.0 - 190.6)	47
York	174.4 (167.3 - 181.7)	476	205.7 (194.1 - 217.9)	246	150.8 (142.0 - 160.1)	230
Maine	176.4 (173.6 - 179.2)	3,252	211.8 (207.2 - 216.4)	1,721	150.1 (146.7 - 153.6)	1,531

## All Cancers: Mortality by Public Health District of Residence, Maine 2011-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	179.4 (167.9 - 191.5)	195	217.3 (198.6 - 237.5)	105	152.0 (137.6 - 167.8)	90
Central	185.2 (177.4 - 193.3)	438	224.2 (211.2 - 237.7)	237	154.9 (145.2 - 165.1)	201
Cumberland	168.2 (162.2 - 174.4)	619	201.6 (191.5 - 212.1)	312	146.0 (138.5 - 153.8)	307
Downeast	179.8 (169.7 - 190.5)	247	223.6 (206.7 - 241.7)	138	143.9 (131.7 - 157.2)	109
Midcoast	171.4 (163.7 - 179.4)	398	203.6 (191.2 - 216.7)	212	147.7 (137.9 - 158.0)	186
Penquis	180.5 (172.6 - 188.6)	410	217.5 (204.6 - 231.2)	219	153.1 (143.4 - 163.5)	191
Western	180.5 (173.2 - 188.2)	469	214.5 (202.5 - 227.0)	252	154.5 (145.2 - 164.3)	217
York	174.4 (167.3 - 181.7)	476	205.7 (194.1 - 217.9)	246	150.8 (142.0 - 160.1)	230
Maine	176.4 (173.6 - 179.2)	3,252	211.8 (207.2 - 216.4)	1,721	150.1 (146.7 - 153.6)	1,531

## Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Subgroup counts might not sum to Maine total due to rounding.

## Data Source:

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2015)

## Lung and Bronchus Cancer: Mortality by County of Residence, Maine 2011-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	56.9 (51.3 - 63.0)	77	66.7 (57.7 - 76.7)	42	48.0 (41.1 - 55.8)	36
Aroostook	56.2 (50.0 - 63.0)	62	67.8 (57.7 - 79.4)	34	47.6 (39.9 - 56.7)	29
Cumberland	47.7 (44.6 - 51.1)	175	59.3 (53.9 - 65.2)	92	39.7 (35.9 - 43.9)	83
Franklin	45.8 (37.0 - 56.4)	19	53.7 (39.9 - 71.2)	11	39.1 (28.2 - 53.5)	9
Hancock	47.9 (41.5 - 55.3)	41	59.6 (49.0 - 72.3)	23	38.7 (30.9 - 48.3)	18
Kennebec	50.4 (45.6 - 55.6)	84	61.5 (53.6 - 70.2)	47	41.3 (35.5 - 48.0)	37
Knox	48.4 (40.9 - 57.1)	31	62.9 (50.4 - 78.0)	18	38.4 (29.3 - 50.0)	13
Lincoln	42.6 (35.1 - 51.6)	25	51.7 (39.7 - 66.8)	13	35.3 (26.3 - 47.4)	11
Oxford	61.2 (53.9 - 69.4)	52	74.4 (62.6 - 88.0)	30	50.1 (41.1 - 60.9)	22
Penobscot	56.0 (51.4 - 61.0)	113	69.4 (61.7 - 77.8)	62	46.1 (40.4 - 52.3)	50
Piscataquis	62.0 (49.6 - 77.4)	18	78.5 (58.1 - 105.3)	10	48.7 (34.0 - 69.6)	7
Sagadahoc	49.1 (40.8 - 58.9)	25	58.7 (45.2 - 75.2)	14	41.3 (31.2 - 54.2)	12
Somerset	56.7 (49.0 - 65.4)	40	78.8 (65.3 - 94.4)	26	38.1 (29.7 - 48.3)	15
Waldo	52.9 (44.4 - 62.8)	29	68.6 (54.2 - 85.9)	17	41.9 (31.6 - 55.0)	12
Washington	62.6 (53.2 - 73.5)	33	73.0 (58.3 - 91.0)	18	53.2 (41.6 - 67.9)	15
York	48.3 (44.7 - 52.2)	134	57.2 (51.2 - 63.7)	71	41.1 (36.6 - 46.0)	63
Maine	51.6 (50.1 - 53.1)	960	63.3 (60.9 - 65.9)	527	42.4 (40.6 - 44.2)	432

## Lung and Bronchus Cancer: Mortality by Public Health District of Residence, Maine 2011-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	56.2 (50.0 - 63.0)	62	67.8 (57.7 - 79.4)	34	47.6 (39.9 - 56.7)	29
Central	52.3 (48.2 - 56.7)	125	66.7 (59.8 - 74.2)	73	40.4 (35.5 - 45.8)	52
Cumberland	47.7 (44.6 - 51.1)	175	59.3 (53.9 - 65.2)	92	39.7 (35.9 - 43.9)	83
Downeast	53.4 (48.0 - 59.4)	74	64.7 (55.9 - 74.7)	41	43.9 (37.2 - 51.6)	33
Midcoast	47.8 (43.8 - 52.2)	110	59.7 (53.1 - 67.0)	62	38.9 (34.0 - 44.5)	48
Penquis	56.7 (52.4 - 61.3)	130	70.4 (63.2 - 78.3)	73	46.4 (41.1 - 52.2)	58
Western	56.2 (52.2 - 60.5)	149	66.7 (60.3 - 73.7)	82	47.0 (42.0 - 52.5)	67
York	48.3 (44.7 - 52.2)	134	57.2 (51.2 - 63.7)	71	41.1 (36.6 - 46.0)	63
Maine	51.6 (50.1 - 53.1)	960	63.3 (60.9 - 65.9)	527	42.4 (40.6 - 44.2)	432

## Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Subgroup counts might not sum to Maine total due to rounding.

