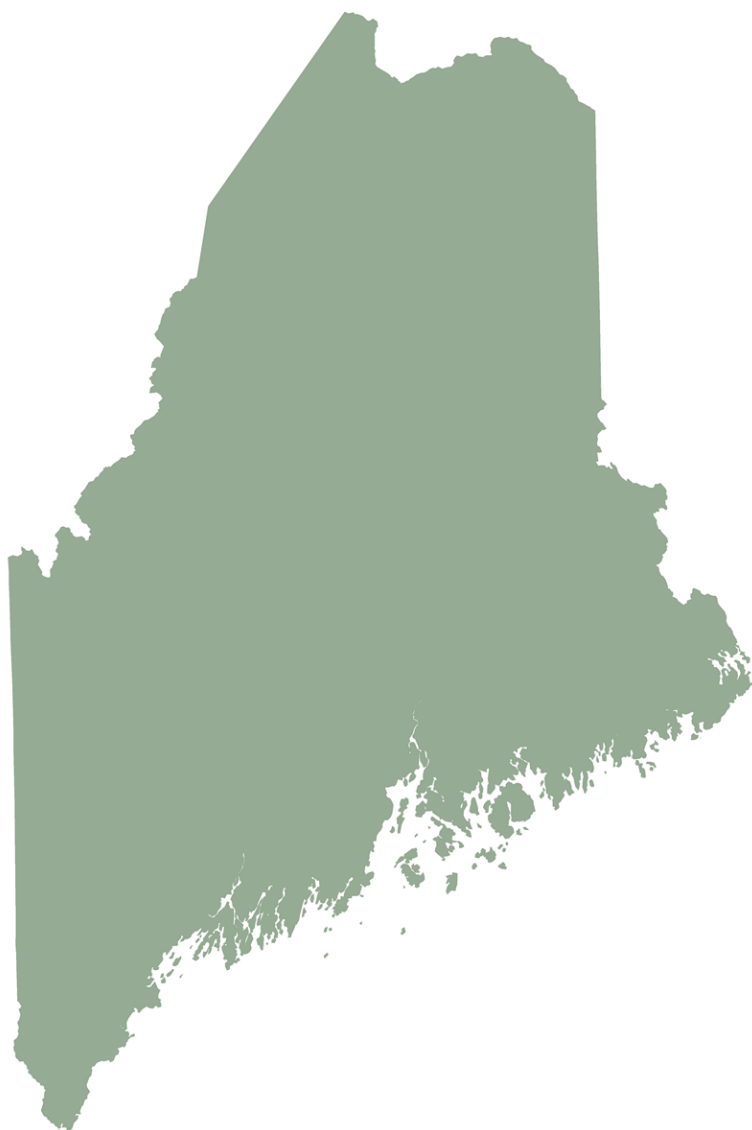


THE MAINE 2020 ANNUAL REPORT OF CANCER



Maine CDC Cancer Registry

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Maine Center for Disease Control and Prevention**

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The Maine 2020 Annual Report of Cancer is based on 2017 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 four most common 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. Incidence tables for tobacco-associated, obesity-associated, and HPV-associated cancer are presented by sex.

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 255¹. The Registry also receives data on Maine residents who have been diagnosed in other states from other state registries.

¹ State Law Title 22, Chapter 255
<http://legislature.maine.gov/statutes/22/title22ch255sec0.html>

Cancer data in Maine are available approximately three years after the reporting period. The 2020 annual report is based on new cancer cases diagnosed in 2017 (cancer incidence) and cancer deaths occurring in 2017 (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 Registry² and the Maine CDC Comprehensive Cancer Control Program³.

² Maine CDC Cancer Registry - List of Publications
<http://www.maine.gov/dhhs/mecdc/public-health-systems/data-research/vital-records/mcr/reports/index.htm>

³ 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, county, and public health district.
- U.S. data by site and gender (for comparisons with Maine data).
- Age-specific incidence data for all sites combined, the most common cancer sites, and urinary bladder cancer.
- Malignant and non-malignant incident cases of brain and other nervous system tumors.
- Rates for groups of cancers that are tobacco-associated, obesity-associated, and HPV-associated.
- Trends in incidence and mortality for all sites combined and selected cancers (see pages 29-33, 54-55).

TECHNICAL NOTES

Data Analysis:

Incidence 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 8.3.8 software. Maine mortality counts and rates were produced using SAS 9.4.

Rates:

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

Confidence Intervals and Statistical Significance:

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

Data Sources:

Maine incidence data are obtained from the Maine CDC Cancer Registry. Mortality data for Maine are provided by Maine CDC's Data, Research, and Vital Statistics. U.S. mortality data were retrieved from the CDC WONDER online Database¹. U.S. mortality data for tobacco-related cancer was provided by the National Center for Health Statistics and accessed through SEER*Stat². National data are used for comparisons to Maine rates. Incidence data for U.S. and U.S. Whites were provided by the North American Association of Central Cancer Registries (NAACCR). The datafile, SEER*Stat Database: NAACCR Incidence Data - CiNA (Cancer in North America) Analytic File, 1995-2017, 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 2019.

