

THE MAINE 2017 ANNUAL REPORT OF CANCER



Maine CDC Cancer Registry

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Updated Central District Incidence rates and counts

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The Maine 2017 Annual Report of Cancer is based on 2014 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 2017 annual report is based on new cancer cases diagnosed in 2014 (cancer incidence) and cancer deaths occurring in 2014 (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 Registry¹ and the Maine CDC Comprehensive Cancer Control Program².

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

² 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 28-32, 53-54).

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 8.3.4 software.

Rates:

Incidence and mortality rates are calculated per 100,000 population. The year 2000 U.S. standard population was used for age adjustment, which is the most recent SEER*Stat population data file available.

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 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. White rates 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, 1995-2014, 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 2016.

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. This year we have adopted predefined SEER*stat variables^[1] 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 local incidence estimates using nationally accepted and published methods. These defined groupings cannot be used with mortality data. See pages 24-27 for incidence tables for tobacco-associated, obesity-associated, and HPV-associated cancer. See pages 41-42 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, 29, 36, 44-46, 49, and 54.

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 2014 and selected cancers from 2000 to 2014.

The mortality figures show trends in mortality rates for all sites combined and selected cancers from 1969 to 2014. 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, 2014

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Cancer Sites	474.6 (464.3 - 485.0)	8,703	438.1 (437.3 - 438.9)	437.0 (436.3 - 437.7)
<i>Leading Cancer Sites</i>				
Tobacco-related, Excluding Lung and Bronchus	136.7 (131.3 - 142.3)	2,550	127.7 (127.3 - 128.1)	128.3 (127.9 - 128.6)
Lung and Bronchus	72.1 (68.2 - 76.1)	1,361	59.5 (59.2 - 59.8)	58.6 (58.4 - 58.9)
Colon and Rectum	36.3 (33.5 - 39.2)	667	37.6 (37.4 - 37.9)	38.5 (38.3 - 38.7)
Female Breast	127.9 (120.4 - 135.8)	1,201	124.9 (124.3 - 125.5)	123.9 (123.4 - 124.4)
Prostate	84.5 (78.6 - 90.7)	809	86.7 (86.2 - 87.2)	95.3 (94.8 - 95.8)
<i>Other Cancer Sites</i>				
Urinary Bladder	29.0 (26.6 - 31.6)	547	21.0 (20.9 - 21.2)	19.7 (19.6 - 19.9)
Melanoma of the Skin	25.1 (22.7 - 27.7)	444	24.0 (23.9 - 24.2)	21.3 (21.2 - 21.5)
Non-Hodgkin Lymphoma	20.4 (18.3 - 22.7)	372	19.0 (18.9 - 19.2)	18.6 (18.4 - 18.7)
Kidney and Renal Pelvis	17.2 (15.3 - 19.3)	317	16.4 (16.2 - 16.6)	16.3 (16.1 - 16.4)
Thyroid	18.3 (16.0 - 20.7)	276	15.0 (14.8 - 15.1)	14.4 (14.3 - 14.6)
Leukemia	14.5 (12.6 - 16.5)	251	13.7 (13.5 - 13.8)	13.3 (13.2 - 13.4)
Pancreas	13.2 (11.5 - 15.0)	250	12.3 (12.2 - 12.5)	12.6 (12.5 - 12.7)
Oral Cavity and Pharynx	12.3 (10.7 - 14.1)	234	12.0 (11.9 - 12.1)	11.6 (11.5 - 11.7)
Esophagus	7.1 (5.9 - 8.4)	134	4.7 (4.6 - 4.7)	4.5 (4.4 - 4.6)
Brain and Other Nervous System	7.2 (5.9 - 8.8)	112	6.9 (6.8 - 7.0)	6.4 (6.3 - 6.5)
Myeloma	5.9 (4.8 - 7.1)	112	5.7 (5.6 - 5.8)	6.4 (6.3 - 6.5)
Stomach	5.8 (4.7 - 7.0)	111	5.9 (5.8 - 5.9)	6.6 (6.5 - 6.6)
Liver and Intrahepatic Bile Duct	5.5 (4.5 - 6.8)	109	7.5 (7.4 - 7.6)	8.2 (8.1 - 8.3)
Larynx	3.9 (3.1 - 4.9)	76	3.2 (3.2 - 3.3)	3.3 (3.2 - 3.3)
Hodgkin Lymphoma	3.4 (2.4 - 4.6)	43	2.7 (2.7 - 2.8)	2.7 (2.6 - 2.7)
Mesothelioma	1.3 (0.8 - 2.0)	23	1.0 (0.9 - 1.0)	0.9 (0.9 - 0.9)
<i>Other Gender Specific Sites</i>				
Uterus (Corpus Uteri and Uterus, NOS)	30.4 (27.0 - 34.2)	307	25.8 (25.6 - 26.1)	25.5 (25.2 - 25.7)
Ovary	10.7 (8.7 - 13.1)	105	11.3 (11.1 - 11.5)	11.0 (10.9 - 11.2)
Cervix Uteri	6.1 (4.4 - 8.2)	48	7.5 (7.3 - 7.6)	7.6 (7.4 - 7.7)
Testis	5.9 (4.1 - 8.3)	36	6.5 (6.3 - 6.6)	5.6 (5.5 - 5.7)

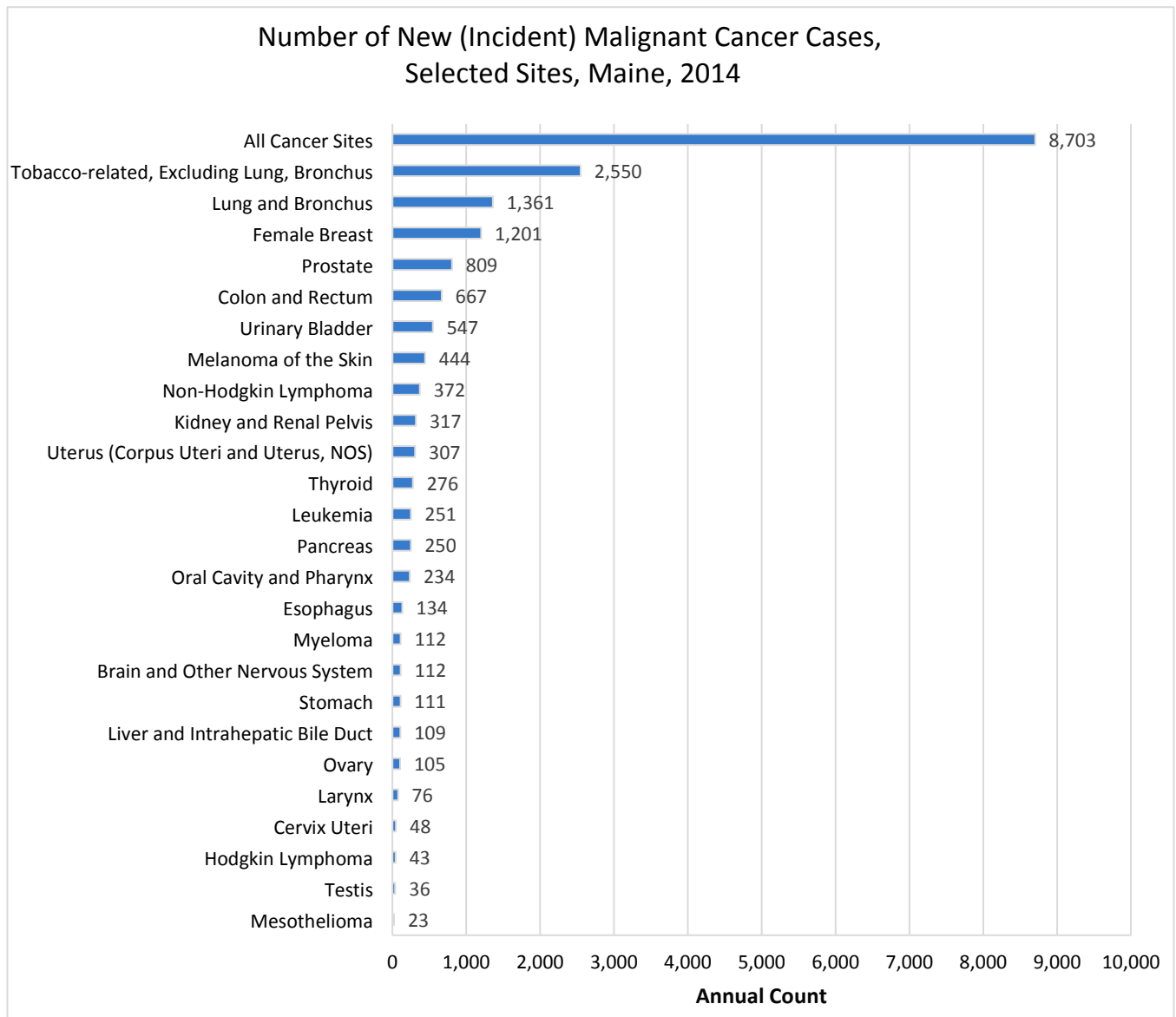
Notes:

- 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 2016 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Analytic File, Public Use, 1994-2014.

Count of New Malignant Cancers, Maine 2014



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 2016 NPCR-CSS data submission

Age-adjusted Cancer Incidence Rates among Males by Site, Maine, 2014

	Male			
	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Cancer Sites	492.4 (477.2 - 508.0)	4,255	469.1 (467.9 - 470.2)	473.1 (472.0 - 474.2)
Tobacco-related, Excluding Lung and Bronchus	182.5 (173.4 - 192.1)	1,571	171.2 (170.5 - 171.9)	171.4 (170.8 - 172.1)
Prostate	84.5 (78.6 - 90.7)	809	86.7 (86.2 - 87.2)	95.3 (94.8 - 95.8)
Lung and Bronchus	80.8 (74.8 - 87.3)	706	68.5 (68.0 - 69.0)	68.8 (68.3 - 69.2)
Colon and Rectum	38.7 (34.5 - 43.3)	326	43.3 (42.9 - 43.6)	44.2 (43.9 - 44.5)
Urinary Bladder	50.2 (45.4 - 55.4)	418	36.4 (36.1 - 36.8)	34.3 (34.0 - 34.6)
Melanoma of the Skin	30.7 (26.9 - 34.8)	256	30.5 (30.2 - 30.8)	27.5 (27.2 - 27.8)
Kidney and Renal Pelvis	22.3 (19.2 - 25.9)	195	22.1 (21.8 - 22.4)	22.1 (21.8 - 22.3)
Non-Hodgkin Lymphoma	20.5 (17.5 - 23.9)	176	23.0 (22.7 - 23.3)	22.5 (22.3 - 22.8)
Oral Cavity and Pharynx	19.0 (16.2 - 22.2)	172	18.1 (17.9 - 18.3)	17.6 (17.4 - 17.8)
Leukemia	16.5 (13.7 - 19.8)	132	17.5 (17.2 - 17.7)	17.0 (16.8 - 17.2)
Pancreas	14.4 (11.9 - 17.3)	124	14.2 (14.0 - 14.4)	14.4 (14.2 - 14.6)
Esophagus	11.9 (9.6 - 14.5)	104	8.1 (7.9 - 8.2)	7.8 (7.6 - 7.9)
Liver and Intrahepatic Bile Duct	9.3 (7.4 - 11.6)	86	11.3 (11.1 - 11.5)	12.5 (12.3 - 12.6)
Thyroid	10.7 (8.4 - 13.4)	81	7.7 (7.6 - 7.9)	7.4 (7.2 - 7.5)
Larynx	7.1 (5.4 - 9.2)	64	5.5 (5.4 - 5.6)	5.6 (5.5 - 5.8)
Brain and Other Nervous System	7.9 (5.9 - 10.4)	58	8.1 (8.0 - 8.3)	7.6 (7.5 - 7.7)
Stomach	6.3 (4.7 - 8.3)	55	8.1 (8.0 - 8.3)	9.0 (8.8 - 9.1)
Myeloma	5.9 (4.3 - 7.8)	52	7.2 (7.1 - 7.4)	8.0 (7.8 - 8.1)
Testis	5.9 (4.1 - 8.3)	36	6.5 (6.3 - 6.6)	5.6 (5.5 - 5.7)
Mesothelioma	2.6 (1.6 - 4.1)	20	1.7 (1.7 - 1.8)	1.6 (1.6 - 1.7)
Hodgkin Lymphoma	2.8 (1.6 - 4.4)	19	3.1 (3.0 - 3.2)	3.0 (2.9 - 3.1)

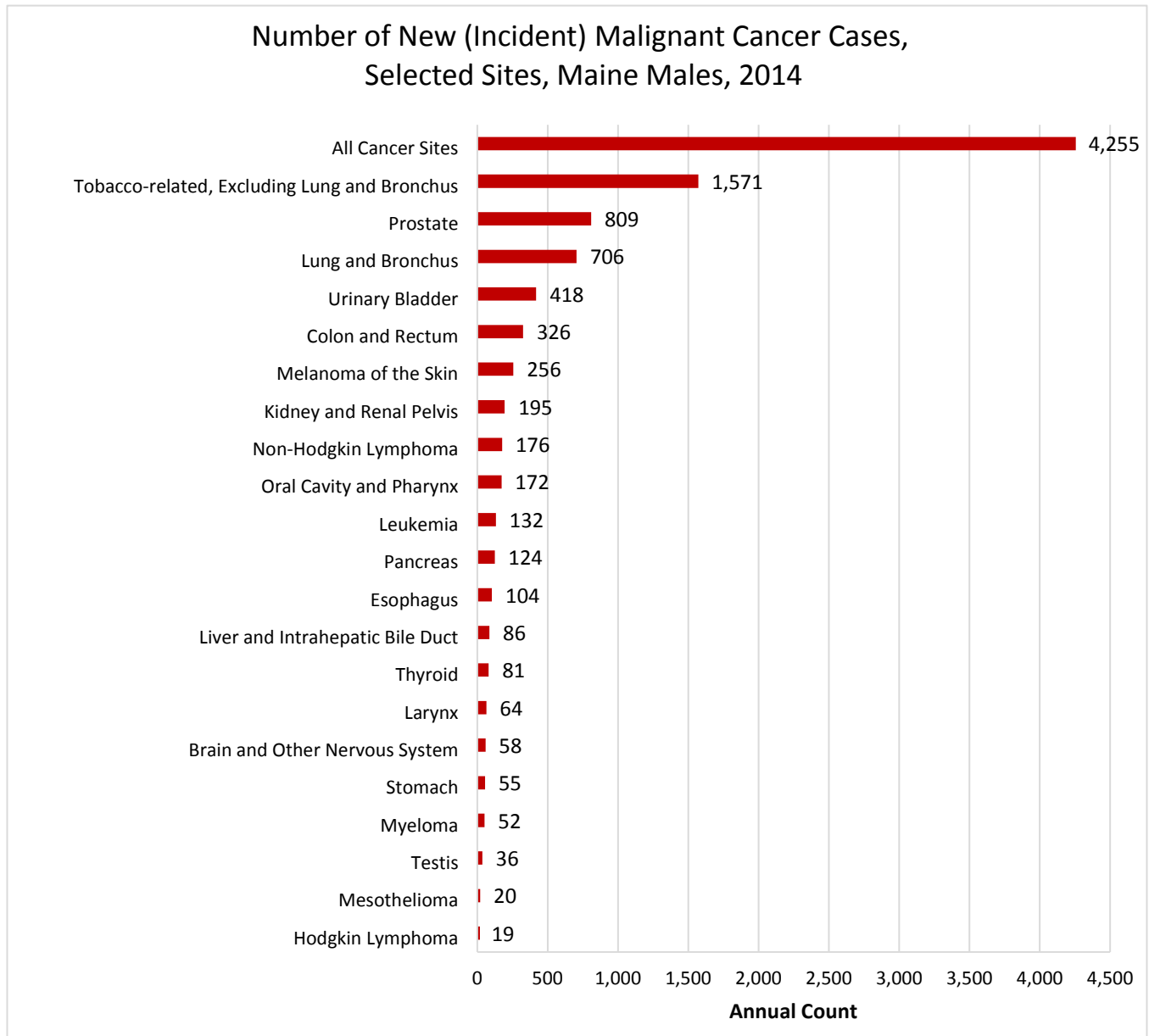
Notes:

- 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 2016 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Analytic File, Public Use, 1994-2014.

Count of New Malignant Cancers, Maine Males, 2014



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 2016 NPCR-CSS data submission

Age-adjusted Cancer Incidence Rates among Females by Site, Maine, 2014

	Female			
	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Cancer Sites	466.7 (452.4 - 481.4)	4,448	419.2 (418.1 - 420.3)	413.7 (412.7 - 414.7)
Breast	127.9 (120.4 - 135.8)	1,201	124.9 (124.3 - 125.5)	123.9 (123.4 - 124.4)
Tobacco-related, Excluding Lung and Bronchus	99.4 (93.0 - 106.1)	979	91.6 (91.1 - 92.1)	93.2 (92.7 - 93.6)
Lung and Bronchus	65.3 (60.2 - 70.6)	655	52.6 (52.2 - 52.9)	50.9 (50.6 - 51.2)
Colon and Rectum	34.4 (30.7 - 38.5)	341	32.8 (32.6 - 33.1)	33.7 (33.4 - 34.0)
Uterus (Corpus Uteri and Uterus, NOS)	30.4 (27.0 - 34.2)	307	25.8 (25.6 - 26.1)	25.5 (25.2 - 25.7)
Non-Hodgkin Lymphoma	20.2 (17.3 - 23.4)	196	15.7 (15.5 - 15.9)	15.4 (15.2 - 15.5)
Thyroid	25.5 (21.8 - 29.6)	195	22.2 (21.9 - 22.5)	21.3 (21.0 - 21.5)
Melanoma of the Skin	20.9 (17.9 - 24.4)	188	19.2 (19.0 - 19.5)	16.8 (16.6 - 17.0)
Urinary Bladder	12.2 (10.1 - 14.6)	129	8.9 (8.8 - 9.1)	8.5 (8.4 - 8.6)
Pancreas	12.3 (10.2 - 14.8)	126	10.7 (10.6 - 10.9)	11.1 (11.0 - 11.3)
Kidney and Renal Pelvis	12.6 (10.4 - 15.3)	122	11.4 (11.2 - 11.6)	11.3 (11.1 - 11.5)
Leukemia	12.7 (10.4 - 15.4)	119	10.6 (10.4 - 10.8)	10.3 (10.2 - 10.5)
Ovary	10.7 (8.7 - 13.1)	105	11.3 (11.1 - 11.5)	11.0 (10.9 - 11.2)
Oral Cavity and Pharynx	6.5 (4.9 - 8.6)	62	6.5 (6.4 - 6.7)	6.4 (6.3 - 6.5)
Myeloma	5.9 (4.4 - 7.7)	60	4.5 (4.4 - 4.6)	5.2 (5.1 - 5.3)
Stomach	5.5 (4.1 - 7.2)	56	4.0 (3.9 - 4.1)	4.6 (4.5 - 4.7)
Brain and Other Nervous System	6.4 (4.7 - 8.5)	54	5.7 (5.6 - 5.9)	5.4 (5.3 - 5.5)
Cervix Uteri	6.1 (4.4 - 8.2)	48	7.5 (7.3 - 7.6)	7.6 (7.4 - 7.7)
Esophagus	3.1 (2.0 - 4.5)	30	1.7 (1.7 - 1.8)	1.8 (1.7 - 1.8)
Hodgkin Lymphoma	4.0 (2.5 - 6.0)	24	2.4 (2.3 - 2.5)	2.3 (2.3 - 2.4)
Liver and Intrahepatic Bile Duct	2.3 (1.4 - 3.6)	23	4.1 (4.0 - 4.2)	4.5 (4.4 - 4.5)
Larynx	1.1 (0.6 - 2.1)	12	1.3 (1.2 - 1.3)	1.3 (1.2 - 1.3)
Mesothelioma	0.3 (0.1 - 1.0)	3	0.4 (0.4 - 0.5)	0.4 (0.4 - 0.4)

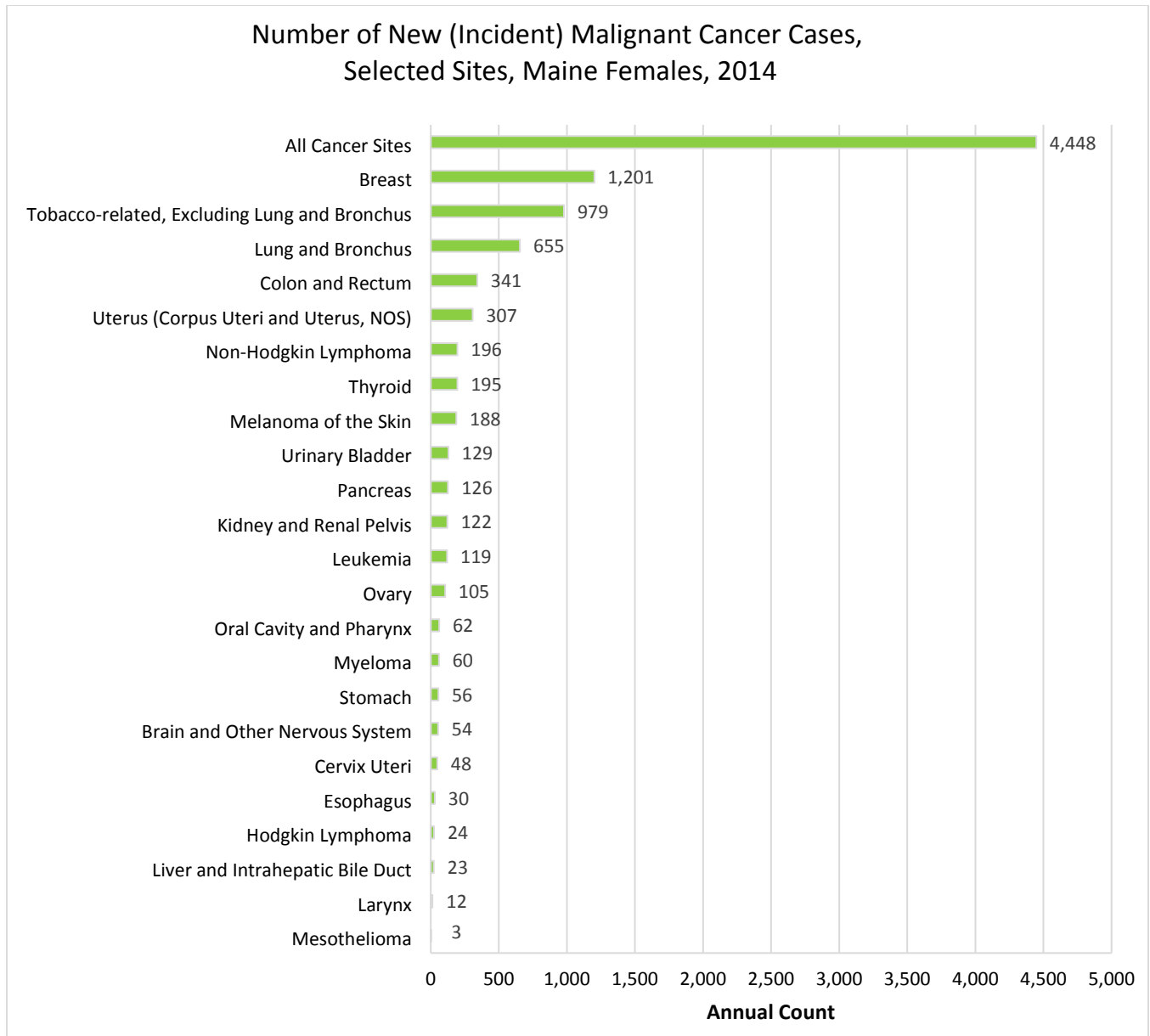
Notes:

- 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 2016 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Analytic File, Public Use, 1994-2014.