## Data Source:

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2015)

### Tobacco-related Cancers, Excluding Lung and Bronchus: Mortality by County of Residence, Maine 2011-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	55.7 (50.1 - 61.8)	74	75.0 (65.2 - 85.9)	44	41.2 (34.7 - 48.6)	30
Aroostook	54.7 (48.5 - 61.5)	60	76.4 (65.6 - 88.7)	38	36.9 (30.1 - 44.9)	23
Cumberland	52.8 (49.5 - 56.4)	194	72.3 (66.3 - 78.6)	113	38.3 (34.5 - 42.4)	81
Franklin	44.9 (36.4 - 55.1)	20	63.0 (48.5 - 81.1)	14	29.0 (19.7 - 41.9)	7
Hancock	46.9 (40.5 - 54.2)	41	60.7 (50.0 - 73.4)	24	34.5 (27.2 - 43.6)	16
Kennebec	57.3 (52.2 - 62.8)	96	72.7 (64.1 - 82.1)	55	45.1 (39.0 - 52.0)	41
Knox	52.5 (44.7 - 61.5)	35	78.3 (64.2 - 95.0)	23	31.7 (23.7 - 42.1)	12
Lincoln	51.9 (43.9 - 61.3)	32	72.1 (58.6 - 88.6)	21	35.4 (26.3 - 47.6)	12
Oxford	58.3 (51.1 - 66.4)	49	84.2 (71.3 - 98.9)	32	37.1 (29.4 - 46.6)	17
Penobscot	50.0 (45.7 - 54.8)	99	67.6 (60.0 - 76.0)	59	35.9 (31.0 - 41.6)	39
Piscataquis	58.3 (46.4 - 73.2)	17	79.1 (59.1 - 105.4)	11	38.8 (26.0 - 57.8)	6
Sagadahoc	43.9 (36.0 - 53.1)	23	48.6 (36.4 - 64.0)	11	38.9 (29.3 - 51.3)	11
Somerset	61.0 (53.0 - 70.0)	44	78.3 (65.0 - 93.8)	26	46.0 (36.8 - 57.2)	18
Waldo	56.2 (47.5 - 66.2)	32	75.5 (60.5 - 93.5)	19	40.0 (30.5 - 52.0)	13
Washington	65.9 (56.2 - 77.0)	34	89.0 (72.4 - 108.7)	21	45.8 (35.1 - 59.7)	13
York	53.6 (49.7 - 57.8)	146	67.9 (61.3 - 75.1)	82	41.6 (37.0 - 46.7)	63
Maine	53.8 (52.3 - 55.3)	996	71.9 (69.3 - 74.7)	594	39.1 (37.3 - 40.9)	402

### Tobacco-related Cancers, Excluding Lung and Bronchus: Mortality by Public Health District of Residence, Maine 2011-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	54.7 (48.5 - 61.5)	60	76.4 (65.6 - 88.7)	38	36.9 (30.1 - 44.9)	23
Central	58.6 (54.2 - 63.2)	140	74.7 (67.4 - 82.7)	81	45.4 (40.2 - 51.1)	59
Cumberland	52.8 (49.5 - 56.4)	194	72.3 (66.3 - 78.6)	113	38.3 (34.5 - 42.4)	81
Downeast	53.8 (48.4 - 59.8)	75	71.5 (62.2 - 82.0)	45	38.3 (32.2 - 45.6)	30
Midcoast	51.2 (47.1 - 55.6)	121	69.7 (62.5 - 77.5)	74	36.1 (31.5 - 41.3)	47
Penquis	51.3 (47.2 - 55.8)	116	69.5 (62.3 - 77.4)	71	36.5 (31.8 - 41.7)	45
Western	54.8 (50.8 - 59.1)	143	75.8 (68.7 - 83.4)	90	38.0 (33.5 - 43.1)	54
York	53.6 (49.7 - 57.8)	146	67.9 (61.3 - 75.1)	82	41.6 (37.0 - 46.7)	63
Maine	53.8 (52.3 - 55.3)	996	71.9 (69.3 - 74.7)	594	39.1 (37.3 - 40.9)	402

#### Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.
- Subgroup counts might not sum to Maine total due to rounding.

#### Data Source:

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2015)

### Prostate Cancer: Mortality by County of Residence, Maine 2011-2015

	Male	
	AA Rate (95% CI)	Count/Yr
Androscoggin	12.5 (8.6 - 17.4)	7
Aroostook	19.2 (13.8 - 26.2)	9
Cumberland	19.8 (16.6 - 23.4)	28
Franklin	15.3 (8.2 - 26.4)	3
Hancock	21.0 (14.6 - 29.4)	7
Kennebec	23.4 (18.4 - 29.3)	16
Knox	18.5 (12.2 - 27.7)	5
Lincoln	14.8 (9.1 - 23.7)	4
Oxford	14.1 (8.9 - 21.5)	5
Penobscot	16.2 (12.5 - 20.8)	13
Piscataquis	21.4 (11.3 - 38.7)	3
Sagadahoc	34.5 (23.9 - 48.5)	7
Somerset	21.9 (14.8 - 31.5)	6
Waldo	16.3 (9.5 - 26.3)	4
Washington	33.4 (23.2 - 47.0)	7
York	20.9 (17.2 - 25.2)	23
Maine	19.6 (18.2 - 21.1)	147

### Prostate Cancer: Mortality by Public Health District of Residence, Maine 2011-2015

	Male	
	AA Rate (95% CI)	Count/Yr
Aroostook	19.2 (13.8 - 26.2)	9
Central	23.0 (18.8 - 27.8)	22
Cumberland	19.8 (16.6 - 23.4)	28
Downeast	25.7 (20.1 - 32.7)	15
Midcoast	20.5 (16.7 - 25.1)	20
Penquis	17.0 (13.4 - 21.3)	16
Western	13.4 (10.5 - 17.0)	15
York	20.9 (17.2 - 25.2)	23
Maine	19.6 (18.2 - 21.1)	147

#### Notes:

-  A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Subgroup counts might not sum to Maine total due to rounding.