¹ Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2017 on CDC WONDER Online Database, released December 2018. Data are from the Multiple Cause of Death Files, 1999-2017. Accessed at <http://wonder.cdc.gov/ucd-icd10.html> on Oct 29, 2019.

² Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database:

National Comparisons:

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

CASE DEFINITIONS

Incidence Case Definitions:

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

Mortality Case Definitions:

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

Risk-Associated Cancers:

For several years, groupings of cancers associated with tobacco use, obesity, and human papillomavirus (HPV) exposure have been included in this report due to their clinical, epidemiologic, and cancer prevention significance. Our approach and definitions have evolved over time. We have adopted predefined SEER*stat variables³ for calculating the number and rates of associated cancers for these three selected risk factors. See Appendix 2 for these definitions from SEER. These precise definitions allow us to produce Maine incidence estimates using nationally accepted and published methods. These defined groupings cannot be used with mortality data. See pages 24-28 for incidence tables for tobacco-associated, obesity-associated, and HPV-associated cancer. See pages 42-43 for maps of county incidence rates of obesity-associated and HPV-associated cancer.

Mortality - All COD, Aggregated With State, Total U.S. (1969-2017) <Katrina/Rita Population Adjustment>, National Cancer Institute, DCCPS, Surveillance Research Program, released December 2019. Underlying mortality data provided by NCHS (www.cdc.gov/nchs).

³ <https://www.cdc.gov/cancer/npcr/pdf/public-use/predefined-seer-stat-variables.pdf>

Clarification of “Tobacco-related” cancer and “Tobacco-associated” 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, and 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 presented in tables, figures, and maps on pages 5-10, 15, 16, 30, 37, 45-47, 50, and 55.

The term “**tobacco-associated cancer**” is defined by SEER and is a broader measure than “tobacco-related.” It includes trachea, lung and bronchus cancer as well as other tobacco-related cancers. See pages 24-25 for incidence tables for tobacco-associated cancers. See Appendix 2 for these definitions from SEER.

GEOGRAPHY

Maine Public Health Districts:

Maine has eight geographically defined public health districts and one public health district based on tribal affiliation. 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. The table on this page shows the counties in each district.

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.

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
Tribal Health District	5 Tribal Communities

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 Tableau 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 color circles. (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 2017 and selected cancers from 2000 to 2017.

The mortality figures show trends in mortality rates for all sites combined and selected cancers from 2000 to 2017. 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, 2017