Count of New Malignant Cancers, Maine Females 2014



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 2016 NPCR-CSS data submission

All Cancers: Incidence by Age, Maine 2012-2014

	Total		Male		Female	
	Crude Rate (95% CI)	Count /Yr	Crude Rate (95% CI)	Count /Yr	Crude Rate (95% CI)	Count /Yr
0-14 years	17.6 (14.5 - 21.2)	38	19.7 (15.2 - 25.2)	22	15.4 (11.4 - 20.4)	16
15-19 years	22.5 (17.0 - 29.2)	19	23.3 (15.7 - 33.3)	10	21.5 (14.1 - 31.5)	9
20-24 years	42.4 (34.6 - 51.6)	34	38.8 (28.5 - 51.5)	16	46.3 (34.8 - 60.4)	18
25-29 years	72.1 (61.5 - 83.9)	55	55.9 (43.0 - 71.4)	21	88.3 (71.9 - 107.2)	34
30-34 years	99.2 (86.5 - 113.2)	74	75.3 (60.0 - 93.3)	28	122.6 (103.0 - 144.8)	46
35-39 years	148.6 (132.9 - 165.7)	108	81.2 (65.1 - 100.2)	29	213.7 (187.4 - 242.7)	79
40-44 years	242.7 (224.0 - 262.5)	208	166.2 (144.5 - 190.2)	70	316.8 (287.0 - 348.9)	138
45-49 years	381.4 (359.2 - 404.6)	366	290.4 (263.0 - 319.9)	137	468.7 (434.4 - 505.1)	230
50-54 years	594.2 (568.1 - 621.1)	650	557.1 (521.2 - 594.8)	298	629.6 (592.2 - 668.7)	352
55-59 years	865.4 (833.5 - 898.1)	929	909.1 (862.5 - 957.6)	474	824.1 (781.0 - 869.0)	455
60-64 years	1,206.0 (1,166.4 - 1,246.7)	1,164	1,309.1 (1,249.9 - 1,370.3)	612	1,109.2 (1,056.4 - 1,163.9)	552
65-69 years	1,705.4 (1,653.0 - 1,759.0)	1,335	1,906.2 (1,827.2 - 1,987.8)	730	1,512.9 (1,444.0 - 1,584.1)	605
70-74 years	2,048.5 (1,980.0 - 2,118.9)	1,123	2,293.1 (2,187.8 - 2,402.2)	593	1,829.9 (1,741.0 - 1,922.1)	530
75-79 years	2,365.5 (2,279.3 - 2,454.1)	947	2,684.0 (2,548.2 - 2,825.2)	487	2,101.3 (1,991.9 - 2,215.2)	460
80-84 years	2,515.9 (2,414.5 - 2,620.5)	772	3,024.5 (2,852.7 - 3,203.9)	386	2,154.0 (2,031.7 - 2,281.7)	386
85+ years	2,323.3 (2,226.5 - 2,423.2)	722	3,077.2 (2,886.4 - 3,277.2)	323	1,939.0 (1,830.8 - 2,052.0)	399
Maine All Ages*	642.7 (634.9 - 650.7)	8,544	650.8 (639.5 - 662.2)	4,236	635.0 (624.1 - 646.0)	4,308

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 2016 NPCR-CSS data submission

All Cancers: Incidence by County of Residence, Maine, 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr
Androscoggin	470.4 (448.9 - 492.8)	624	508.5 (475.6 - 543.1)	313	444.9 (416.0 - 475.4)	311
Aroostook	477.8 (453.0 - 503.8)	506	518.7 (481.7 - 558.0)	263	447.5 (413.5 - 483.8)	243
Cumberland	459.3 (446.3 - 472.6)	1,668	491.8 (471.8 - 512.4)	807	441.0 (423.5 - 459.1)	862
Franklin	440.5 (402.8 - 481.1)	185	487.1 (431.5 - 548.7)	101	405.2 (353.7 - 462.6)	84
Hancock	475.8 (447.7 - 505.4)	397	519.8 (477.9 - 564.9)	207	443.2 (405.0 - 484.4)	190
Kennebec	467.9 (448.2 - 488.2)	759	505.2 (475.5 - 536.3)	384	441.6 (415.1 - 469.5)	374
Knox	467.7 (435.0 - 502.5)	284	467.5 (421.6 - 517.7)	137	477.7 (430.4 - 529.5)	147
Lincoln	440.4 (406.4 - 477.0)	243	437.6 (391.1 - 489.1)	119	448.7 (399.0 - 503.7)	124
Oxford	485.4 (457.1 - 515.3)	395	537.0 (494.4 - 582.6)	212	443.8 (405.7 - 484.9)	183
Penobscot	498.1 (479.6 - 517.1)	968	515.3 (488.0 - 543.8)	471	492.7 (467.1 - 519.5)	497
Piscataquis	498.8 (448.6 - 554.0)	140	454.5 (389.0 - 530.0)	66	545.3 (470.2 - 630.8)	74
Sagadahoc	463.6 (428.5 - 501.2)	230	465.4 (414.4 - 521.5)	108	464.8 (416.4 - 518.0)	122
Somerset	454.6 (425.6 - 485.2)	326	479.2 (436.4 - 525.5)	166	434.4 (394.9 - 477.1)	160
Waldo	482.3 (447.7 - 519.2)	264	529.5 (476.8 - 587.0)	137	442.8 (397.5 - 492.4)	127
Washington	502.2 (464.6 - 542.5)	246	537.5 (482.5 - 597.8)	126	480.9 (428.6 - 538.6)	120
York	488.2 (472.5 - 504.3)	1,305	499.9 (476.7 - 524.0)	618	484.8 (463.2 - 507.2)	687
Maine	473.6 (467.6 - 479.7)	8,544	500.7 (491.7 - 509.8)	4,236	457.0 (448.8 - 465.4)	4,308

All Cancers: Incidence by Public Health District of Residence, Maine, 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr
Aroostook	477.8 (453.0 - 503.8)	506	518.7 (481.7 - 558.0)	263	447.5 (413.5 - 483.8)	243
Central	463.4 (447.1 - 480.2)	1,084	497.0 (472.5 - 522.5)	550	438.8 (416.7 - 461.8)	534
Cumberland	459.3 (446.3 - 472.6)	1,668	491.8 (471.8 - 512.4)	807	441.0 (423.5 - 459.1)	862
Downeast	485.7 (463.1 - 509.3)	643	527.2 (493.6 - 562.8)	333	456.7 (425.7 - 489.7)	310
Midcoast	461.3 (444.2 - 478.9)	1,022	472.8 (448.2 - 498.6)	501	455.8 (432.0 - 480.8)	521
Penquis	498.2 (480.8 - 516.0)	1,108	508.5 (483.2 - 534.8)	537	498.8 (474.5 - 524.1)	571
Western	469.1 (453.5 - 485.1)	1,204	513.2 (489.5 - 537.8)	625	436.6 (415.6 - 458.6)	579
York	488.2 (472.5 - 504.3)	1,305	499.9 (476.7 - 524.0)	618	484.8 (463.2 - 507.2)	687
Maine	473.6 (467.6 - 479.7)	8,544	500.7 (491.7 - 509.8)	4,236	457.0 (448.8 - 465.4)	4,308

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 11 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 2016 NPCR-CSS data submission

Lung and Bronchus Cancer: Incidence by Age, Maine 2012-2014

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
40-44 years	13.2 (9.2 - 18.5)	11	13.5 (7.8 - 21.5)	6	13.0 (7.6 - 20.9)	6
45-49 years	44.8 (37.4 - 53.2)	43	46.7 (36.2 - 59.5)	22	42.9 (32.9 - 54.8)	21
50-54 years	73.7 (64.7 - 83.6)	81	76.6 (63.7 - 91.5)	41	70.9 (58.7 - 84.8)	40
55-59 years	125.4 (113.5 - 138.2)	135	144.5 (126.3 - 164.6)	75	107.4 (92.2 - 124.4)	59
60-64 years	176.8 (161.8 - 192.8)	171	198.8 (176.2 - 223.6)	93	156.1 (136.7 - 177.4)	78
65-69 years	291.7 (270.2 - 314.4)	228	318.4 (286.6 - 352.8)	122	266.0 (237.6 - 296.9)	106
70-74 years	419.6 (388.8 - 452.1)	230	454.8 (408.6 - 504.8)	118	388.1 (347.8 - 431.8)	112
75-79 years	508.6 (469.0 - 550.5)	204	572.8 (511.0 - 640.0)	104	455.3 (405.1 - 509.9)	100
80-84 years	515.1 (469.8 - 563.7)	158	640.5 (562.8 - 725.9)	82	426.0 (372.6 - 484.9)	76
85+ years	361.3 (323.8 - 402.0)	112	524.0 (447.1 - 610.3)	55	278.4 (238.3 - 323.2)	57
Maine All Ages*	103.6 (100.5 - 106.8)	1,377	110.6 (106.0 - 115.3)	720	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 2016 NPCR-CSS data submission

Lung and Bronchus Cancer: Incidence by County of Residence, Maine 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	77.7 (69.2 - 87.0)	104	88.5 (75.2 - 103.6)	55	68.2 (57.5 - 80.5)	49
Aroostook	78.9 (69.5 - 89.5)	87	86.4 (71.8 - 103.6)	43	74.5 (62.1 - 89.2)	44
Cumberland	64.5 (59.8 - 69.6)	235	72.6 (65.0 - 81.0)	116	58.7 (52.6 - 65.3)	119
Franklin	58.0 (45.1 - 73.9)	24	65.0 (46.1 - 90.2)	13	50.5 (33.9 - 73.3)	11
Hancock	75.5 (64.9 - 87.7)	64	86.2 (69.8 - 105.8)	35	67.2 (53.5 - 84.0)	29
Kennebec	72.0 (64.6 - 80.1)	120	87.6 (75.6 - 101.1)	67	59.8 (50.7 - 70.2)	53
Knox	78.1 (65.7 - 92.5)	50	89.1 (69.9 - 112.8)	26	69.0 (53.4 - 88.9)	24
Lincoln	52.8 (42.2 - 65.8)	31	54.6 (39.2 - 75.2)	15	52.1 (37.8 - 71.4)	16
Oxford	86.5 (75.2 - 99.4)	73	103.6 (85.7 - 124.6)	42	72.0 (57.9 - 89.1)	32
Penobscot	87.2 (79.8 - 95.2)	174	103.1 (91.2 - 116.2)	95	75.2 (65.8 - 85.8)	79
Piscataquis	76.6 (59.5 - 98.5)	24	76.8 (52.3 - 112.1)	11	79.1 (55.7 - 112.7)	13
Sagadahoc	75.1 (61.9 - 90.7)	39	84.2 (63.8 - 109.8)	20	67.8 (51.0 - 89.2)	19
Somerset	89.8 (77.5 - 103.9)	66	117.4 (96.8 - 141.5)	41	65.0 (50.9 - 82.4)	25
Waldo	77.0 (63.6 - 92.6)	42	97.0 (75.2 - 123.8)	24	63.4 (46.7 - 84.7)	18
Washington	84.7 (70.7 - 101.2)	45	84.9 (64.6 - 110.7)	21	85.8 (66.9 - 109.7)	24
York	72.3 (66.5 - 78.5)	198	77.9 (69.0 - 87.8)	96	68.1 (60.5 - 76.4)	102
Maine	74.2 (71.9 - 76.5)	1,377	84.8 (81.2 - 88.6)	720	65.9 (63.0 - 69.0)	657

Lung and Bronchus Cancer: Incidence by Public Health District of Residence, Maine, 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	78.9 (69.5 - 89.5)	87	86.4 (71.8 - 103.6)	43	74.5 (62.1 - 89.2)	44
Central	77.4 (71.0 - 84.3)	185	96.8 (86.3 - 108.5)	107	61.2 (53.5 - 69.9)	78
Cumberland	64.5 (59.8 - 69.6)	235	72.6 (65.0 - 81.0)	116	58.7 (52.6 - 65.3)	119
Downeast	78.9 (70.3 - 88.4)	109	85.8 (72.8 - 100.8)	56	73.6 (62.4 - 86.7)	54
Midcoast	70.0 (63.7 - 76.8)	162	79.4 (69.7 - 90.2)	85	63.0 (54.8 - 72.3)	77
Penquis	85.9 (79.0 - 93.3)	198	99.5 (88.7 - 111.5)	106	75.9 (67.0 - 85.8)	92
Western	76.7 (70.6 - 83.2)	202	88.9 (79.3 - 99.3)	110	66.1 (58.4 - 74.7)	92
York	72.3 (66.5 - 78.5)	198	77.9 (69.0 - 87.8)	96	68.1 (60.5 - 76.4)	102
Maine	74.2 (71.9 - 76.5)	1,377	84.8 (81.2 - 88.6)	720	65.9 (63.0 - 69.0)	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 2016 NPCR-CSS data submission

Tobacco-related Cancers, Excluding Lung and Bronchus: Incidence by Age, Maine 2012-2014

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
25-29 years	9.2 (5.7 - 14.0)	7	4.4 (1.4 - 10.2)	2	14.0 (8.0 - 22.7)	5
30-34 years	22.0 (16.3 - 29.1)	16	18.1 (11.1 - 28.0)	7	25.8 (17.3 - 37.0)	10
35-39 years	33.5 (26.2 - 42.1)	24	27.1 (18.1 - 38.9)	10	39.7 (28.8 - 53.3)	15
40-44 years	51.4 (43.0 - 61.0)	44	59.4 (46.7 - 74.4)	25	43.7 (33.1 - 56.6)	19
45-49 years	95.4 (84.5 - 107.4)	92	124.0 (106.3 - 143.7)	58	68.0 (55.4 - 82.7)	33
50-54 years	176.6 (162.6 - 191.6)	193	239.9 (216.5 - 265.1)	128	116.2 (100.4 - 133.6)	65
55-59 years	238.7 (222.1 - 256.2)	256	327.3 (299.6 - 356.9)	171	155.0 (136.7 - 175.2)	86
60-64 years	331.5 (310.8 - 353.1)	320	451.8 (417.3 - 488.4)	211	218.3 (195.3 - 243.4)	109
65-69 years	464.1 (437.0 - 492.5)	363	630.8 (585.7 - 678.4)	242	304.4 (274.0 - 337.3)	122
70-74 years	599.5 (562.7 - 638.2)	329	806.5 (744.5 - 872.2)	209	414.6 (372.9 - 459.7)	120
75-79 years	728.3 (680.8 - 778.2)	292	995.0 (913.0 - 1,082.4)	181	507.0 (454.0 - 564.5)	111
80-84 years	790.1 (733.7 - 849.7)	242	1,113.6 (1,010.4 - 1,224.5)	142	559.9 (498.4 - 626.9)	100
85+ years	849.1 (791.0 - 910.4)	264	1,254.4 (1,133.7 - 1,384.4)	132	642.6 (580.9 - 709.0)	132
Maine All Ages*	184.4 (180.2 - 188.7)	2,451	233.3 (226.6 - 240.2)	1,519	137.5 (132.4 - 142.7)	933

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 2016 NPCR-CSS data submission

Tobacco-related Cancers, Excl. Lung and Bronchus: Incidence by County of Residence, Maine, 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	129.0 (117.9 - 140.9)	173	172.1 (153.2 - 192.8)	106	93.0 (80.2 - 107.3)	67
Aroostook	131.4 (118.8 - 145.2)	142	177.1 (155.7 - 201.0)	88	94.0 (79.4 - 111.0)	54
Cumberland	132.6 (125.7 - 139.9)	485	183.7 (171.5 - 196.5)	298	92.1 (84.3 - 100.4)	187
Franklin	127.5 (108.1 - 149.8)	55	182.2 (149.0 - 221.5)	38	81.3 (59.6 - 109.1)	17
Hancock	129.4 (115.5 - 144.7)	112	184.9 (160.4 - 212.7)	73	83.4 (68.5 - 101.2)	39
Kennebec	136.4 (126.0 - 147.5)	224	176.5 (159.3 - 195.2)	136	102.7 (90.2 - 116.7)	87
Knox	116.0 (100.4 - 133.6)	73	153.4 (128.1 - 182.9)	46	85.5 (66.5 - 109.1)	27
Lincoln	132.5 (114.3 - 153.3)	74	174.0 (145.7 - 207.3)	48	97.9 (74.5 - 126.9)	26
Oxford	152.8 (137.2 - 169.9)	125	206.7 (180.7 - 235.9)	81	105.8 (87.6 - 127.0)	44
Penobscot	134.7 (125.3 - 144.7)	265	176.5 (160.6 - 193.6)	159	101.3 (90.1 - 113.6)	106
Piscataquis	128.9 (105.7 - 156.9)	39	158.1 (122.9 - 203.3)	25	100.9 (71.8 - 140.5)	15
Sagadahoc	123.6 (105.5 - 144.1)	60	142.4 (114.7 - 175.5)	33	104.5 (82.0 - 132.0)	27
Somerset	128.4 (113.5 - 145.0)	94	169.9 (144.8 - 198.5)	58	91.4 (74.5 - 111.5)	36
Waldo	128.0 (110.5 - 147.8)	70	176.8 (146.8 - 211.6)	45	83.0 (64.4 - 106.0)	24
Washington	161.6 (141.2 - 184.5)	81	225.3 (190.7 - 265.2)	53	106.4 (83.5 - 134.7)	28
York	139.2 (131.0 - 147.9)	378	184.2 (170.4 - 199.0)	230	102.3 (92.7 - 112.8)	148
Maine	134.1 (131.0 - 137.3)	2,451	179.8 (174.5 - 185.3)	1,519	96.1 (92.4 - 99.9)	933

Tobacco-related Cancers, Excl. Lung and Bronchus: Incidence by Public Health District of Residence, Maine, 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	131.4 (118.8 - 145.2)	142	177.1 (155.7 - 201.0)	88	94.0 (79.4 - 111.0)	54
Central	134.1 (125.5 - 143.2)	318	174.8 (160.4 - 190.1)	195	99.3 (89.0 - 110.5)	123
Cumberland	132.6 (125.7 - 139.9)	485	183.7 (171.5 - 196.5)	298	92.1 (84.3 - 100.4)	187
Downeast	141.5 (129.8 - 154.1)	193	200.5 (180.1 - 222.8)	126	92.1 (79.2 - 106.8)	67
Midcoast	124.4 (115.7 - 133.7)	277	162.4 (148.1 - 177.8)	172	91.2 (80.7 - 102.9)	105
Penquis	134.4 (125.6 - 143.7)	304	175.2 (160.5 - 191.0)	184	101.3 (90.8 - 112.8)	120
Western	136.2 (127.9 - 144.9)	353	184.9 (170.8 - 200.0)	225	94.9 (85.3 - 105.3)	128
York	139.2 (131.0 - 147.9)	378	184.2 (170.4 - 199.0)	230	102.3 (92.7 - 112.8)	148
Maine	134.1 (131.0 - 137.3)	2,451	179.8 (174.5 - 185.3)	1,519	96.1 (92.4 - 99.9)	933

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 2016 NPCR-CSS data submission

Prostate Cancer: Incidence by Age, Maine 2012-2014

	Male	
	Crude Rate (95% CI)	Count/Yr
40-44 years	6.3 (2.7 - 12.5)	3
45-49 years	14.9 (9.2 - 22.7)	7
50-54 years	81.6 (68.3 - 96.9)	44
55-59 years	209.7 (187.6 - 233.7)	109
60-64 years	359.2 (328.5 - 391.9)	168
65-69 years	508.1 (467.7 - 551.0)	195
70-74 years	485.7 (437.9 - 537.3)	126
75-79 years	440.6 (386.6 - 500.0)	80
80-84 years	379.0 (319.9 - 446.0)	48
85+ years	308.0 (249.8 - 375.8)	32
Maine All Ages*	124.7 (119.8 - 129.8)	812

Prostate Cancer: Incidence by Public Health District of Residence, Maine, 2012-2014

	Male	
	AA Rate (95% CI)	Count/Yr
Aroostook	121.1 (105.0 - 139.5)	70
Central	82.7 (73.3 - 93.1)	99
Cumberland	86.7 (78.8 - 95.2)	157
Downeast	96.3 (82.9 - 111.6)	66
Midcoast	81.2 (71.9 - 91.5)	97
Penquis	82.1 (72.6 - 92.6)	94
Western	90.2 (80.9 - 100.3)	121
York	78.1 (69.5 - 87.5)	106
Maine	87.1 (83.6 - 90.7)	812

Prostate Cancer: Incidence by County of Residence, Maine, 2012-2014

	Male	
	AA Rate (95% CI)	Count/Yr
Androscoggin	96.9 (83.4 - 112.1)	65
Aroostook	121.1 (105.0 - 139.5)	70
Cumberland	86.7 (78.8 - 95.2)	157
Franklin	99.3 (76.7 - 127.5)	23
Hancock	106.1 (88.5 - 126.8)	46
Kennebec	85.6 (74.2 - 98.6)	70
Knox	66.5 (51.3 - 85.7)	23
Lincoln	63.0 (47.3 - 83.8)	19
Oxford	74.4 (60.2 - 91.5)	34
Penobscot	82.9 (72.7 - 94.4)	82
Piscataquis	74.9 (51.9 - 108.1)	12
Sagadahoc	96.2 (74.9 - 122.5)	24
Somerset	77.0 (61.2 - 96.3)	29
Waldo	105.7 (84.6 - 131.2)	32
Washington	80.5 (60.9 - 105.5)	20
York	78.1 (69.5 - 87.5)	106
Maine	87.1 (83.6 - 90.7)	812

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.
- Maine total includes 1 case with unknown county of residence.