#### Data Source:

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2015)

### Female Breast Cancer: Mortality by County of Residence, Maine 2011-2015

	Female	
	AA Rate (95% CI)	Count/Yr
Androscoggin	17.7 (13.5 - 22.9)	13
Aroostook	18.1 (13.1 - 24.7)	10
Cumberland	19.8 (17.1 - 22.8)	41
Franklin	22.1 (13.9 - 34.2)	5
Hancock	14.1 (9.7 - 20.4)	7
Kennebec	16.6 (13.0 - 21.0)	15
Knox	23.3 (16.1 - 33.1)	8
Lincoln	16.2 (10.1 - 25.6)	5
Oxford	15.3 (10.3 - 22.2)	7
Penobscot	17.6 (14.1 - 21.8)	18
Piscataquis	21.5 (12.2 - 37.4)	3
Sagadahoc	19.7 (12.6 - 29.9)	5
Somerset	18.1 (12.6 - 25.6)	7
Waldo	12.1 (6.6 - 20.6)	3
Washington	15.6 (9.6 - 25.0)	4
York	18.7 (15.6 - 22.2)	28
Maine	18.0 (16.8 - 19.3)	180

### Female Breast Cancer: Mortality by Public Health District of Residence, Maine 2011-2015

	Female	
	AA Rate (95% CI)	Count/Yr
Aroostook	18.1 (13.1 - 24.7)	10
Central	17.1 (14.0 - 20.7)	23
Cumberland	19.8 (17.1 - 22.8)	41
Downeast	14.5 (10.9 - 19.3)	11
Midcoast	18.0 (14.6 - 22.2)	21
Penquis	18.1 (14.8 - 22.1)	22
Western	17.6 (14.5 - 21.2)	24
York	18.7 (15.6 - 22.2)	28
Maine	18.0 (16.8 - 19.3)	180

#### Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Subgroup counts might not sum to Maine total due to rounding.

#### Data Source:

- National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2015)

## Colon and Rectum Cancer: Mortality by County of Residence, Maine 2011-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	12.5 (9.9 - 15.6)	16	15.3 (11.0 - 20.7)	9	10.4 (7.2 - 14.5)	8
Aroostook	13.4 (10.4 - 17.2)	14	13.4 (9.1 - 19.4)	6	13.2 (9.2 - 18.6)	8
Cumberland	12.0 (10.4 - 13.8)	43	12.8 (10.3 - 15.7)	19	11.6 (9.5 - 14.0)	24
Franklin	11.9 (7.7 - 18.0)	5	14.5 (8.1 - 24.8)	3	9.9 (4.7 - 19.2)	2
Hancock	14.7 (11.2 - 19.1)	13	14.8 (9.8 - 22.0)	6	14.0 (9.6 - 20.2)	7
Kennebec	15.4 (12.8 - 18.4)	25	18.4 (14.1 - 23.7)	13	13.5 (10.3 - 17.6)	12
Knox	10.0 (6.9 - 14.4)	7	12.4 (7.4 - 20.2)	4	7.8 (4.4 - 14.0)	3
Lincoln	12.0 (8.5 - 17.0)	8	17.2 (10.9 - 26.7)	5	8.3 (4.6 - 15.4)	3
Oxford	15.4 (11.8 - 20.0)	13	18.9 (12.9 - 27.0)	7	12.8 (8.6 - 18.8)	6
Penobscot	12.3 (10.2 - 14.8)	24	*	*	*	*
Piscataquis	14.7 (8.9 - 24.0)	4	*	*	~	~
Sagadahoc	11.1 (7.5 - 16.3)	6	8.1 (3.8 - 15.8)	2	12.8 (7.8 - 20.7)	4
Somerset	13.3 (9.7 - 18.0)	9	11.9 (7.0 - 19.2)	4	14.5 (9.4 - 21.6)	5
Waldo	19.0 (14.1 - 25.3)	10	24.2 (15.9 - 35.5)	6	14.8 (9.3 - 23.0)	5
Washington	18.4 (13.6 - 24.8)	10	23.3 (15.2 - 34.8)	5	14.1 (8.8 - 22.5)	4
York	13.5 (11.6 - 15.8)	36	17.1 (13.8 - 21.0)	20	10.4 (8.2 - 13.2)	16
Maine	13.4 (12.6 - 14.2)	244	15.4 (14.2 - 16.8)	123	11.7 (10.8 - 12.7)	122

## Colon and Rectum Cancer: Mortality by Public Health District of Residence, Maine 2011-2015

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	13.4 (10.4 - 17.2)	14	13.4 (9.1 - 19.4)	6	13.2 (9.2 - 18.6)	8
Central	14.8 (12.7 - 17.3)	35	16.6 (13.2 - 20.8)	17	13.8 (11.0 - 17.1)	18
Cumberland	12.0 (10.4 - 13.8)	43	12.8 (10.3 - 15.7)	19	11.6 (9.5 - 14.0)	24
Downeast	16.1 (13.2 - 19.5)	23	18.1 (13.6 - 23.9)	11	13.9 (10.5 - 18.4)	11
Midcoast	12.8 (10.8 - 15.1)	31	15.4 (12.2 - 19.4)	16	10.7 (8.3 - 13.6)	15
Penquis	12.6 (10.6 - 15.0)	28	*	*	*	*
Western	13.4 (11.4 - 15.6)	34	16.3 (13.0 - 20.1)	18	11.1 (8.7 - 14.0)	16
York	13.5 (11.6 - 15.8)	36	17.1 (13.8 - 21.0)	20	10.4 (8.2 - 13.2)	16
Maine	13.4 (12.6 - 14.2)	244	15.4 (14.2 - 16.8)	123	11.7 (10.8 - 12.7)	122

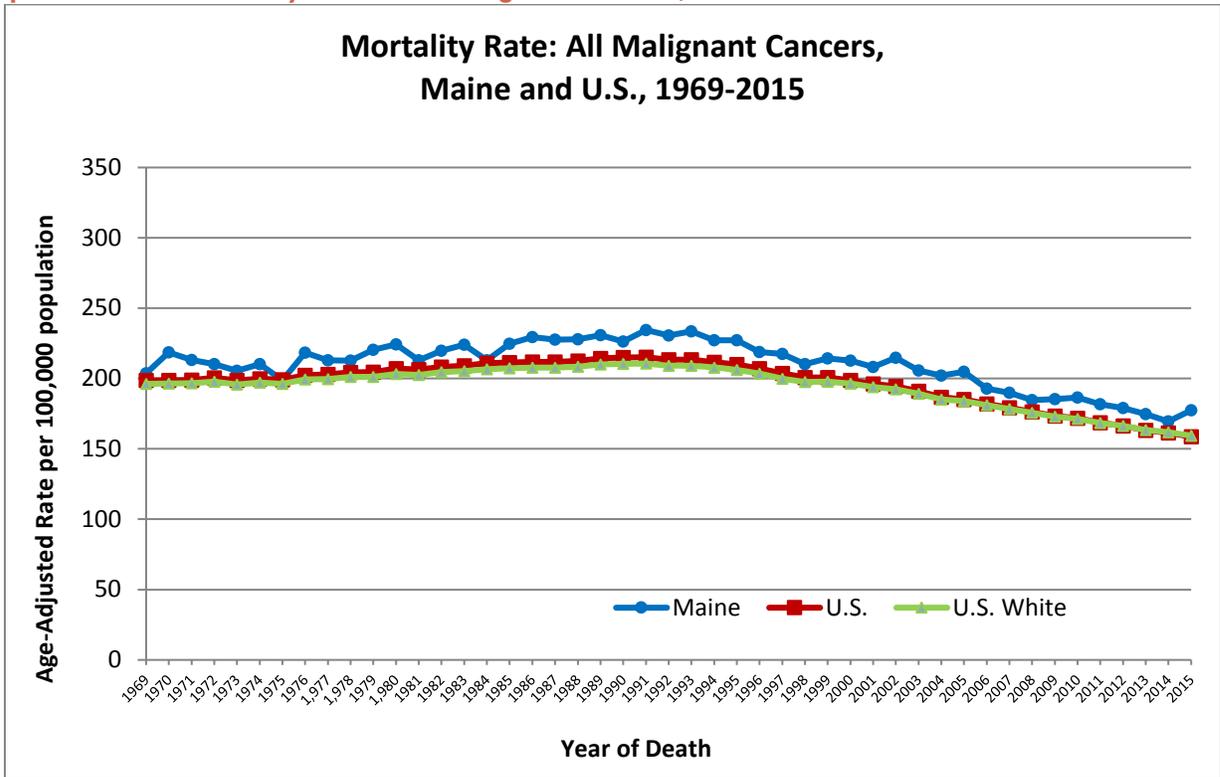
## Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the 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.
- Subgroup counts might not sum to Maine total due to rounding.
- ~ Rates and counts are suppressed for privacy due to fewer than 10 cases over five year period.
- \* Rates and counts are suppressed due to complementary suppression privacy rules.

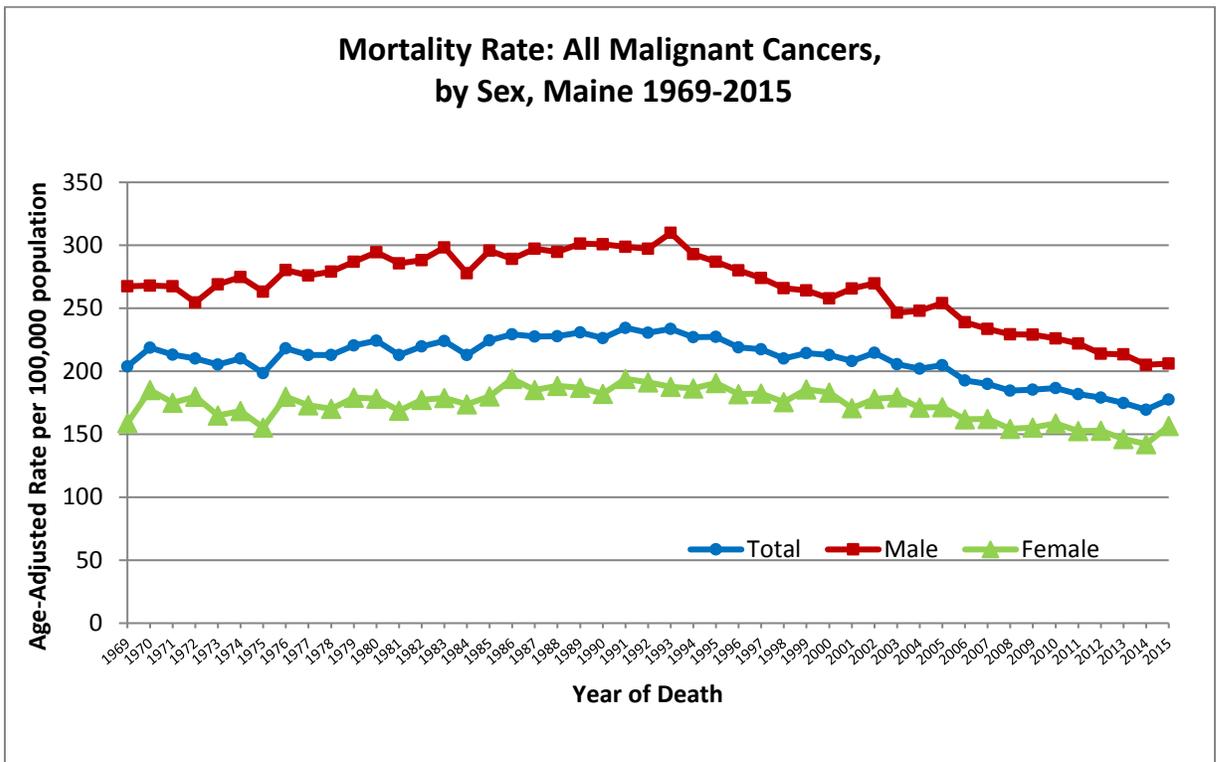
## Data Source:

- National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2015)

Age-adjusted Cancer Mortality Trend: All Malignant Cancers, U.S. and Maine 1969-2015