Data Source:

- Maine CDC Cancer Registry, based on November 2016 NPCR-CSS data submission

Female Breast Cancer: Incidence by Age, Maine, 2012-2014

	Female	
	Crude Rate (95% CI)	Count/Yr
25-29 years	8.7 (4.2 - 16.1)	3
30-34 years	27.5 (18.7 - 39.1)	10
35-39 years	63.1 (49.2 - 79.8)	23
40-44 years	128.1 (109.4 - 149.1)	56
45-49 years	191.9 (170.1 - 215.6)	94
50-54 years	205.5 (184.4 - 228.4)	115
55-59 years	243.7 (220.5 - 268.7)	135
60-64 years	328.9 (300.4 - 359.3)	164
65-69 years	447.0 (410.0 - 486.5)	179
70-74 years	460.6 (416.6 - 508.1)	133
75-79 years	479.6 (428.1 - 535.6)	105
80-84 years	444.6 (390.0 - 504.6)	80
85+ years	310.8 (268.4 - 358.0)	64
Maine All Ages*	171.1 (165.4 - 176.9)	1,161


Female Breast Cancer: Incidence by Public Health District of Residence, Maine, 2012-2014

	Female	
	AA Rate (95% CI)	Count/Yr
Aroostook	102.3 (85.8 - 121.3)	52
Central	115.2 (103.9 - 127.4)	139
Cumberland	128.7 (119.3 - 138.7)	247
Downeast	118.7 (103.2 - 136.2)	81
Midcoast	131.9 (119.0 - 145.8)	147
Penquis	133.6 (121.1 - 147.3)	150
Western	112.1 (101.5 - 123.5)	149
York	140.0 (128.4 - 152.5)	195
Maine	125.0 (120.7 - 129.5)	1,161

Female Breast Cancer: Incidence by County of Residence, Maine, 2012-2014

	Female	
	AA Rate (95% CI)	Count/Yr
Androscoggin	111.7 (97.4 - 127.6)	78
Aroostook	102.3 (85.8 - 121.3)	52
Cumberland	128.7 (119.3 - 138.7)	247
Franklin	103.1 (78.0 - 134.4)	21
Hancock	122.8 (102.9 - 145.8)	53
Kennebec	122.5 (108.6 - 137.8)	102
Knox	146.0 (120.1 - 176.4)	44
Lincoln	118.0 (93.1 - 148.3)	32
Oxford	117.5 (98.7 - 139.3)	50
Penobscot	131.9 (118.7 - 146.3)	131
Piscataquis	150.5 (111.1 - 201.1)	19
Sagadahoc	136.0 (110.2 - 166.8)	35
Somerset	98.3 (80.1 - 119.9)	36
Waldo	125.1 (101.6 - 153.1)	36
Washington	110.5 (87.1 - 139.3)	29
York	140.0 (128.4 - 152.5)	195
Maine	125.0 (120.7 - 129.5)	1,161

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 2016 NPCR-CSS data submission

Colon and Rectum Cancer: Incidence by Age, Maine, 2012-2014

	Total		Male		Female	
	Crude Rate (95% CI)	Count/ Yr	Crude Rate (95% CI)	Count/ Yr	Crude Rate (95% CI)	Count/Yr
35-39 years	11.9 (7.8 - 17.5)	9	8.4 (3.8 - 16.0)	3	15.3 (8.9 - 24.5)	6
40-44 years	18.7 (13.8 - 24.8)	16	21.4 (14.1 - 31.1)	9	16.1 (10.0 - 24.6)	7
45-49 years	26.7 (21.1 - 33.4)	26	27.6 (19.6 - 37.8)	13	25.9 (18.3 - 35.5)	13
50-54 years	63.7 (55.3 - 72.9)	70	84.7 (71.1 - 100.2)	45	43.5 (34.1 - 54.7)	24
55-59 years	58.4 (50.3 - 67.3)	63	70.3 (57.8 - 84.8)	37	47.1 (37.2 - 58.7)	26
60-64 years	76.0 (66.3 - 86.7)	73	86.2 (71.5 - 103.0)	40	66.3 (53.9 - 80.7)	33
65-69 years	120.5 (106.9 - 135.4)	94	138.3 (117.7 - 161.6)	53	103.4 (86.0 - 123.3)	41
70-74 years	146.5 (128.6 - 166.3)	80	146.9 (121.1 - 176.4)	38	146.3 (121.9 - 174.0)	42
75-79 years	175.6 (152.7 - 201.0)	70	185.4 (151.0 - 225.3)	34	167.5 (137.7 - 201.9)	37
80-84 years	242.4 (211.6 - 276.3)	74	266.6 (217.4 - 323.7)	34	225.1 (186.8 - 268.9)	40
85+ years	288.4 (255.0 - 325.0)	90	330.3 (269.8 - 400.2)	35	267.1 (227.9 - 311.1)	55
Maine All Ages*	50.8 (48.6 - 53.0)	675	53.0 (49.8 - 56.3)	345	48.6 (45.6 - 51.7)	330

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 2016 NPCR-CSS data submission

Colon and Rectum Cancer: Incidence by County of Residence, Maine, 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	33.8 (28.2 - 40.3)	45	35.3 (27.0 - 45.3)	22	32.3 (24.9 - 41.4)	23
Aroostook	41.2 (34.2 - 49.4)	44	41.5 (31.2 - 54.5)	20	40.7 (31.5 - 52.4)	24
Cumberland	34.9 (31.4 - 38.7)	127	41.1 (35.5 - 47.5)	66	29.9 (25.5 - 34.8)	62
Franklin	35.0 (25.3 - 47.7)	15	37.3 (23.5 - 57.4)	8	34.0 (20.8 - 53.4)	7
Hancock	41.1 (33.3 - 50.4)	35	54.8 (41.7 - 71.3)	21	30.0 (21.1 - 42.2)	13
Kennebec	38.4 (33.0 - 44.5)	63	41.4 (33.3 - 51.0)	32	36.1 (28.9 - 44.7)	31
Knox	36.9 (28.3 - 47.7)	22	45.1 (31.4 - 63.5)	12	29.2 (19.3 - 43.6)	10
Lincoln	42.3 (32.3 - 54.9)	24	47.3 (33.1 - 66.8)	13	38.5 (25.0 - 57.8)	11
Oxford	39.2 (31.5 - 48.4)	32	43.2 (31.5 - 58.3)	16	36.4 (26.5 - 49.3)	16
Penobscot	36.8 (31.9 - 42.3)	71	35.0 (28.1 - 43.1)	31	38.6 (31.7 - 46.6)	39
Piscataquis	41.9 (28.8 - 60.4)	12	46.0 (27.4 - 75.8)	7	37.3 (20.5 - 65.7)	5
Sagadahoc	30.0 (21.4 - 41.3)	15	29.2 (16.6 - 48.0)	6	28.5 (18.4 - 43.5)	9
Somerset	34.2 (26.6 - 43.5)	24	37.3 (26.0 - 52.3)	13	31.2 (21.4 - 44.5)	12
Waldo	36.9 (28.2 - 47.7)	22	41.9 (28.6 - 60.0)	12	32.7 (21.8 - 48.0)	10
Washington	48.2 (37.4 - 61.6)	24	57.2 (40.4 - 79.6)	13	39.4 (26.4 - 57.8)	11
York	37.3 (33.1 - 42.0)	100	42.6 (36.1 - 50.1)	53	32.7 (27.4 - 38.9)	47
Maine	37.4 (35.7 - 39.1)	675	41.6 (39.0 - 44.3)	345	33.8 (31.7 - 36.1)	330

Colon and Rectum Cancer: Incidence by Public Health District of Residence, Maine, 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	41.2 (34.2 - 49.4)	44	41.5 (31.2 - 54.5)	20	40.7 (31.5 - 52.4)	24
Central	37.2 (32.7 - 42.2)	88	40.3 (33.6 - 48.1)	45	34.6 (28.7 - 41.5)	43
Cumberland	34.9 (31.4 - 38.7)	127	41.1 (35.5 - 47.5)	66	29.9 (25.5 - 34.8)	62
Downeast	43.9 (37.4 - 51.3)	59	55.9 (45.3 - 68.5)	35	33.8 (26.1 - 43.4)	24
Midcoast	36.2 (31.7 - 41.4)	83	40.9 (33.9 - 49.2)	43	31.8 (26.0 - 38.6)	40
Penquis	37.5 (32.9 - 42.7)	83	36.8 (30.2 - 44.5)	38	38.3 (31.9 - 45.8)	45
Western	35.8 (31.6 - 40.4)	92	38.3 (31.9 - 45.5)	46	33.9 (28.3 - 40.3)	46
York	37.3 (33.1 - 42.0)	100	42.6 (36.1 - 50.1)	53	32.7 (27.4 - 38.9)	47
Maine	37.4 (35.7 - 39.1)	675	41.6 (39.0 - 44.3)	345	33.8 (31.7 - 36.1)	330

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 2016 NPCR-CSS data submission

Urinary Bladder Cancer: Incidence by Age, Maine, 2012-2014

	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 - 8.2)	1	0.9 (0.0 - 5.0)	0
40-44 years	2.7 (1.1 - 5.6)	2	5.5 (2.2 - 11.4)	2	0.0 (0.0 - 2.8)	0
45-49 years	14.9 (10.8 - 20.1)	14	25.5 (17.9 - 35.3)	12	4.8 (1.9 - 9.8)	2
50-54 years	21.6 (16.9 - 27.3)	24	31.8 (23.7 - 41.8)	17	11.9 (7.3 - 18.4)	7
55-59 years	32.9 (26.9 - 39.8)	35	46.7 (36.6 - 58.7)	24	19.9 (13.7 - 28.0)	11
60-64 years	60.8 (52.1 - 70.4)	59	94.8 (79.4 - 112.3)	44	28.8 (20.8 - 38.8)	14
65-69 years	92.4 (80.5 - 105.5)	72	147.0 (125.7 - 171.0)	56	40.0 (29.5 - 53.1)	16
70-74 years	153.2 (134.9 - 173.4)	84	258.9 (224.4 - 297.3)	67	58.7 (43.7 - 77.2)	17
75-79 years	189.8 (165.9 - 216.1)	76	326.8 (280.5 - 378.5)	59	76.1 (56.5 - 100.4)	17
80-84 years	217.4 (188.3 - 249.7)	67	376.4 (317.5 - 443.2)	48	104.2 (78.7 - 135.3)	19
85+ years	210.1 (181.7 - 241.7)	65	431.9 (362.4 - 510.9)	45	97.1 (74.1 - 125.0)	20
Maine All Ages*	37.7 (35.8 - 39.6)	501	58.0 (54.7 - 61.5)	378	18.1 (16.3 - 20.1)	123

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 2016 NPCR-CSS data submission

Urinary Bladder Cancer: Incidence by County of Residence, Maine, 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	29.4 (24.3 - 35.4)	40	51.6 (41.3 - 63.8)	30	12.5 (8.3 - 18.2)	10
Aroostook	25.3 (20.1 - 31.6)	28	41.4 (31.6 - 53.8)	21	12.2 (7.6 - 19.4)	7
Cumberland	26.1 (23.0 - 29.4)	94	43.5 (37.6 - 50.2)	67	12.8 (10.1 - 16.1)	27
Franklin	34.5 (25.0 - 46.9)	15	68.3 (48.5 - 94.3)	14	5.8 (1.6 - 17.1)	1
Hancock	33.5 (26.7 - 41.8)	29	57.0 (43.7 - 73.6)	22	14.7 (9.1 - 23.6)	7
Kennebec	26.3 (21.8 - 31.4)	42	45.5 (36.8 - 55.7)	33	10.6 (7.0 - 15.7)	9
Knox	19.2 (13.4 - 27.1)	13	32.4 (21.9 - 47.3)	10	9.3 (3.5 - 20.6)	3
Lincoln	22.4 (15.8 - 31.6)	13	35.6 (23.9 - 52.6)	10	10.9 (4.8 - 23.2)	3
Oxford	26.6 (20.6 - 34.2)	23	44.7 (33.1 - 59.4)	18	11.5 (6.4 - 19.9)	5
Penobscot	27.8 (23.6 - 32.5)	55	48.8 (40.6 - 58.4)	42	11.2 (7.9 - 15.8)	12
Piscataquis	23.0 (14.0 - 37.3)	7	38.4 (21.8 - 66.3)	6	9.6 (2.6 - 30.0)	1
Sagadahoc	27.0 (19.4 - 37.2)	14	45.7 (31.2 - 65.7)	11	9.9 (4.4 - 20.7)	3
Somerset	30.2 (23.2 - 38.9)	22	49.0 (35.9 - 65.8)	16	13.9 (8.0 - 23.2)	6
Waldo	20.4 (13.9 - 29.2)	11	36.0 (23.5 - 53.4)	9	6.2 (2.2 - 15.4)	2
Washington	32.6 (24.0 - 43.9)	17	54.2 (37.8 - 76.2)	13	14.0 (7.2 - 26.6)	4
York	28.4 (24.8 - 32.4)	78	46.0 (39.1 - 53.8)	56	14.3 (11.0 - 18.4)	22
Maine	27.1 (25.7 - 28.6)	501	46.1 (43.4 - 48.9)	378	11.9 (10.7 - 13.2)	123

Urinary Bladder Cancer: Incidence by Public Health District of Residence, Maine, 2012-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	25.3 (20.1 - 31.6)	28	41.4 (31.6 - 53.8)	21	12.2 (7.6 - 19.4)	7
Central	27.5 (23.7 - 31.8)	64	46.7 (39.3 - 55.1)	49	11.6 (8.4 - 15.7)	15
Cumberland	26.1 (23.0 - 29.4)	94	43.5 (37.6 - 50.2)	67	12.8 (10.1 - 16.1)	27
Downeast	33.1 (27.7 - 39.5)	46	55.9 (45.4 - 68.5)	35	14.6 (10.0 - 21.1)	11
Midcoast	22.1 (18.6 - 26.1)	52	37.6 (31.1 - 45.3)	41	8.8 (5.9 - 12.9)	11
Penquis	27.1 (23.3 - 31.5)	62	47.5 (39.9 - 56.2)	48	11.0 (7.9 - 15.2)	14
Western	29.2 (25.5 - 33.3)	77	51.9 (44.5 - 60.2)	61	11.0 (8.1 - 14.8)	16
York	28.4 (24.8 - 32.4)	78	46.0 (39.1 - 53.8)	56	14.3 (11.0 - 18.4)	22
Maine	27.1 (25.7 - 28.6)	501	46.1 (43.4 - 48.9)	378	11.9 (10.7 - 13.2)	123

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 2016 NPCR-CSS data submission

Brain and Other Nervous System Tumors: Incidence by County of Residence, Maine, 2010-2014

	All Behaviors		Malignant		Non-Malignant	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	17.9 (14.6 - 21.7)	22	7.5 (5.4 - 10.1)	9	10.4 (7.9 - 13.4)	13
Aroostook	12.0 (9.0 - 15.9)	12	6.0 (3.8 - 9.1)	5	6.0 (4.1 - 8.8)	6
Cumberland	15.0 (13.1 - 17.0)	50	7.1 (5.8 - 8.6)	23	7.8 (6.5 - 9.3)	26
Franklin	15.2 (9.5 - 23.1)	5	9.0 (4.8 - 15.3)	3	6.2 (2.8 - 11.9)	2
Hancock	15.8 (11.7 - 21.0)	12	8.3 (5.4 - 12.2)	6	7.5 (4.8 - 11.4)	5
Kennebec	18.3 (15.2 - 22.0)	26	7.0 (5.1 - 9.5)	10	11.3 (8.9 - 14.2)	16
Knox	13.4 (9.1 - 19.1)	7	5.7 (3.1 - 9.9)	3	7.7 (4.6 - 12.3)	4
Lincoln	16.2 (10.4 - 23.9)	6	6.9 (3.4 - 12.4)	3	9.3 (5.1 - 15.6)	3
Oxford	19.5 (14.9 - 25.1)	14	8.3 (5.3 - 12.4)	5	11.3 (8.0 - 15.5)	8
Penobscot	14.2 (11.8 - 17.1)	25	8.0 (6.2 - 10.2)	14	6.2 (4.7 - 8.2)	11
Piscataquis	13.8 (7.8 - 23.2)	4	8.4 (4.0 - 16.5)	2	5.4 (1.9 - 12.6)	1
Sagadahoc	14.2 (9.5 - 20.4)	6	8.7 (5.1 - 13.9)	4	5.5 (2.9 - 9.8)	3
Somerset	21.9 (16.7 - 28.3)	13	8.6 (5.4 - 13.0)	5	13.3 (9.4 - 18.4)	8
Waldo	17.9 (12.6 - 24.8)	8	9.4 (5.6 - 14.7)	4	8.6 (5.0 - 13.7)	4
Washington	9.1 (5.2 - 15.0)	4	4.8 (2.3 - 9.1)	2	4.4 (1.7 - 9.2)	2
York	17.7 (15.3 - 20.5)	41	7.1 (5.6 - 8.9)	16	10.7 (8.8 - 12.8)	25
Maine	16.0 (15.1 - 16.9)	255	7.4 (6.7 - 8.0)	116	8.6 (8.0 - 9.3)	139

Brain and Other Nervous System Tumors: Incidence by Public Health District of Residence, Maine, 2010-2014

	All Behaviors		Malignant		Non-Malignant	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	12.0 (9.0 - 15.9)	12	6.0 (3.8 - 9.1)	5	6.0 (4.1 - 8.8)	6
Central	19.3 (16.6 - 22.4)	39	7.5 (5.8 - 9.5)	15	11.8 (9.8 - 14.3)	25
Cumberland	15.0 (13.1 - 17.0)	50	7.1 (5.8 - 8.6)	23	7.8 (6.5 - 9.3)	26
Downeast	13.3 (10.3 - 17.0)	15	7.0 (4.9 - 9.8)	9	6.3 (4.2 - 9.1)	7
Midcoast	15.2 (12.6 - 18.2)	28	7.5 (5.8 - 9.7)	14	7.7 (5.9 - 9.9)	14
Penquis	14.2 (11.9 - 16.8)	29	8.1 (6.4 - 10.2)	16	6.1 (4.6 - 7.8)	13
Western	17.8 (15.4 - 20.6)	41	7.8 (6.2 - 9.8)	18	10.0 (8.2 - 12.1)	23
York	17.7 (15.3 - 20.5)	41	7.1 (5.6 - 8.9)	16	10.7 (8.8 - 12.8)	25
Maine	16.0 (15.1 - 16.9)	255	7.4 (6.7 - 8.0)	116	8.6 (8.0 - 9.3)	139

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 2016 NPCR-CSS data submission

Age-adjusted Tobacco-associated Cancers: Incidence by Anatomic Site, Maine and U.S., 2014

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
Both Sexes				
Total Tobacco-associated Cancers	208.8 (202.1 - 215.7)	3,911	187.2 (186.7 - 187.7)	186.9 (186.5 - 187.4)
Trachea, Lung, Bronchus	72.1 (68.2 - 76.1)	1,361	59.5 (59.2 - 59.8)	58.7 (58.4 - 58.9)
Tobacco excluding Trachea, Lung, Bronchus	136.7 (131.3 - 142.3)	2,550	127.7 (127.3 - 128.1)	128.3 (127.9 - 128.6)
Lip, Oral Cavity, Pharynx	12.3 (10.7 - 14.1)	234	12.0 (11.9 - 12.1)	11.6 (11.5 - 11.7)
Esophagus	7.1 (5.9 - 8.4)	134	4.7 (4.6 - 4.7)	4.5 (4.4 - 4.6)
Stomach	5.8 (4.7 - 7.0)	111	5.9 (5.8 - 5.9)	6.6 (6.5 - 6.6)
Colon and Rectum	36.3 (33.5 - 39.2)	667	37.6 (37.4 - 37.9)	38.5 (38.3 - 38.7)
Liver	4.7 (3.8 - 5.9)	92	6.4 (6.3 - 6.5)	7.1 (7.0 - 7.2)
Pancreas	13.2 (11.5 - 15.0)	250	12.3 (12.2 - 12.5)	12.6 (12.5 - 12.7)
Larynx	3.9 (3.1 - 4.9)	76	3.2 (3.2 - 3.3)	3.3 (3.2 - 3.3)
Cervix Uteri	6.1 (4.4 - 8.2)	48	7.5 (7.3 - 7.6)	7.6 (7.4 - 7.7)
Kidney and Renal Pelvis	17.2 (15.3 - 19.3)	317	16.4 (16.2 - 16.6)	16.3 (16.1 - 16.4)
Urinary Bladder	29.0 (26.6 - 31.6)	547	21.0 (20.9 - 21.2)	19.7 (19.6 - 19.9)
Acute Myeloid Leukemia	4.1 (3.2 - 5.3)	74	4.3 (4.3 - 4.4)	4.2 (4.2 - 4.3)

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 2016 NPCR-CSS data submission
- SEER*Stat Database: NAACCR Incidence Data - CiNA Analytic File, 1995-2014, Public Use

Age-adjusted Tobacco-associated Cancers: Incidence by Gender and Anatomic Site, Maine and U.S., 2014

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
Male				
Total Tobacco-associated Cancers	263.4 (252.3 - 274.8)	2,277	239.8 (238.9 - 240.6)	240.2 (239.5 - 241.0)
Trachea, Lung, Bronchus	80.8 (74.8 - 87.3)	706	68.6 (68.1 - 69.0)	68.8 (68.4 - 69.2)
Tobacco excluding Trachea, Lung, Bronchus	182.5 (173.4 - 192.1)	1,571	171.2 (170.5 - 171.9)	171.4 (170.8 - 172.1)
Lip, Oral Cavity, Pharynx	19.0 (16.2 - 22.2)	172	18.1 (17.9 - 18.3)	17.6 (17.4 - 17.8)
Esophagus	11.9 (9.6 - 14.5)	104	8.1 (7.9 - 8.2)	7.8 (7.6 - 7.9)
Stomach	6.3 (4.7 - 8.3)	55	8.1 (8.0 - 8.3)	9.0 (8.8 - 9.1)
Colon and Rectum	38.7 (34.5 - 43.3)	326	43.3 (42.9 - 43.6)	44.2 (43.9 - 44.5)
Liver	8.1 (6.3 - 10.3)	75	10.1 (9.9 - 10.3)	11.3 (11.1 - 11.4)
Pancreas	14.4 (11.9 - 17.3)	124	14.2 (14.0 - 14.4)	14.4 (14.2 - 14.6)
Larynx	7.1 (5.4 - 9.2)	64	5.5 (5.4 - 5.6)	5.6 (5.5 - 5.8)
Kidney and Renal Pelvis	22.3 (19.2 - 25.9)	195	22.1 (21.8 - 22.4)	22.1 (21.8 - 22.3)
Urinary Bladder	50.2 (45.4 - 55.4)	418	36.4 (36.1 - 36.8)	34.3 (34.0 - 34.6)
Acute Myeloid Leukemia	4.5 (3.2 - 6.4)	38	5.3 (5.2 - 5.4)	5.2 (5.1 - 5.3)
	Maine		CINA Whites	CINA All races
Female	AA Rate (95% CI)	Count	AA Rate (95% CI)	AA Rate (95% CI)
Total Tobacco-associated Cancers	164.6 (156.5 - 173.2)	1,634	144.2 (143.6 - 144.8)	144.1 (143.5 - 144.7)
Trachea, Lung, Bronchus	65.3 (60.2 - 70.6)	655	52.6 (52.2 - 53.0)	50.9 (50.6 - 51.3)
Tobacco excluding Trachea, Lung, Bronchus	99.4 (93.0 - 106.1)	979	91.6 (91.1 - 92.1)	93.2 (92.7 - 93.6)
Lip, Oral Cavity, Pharynx	6.5 (4.9 - 8.6)	62	6.5 (6.4 - 6.7)	6.4 (6.3 - 6.5)
Esophagus	3.1 (2.0 - 4.5)	30	1.7 (1.7 - 1.8)	1.8 (1.7 - 1.8)
Stomach	5.5 (4.1 - 7.2)	56	4.0 (3.9 - 4.1)	4.6 (4.5 - 4.7)
Colon and Rectum	34.4 (30.7 - 38.5)	341	32.8 (32.6 - 33.1)	33.7 (33.4 - 34.0)
Liver	1.8 (1.0 - 3.0)	17	3.1 (3.0 - 3.2)	3.4 (3.4 - 3.5)
Pancreas	12.3 (10.2 - 14.8)	126	10.7 (10.6 - 10.9)	11.1 (11.0 - 11.3)
Larynx	1.1 (0.6 - 2.1)	12	1.3 (1.2 - 1.3)	1.3 (1.2 - 1.3)
Cervix Uteri	6.1 (4.4 - 8.2)	48	7.5 (7.3 - 7.6)	7.6 (7.4 - 7.7)
Kidney and Renal Pelvis	12.6 (10.4 - 15.3)	122	11.4 (11.2 - 11.6)	11.3 (11.1 - 11.5)
Urinary Bladder	12.2 (10.1 - 14.6)	129	8.9 (8.8 - 9.1)	8.5 (8.4 - 8.6)
Acute Myeloid Leukemia	3.8 (2.6 - 5.4)	36	3.6 (3.5 - 3.7)	3.5 (3.5 - 3.6)