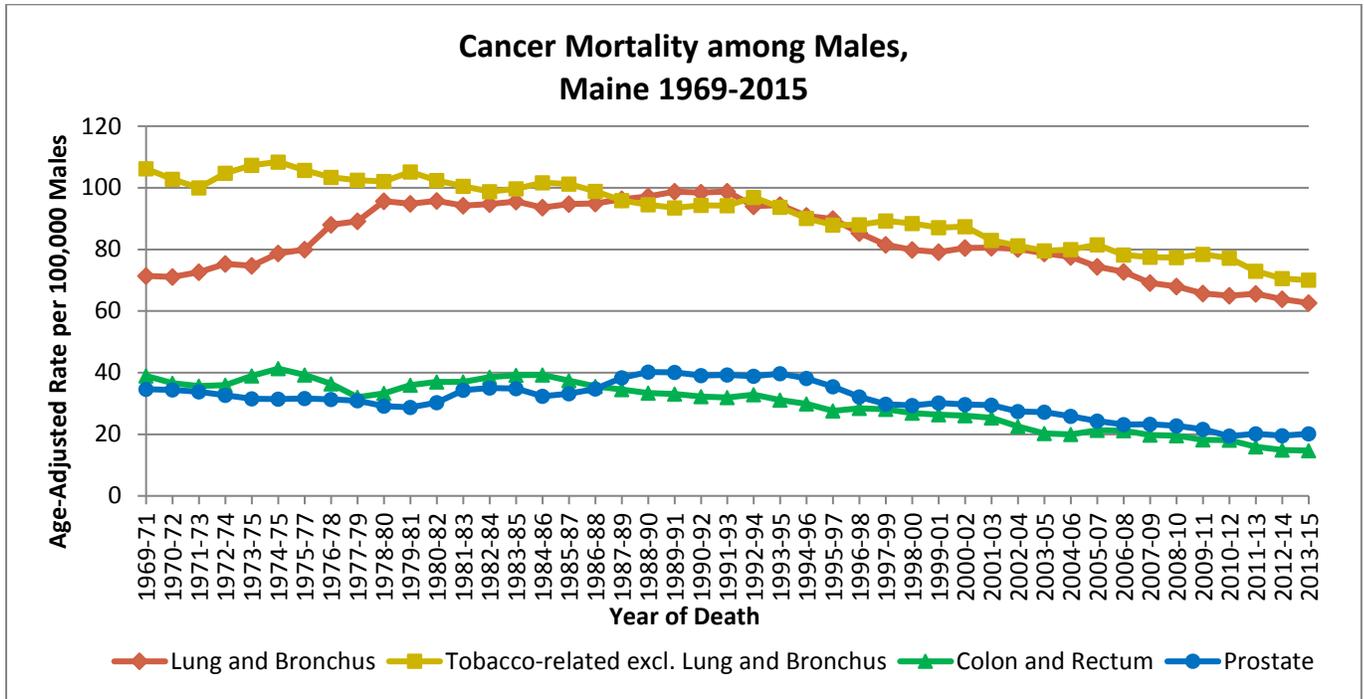
Age-adjusted Cancer Mortality Trend: All Malignant Cancers, Maine 1969-2015



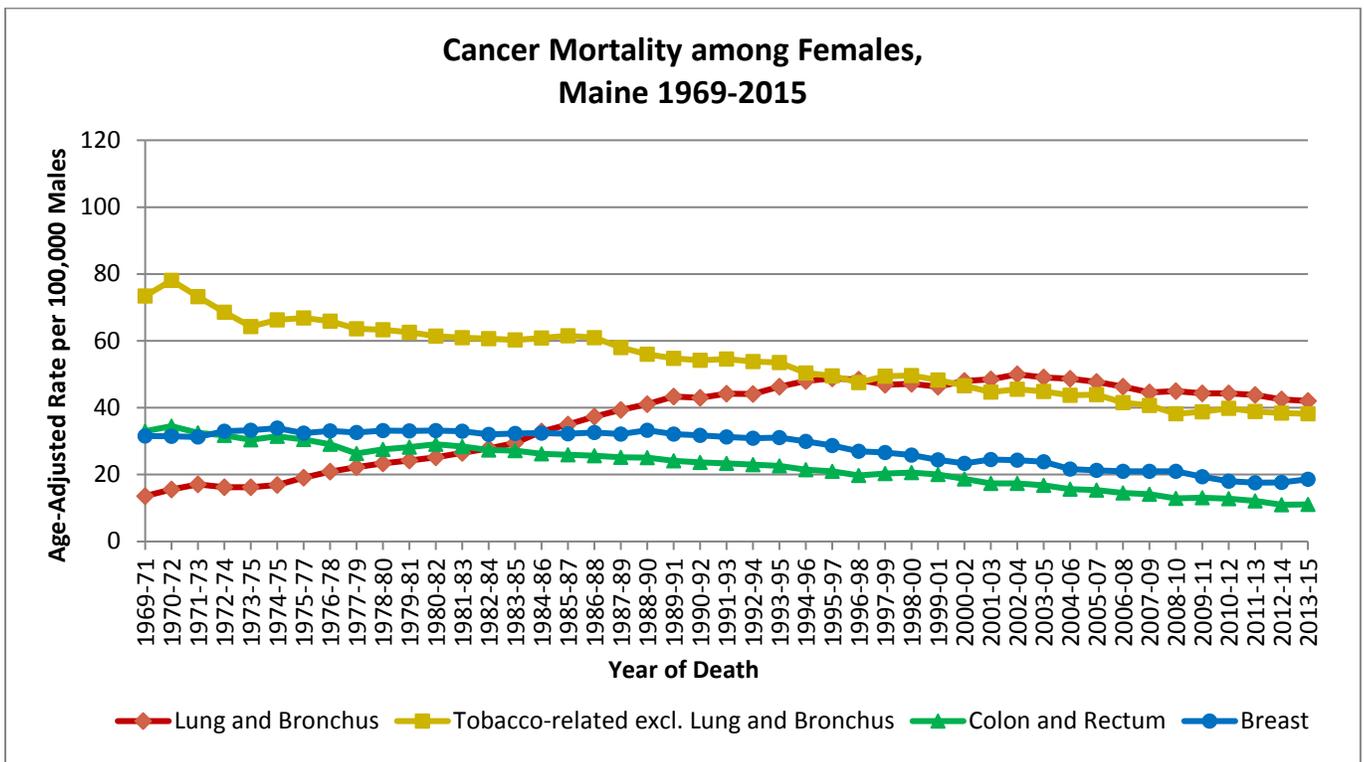
Data Source:

National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2015)

Age-adjusted Cancer Mortality Trend: Leading Causes among Males, Maine 1969-2015



Age-adjusted Cancer Mortality Trend: Leading Causes among Females, Maine 1969-2015



Notes:

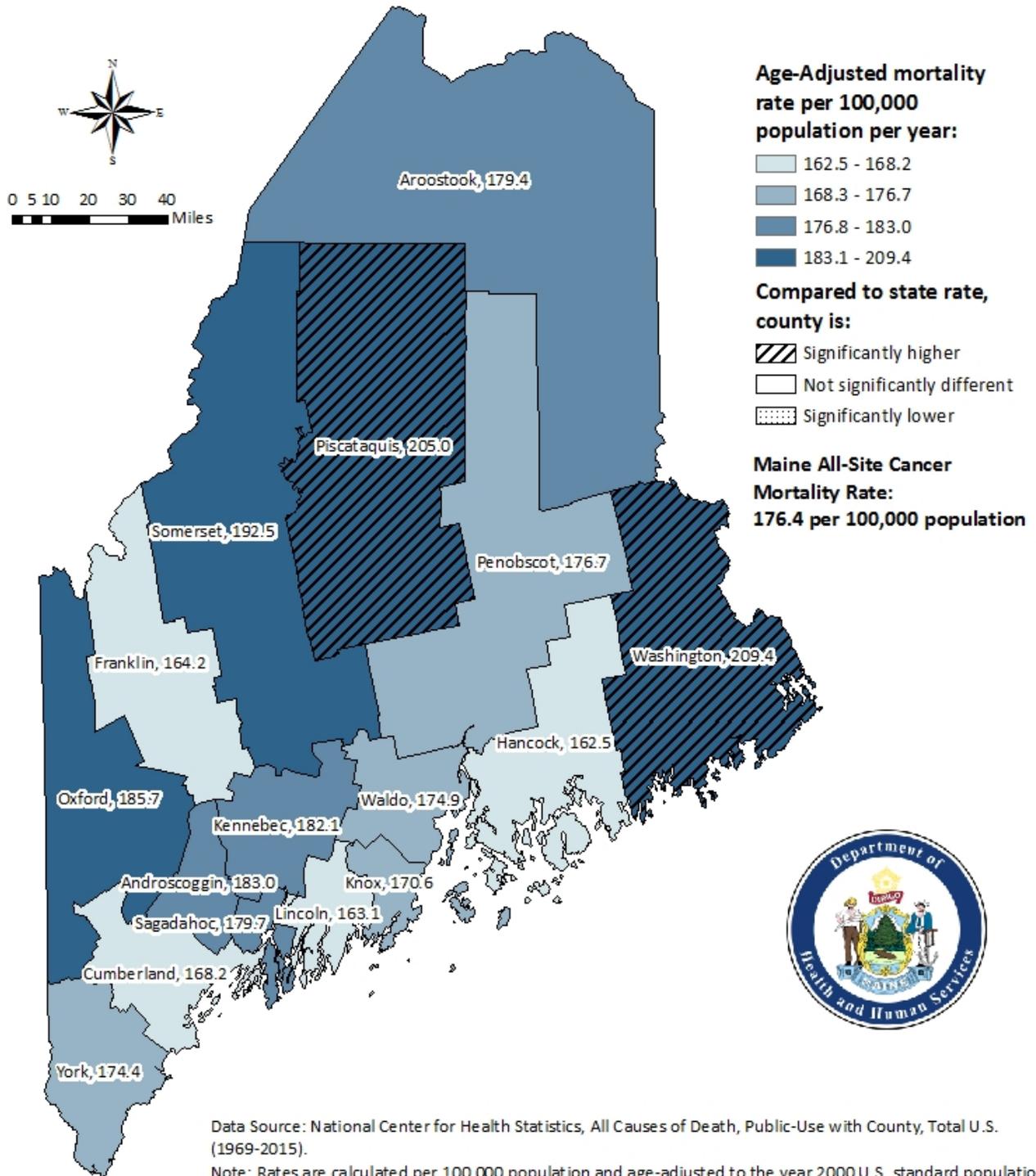
Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.

Data Source:

National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2015)

# CANCER MORTALITY MAP

## All-Site Cancer Mortality Rate by County, Maine, 2011-2015



Data Source: National Center for Health Statistics, All Causes of Death, Public-Use with County, Total U.S. (1969-2015).

Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Incidence rate mapped using quantiles method with 4 categories.

Map created 3/18/19 by Finn Teach. Data analyzed by USM Epidemiology.

# Appendix 1

## INCIDENCE CASE DEFINITIONS

Incidence data presented in this report are based on SEER site recode ICD-O-3/WHO 2008 definitions, version 2008. The following table was accessed from the National Cancer Institute Surveillance, Epidemiology, and End Results (SEER) Program: [https://seer.cancer.gov/siterecode/icdo3\\_dwhohome/index.html](https://seer.cancer.gov/siterecode/icdo3_dwhohome/index.html).

The primary site reported is the site of origin and not the metastatic site. In general, the incidence rate does not include recurrences. The number of cancers may include multiple primary cancers occurring in one patient.

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 Uteri 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	
<b>Myeloma</b>		9731-9732, 9734	34000
<b>Leukemia</b>			
Lymphocytic Leukemia			
Acute Lymphocytic Leukemia		9826, 9835-9836	35011

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
	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

## DEFINITIONS OF GROUPS OF TOBACCO-RELATED CANCERS

See page 2 for more details on tobacco-related vs. tobacco-associated cancers.