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., 2014

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
Both Sexes				
Total Obesity-associated Cancers	137.0 (131.7 - 142.5)	2,634	132.7 (132.2 - 133.1)	133.2 (132.8 - 133.6)
Adenocarcinoma of the Esophagus	5.1 (4.1 - 6.3)	97	3.3 (3.2 - 3.3)	2.9 (2.8 - 2.9)
Colon and Rectum	36.3 (33.5 - 39.2)	667	37.6 (37.4 - 37.9)	38.5 (38.3 - 38.7)
Pancreas	13.2 (11.5 - 15.0)	250	12.3 (12.2 - 12.5)	12.6 (12.5 - 12.7)
Post-menopausal Female Breast Cancer	341.8 (320.8 - 363.8)	1,011	338.6 (336.9 - 340.3)	334.6 (333.0 - 336.2)
Uterus (Corpus Uteri and Uterus, NOS)	31.0 (27.6 - 34.9)	313	26.6 (26.4 - 26.9)	26.4 (26.2 - 26.6)
Kidney	16.1 (14.2 - 18.1)	296	15.4 (15.3 - 15.6)	15.4 (15.2 - 15.5)
Male				
Total Obesity-associated Cancers	83.4 (77.2 - 90.0)	715	84.4 (83.9 - 84.9)	84.9 (84.4 - 85.3)
Adenocarcinoma of the Esophagus	9.0 (7.1 - 11.4)	79	6.0 (5.9 - 6.2)	5.4 (5.3 - 5.5)
Colon and Rectum	38.7 (34.5 - 43.3)	326	43.3 (42.9 - 43.6)	44.2 (43.9 - 44.5)
Pancreas	14.4 (11.9 - 17.3)	124	14.2 (14.0 - 14.4)	14.4 (14.2 - 14.6)
Kidney	21.3 (18.2 - 24.8)	186	20.9 (20.6 - 21.1)	20.9 (20.7 - 21.1)
Female				
Total Obesity-associated Cancers	185.5 (177.0 - 194.3)	1,919	175.4 (174.7 - 176.0)	175.1 (174.5 - 175.7)
Adenocarcinoma of the Esophagus	1.8 (1.1 - 3.0)	18	0.9 (0.8 - 0.9)	0.8 (0.8 - 0.8)
Colon and Rectum	34.4 (30.7 - 38.5)	341	32.8 (32.6 - 33.1)	33.7 (33.4 - 34.0)
Pancreas	12.3 (10.2 - 14.8)	126	10.7 (10.6 - 10.9)	11.1 (11.0 - 11.3)
Post-menopausal Female Breast Cancer	341.8 (320.8 - 363.8)	1,011	338.6 (336.9 - 340.3)	334.6 (333.0 - 336.2)
Uterus (Corpus Uteri and Uterus, NOS)	31.0 (27.6 - 34.9)	313	26.6 (26.4 - 26.9)	26.4 (26.2 - 26.6)
Kidney	11.5 (9.3 - 14.0)	110	10.7 (10.5 - 10.9)	10.6 (10.5 - 10.8)

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, cancers of colon and rectum, pancreas, 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. 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 2016 NPCR-CSS data submission
- SEER*Stat Database: NAACCR Incidence Data - CINA Analytic File, 1995-2014, Public Use

Age-adjusted Human Papillomavirus (HPV)-associated Cancers: Incidence by Anatomic Site, Maine and U.S., 2014

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
Both Sexes				
Total HPV-associated Cancers	13.5 (11.8 - 15.4)	241	12.8 (12.6 - 12.9)	12.3 (12.2 - 12.5)
Squamous cell carcinoma of the oropharynx	5.9 (4.9 - 7.2)	115	5.4 (5.3 - 5.4)	5.0 (4.9 - 5.1)
Squamous Cell Carcinoma of the anus and rectum	1.5 (1.0 - 2.3)	30	2.0 (1.9 - 2.0)	1.9 (1.8 - 1.9)
Male				
Total HPV-associated Cancers	11.9 (9.7 - 14.5)	109	11.4 (11.2 - 11.5)	10.8 (10.6 - 11.0)
Squamous cell carcinoma of the oropharynx	10.0 (8.0 - 12.4)	92	9.2 (9.0 - 9.3)	8.6 (8.5 - 8.7)
Squamous Cell Carcinoma of the anus and rectum	0.8 (0.3 - 1.8)	8	1.3 (1.3 - 1.4)	1.3 (1.3 - 1.4)
Squamous Cell Carcinoma of the penis	1.1 (0.5 - 2.2)	9	0.9 (0.8 - 0.9)	0.9 (0.8 - 0.9)
Female				
Total HPV-associated Cancers	15.0 (12.4 - 18.0)	132	14.2 (14.0 - 14.5)	13.9 (13.7 - 14.0)
Squamous cell carcinoma of the oropharynx	2.3 (1.4 - 3.6)	23	1.8 (1.8 - 1.9)	1.7 (1.7 - 1.8)
Squamous Cell Carcinoma of the anus and rectum	2.2 (1.4 - 3.5)	22	2.5 (2.5 - 2.6)	2.3 (2.2 - 2.4)
Squamous Cell Carcinoma of the vulva	3.8 (2.5 - 5.4)	33	2.2 (2.2 - 2.3)	2.1 (2.0 - 2.2)
Squamous Cell Carcinoma of the vagina	0.8 (0.3 - 1.8)	8	0.4 (0.4 - 0.5)	0.4 (0.4 - 0.5)
Carcinoma of the cervix	5.8 (4.2 - 7.9)	46	7.2 (7.0 - 7.4)	7.3 (7.1 - 7.4)

Notes:

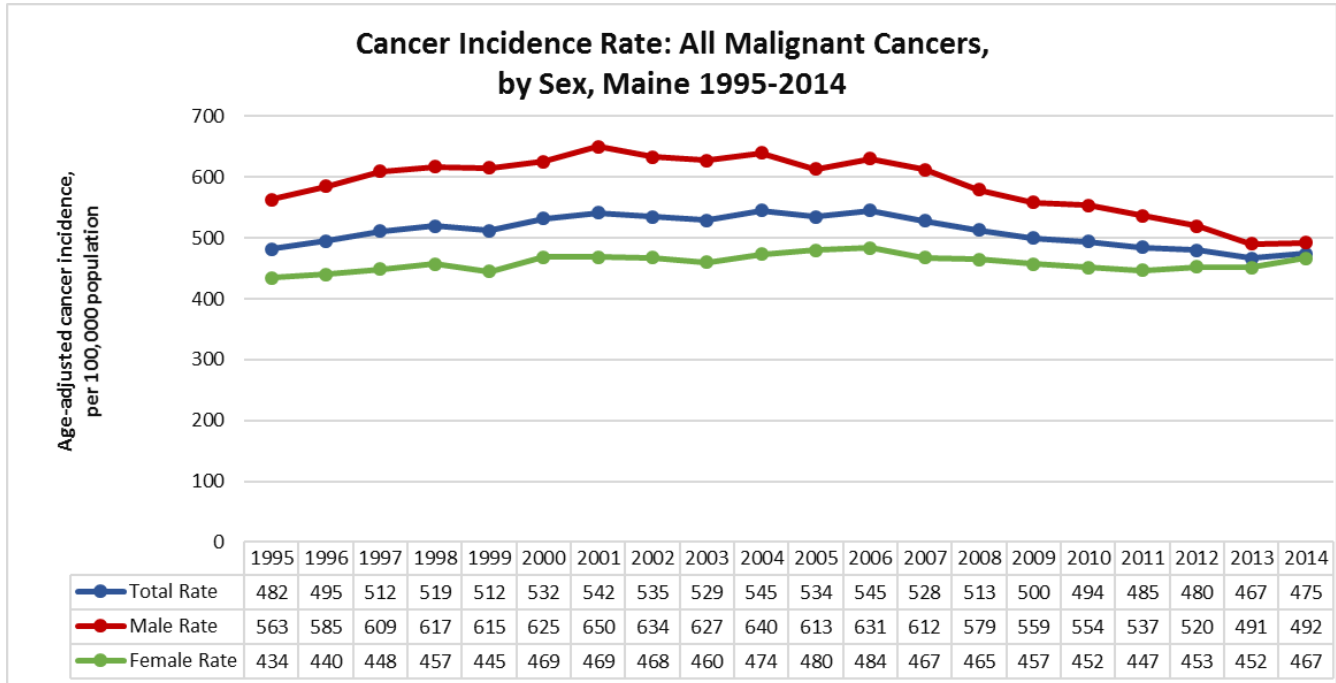
- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- HPV-associated cancers defined as squamous cell carcinomas of the oropharynx, rectum, anus, vulva, vagina, penis, and all carcinomas of the cervix. Oropharynx cancers are limited to the subsites specified in Appendix 2.
- 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 2016 NPCR-CSS data submission
- SEER*Stat Database: NAACCR Incidence Data - CiNA Analytic File, 1995-2014, Public Use

CANCER INCIDENCE TRENDS

Age-adjusted Incidence of all Malignant Cancers, Maine 1995-2014

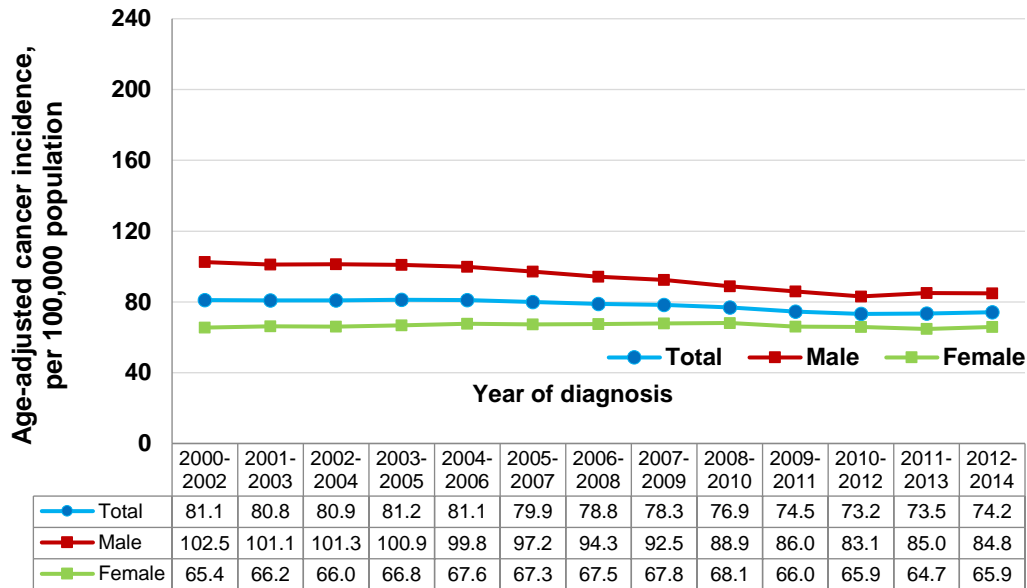


Year	Total		Male		Female	
	AA Rate (95% CI)	Count	AA Rate (95% CI)	Count	AA Rate (95% CI)	Count
1995	482.3 (470.5 - 494.4)	6,349	562.8 (543.1 - 583.0)	583.0	434.2 (419.0 - 449.9)	3,145
1996	495.2 (483.3 - 507.3)	6,606	585.0 (565.1 - 605.5)	605.5	440.0 (424.8 - 455.6)	3,239
1997	511.5 (499.5 - 523.7)	6,942	609.2 (589.1 - 629.8)	629.8	448.3 (433.2 - 463.9)	3,377
1998	519.3 (507.3 - 531.5)	7,137	617.1 (597.0 - 637.6)	637.6	457.0 (441.8 - 472.7)	3,465
1999	512.2 (500.4 - 524.2)	7,186	615.4 (595.6 - 635.7)	635.7	445.0 (430.1 - 460.3)	3,439
2000	532.4 (520.5 - 544.5)	7,606	625.4 (605.7 - 645.5)	645.5	468.6 (453.5 - 484.2)	3,688
2001	541.7 (529.8 - 553.8)	7,857	650.1 (630.2 - 670.5)	670.5	468.5 (453.5 - 484.0)	3,722
2002	535.0 (523.2 - 546.9)	7,899	633.5 (614.1 - 653.3)	653.3	468.1 (453.2 - 483.5)	3,772
2003	528.9 (517.2 - 540.7)	7,939	627.3 (608.2 - 646.9)	646.9	459.7 (445.0 - 474.9)	3,761
2004	544.9 (533.2 - 556.7)	8,350	639.6 (620.5 - 659.0)	659.0	473.5 (458.6 - 488.7)	3,947
2005	534.4 (522.8 - 546.1)	8,310	612.9 (594.3 - 631.9)	631.9	479.9 (465.0 - 495.2)	4,042
2006	545.0 (533.5 - 556.8)	8,632	630.8 (612.2 - 649.9)	649.9	484.0 (469.1 - 499.3)	4,134
2007	528.1 (516.9 - 539.6)	8,548	612.4 (594.3 - 631.0)	631.0	467.4 (452.8 - 482.4)	4,058
2008	512.9 (501.9 - 524.1)	8,474	579.4 (562.0 - 597.2)	597.2	464.7 (450.3 - 479.5)	4,105
2009	499.5 (488.7 - 510.6)	8,364	558.8 (541.8 - 576.2)	576.2	456.8 (442.6 - 471.5)	4,085
2010	493.9 (483.1 - 504.8)	8,393	554.1 (537.3 - 571.3)	571.3	451.7 (437.5 - 466.4)	4,051
2011	484.9 (474.2 - 495.7)	8,351	536.5 (520.1 - 553.4)	553.4	447.1 (433.0 - 461.6)	4,081
2012	480.1 (469.6 - 490.7)	8,508	519.7 (503.7 - 536.0)	536.0	452.9 (438.8 - 467.4)	4,227
2013	466.8 (456.6 - 477.2)	8,421	490.7 (475.5 - 506.3)	506.3	452.0 (437.9 - 466.5)	4,249
2014	474.6 (464.3 - 485.0)	8,703	492.4 (477.2 - 508.0)	508.0	466.7 (452.4 - 481.4)	4,448

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 2016 NPCR-CSS data submission

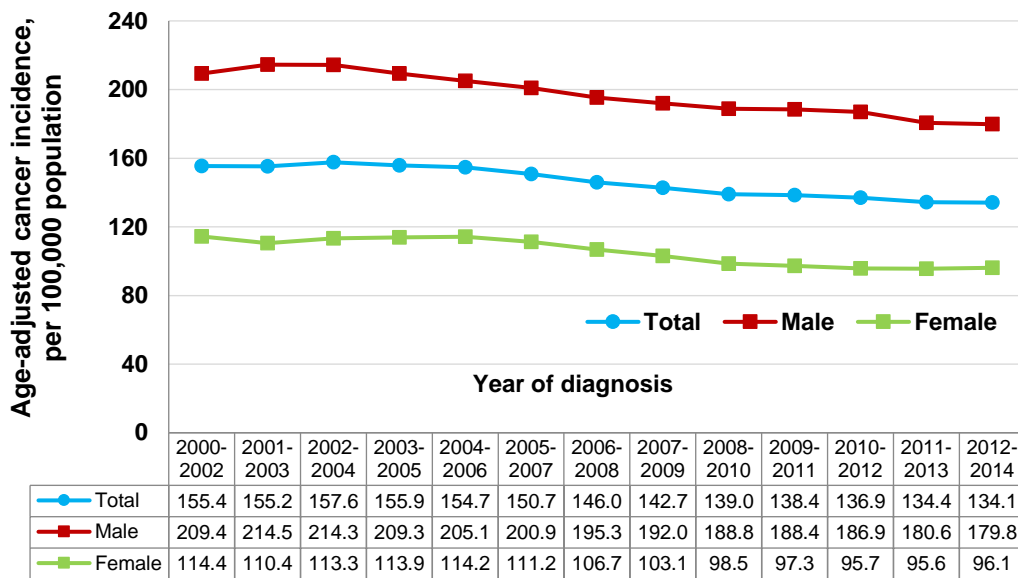
Age-adjusted Incidence of Lung and Bronchus Cancer, Maine 2000-2014

Cancer Incidence Rate: Lung and Bronchus Cancer, by Sex, Maine 2000-2014



Age-adjusted Incidence of Tobacco-related Cancers, Excluding Lung and Bronchus, Maine 2000-2014

Cancer Incidence Rate: Tobacco-related Cancer, Excluding Lung and Bronchus, by Sex, Maine 2000-2014



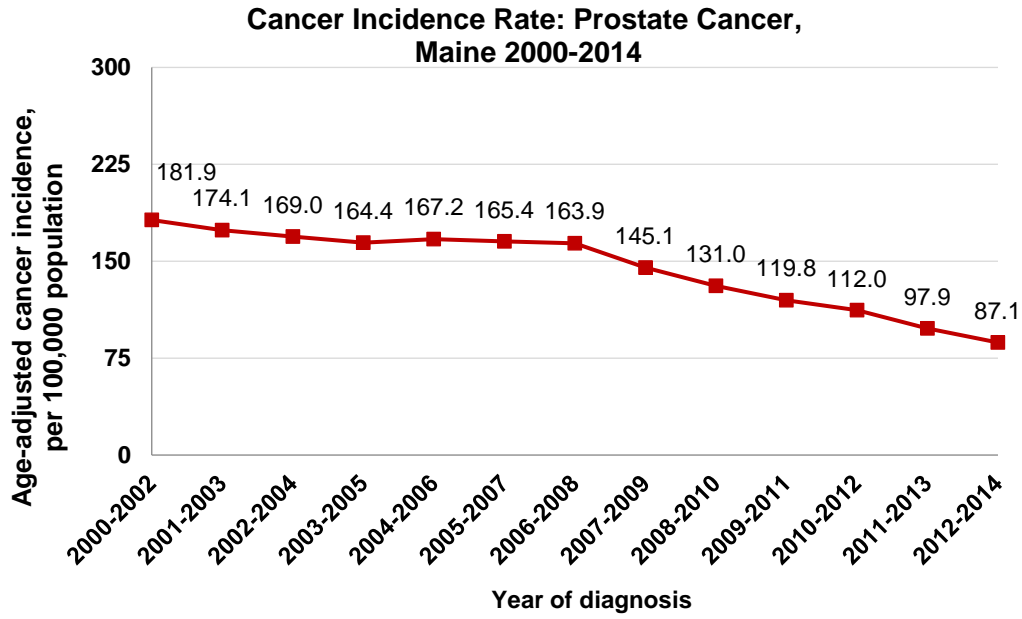
Notes:

- 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 2016 NPCR-CSS data submission

Age-adjusted Incidence of Prostate Cancer, Maine 2000-2014



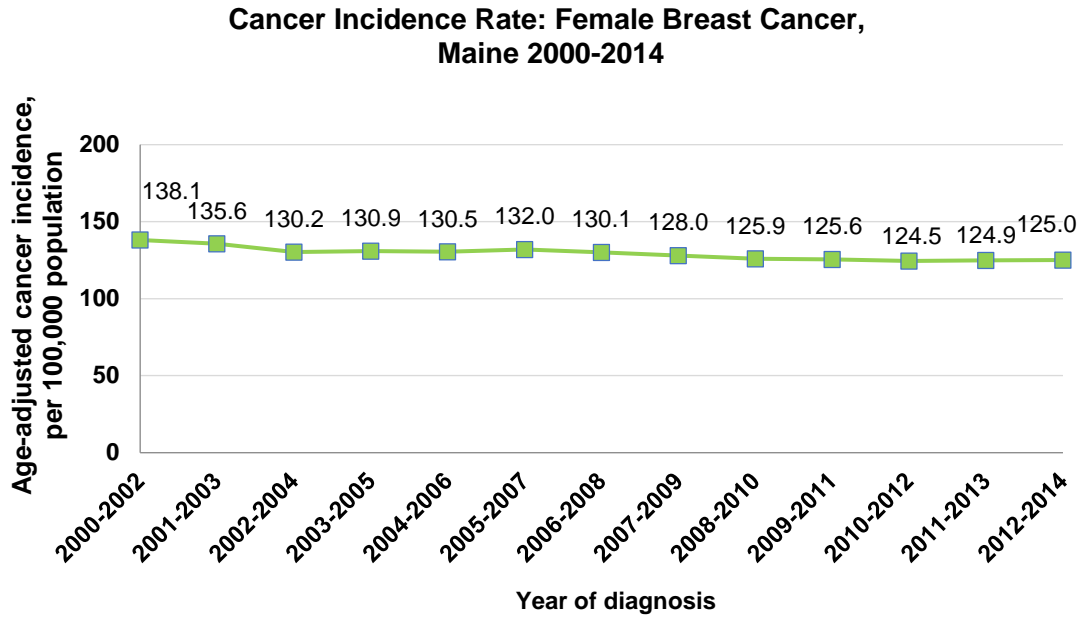
Notes:

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

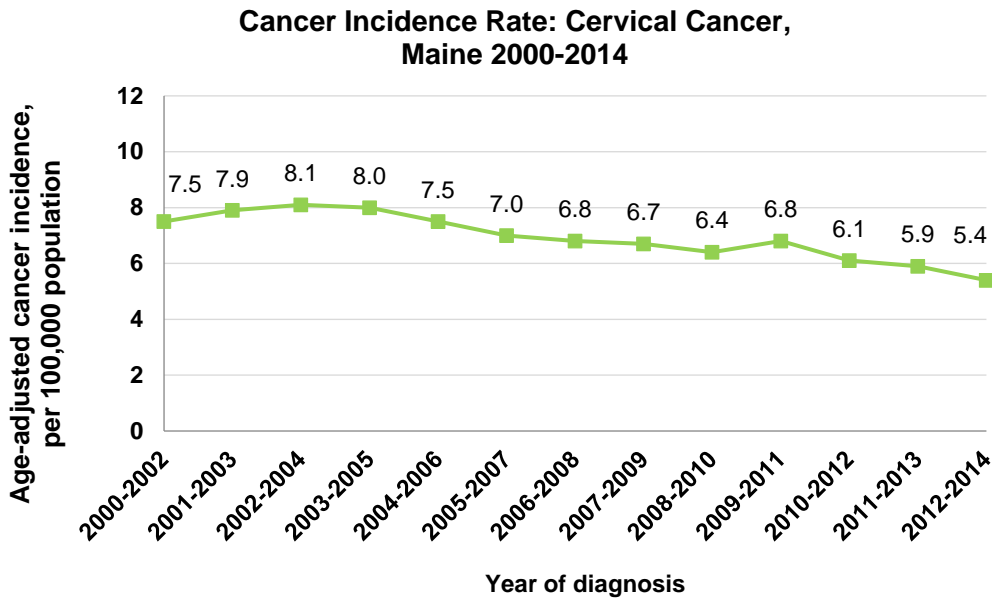
Data Source:

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2016 NPCR-CSS data submission

Age-adjusted Incidence of Female Breast Cancer, Maine 2000-2014



Age-adjusted Incidence of Cervical Cancer, Maine 2000-2014



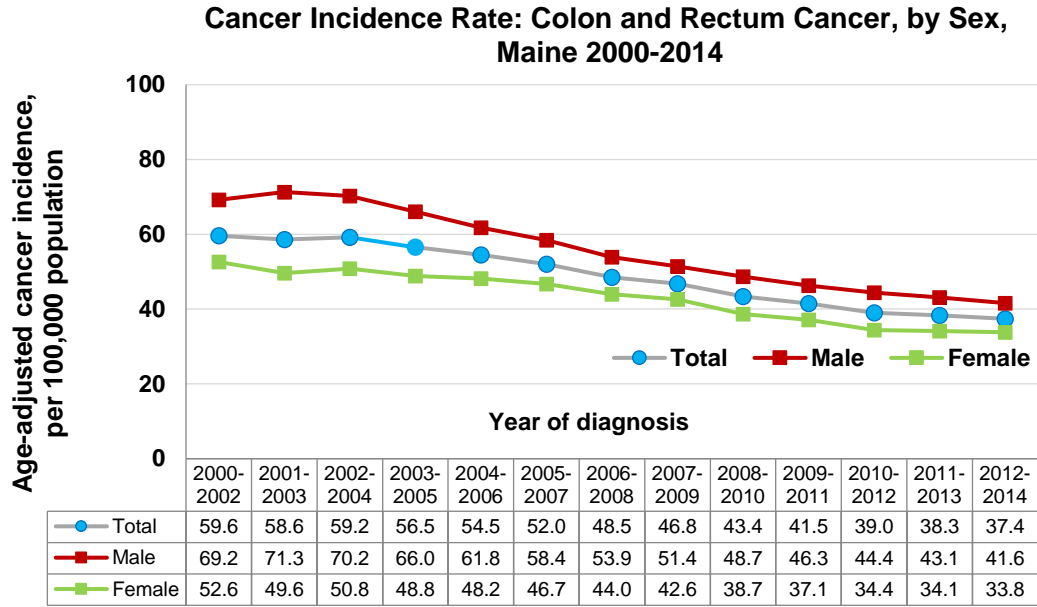
Notes:

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

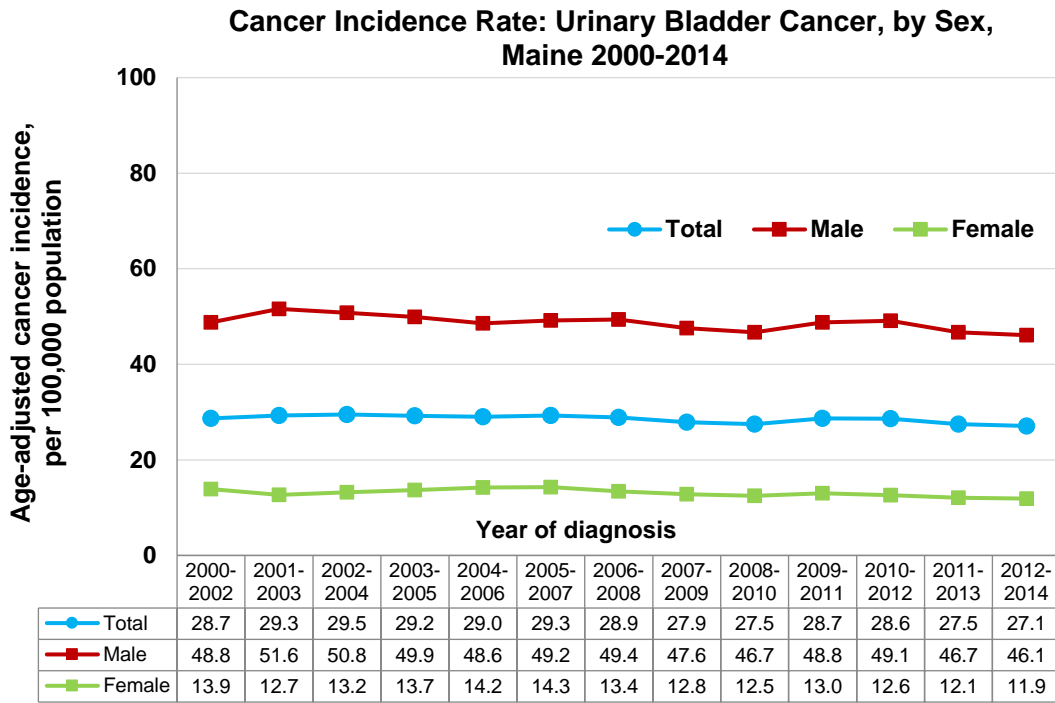
Data Source:

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2016 NPCR-CSS data submission

Age-adjusted Incidence of Colon and Rectum Cancer, Maine 2000-2014



Age-adjusted Incidence of Urinary Bladder Cancer, Maine 2000-2014



Notes:

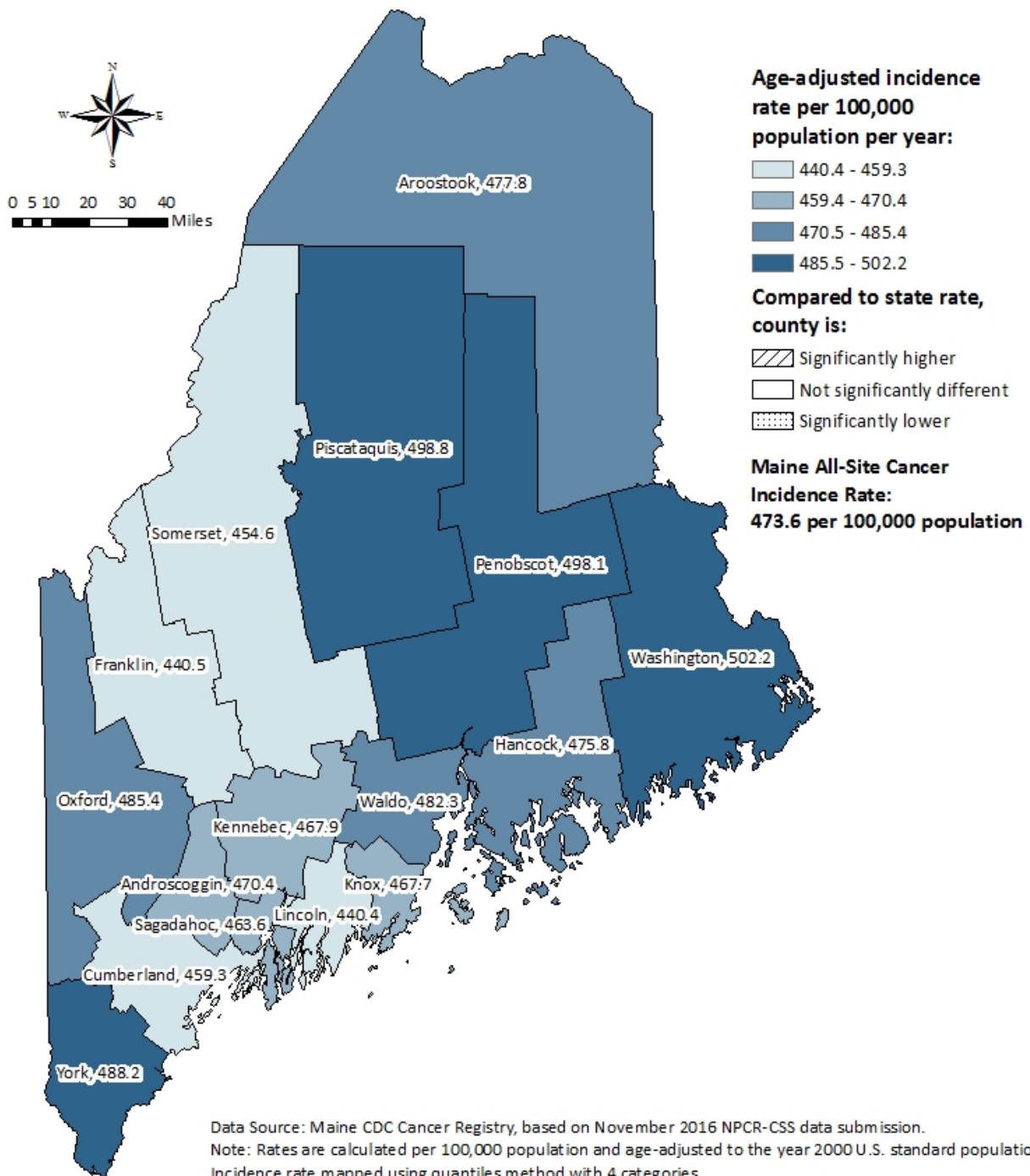
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.

Data Source:

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2016 NPCR-CSS data submission

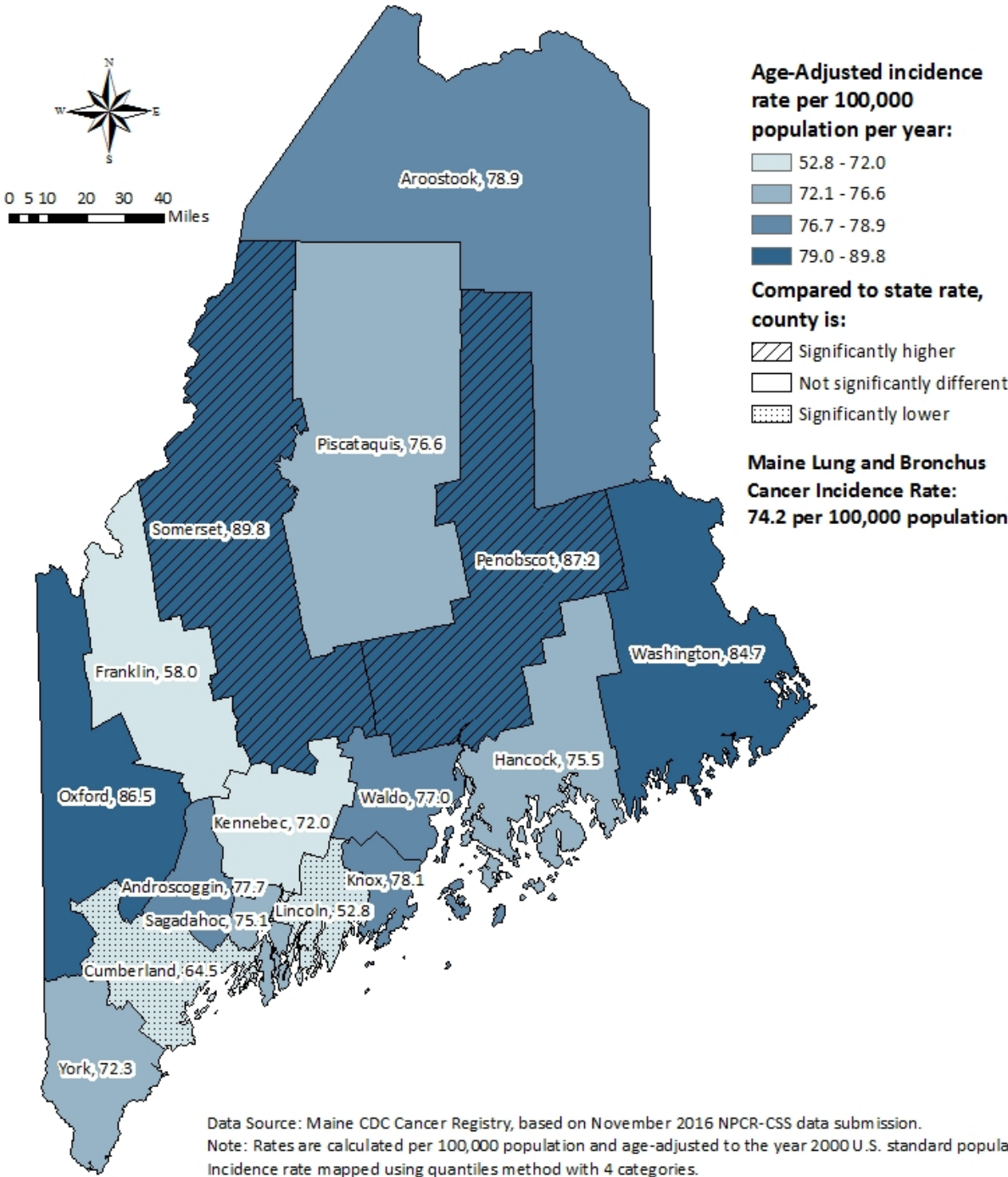
Cancer Incidence Maps

All-Site Cancer Incidence Rate by County, Maine, 2012-2014



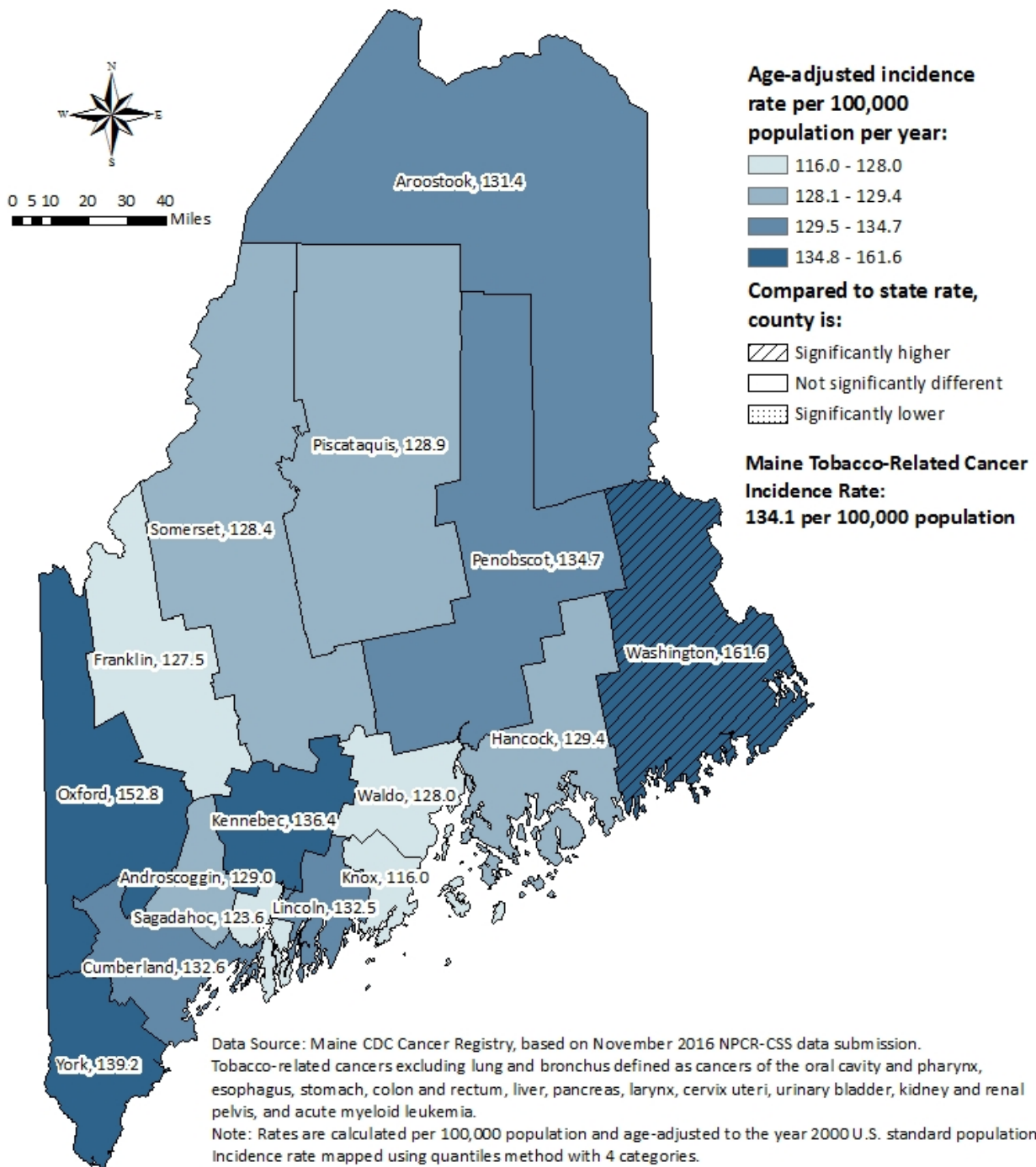
Data Source: Maine CDC Cancer Registry, based on November 2016 NPCR-CSS data submission.
 Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
 Incidence rate mapped using quantiles method with 4 categories.
 Produced for: The Maine Cancer Registry.
 Created 4/2/18 by Finn Teach. Data analyzed by USM Epidemiology.

Lung and Bronchus Cancer Incidence Rate by County, Maine, 2012-2014

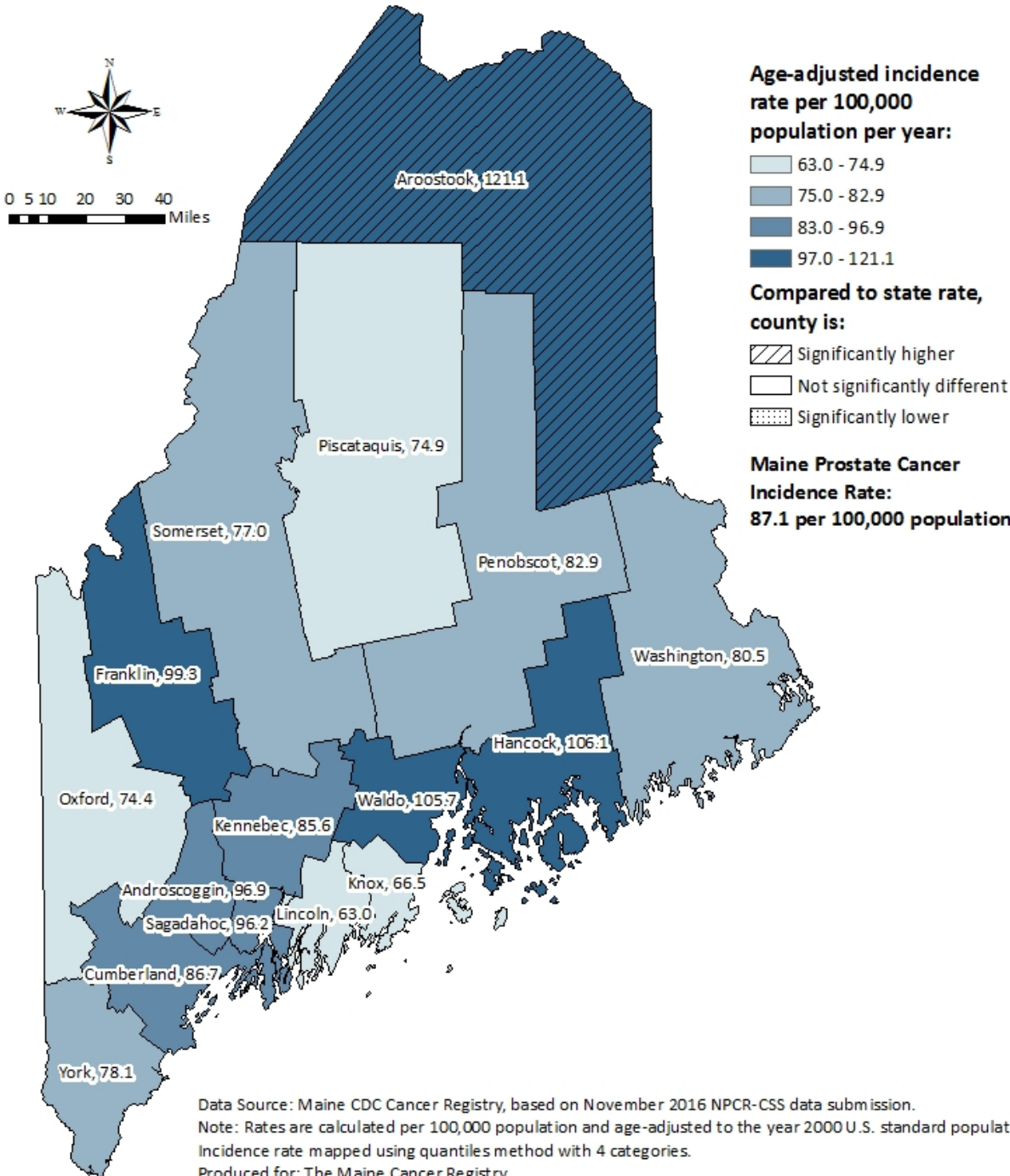


Data Source: Maine CDC Cancer Registry, based on November 2016 NPCR-CSS data submission.
 Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
 Incidence rate mapped using quantiles method with 4 categories.
 Produced for: The Maine Cancer Registry.
 Created 4/2/18 by Finn Teach. Data analyzed by USM Epidemiology.