Tobacco-Related Cancers			
Cancer	ICD-O-3 site codes	ICD-O-3 histology codes	Additional restrictions
Lip, oral cavity, pharynx	C00.0–14.8	8000–9049, 9056–9139, 9141–9589	
Esophagus	C15.0–15.9	8000–9049, 9056–9139, 9141–9589	
Stomach	C16.0–16.9	8000–9049, 9056–9139, 9141–9589	
Colon and rectum	C18.0–20.9, C26.0	8000–9049, 9056–9139, 9141–9589	
Liver	C22.0	8000–9049, 9056–9139, 9141–9589	
Pancreas	C25.0–25.9	8000–9049, 9056–9139, 9141–9589	
Larynx	C32.0–32.9	8000–9049, 9056–9139, 9141–9589	
Cervix uteri	C53.0–53.9	8000–9049, 9056–9139, 9141–9589	Restrict to females
Kidney and renal pelvis	C64.9–65.9	8000–9049, 9056–9139, 9141–9589	
Urinary bladder	C67.0–67.9	8000–9049, 9056–9139, 9141–9589	
Acute myeloid leukemia		9840; 9861; 9865–9869; 9871–9874 9895–9898; 9910–9911; 9920	

## DEFINITIONS OF GROUPS OF CANCERS (TOBACCO, HPV, OBESITY)

Incidence data for risk factor associated cancers presented in this report are based on SEER definitions using National Cancer Institute Surveillance, Epidemiology, and End Results (SEER) Program; accessed from <https://www.cdc.gov/cancer/npcr/pdf/public-use/predefined-seer-stat-variables.pdf>. Definitions updated October 2018.

### Predefined SEER\*Stat Variables for Calculating the Number of Associated Cancers for Selected Risk Factors

Cancer	ICD-O-3 site	ICD-O-3 histology codes	Additional restrictions
Tobacco-Associated Cancers			
Lip, oral cavity, pharynx	C00.0–14.8	8000–9049, 9056–9139, 9141–9589	
Esophagus	C15.0–15.9	8000–9049, 9056–9139, 9141–9589	
Stomach	C16.0–16.9	8000–9049, 9056–9139, 9141–9589	
Colon and rectum	C18.0–20.9, C26.0	8000–9049, 9056–9139, 9141–9589	
Liver	C22.0	8000–9049, 9056–9139, 9141–9589	
Pancreas	C25.0–25.9	8000–9049, 9056–9139, 9141–9589	
Larynx	C32.0–32.9	8000–9049, 9056–9139, 9141–9589	
Trachea, lung, bronchus	C33.9–34.9	8000–9049, 9056–9139, 9141–9589	
Cervix uteri	C53.0–53.9	8000–9049, 9056–9139, 9141–9589	Restrict to females
Kidney and renal pelvis	C64.9–65.9	8000–9049, 9056–9139, 9141–9589	
Urinary bladder	C67.0–67.9	8000–9049, 9056–9139, 9141–9589	
Acute myeloid leukemia		9840; 9861; 9865–9869; 9871–9874 9895–9898; 9910–9911; 9920	

Human Papillomavirus-Associated Cancers			
Squamous cell carcinoma of the oropharynx	C01.9, 02.4, 02.8, 05.1–05.2, 09.0–09.1, 09.8–09.9, 10.0–10.9, 10.8–10.9, 14.0, 14.2, 14.8	8050–8084, 8120–8131	Restrict to microscopically confirmed
Squamous cell carcinoma of the rectum	C20.9	8050–8084, 8120–8131	Restrict to microscopically confirmed
Squamous cell carcinoma of the anus	C21.0–21.8	8050–8084, 8120–8131	Restrict to microscopically confirmed
Squamous cell carcinoma of the vulva	C51.0–51.9	8050–8084, 8120–8131	Restrict to females, microscopically confirmed
Squamous cell carcinoma of the vagina	C52.9	8050–8084, 8120–8131	Restrict to females, microscopically confirmed
Carcinoma of the cervix	C53.0–53.9	8010–8671, 8940–8941	Restrict to females, microscopically confirmed
Squamous cell carcinoma of the penis	C60.0–60.9	8050–8084, 8120–8131	Restrict to males, microscopically confirmed
Obesity-Associated Cancers			
Adenocarcinoma of the esophagus	C15.0–15.9	8140–8575	Restrict to microscopically confirmed
Gastric cardia	C16.0	8000–9049, 9056–9139, 9141–9589	
Colon and rectum	C18.0–20.9, C26.0	8000–9049, 9056–9139, 9141–9589	
Liver	C22.0	8000–9049, 9056–9139, 9141–9589	
Gallbladder	C23.9	8000–9049, 9056–9139, 9141–9589	
Pancreas	C25.0–25.9	8000–9049, 9056–9139, 9141–9589	
Multiple myeloma	C42.1	8000–9049, 9056–9139, 9141–9589, 9732	
Postmenopausal female breast	C50.0–50.9	8000–9049, 9056–9139, 9141–9589	Restrict to females and ≥50 yrs
Corpus and uterus, NOS (not otherwise specified)	C54.0–54.9, C55.9	8000–9049, 9056–9139, 9141–9589	Restrict to females
Ovary	C56.9	8000–9049, 9056–9139, 9141–9589	Restrict to females
Kidney	C64.9	8000–9049, 9056–9139, 9141–9589	
Meningioma	C70.0–70.1,	9530–9539	
Thyroid	C73.9	8000–9049, 9056–9139, 9141–9589	

# Appendix 3

## MORTALITY CASE DEFINITIONS:

Based on SEER Cause of Death Recode. SEER major site groupings of cause of death based on the International Classification of Diseases. Accessed from <https://seer.cancer.gov/codrecode/1969+ d03012018/index.html>