Tobacco-Related Cancer Incidence Rate by County, Maine, 2012-2014

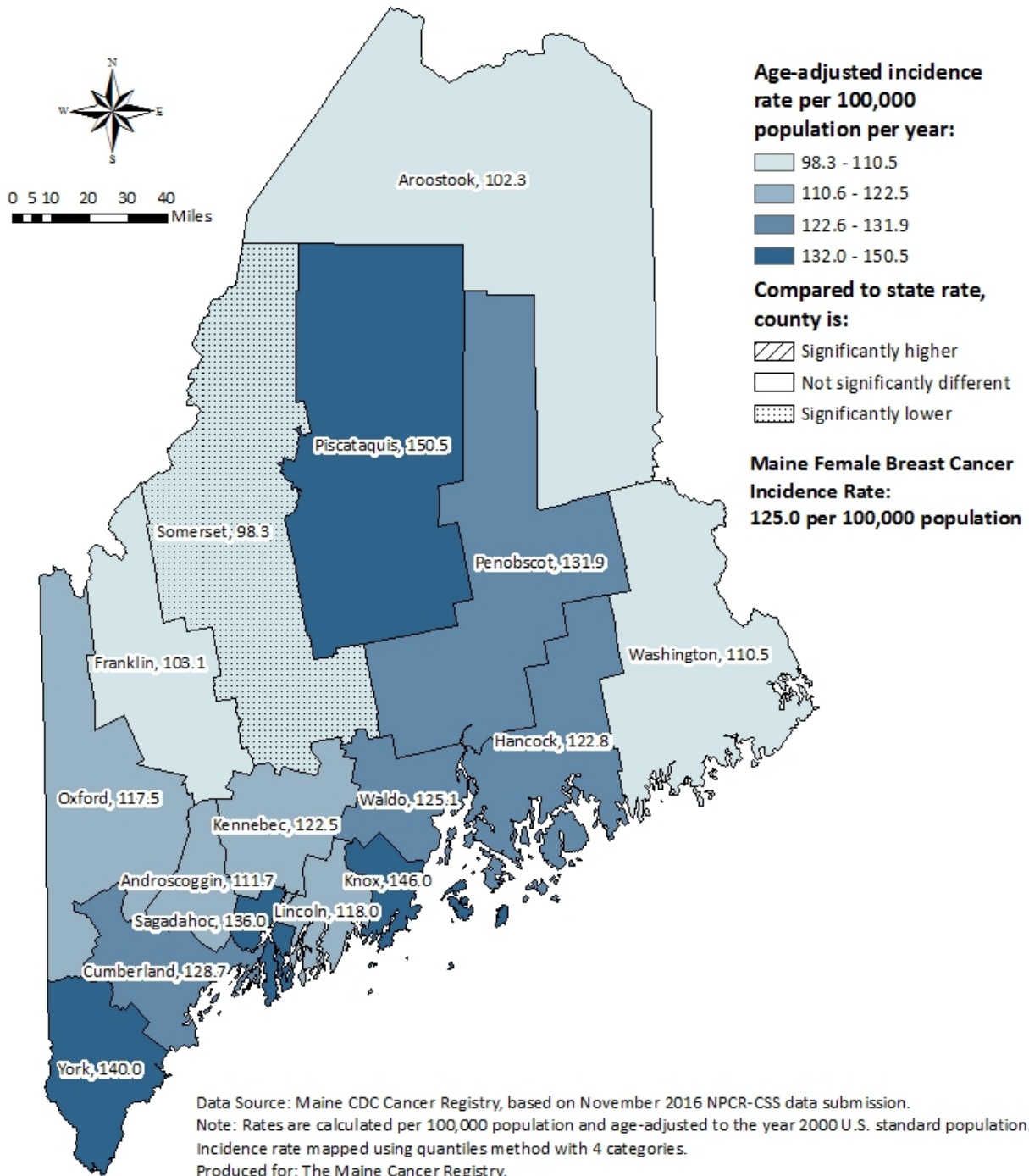


Prostate Cancer Incidence Rate by County, Maine, 2012-2014

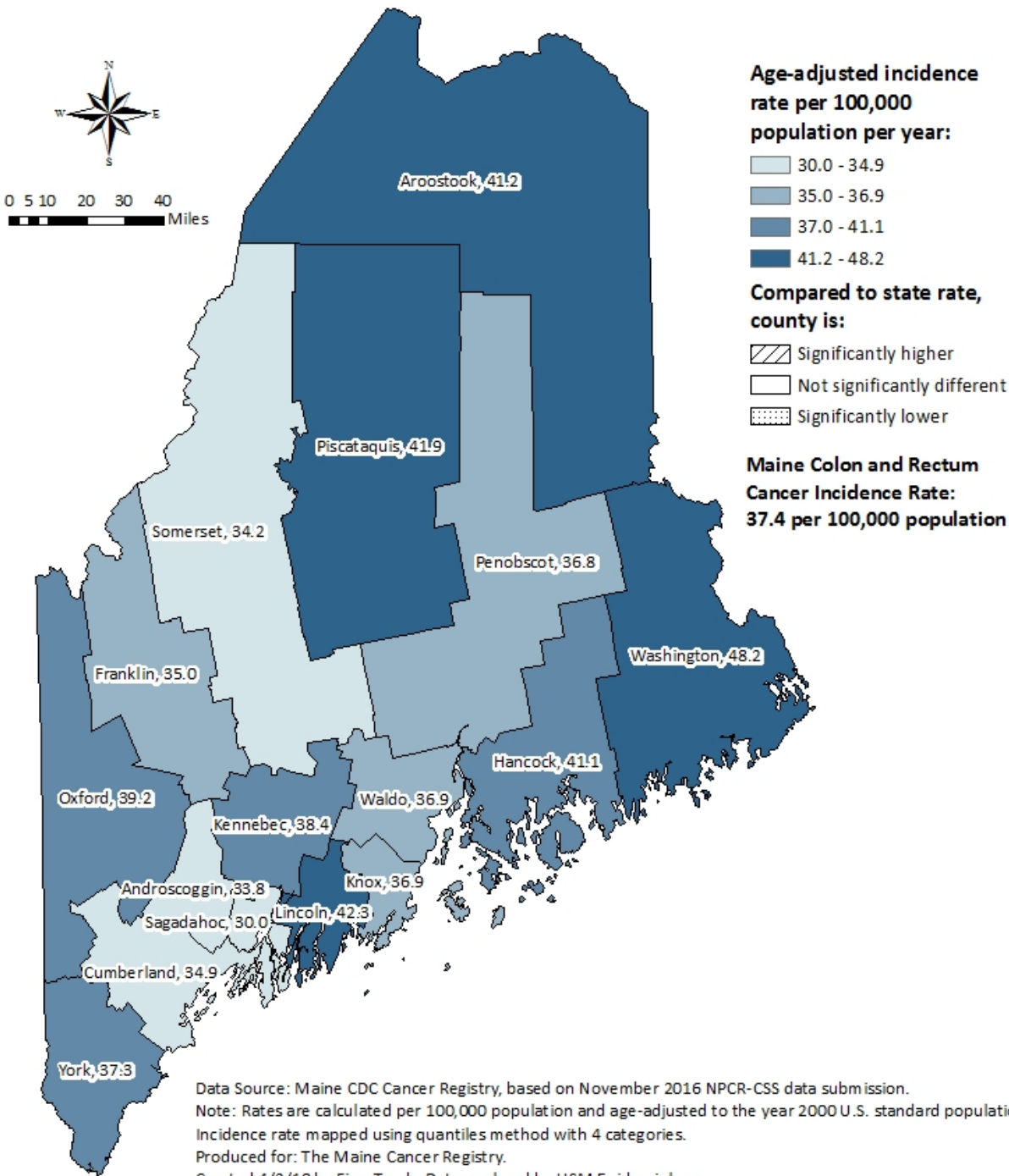


Data Source: Maine CDC Cancer Registry, based on November 2016 NPCR-CSS data submission.
Note: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
Incidence rate mapped using quantiles method with 4 categories.
Produced for: The Maine Cancer Registry.
Created 4/2/18 by Finn Teach. Data analyzed by USM Epidemiology.

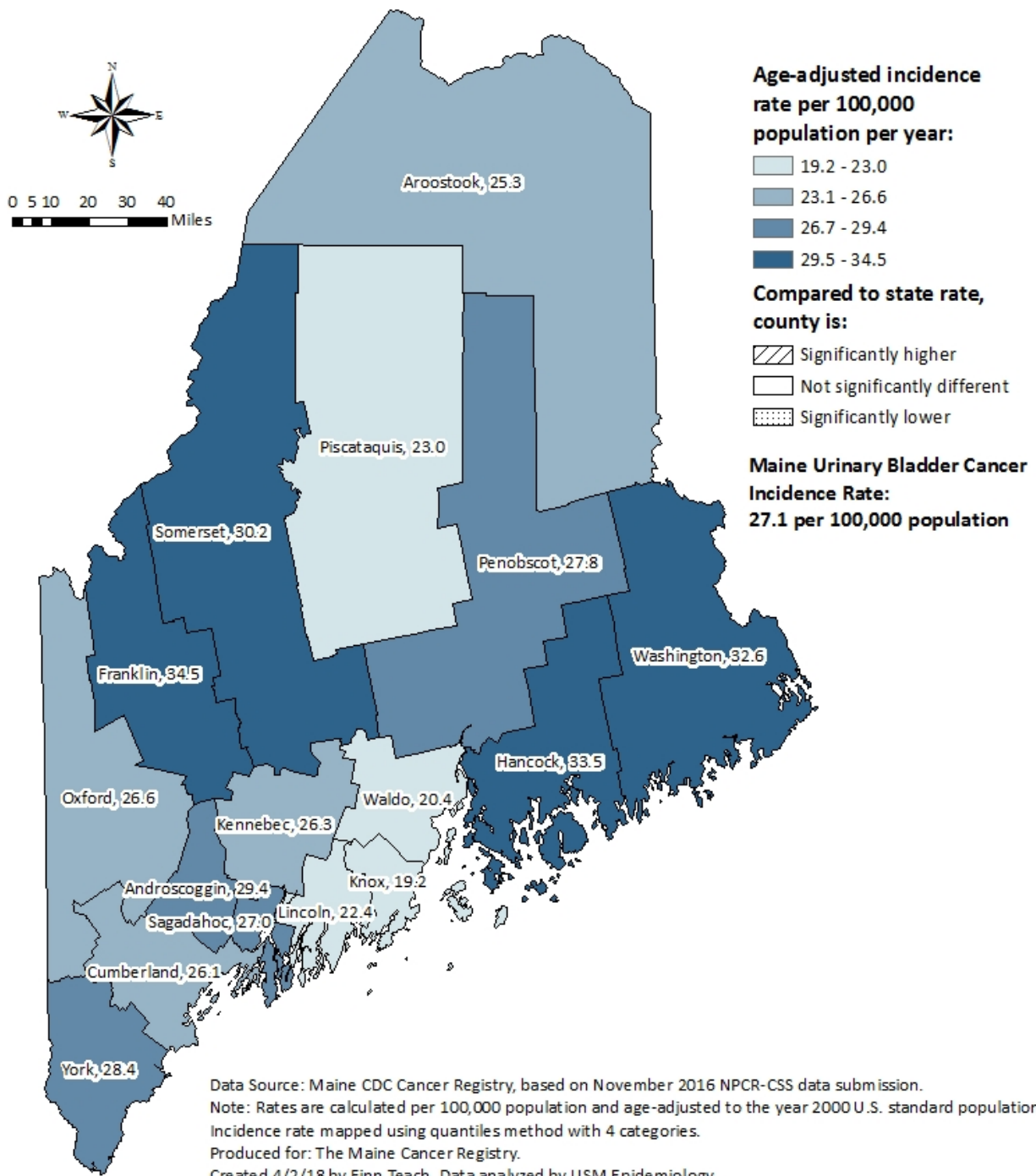
Female Breast Cancer Incidence Rate by County, Maine, 2012-2014



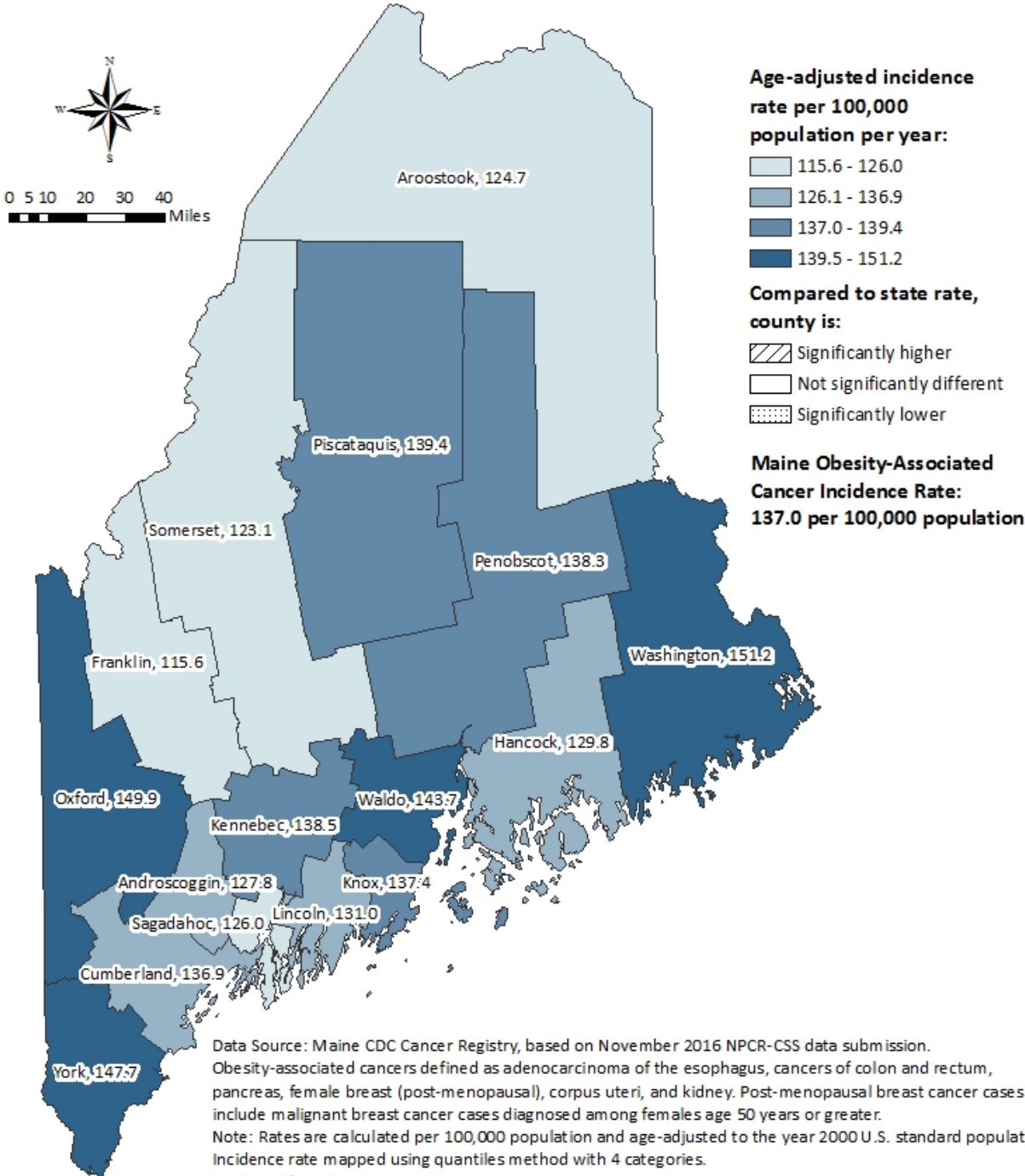
Colon and Rectum Cancer Incidence Rate by County, Maine, 2012-2014



Urinary Bladder Cancer Incidence Rate by County, Maine, 2012-2014

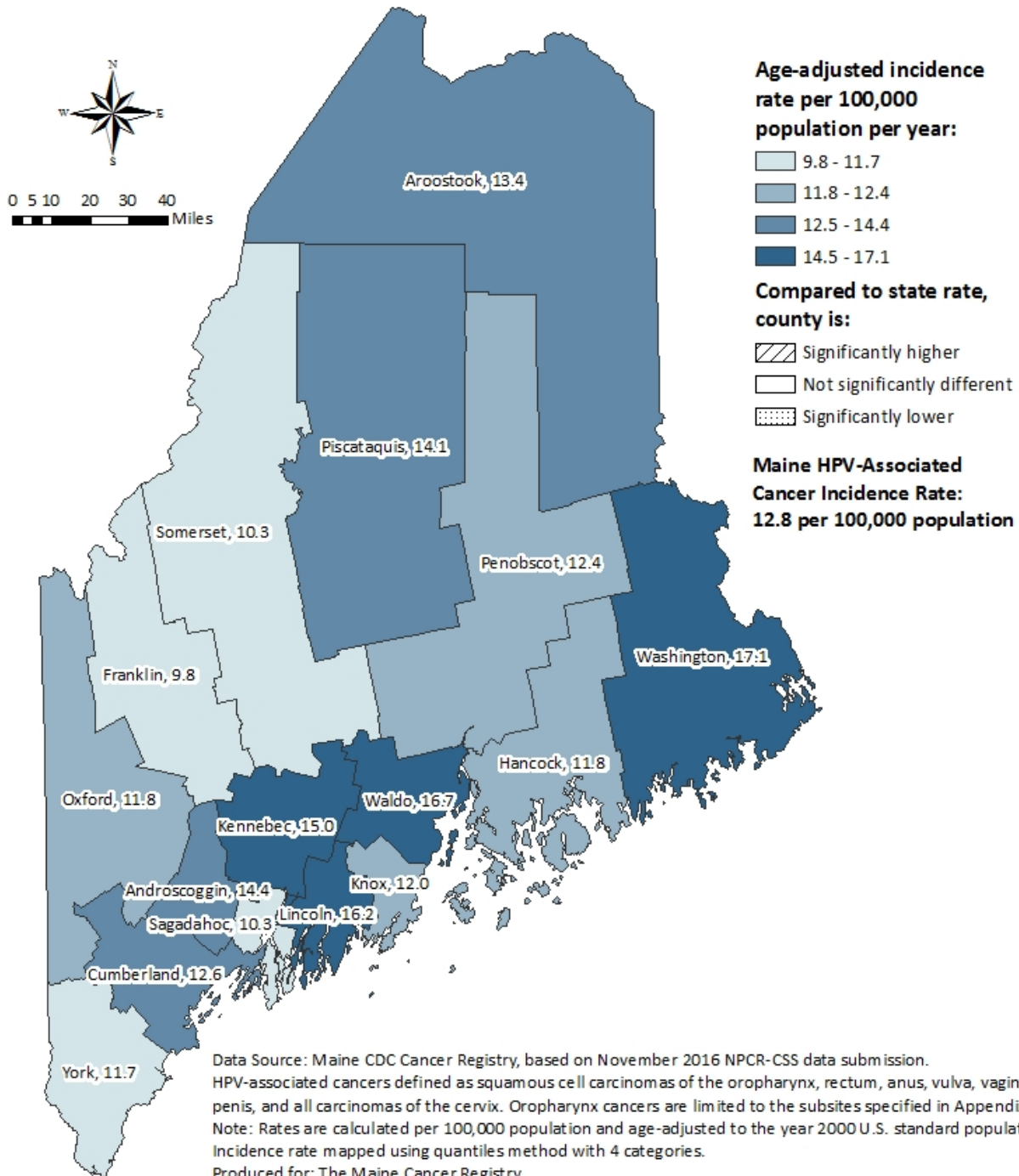


Obesity-Associated Cancer Incidence Rate by County, Maine, 2012-2014



Data Source: Maine CDC Cancer Registry, based on November 2016 NPCR-CSS data submission.
 Obesity-associated cancers defined as adenocarcinoma of the esophagus, cancers of colon and rectum, pancreas, 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 4/2/18 by Finn Teach. Data analyzed by USM Epidemiology.

Human Papillomavirus-Associated Cancer Incidence Rate by County, Maine, 2012-2014




CANCER RELATED MORTALITY

MORTALITY: STATE AND NATIONAL COMPARISONS**Age-adjusted Cancer Mortality Rate by Site, Maine 2014**

	Total			
	Maine		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	169.6 (163.7 - 175.7)	3,209	161.9 (161.4 - 162.4)	161.3 (160.9 - 161.7)
Lung and Bronchus	47.7 (44.6 - 50.9)	917	43.0 (42.8 - 43.3)	42.2 (42.0 - 42.4)
Tobacco-related, Excluding Lung and Bronchus	52.3 (49.0 - 55.7)	996	52.1 (51.8 - 52.3)	52.7 (52.4 - 52.9)
Colon and Rectum	11.8 (10.2 - 13.5)	220	13.8 (13.7 - 14.0)	14.1 (14.0 - 14.2)
Female Breast	See page 46 for sex specific rates			
Prostate	See page 45 for sex specific rates			
Pancreas	9.6 (8.2 - 11.1)	186	10.9 (10.8 - 11.0)	10.9 (10.8 - 11.0)
Leukemia	7.2 (6.0 - 8.6)	137	6.9 (6.8 - 7.0)	6.6 (6.5 - 6.7)
Esophagus	6.3 (5.2 - 7.6)	124	4.2 (4.1 - 4.3)	4.0 (3.9 - 4.1)
Urinary Bladder	6.1 (5.0 - 7.4)	114	4.6 (4.5 - 4.6)	4.3 (4.3 - 4.4)
Non-Hodgkin Lymphoma	5.8 (4.7 - 7.0)	107	5.9 (5.8 - 6.0)	5.7 (5.6 - 5.7)
Brain and Other Nervous System	6.0 (4.9 - 7.3)	106	4.8 (4.7 - 4.9)	4.4 (4.4 - 4.5)
Liver & Intrahepatic Bile Duct	5.1 (4.2 - 6.3)	98	6.0 (6.0 - 6.1)	6.5 (6.4 - 6.6)
Kidney and Renal Pelvis	4.3 (3.4 - 5.4)	84	3.9 (3.8 - 3.9)	3.8 (3.7 - 3.8)
Acute Myeloid Leukemia	3.9 (3.0 - 4.9)	75	2.9 (2.9 - 3.0)	2.8 (2.8 - 2.9)
Myeloma	3.1 (2.3 - 4.0)	60	3.1 (3.0 - 3.1)	3.3 (3.3 - 3.4)
Melanoma of the Skin	3.2 (2.4 - 4.2)	58	3.0 (2.9 - 3.0)	2.6 (2.5 - 2.6)
Oral Cavity and Pharynx	2.5 (1.8 - 3.3)	50	2.5 (2.4 - 2.6)	2.5 (2.5 - 2.6)
Stomach	2.3 (1.6 - 3.2)	42	2.7 (2.7 - 2.8)	3.1 (3.1 - 3.2)
Larynx	1.0 (0.6 - 1.7)	19	1.0 (0.9 - 1.0)	1.0 (1.0 - 1.0)
Thyroid	~	~	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 46 for sex specific rates			
Corpus Uteri	See page 46 for sex specific rates			
Cervix Uteri	See page 46 for sex specific rates			
Testis	See page 45 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.


Data Source:

- Maine and U.S. Mortality: National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2014)

Age-adjusted Cancer Mortality Rates among Males by Site, Maine 2014

	Male			
	Maine		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	205.3 (195.4 - 215.5)	1,725	193.6 (192.8 - 194.3)	193.6 (192.9 - 194.3)
Tobacco-related, excl. Lung, Bronchus and Trachea	71.0 (65.3 - 77.1)	603	70.3 (69.8 - 70.7)	70.9 (70.5 - 71.4)
Lung and Bronchus	59.8 (54.6 - 65.4)	515	52.1 (51.7 - 52.5)	52.0 (51.6 - 52.3)
Prostate	17.5 (14.6 - 20.8)	135	17.9 (17.7 - 18.2)	19.1 (18.9 - 19.3)
Colon and Rectum	14.2 (11.7 - 17.2)	115	16.4 (16.2 - 16.7)	16.9 (16.7 - 17.1)
Esophagus	10.4 (8.4 - 12.9)	94	7.5 (7.4 - 7.6)	7.1 (7.0 - 7.2)
Pancreas	10.6 (8.5 - 13.1)	91	12.6 (12.5 - 12.8)	12.6 (12.4 - 12.8)
Urinary Bladder	10.5 (8.4 - 13.1)	84	7.9 (7.8 - 8.1)	7.5 (7.4 - 7.7)
Leukemia	8.8 (6.9 - 11.2)	74	9.2 (9.0 - 9.4)	8.8 (8.7 - 9.0)
Brain and Other Nervous System	7.8 (6.0 - 10.2)	64	5.9 (5.7 - 6.0)	5.4 (5.3 - 5.5)
Liver & Intrahepatic Bile Duct	6.9 (5.3 - 9.0)	63	8.8 (8.6 - 8.9)	9.5 (9.3 - 9.6)
Non-Hodgkin Lymphoma	6.0 (4.4 - 8.0)	50	7.6 (7.4 - 7.7)	7.3 (7.1 - 7.4)
Kidney and Renal Pelvis	5.7 (4.2 - 7.7)	50	5.7 (5.6 - 5.8)	5.6 (5.5 - 5.7)
Melanoma of the Skin	5.2 (3.7 - 7.1)	44	4.4 (4.3 - 4.6)	3.8 (3.8 - 3.9)
Acute Myeloid Leukemia	4.8 (3.4 - 6.5)	42	3.7 (3.6 - 3.9)	3.6 (3.5 - 3.7)
Oral Cavity and Pharynx	3.9 (2.7 - 5.5)	36	3.9 (3.8 - 4.0)	4.0 (3.9 - 4.1)
Myeloma	4.1 (2.8 - 5.7)	36	4.0 (3.9 - 4.1)	4.2 (4.1 - 4.3)
Stomach	3.1 (2.0 - 4.7)	24	3.7 (3.6 - 3.8)	4.2 (4.1 - 4.3)
Larynx	2.1 (1.2 - 3.5)	17	1.7 (1.6 - 1.8)	1.8 (1.7 - 1.9)
Thyroid	~	~	0.5 (0.5 - 0.6)	0.5 (0.5 - 0.5)
Hodgkin Lymphoma	~	~	0.4 (0.4 - 0.4)	0.4 (0.4 - 0.4)
Testis	~	~	0.3 (0.3 - 0.3)	0.3 (0.2 - 0.3)
Breast	~	~	0.3 (0.2 - 0.3)	0.3 (0.3 - 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. (1969-2014)

Age-adjusted Cancer Mortality Rates among Females by Site, Maine 2014

	Female			
	Maine		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	142.4 (135.1 - 150.1)	1,484	138.6 (138.0 - 139.1)	137.9 (137.4 - 138.4)
Lung and Bronchus	38.0 (34.3 - 42.0)	402	36.0 (35.7 - 36.3)	34.7 (34.5 - 35.0)
Tobacco-related, excl. Lung and Bronchus	37.1 (33.4 - 41.1)	393	37.4 (37.1 - 37.7)	38.1 (37.9 - 38.4)
Breast	17.0 (14.5 - 19.9)	173	20.0 (19.8 - 20.3)	20.5 (20.3 - 20.8)
Colon and Rectum	9.9 (8.0 - 12.1)	105	11.7 (11.5 - 11.8)	11.9 (11.7 - 12.0)
Pancreas	8.7 (7.0 - 10.7)	95	9.4 (9.2 - 9.5)	9.5 (9.4 - 9.6)
Ovary	6.3 (4.8 - 8.2)	64	7.3 (7.2 - 7.4)	7.0 (6.9 - 7.1)
Leukemia	5.8 (4.4 - 7.5)	63	5.2 (5.0 - 5.3)	5.0 (4.9 - 5.1)
Non-Hodgkin Lymphoma	5.5 (4.1 - 7.2)	57	4.6 (4.5 - 4.7)	4.4 (4.3 - 4.5)
Corpus Uteri, Uterus NOS	5.7 (4.3 - 7.5)	57	4.4 (4.3 - 4.5)	4.7 (4.6 - 4.8)
Brain and Other Nervous System	4.3 (3.0 - 5.9)	42	3.9 (3.8 - 4.0)	3.6 (3.5 - 3.7)
Liver & Intrahepatic Bile Duct	3.5 (2.4 - 5.0)	35	3.7 (3.6 - 3.8)	3.9 (3.8 - 4.0)
Kidney and Renal Pelvis	3.0 (2.1 - 4.4)	34	2.3 (2.3 - 2.4)	2.3 (2.2 - 2.3)
Acute Myeloid Leukemia	3.1 (2.1 - 4.5)	33	2.3 (2.2 - 2.4)	2.2 (2.2 - 2.3)
Urinary Bladder	2.7 (1.8 - 4.0)	30	2.1 (2.1 - 2.2)	2.1 (2.1 - 2.2)
Esophagus	2.9 (1.9 - 4.3)	30	1.4 (1.4 - 1.5)	1.4 (1.4 - 1.5)
Myeloma	2.3 (1.4 - 3.5)	24	2.4 (2.3 - 2.5)	2.7 (2.6 - 2.8)
Stomach	1.7 (1.0 - 2.8)	18	2.0 (1.9 - 2.0)	2.3 (2.2 - 2.3)
Cervix Uteri	1.9 (1.1 - 3.2)	17	2.1 (2.1 - 2.2)	2.3 (2.2 - 2.3)
Oral Cavity and Pharynx	1.4 (0.7 - 2.4)	14	1.3 (1.2 - 1.4)	1.3 (1.2 - 1.3)
Melanoma of the Skin	1.5 (0.8 - 2.6)	14	1.8 (1.8 - 1.9)	1.6 (1.5 - 1.6)
Larynx	~	~	0.3 (0 - 0.4)	0.4 (0.3 - 0.4)
Thyroid	~	~	0.5 (1 - 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. (1969-2014)

All Cancers: Mortality by County of Residence, Maine 2010-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	185.4 (174.9 - 196.3)	243	222.0 (204.7 - 240.4)	128	158.5 (145.6 - 172.4)	115
Aroostook	183.6 (172.0 - 195.8)	198	221.2 (202.4 - 241.6)	107	156.1 (141.3 - 172.2)	91
Cumberland	170.9 (164.7 - 177.2)	614	207.2 (196.8 - 218.0)	313	146.5 (139.0 - 154.4)	302
Franklin	164.2 (146.9 - 183.1)	69	193.7 (166.2 - 224.8)	38	137.6 (116.4 - 162.1)	31
Hancock	164.1 (151.8 - 177.3)	138	198.3 (178.0 - 220.5)	74	137.3 (122.2 - 154.2)	63
Kennebec	185.0 (175.6 - 194.8)	302	228.3 (212.6 - 244.8)	166	151.7 (140.2 - 164.0)	136
Knox	165.3 (151.1 - 180.6)	107	204.3 (181.1 - 230.0)	59	135.9 (118.5 - 155.8)	48
Lincoln	173.6 (158.4 - 190.3)	103	204.0 (180.2 - 230.6)	56	152.2 (132.1 - 175.2)	47
Oxford	188.6 (175.2 - 202.7)	155	236.7 (214.6 - 260.6)	88	151.8 (135.5 - 169.9)	66
Penobscot	180.9 (172.4 - 189.8)	351	221.5 (207.3 - 236.4)	189	151.8 (141.3 - 162.9)	162
Piscataquis	205.5 (182.0 - 231.9)	58	245.2 (207.5 - 289.0)	32	171.8 (142.9 - 206.5)	26
Sagadahoc	173.8 (157.3 - 191.8)	84	196.6 (170.1 - 226.3)	42	156.6 (135.9 - 180.1)	43
Somerset	201.8 (187.0 - 217.6)	142	247.5 (222.9 - 274.2)	79	164.0 (146.2 - 183.8)	63
Waldo	176.6 (160.5 - 193.9)	95	206.9 (181.0 - 235.7)	50	156.1 (135.7 - 179.1)	45
Washington	212.1 (194.2 - 231.5)	108	264.2 (234.4 - 297.2)	60	169.7 (148.3 - 194.1)	48
York	170.2 (163.2 - 177.5)	454	201.9 (190.2 - 214.1)	236	147.0 (138.2 - 156.2)	219
Maine	178.1 (175.3 - 181.0)	3,222	215.7 (211.1 - 220.4)	1,716	150.4 (146.9 - 153.9)	1,506

All Cancers: Mortality by Public Health District of Residence, Maine 2010-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	183.6 (172.0 - 195.8)	198	221.2 (202.4 - 241.6)	107	156.1 (141.3 - 172.2)	91
Central	190.0 (182.0 - 198.2)	444	234.0 (220.8 - 248.0)	245	155.3 (145.6 - 165.6)	199
Cumberland	170.9 (164.7 - 177.2)	614	207.2 (196.8 - 218.0)	313	146.5 (139.0 - 154.4)	302
Downeast	182.1 (171.9 - 193.0)	246	223.8 (206.7 - 242.1)	135	148.8 (136.3 - 162.4)	111
Midcoast	171.8 (164.0 - 179.8)	389	202.6 (190.1 - 215.8)	206	149.2 (139.3 - 159.8)	183
Penquis	184.3 (176.3 - 192.6)	410	224.9 (211.6 - 238.9)	221	154.4 (144.5 - 164.8)	188
Western	182.6 (175.2 - 190.3)	466	221.6 (209.3 - 234.5)	254	152.9 (143.7 - 162.7)	212
York	170.2 (163.2 - 177.5)	454	201.9 (190.2 - 214.1)	236	147.0 (138.2 - 156.2)	219
Maine	178.1 (175.3 - 181.0)	3,222	215.7 (211.1 - 220.4)	1,716	150.4 (146.9 - 153.9)	1,506

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. (1969-2014)

Lung and Bronchus Cancer: Mortality by County of Residence, Maine 2010-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	58.6 (52.9 - 64.9)	78	71.0 (61.7 - 81.5)	43	47.9 (40.9 - 55.8)	35
Aroostook	58.6 (52.3 - 65.6)	65	72.1 (61.7 - 84.0)	36	48.4 (40.5 - 57.6)	29
Cumberland	48.0 (44.7 - 51.4)	171	59.8 (54.2 - 65.7)	90	39.8 (35.9 - 44.0)	81
Franklin	45.9 (36.9 - 56.6)	19	52.9 (38.9 - 70.7)	10	39.5 (28.5 - 54.0)	9
Hancock	46.1 (39.7 - 53.4)	39	56.4 (46.0 - 68.8)	22	38.2 (30.4 - 47.9)	17
Kennebec	53.3 (48.3 - 58.7)	87	64.8 (56.7 - 73.9)	48	44.1 (38.0 - 51.0)	39
Knox	50.4 (42.7 - 59.3)	32	64.0 (51.4 - 79.3)	18	40.6 (31.2 - 52.5)	14
Lincoln	44.3 (36.9 - 53.2)	26	53.1 (41.3 - 68.0)	14	38.3 (28.9 - 50.8)	12
Oxford	62.3 (54.9 - 70.7)	52	78.7 (66.5 - 92.8)	31	49.0 (40.0 - 59.8)	21
Penobscot	57.7 (53.0 - 62.7)	114	73.1 (65.2 - 81.7)	65	46.0 (40.4 - 52.3)	49
Piscataquis	62.7 (49.9 - 78.6)	17	77.6 (57.1 - 104.4)	10	49.9 (34.5 - 71.6)	7
Sagadahoc	48.8 (40.3 - 58.8)	24	55.5 (42.2 - 72.2)	12	43.3 (32.7 - 56.7)	12
Somerset	60.4 (52.4 - 69.3)	43	85.4 (71.3 - 101.7)	28	39.7 (31.2 - 50.1)	15
Waldo	53.5 (44.8 - 63.5)	29	62.0 (48.3 - 78.8)	15	48.5 (37.3 - 62.4)	14
Washington	60.3 (51.0 - 71.2)	31	69.0 (54.7 - 86.6)	17	52.9 (40.9 - 67.8)	14
York	47.7 (44.1 - 51.7)	129	55.0 (49.2 - 61.5)	67	41.9 (37.3 - 46.9)	62
Maine	52.5 (51.0 - 54.0)	955	64.4 (61.9 - 67.0)	525	43.3 (41.4 - 45.2)	430

Lung and Bronchus Cancer: Mortality by Public Health District of Residence, Maine 2010-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	58.6 (52.3 - 65.6)	65	72.1 (61.7 - 84.0)	36	48.4 (40.5 - 57.6)	29
Central	55.4 (51.1 - 59.9)	130	71.0 (63.8 - 78.8)	76	42.7 (37.7 - 48.3)	54
Cumberland	48.0 (44.7 - 51.4)	171	59.8 (54.2 - 65.7)	90	39.8 (35.9 - 44.0)	81
Downeast	51.5 (46.1 - 57.4)	70	61.2 (52.6 - 71.0)	38	43.7 (37.0 - 51.6)	31
Midcoast	49.1 (45.0 - 53.5)	111	58.4 (51.8 - 65.7)	60	42.4 (37.2 - 48.3)	51
Penquis	58.2 (53.8 - 62.9)	131	73.5 (66.1 - 81.6)	75	46.4 (41.1 - 52.3)	56
Western	57.4 (53.3 - 61.8)	149	70.1 (63.4 - 77.4)	84	46.7 (41.7 - 52.2)	65
York	47.7 (44.1 - 51.7)	129	55.0 (49.2 - 61.5)	67	41.9 (37.3 - 46.9)	62
Maine	52.5 (51.0 - 54.0)	955	64.4 (61.9 - 67.0)	525	43.3 (41.4 - 45.2)	430

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. (1969-2014)

Tobacco-related Cancers, Excluding Lung and Bronchus: Mortality by County of Residence, Maine 2010-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	56.5 (50.8 - 62.7)	74	78.6 (68.4 - 89.9)	45	39.6 (33.2 - 46.9)	29
Aroostook	57.4 (51.1 - 64.3)	63	78.8 (67.9 - 91.2)	39	39.7 (32.6 - 48.1)	24
Cumberland	54.0 (50.6 - 57.6)	195	75.1 (68.9 - 81.7)	115	38.4 (34.6 - 42.5)	80
Franklin	49.9 (40.7 - 60.8)	22	68.3 (52.8 - 87.4)	14	32.7 (22.9 - 46.0)	8
Hancock	43.8 (37.5 - 51.0)	37	56.2 (45.7 - 68.6)	22	32.6 (25.4 - 41.6)	15
Kennebec	57.8 (52.6 - 63.4)	96	76.8 (68.0 - 86.5)	58	42.4 (36.4 - 49.2)	38
Knox	50.6 (42.9 - 59.6)	33	75.3 (61.4 - 91.7)	22	30.2 (22.4 - 40.5)	11
Lincoln	52.2 (44.1 - 61.8)	32	71.5 (57.9 - 88.0)	20	36.3 (27.0 - 48.7)	12
Oxford	59.6 (52.3 - 67.9)	49	85.4 (72.3 - 100.4)	32	38.6 (30.8 - 48.2)	17
Penobscot	50.8 (46.3 - 55.6)	98	70.2 (62.3 - 78.9)	60	35.8 (30.7 - 41.4)	38
Piscataquis	58.9 (46.9 - 73.8)	17	82.7 (62.1 - 109.6)	12	36.5 (24.3 - 54.9)	6
Sagadahoc	44.2 (36.2 - 53.8)	22	46.3 (34.0 - 62.0)	10	41.9 (31.7 - 54.9)	12
Somerset	63.7 (55.5 - 72.9)	45	85.2 (71.3 - 101.3)	28	44.6 (35.5 - 55.8)	17
Waldo	52.7 (44.2 - 62.4)	29	77.3 (62.0 - 95.6)	19	32.6 (24.0 - 43.7)	10
Washington	67.8 (57.9 - 79.1)	35	90.5 (73.7 - 110.6)	21	47.1 (36.4 - 60.8)	14
York	53.7 (49.8 - 57.9)	143	70.3 (63.5 - 77.6)	83	40.2 (35.7 - 45.2)	60
Maine	54.4 (52.9 - 56.0)	988	74.1 (71.4 - 76.9)	598	38.5 (36.7 - 40.3)	390

Tobacco-related Cancers, Excluding Lung and Bronchus: Mortality by Public Health District of Residence, Maine 2010-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	57.4 (51.1 - 64.3)	63	78.8 (67.9 - 91.2)	39	39.7 (32.6 - 48.1)	24
Central	59.7 (55.3 - 64.4)	141	79.7 (72.1 - 87.9)	86	43.0 (38.0 - 48.7)	55
Cumberland	54.0 (50.6 - 57.6)	195	75.1 (68.9 - 81.7)	115	38.4 (34.6 - 42.5)	80
Downeast	52.7 (47.2 - 58.7)	72	69.4 (60.2 - 79.9)	43	37.6 (31.5 - 44.8)	29
Midcoast	50.1 (46.0 - 54.5)	115	68.3 (61.2 - 76.2)	71	34.9 (30.3 - 40.1)	45
Penquis	52.1 (47.9 - 56.7)	115	72.2 (64.8 - 80.3)	71	36.1 (31.3 - 41.4)	44
Western	56.4 (52.3 - 60.7)	145	79.0 (71.7 - 86.8)	91	38.2 (33.7 - 43.2)	54
York	53.7 (49.8 - 57.9)	143	70.3 (63.5 - 77.6)	83	40.2 (35.7 - 45.2)	60
Maine	54.4 (52.9 - 56.0)	988	74.1 (71.4 - 76.9)	598	38.5 (36.7 - 40.3)	390

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. (1969-2014)


Prostate Cancer: Mortality by County of Residence, Maine 2010-2014

	Male	
	AA Rate (95% CI)	Count/Yr
Androscoggin	12.6 (8.7 - 17.8)	7
Aroostook	17.7 (12.5 - 24.6)	8
Cumberland	20.5 (17.2 - 24.2)	28
Franklin	14.2 (7.6 - 24.8)	3
Hancock	24.5 (17.4 - 33.8)	8
Kennebec	23.8 (18.8 - 29.8)	16
Knox	16.0 (10.1 - 24.7)	5
Lincoln	19.3 (12.6 - 29.3)	5
Oxford	14.5 (9.2 - 22.0)	5
Penobscot	17.6 (13.6 - 22.3)	14
Piscataquis	20.1 (10.3 - 37.1)	2
Sagadahoc	27.4 (17.8 - 40.6)	5
Somerset	22.5 (15.3 - 32.2)	6
Waldo	18.8 (11.3 - 29.5)	4
Washington	31.4 (21.6 - 44.8)	7
York	20.2 (16.5 - 24.5)	21
Maine	19.8 (18.4 - 21.3)	144

Prostate Cancer: Mortality by Public Health District of Residence, Maine 2010-2014

	Male	
	AA Rate (95% CI)	Count/Yr
Aroostook	17.7 (12.5 - 24.6)	8
Central	23.4 (19.2 - 28.3)	22
Cumberland	20.5 (17.2 - 24.2)	28
Downeast	27.2 (21.3 - 34.5)	15
Midcoast	20.0 (16.2 - 24.6)	19
Penquis	17.9 (14.2 - 22.4)	16
Western	13.5 (10.5 - 17.1)	14
York	20.2 (16.5 - 24.5)	21
Maine	19.8 (18.4 - 21.3)	144

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.
- ~ 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.
- 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. (1969-2014)

Female Breast Cancer: Mortality by County of Residence, Maine 2010-2014

	Female	
	AA Rate (95% CI)	Count/Yr
Androscoggin	17.8 (13.6 - 23.0)	13
Aroostook	16.2 (11.4 - 22.4)	9
Cumberland	19.9 (17.2 - 23.0)	40
Franklin	21.6 (13.5 - 33.3)	5
Hancock	15.8 (11.1 - 22.4)	7
Kennebec	17.1 (13.4 - 21.6)	15
Knox	19.6 (13.1 - 28.8)	7
Lincoln	18.9 (12.3 - 28.6)	6
Oxford	15.5 (10.5 - 22.5)	7
Penobscot	17.1 (13.6 - 21.2)	18
Piscataquis	21.1 (12.0 - 36.9)	3
Sagadahoc	15.4 (9.2 - 24.8)	4
Somerset	19.5 (13.7 - 27.2)	8
Waldo	17.0 (10.5 - 26.5)	5
Washington	18.5 (11.9 - 28.3)	5
York	17.5 (14.6 - 20.9)	26
Maine	18.0 (16.8 - 19.3)	177

Female Breast Cancer: Mortality by Public Health District of Residence, Maine 2010-2014

	Female	
	AA Rate (95% CI)	Count/Yr
Aroostook	16.2 (11.4 - 22.4)	9
Central	17.8 (14.6 - 21.5)	23
Cumberland	19.9 (17.2 - 23.0)	40
Downeast	16.7 (12.7 - 21.8)	13
Midcoast	17.9 (14.4 - 22.0)	21
Penquis	17.6 (14.3 - 21.5)	21
Western	17.7 (14.5 - 21.3)	24
York	17.5 (14.6 - 20.9)	26
Maine	18.0 (16.8 - 19.3)	177

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. (1969-2014)


Colon and Rectum Cancer: Mortality by County of Residence, Maine 2010-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	12.8 (10.2 - 16.0)	16	16.2 (11.7 - 21.9)	9	10.6 (7.4 - 14.9)	7
Aroostook	14.5 (11.4 - 18.4)	16	16.0 (11.3 - 22.4)	8	12.9 (9.0 - 18.2)	8
Cumberland	12.8 (11.1 - 14.6)	46	15.0 (12.3 - 18.1)	22	11.4 (9.4 - 13.8)	24
Franklin	18.0 (12.6 - 25.2)	8	21.7 (13.2 - 34.2)	4	14.8 (8.4 - 24.9)	3
Hancock	13.3 (10.0 - 17.6)	11	12.7 (8.0 - 19.5)	5	13.3 (9.0 - 19.4)	6
Kennebec	15.6 (12.9 - 18.6)	25	19.8 (15.3 - 25.3)	14	12.5 (9.4 - 16.5)	11
Knox	9.3 (6.3 - 13.6)	6	9.9 (5.5 - 17.2)	3	8.4 (4.8 - 14.7)	3
Lincoln	10.7 (7.4 - 15.5)	7	14.9 (9.2 - 23.9)	4	7.4 (3.9 - 14.3)	3
Oxford	14.5 (11.0 - 19.0)	12	17.5 (11.7 - 25.3)	6	12.1 (8.0 - 17.9)	6
Penobscot	13.5 (11.2 - 16.1)	25	16.1 (12.4 - 20.6)	13	11.7 (8.8 - 15.2)	12
Piscataquis	15.5 (9.5 - 24.8)	4	*	*	~	~
Sagadahoc	10.2 (6.7 - 15.3)	5	~	~	*	*
Somerset	13.2 (9.6 - 18.0)	9	12.5 (7.4 - 20.0)	4	13.9 (9.0 - 20.9)	5
Waldo	18.7 (13.8 - 25.0)	10	24.8 (16.4 - 36.3)	6	13.7 (8.5 - 21.6)	4
Washington	19.8 (14.7 - 26.5)	10	23.9 (15.6 - 35.7)	5	16.0 (10.1 - 25.0)	5
York	14.5 (12.4 - 16.8)	38	17.8 (14.4 - 21.8)	20	11.7 (9.3 - 14.6)	18
Maine	13.9 (13.1 - 14.7)	250	16.5 (15.2 - 17.8)	128	11.8 (10.9 - 12.9)	122