Cancer Causes of Death	ICD-9 (1979-1998)#	ICD-10 (1999+)#	Recode
<b>All Malignant Cancers</b>	140-208, 238.6	C00-C97	
<b>Oral Cavity and Pharynx</b>			
Lip	140	C00	20010
Tongue	141	C01-C02	20020
Salivary Gland	142	C07-C08	20030
Floor of Mouth	144	C04	20040
Gum and Other Mouth	143, 145	C03, C05-C06	20050
Nasopharynx	147	C11	20060
Tonsil	146.0-146.2	C09	20070
Oropharynx	146.3-146.9	C10	20080
Hypopharynx	148	C12-C13	20090
Other Oral Cavity and Pharynx	149	C14	20100
<b>Digestive System</b>			
Esophagus	150	C15	21010
Stomach	151	C16	21020
Small Intestine	152	C17	21030
<b>Colon and Rectum</b>			
Colon excluding Rectum	153, 159.0	C18, C26.0	21040
Rectum and Rectosigmoid Junction	154.0-154.1	C19-C20	21050
Anus, Anal Canal and Anorectum	154.2-154.3, 154.8	C21	21060
<b>Liver and Intrahepatic Bile Duct</b>			
Liver	155.0, 155.2	C22.0, C22.2-C22.4, C22.7, C22.9	21071
Intrahepatic Bile Duct	155.1	C22.1	21072
Gallbladder	156	C23	21080
Other Biliary	156.1-156.2, 156.8-156.9	C24	21090
Pancreas	157	C25	21100
Retroperitoneum	158	C48.0	21110
Peritoneum, Omentum and Mesentery	158.8-158.9	<u>C45.1+</u> , <u>C48.1-C48.2</u>	21120
Other Digestive Organs	159.8-159.9	C26.8-C26.9, C48.8	21130
<b>Respiratory System</b>			
Nose, Nasal Cavity and Middle Ear	160	C30-C31	22010
Larynx	161	C32	22020
Lung and Bronchus	162.2-162.5, 162.8-162.9	C34	22030
Pleura	163	<u>C38.4, C45.0+</u>	22050
Trachea, Mediastinum and Other Respiratory Organs	162.0, 164.2-164.3, 164.8-164.9, 165	C33, C38.1-C38.3, C38.8, C39	22060
<b>Bones and Joints</b>	170	C40-C41	23000
<u>Soft Tissue including Heart<sup>§</sup></u>	164.1, 171	<u>C47, C49, C38.0, C45.2+</u>	24000
<b>Skin</b>			
Melanoma of the Skin	172	C43	25010
<u>Non-Melanoma Skin</u>	173	<u>C44, C46+</u>	25020
<b>Breast</b>	174-175	C50	26000
<b>Female Genital System</b>			
Cervix Uteri	180	C53	27010
<b>Corpus and Uterus, NOS</b>			
Corpus Uteri	182	C54	27020
Uterus, NOS	179	C55	27030

Cancer Causes of Death	ICD-9 (1979-1998) <sup>#</sup>	ICD-10 (1999+) <sup>#</sup>	Recode
Ovary	183	C56	27040
Vagina	184	C52	27050
Vulva	184.1-184.4	C51	27060
Other Female Genital Organs	181, 183.2-183.5, 183.8-183.9, 184.8-184.9	C57-C58	27070
<b>Male Genital System</b>			
Prostate	185	C61	28010
Testis	186	C62	28020
Penis	187.1-187.4	C60	28030
Other Male Genital Organs	187.5-187.9	C63	28040
<b>Urinary System</b>			
Urinary Bladder	188	C67	29010
Kidney and Renal Pelvis	189.0-189.1	C64-C65	29020
Ureter	189.2	C66	29030
Other Urinary Organs	189.3-189.4, 189.8-189.9	C68	29040
<b>Eye and Orbit</b>	190	C69	30000
<b>Brain and Other Nervous System</b>	191, 192	C70, C71, C72	31010
<b>Endocrine System</b>			
Thyroid	193	C73	32010
<u>Other Endocrine including Thymus<sup>§</sup></u>	164.0, 194	C37, C74-C75	32020
<b>Lymphoma</b>			
Hodgkin Lymphoma	201	C81	33010
Non-Hodgkin Lymphoma	200, 202.0-202.2, 202.8-202.9	C82-86, C96.3	33040
<b>Myeloma</b>	203.0, 238.6	C90.0, C90.2, C90.3	34000
<b>Leukemia</b>			
<b>Lymphocytic Leukemia</b>			
Acute Lymphocytic Leukemia	204	C91.0	35011
Chronic Lymphocytic Leukemia	204.1	C91.1	35012
Other Lymphocytic Leukemia	202.4, 204.2, 204.8-204.9	C91.2-C91.4, C91.6-C91.9	35013
<b>Myeloid and Monocytic Leukemia</b>			
Acute myeloid	205.0, 207.0, 207.2	C92.0, C92.4-C92.6, C92.8, C94.0, C94.2	35021
Acute Monocytic Leukemia	206	C93.0	35031
Chronic Myeloid Leukemia	205.1	C92.1	35022
Other Myeloid/Monocytic Leukemia	205.2-205.3, 205.8-205.9, 206.1- 206.2, 206.8-206.9	C92.2-C92.3, C92.7, C92.9, C93.1- C93.3, C93.7, C93.9	35023
<b>Other Leukemia</b>			
Other Acute Leukemia	208	C94.4, C94.5, C95.0	35041
Aleukemic, subleukemic and NOS	203.1, 207.1, 207.8, 208.1-208.2, 208.8-208.9	C90.1, C91.5, C94.1, C94.3, C94.7, C95.1, C95.2, C95.7, C95.9	35043
<u>Mesothelioma (ICD-10 only)<sup>†</sup></u>	N/A	<u>C45<sup>†</sup></u>	36010
<u>Kaposi Sarcoma (ICD-10 only)<sup>†</sup></u>	N/A	<u>C46<sup>†</sup></u>	36020
<b>Miscellaneous Malignant Cancer</b>	159.1, 195-199, 202.3, 202.5-202.6, 203.8	C26.1, C45.7 <sup>±</sup> , C45.9 <sup>±</sup> , C76-C80, C88, C94.6, C96.0-C96.2, C96.4- C96.9, C97	37000

**SEER CAUSE OF DEATH RECODE 1969<sup>+</sup> (03/01/2018)**

<sup>#</sup> All ICD codes are tested for validity prior to generating this variable. Those deemed invalid are classified as Unknown/missing/invalid COD. Those deemed valid but not meeting the definition of any above grouping are classified as Other Cause of Death.

<sup>†</sup> This variable can be created with or without Mesothelioma (C45) and Kaposi Sarcoma (C46) as separate groupings. The table above documents both possibilities. Note that this is only possible with ICD-10.

<sup>§</sup> ICD-8 code 192.5 is coded to Other Endocrine including Thymus for age at death <20 years and Soft Tissue including Heart for age at death 20+ years.

\* External causes of injury and poisoning.

% For reasons of patient confidentiality, HIV and Other Infectious and Parasitic Diseases are combined into a single code (50040) in the SEER incidence data.

<sup>^</sup> These codes are only applicable when representing cause of death in the SEER incidence data.

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