Colon and Rectum Cancer: Mortality by Public Health District of Residence, Maine 2010-2014

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	14.5 (11.4 - 18.4)	16	16.0 (11.3 - 22.4)	8	12.9 (9.0 - 18.2)	8
Central	14.9 (12.7 - 17.4)	34	17.7 (14.1 - 21.9)	18	12.9 (10.2 - 16.2)	17
Cumberland	12.8 (11.1 - 14.6)	46	15.0 (12.3 - 18.1)	22	11.4 (9.4 - 13.8)	24
Downeast	15.8 (12.9 - 19.2)	22	17.1 (12.6 - 22.8)	10	14.1 (10.6 - 18.8)	11
Midcoast	12.0 (10.1 - 14.3)	29	*	*	*	*
Penquis	13.8 (11.6 - 16.3)	30	*	*	*	*
Western	14.2 (12.2 - 16.5)	36	17.5 (14.1 - 21.5)	19	11.7 (9.3 - 14.7)	17
York	14.5 (12.4 - 16.8)	38	17.8 (14.4 - 21.8)	20	11.7 (9.3 - 14.6)	18
Maine	13.9 (13.1 - 14.7)	250	16.5 (15.2 - 17.8)	128	11.8 (10.9 - 12.9)	122

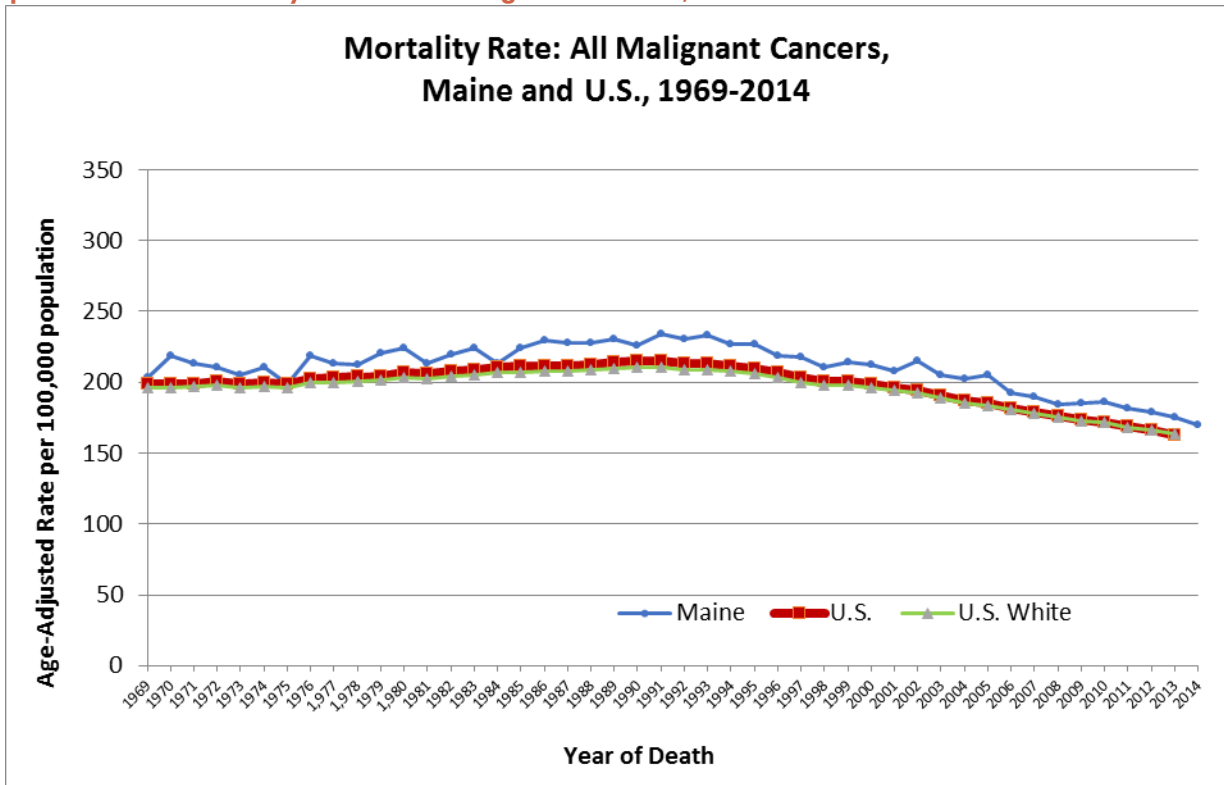
Notes:

-  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.

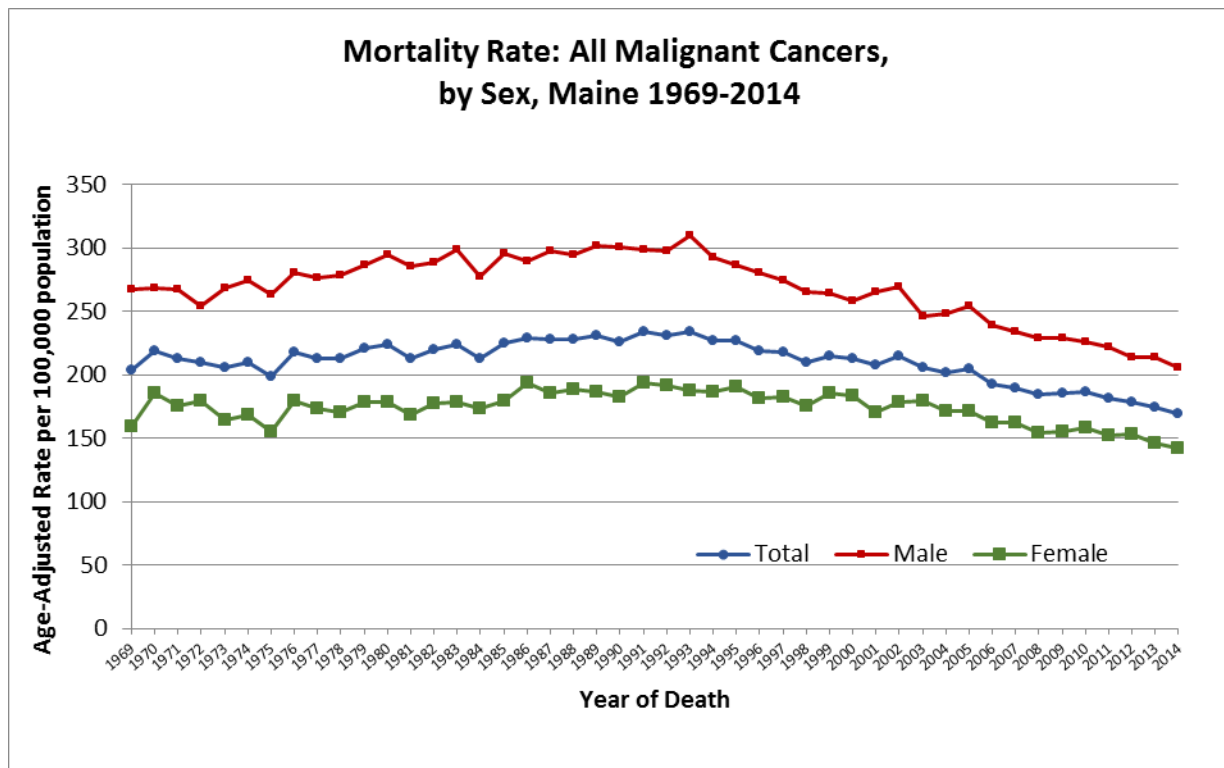
Data Source:

- National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2014)

Age-adjusted Cancer Mortality Trend: All Malignant Cancers, U.S. and Maine 1969-2014



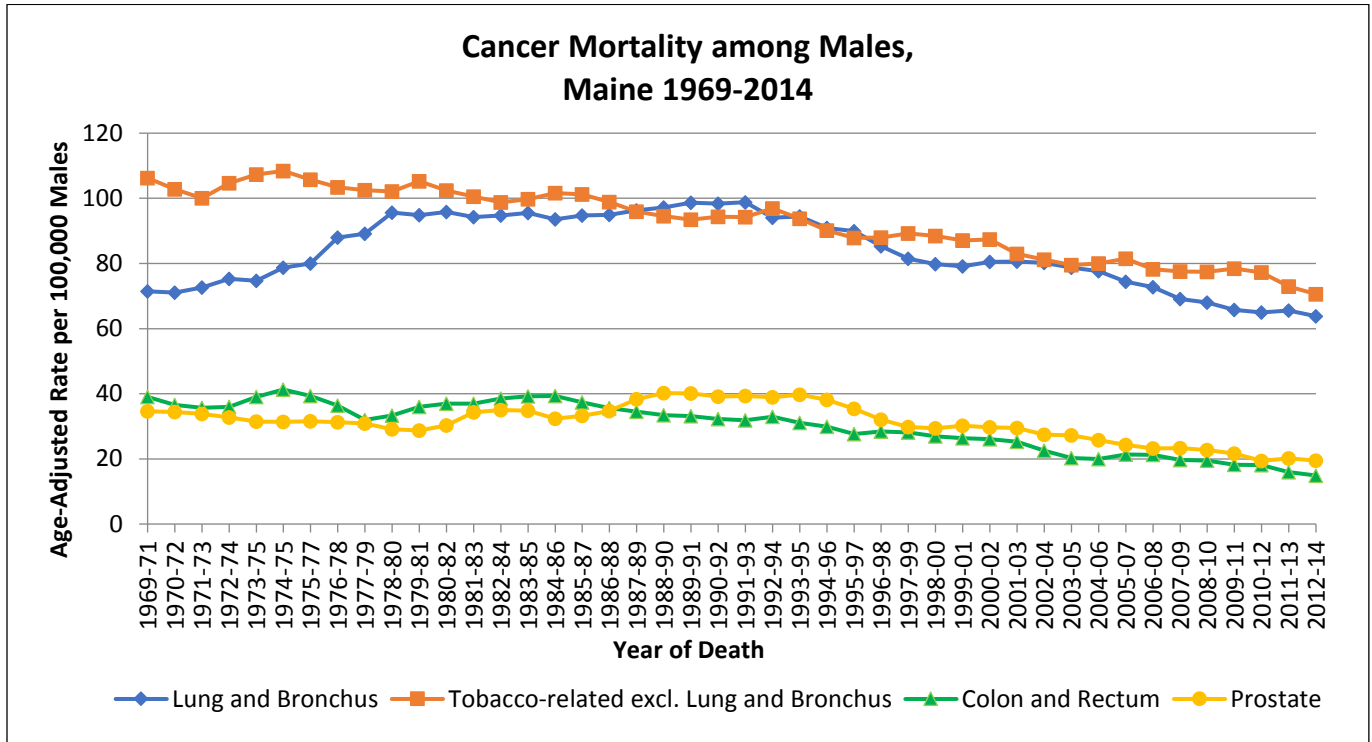
Age-adjusted Cancer Mortality Trend: All Malignant Cancers, Maine 1969-2014



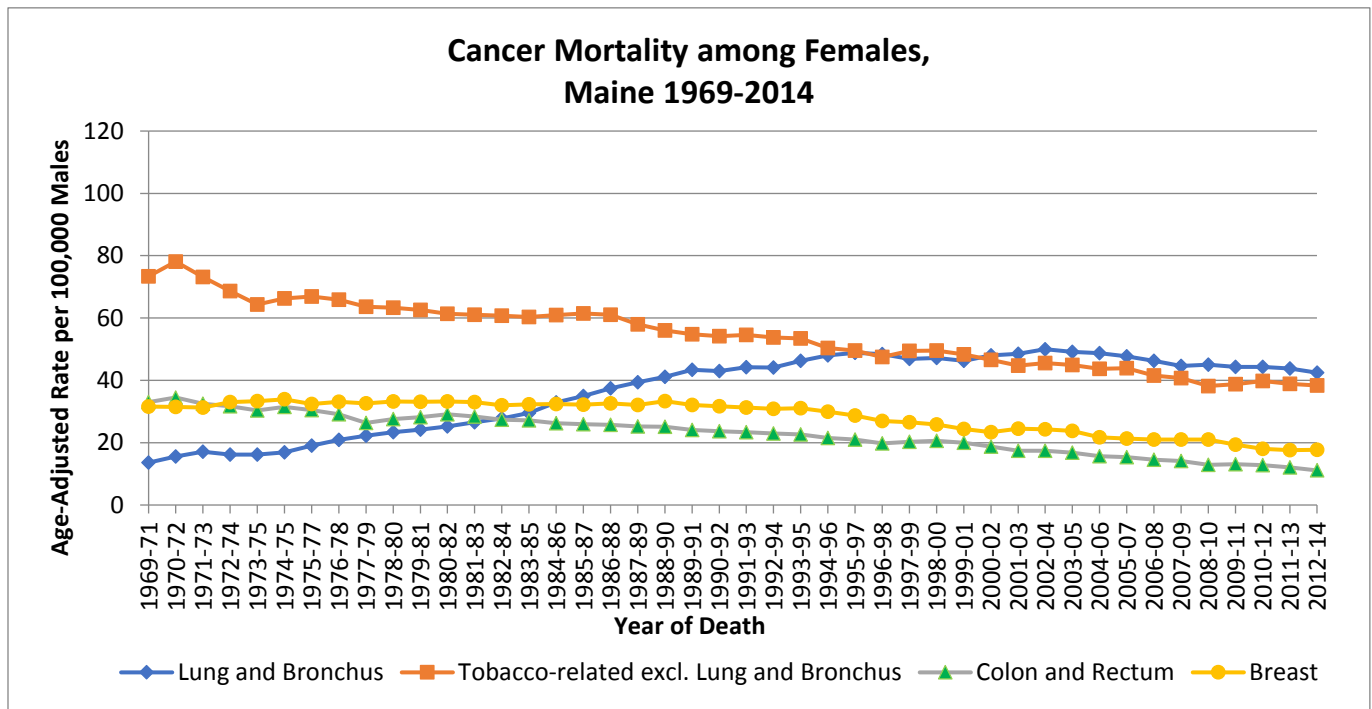
Data Source:

National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2014)

Age-adjusted Cancer Mortality Trend: Leading Causes among Males, Maine 1969-2014



Age-adjusted Cancer Mortality Trend: Leading Causes among Females, Maine 1969-2014



Notes:

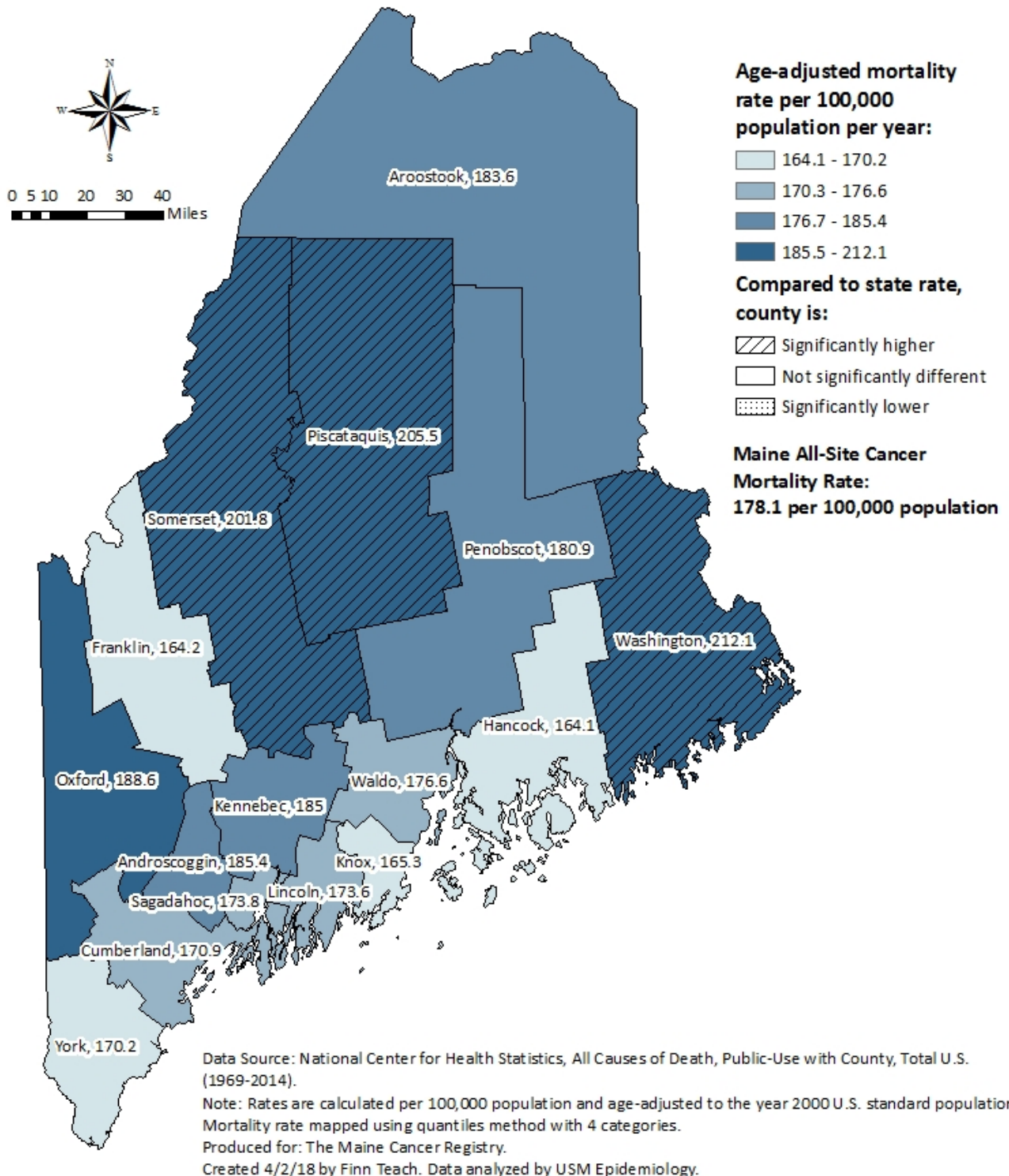
Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.

Data Source:

National Center for Health Statistics, All Causes of Death, Public-Use with State, Total U.S. (1969-2014)

CANCER MORTALITY MAP

All-Site Cancer Mortality Rate by County, Maine, 2010-2014



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. 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*^A

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
Oral Cavity and Pharynx			
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
Digestive System			
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
Respiratory System			
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

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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
Bones and Joints	C400-C419	excluding 9050-9055, 9140, 9590-9992	23000
Soft Tissue including Heart	C380, C470-C479, C490-C499	excluding 9050-9055, 9140, 9590-9992	24000
Skin excluding Basal and Squamous			
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
Breast	C500-C509	excluding 9050-9055, 9140, 9590-9992	26000
Female Genital System			
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
Male Genital System			
Prostate	C619	excluding 9050-9055, 9140, 9590-9992	28010
Testis	C620-C629		28020
Penis	C600-C609		28030
Other Male Genital Organs	C630-C639		28040
Urinary System			
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
Eye and Orbit	C690-C699	excluding 9050-9055, 9140, 9590-9992	30000
Brain and Other Nervous System			
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	
Endocrine System			
Thyroid	C739	excluding 9050-9055, 9140, 9590-9992	32010
Other Endocrine including Thymus	C379, C740-C749, C750-C759		32020
Lymphoma			
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	
Myeloma		9731-9732, 9734	34000
Leukemia			
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	
Mesothelioma		9050-9055	36010
Kaposi Sarcoma		9140	36020
Miscellaneous		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		
Invalid	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			
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–	
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–	
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;	

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; access from <https://www.cdc.gov/cancer/npcr/pdf/public-use/predefined-seer-stat-variables.pdf>.

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–	
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–	
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;	
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,	8050–8084, 8120–8131	Restrict to microscopically confirmed

	10.8–10.9, 14.0,14.2, 14.8		
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
Colon and rectum	C18.0–20.9, C26.0	8000–9049, 9056–9139, 9141–9589	
Pancreas	C25.0–25.9	8000–9049, 9056–9139, 9141–9589	
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
Kidney	C64.9	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
All Malignant Cancers	140-208, 238.6	C00-C97	
Oral Cavity and Pharynx			
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
Digestive System			
Esophagus	150	C15	21010
Stomach	151	C16	21020
Small Intestine	152	C17	21030
Colon and Rectum			
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
Liver and Intrahepatic Bile Duct			
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+, C48.1-C48.2</u>	21120
Other Digestive Organs	159.8-159.9	C26.8-C26.9, C48.8	21130
Respiratory System			
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
Bones and Joints	170	C40-C41	23000
Soft Tissue including Heart[§]	164.1, 171	<u>C47, C49, C38.0, C45.2+</u>	24000
Skin			
Melanoma of the Skin	172	C43	25010
Non-Melanoma Skin	173	<u>C44, C46+</u>	25020
Breast	174-175	C50	26000
Female Genital System			
Cervix Uteri	180	C53	27010
Corpus and Uterus, NOS			
Corpus Uteri	182	C54	27020
Uterus, NOS	179	C55	27030

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
Male Genital System			
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
Urinary System			
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
Eye and Orbit	190	C69	30000
Brain and Other Nervous System	191, 192	C70, C71, C72	31010
Endocrine System			
Thyroid	193	C73	32010
<u>Other Endocrine including Thymus[§]</u>	164.0, 194	C37, C74-C75	32020
Lymphoma			
Hodgkin Lymphoma	201	C81	33010
Non-Hodgkin Lymphoma	200, 202.0-202.2, 202.8-202.9	C82-86, C96.3	33040
Myeloma	203.0, 238.6	C90.0, C90.2, C90.3	34000
Leukemia			
Lymphocytic Leukemia			
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
Myeloid and Monocytic Leukemia			
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
Other Leukemia			
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)[†]</u>	N/A	<u>C45[†]</u>	36010
<u>Kaposi Sarcoma (ICD-10 only)[†]</u>	N/A	<u>C46[†]</u>	36020
Miscellaneous Malignant Cancer	159.1, 195-199, 202.3, 202.5-202.6, 203.8	C26.1, C45.7 [±] , C45.9 [±] , C76-C80, C88, C94.6, C96.0-C96.2, C96.4-C96.9, C97	37000

SEER CAUSE OF DEATH RECODE 1969+ (03/01/2018)

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.

+ 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.

\$ 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.

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

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