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Cancer Sites	472.6 (462.4 - 482.9)	9,081	438.9 (438.2 - 439.7)	437.9 (437.2 - 438.6)
<i>Leading Cancer Sites</i>				
Tobacco-related, Excluding Lung and Bronchus	132.3 (127.0 - 137.8)	2,548	125.8 (125.4 - 126.2)	125.8 (125.5 - 126.2)
Lung and Bronchus	68.6 (65.0 - 72.5)	1,396	56.2 (55.9 - 56.4)	55.3 (55.1 - 55.5)
Colon and Rectum	35.2 (32.5 - 38.2)	658	36.3 (36.1 - 36.5)	36.9 (36.7 - 37.1)
Female Breast	128.5 (121.1 - 136.4)	1,258	125.8 (125.2 - 126.3)	125.1 (124.6 - 125.6)
Prostate	97.6 (91.4 - 104.1)	988	96.4 (96.0 - 96.9)	106.4 (106.0 - 106.9)
<i>Other Cancer Sites</i>				
Urinary Bladder	27.9 (25.6 - 30.4)	554	20.3 (20.1 - 20.4)	19.0 (18.9 - 19.2)
Melanoma of the Skin	25.1 (22.7 - 27.7)	445	25.9 (25.7 - 26.0)	22.6 (22.5 - 22.8)
Non-Hodgkin Lymphoma	20.7 (18.6 - 23.0)	389	19.0 (18.8 - 19.1)	18.5 (18.3 - 18.6)
Kidney and Renal Pelvis	16.1 (14.2 - 18.1)	309	17.0 (16.9 - 17.2)	16.9 (16.7 - 17.0)
Oral Cavity and Pharynx	14.8 (13.1 - 16.8)	279	12.1 (12.0 - 12.3)	11.7 (11.6 - 11.8)
Leukemia	15.2 (13.4 - 17.3)	278	13.7 (13.6 - 13.9)	13.3 (13.2 - 13.5)
Pancreas	11.8 (10.3 - 13.5)	238	12.7 (12.6 - 12.9)	12.9 (12.8 - 13.0)
Thyroid	13.7 (11.8 - 15.9)	200	13.8 (13.6 - 13.9)	13.2 (13.1 - 13.3)
Myeloma	6.3 (5.2 - 7.5)	131	5.9 (5.8 - 6.0)	6.7 (6.7 - 6.8)
Brain and Other Nervous System	8.0 (6.6 - 9.6)	129	6.8 (6.7 - 6.9)	6.3 (6.2 - 6.4)
Esophagus	5.7 (4.7 - 6.9)	117	4.6 (4.5 - 4.7)	4.4 (4.3 - 4.5)
Liver and Intrahepatic Bile Duct	5.6 (4.6 - 6.7)	116	7.7 (7.6 - 7.8)	8.3 (8.2 - 8.4)
Stomach	5.6 (4.5 - 6.8)	107	5.6 (5.5 - 5.7)	6.3 (6.2 - 6.4)
Larynx	2.9 (2.2 - 3.7)	61	3.0 (2.9 - 3.1)	3.0 (3.0 - 3.1)
Hodgkin Lymphoma	2.3 (1.6 - 3.3)	36	2.6 (2.6 - 2.7)	2.6 (2.5 - 2.6)
Mesothelioma	1.4 (0.9 - 2.0)	27	0.9 (0.8 - 0.9)	0.8 (0.8 - 0.8)
<i>Other Gender Specific Sites</i>				
Uterus (Corpus Uteri and Uterus, NOS)	34.6 (31.1 - 38.5)	373	27.2 (27.0 - 27.5)	27.2 (27.0 - 27.5)
Ovary	9.2 (7.3 - 11.5)	89	10.4 (10.3 - 10.6)	10.2 (10.0 - 10.3)
Cervix Uteri	6.5 (4.7 - 8.9)	48	7.3 (7.2 - 7.5)	7.5 (7.3 - 7.6)
Testis	8.2 (6.0 - 10.9)	48	6.5 (6.3 - 6.6)	5.6 (5.5 - 5.7)

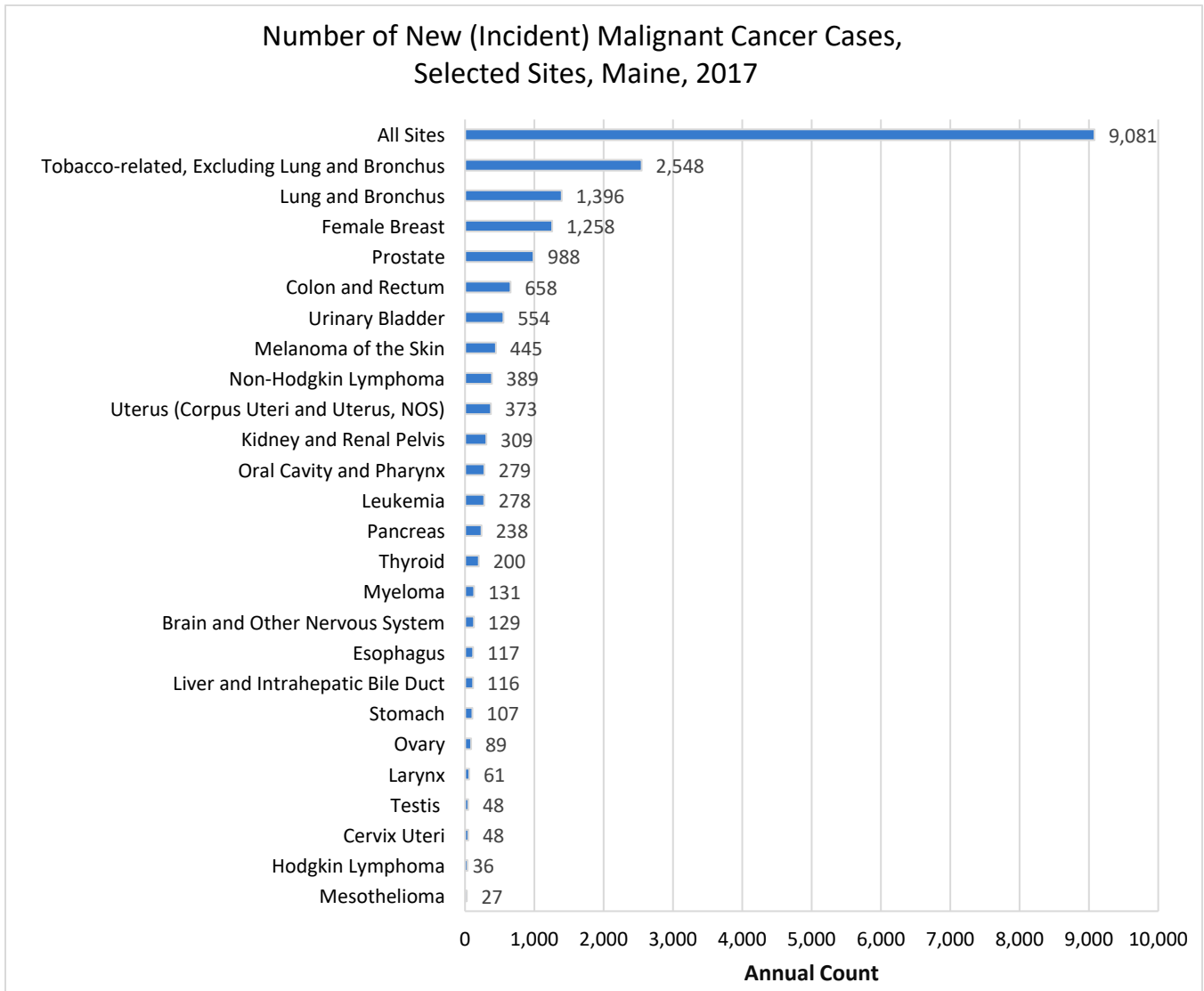
Notes:

- 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 2017 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Analytic File, Public Use, 1994-2017.

Count of New Malignant Cancers, Maine 2017



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 2019 NPCR-CSS data submission

Age-adjusted Cancer Incidence Rates among Males by Site, Maine, 2017

	Male			
	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Sites	501.0 (486.0 - 516.4)	4,572	470.9 (469.8 - 472.0)	475.3 (474.3 - 476.3)
Tobacco-related, Excluding Lung and Bronchus	180.2 (171.2 - 189.6)	1,631	167.6 (167.0 - 168.3)	167.3 (166.6 - 167.9)
Prostate	97.6 (91.4 - 104.1)	988	96.4 (96.0 - 96.9)	106.4 (106.0 - 106.9)
Lung and Bronchus	70.9 (65.5 - 76.7)	673	62.7 (62.3 - 63.2)	62.9 (62.6 - 63.3)
Urinary Bladder	48.1 (43.6 - 53.1)	433	34.8 (34.5 - 35.1)	32.9 (32.6 - 33.1)
Colon and Rectum	38.2 (34.1 - 42.8)	335	41.2 (40.9 - 41.6)	42.1 (41.8 - 42.4)
Non-Hodgkin Lymphoma	28.2 (24.6 - 32.2)	239	23.0 (22.8 - 23.3)	22.4 (22.2 - 22.7)
Melanoma of the Skin	26.8 (23.3 - 30.7)	230	32.4 (32.1 - 32.7)	28.9 (28.6 - 29.1)
Oral Cavity and Pharynx	22.3 (19.2 - 25.9)	199	18.4 (18.2 - 18.6)	17.7 (17.5 - 17.9)
Kidney and Renal Pelvis	21.3 (18.3 - 24.8)	197	22.8 (22.5 - 23.0)	22.7 (22.5 - 22.9)
Leukemia	19.0 (16.1 - 22.4)	164	17.3 (17.1 - 17.6)	16.8 (16.6 - 17.0)
Pancreas	14.1 (11.7 - 16.9)	130	14.8 (14.6 - 15.0)	14.8 (14.6 - 15.0)
Liver and Intrahepatic Bile Duct	9.6 (7.7 - 11.9)	93	11.6 (11.4 - 11.7)	12.6 (12.4 - 12.8)
Esophagus	9.7 (7.8 - 12.0)	91	8.0 (7.9 - 8.2)	7.6 (7.5 - 7.7)
Brain and Other Nervous System	9.7 (7.5 - 12.3)	77	8.0 (7.8 - 8.1)	7.5 (7.3 - 7.6)
Stomach	8.2 (6.4 - 10.5)	73	7.7 (7.5 - 7.8)	8.5 (8.3 - 8.6)
Myeloma	7.5 (5.8 - 9.6)	70	7.4 (7.3 - 7.6)	8.3 (8.1 - 8.4)
Thyroid	7.8 (5.9 - 10.2)	64	7.3 (7.2 - 7.5)	6.9 (6.8 - 7.1)
Testis	8.2 (6.0 - 10.9)	48	6.5 (6.3 - 6.6)	5.6 (5.5 - 5.7)
Larynx	4.4 (3.2 - 6.0)	45	5.1 (4.9 - 5.2)	5.2 (5.1 - 5.3)
Mesothelioma	2.7 (1.6 - 4.1)	22	1.5 (1.4 - 1.5)	1.4 (1.3 - 1.4)
Hodgkin Lymphoma	2.6 (1.5 - 4.1)	19	2.9 (2.8 - 3.0)	2.8 (2.8 - 2.9)

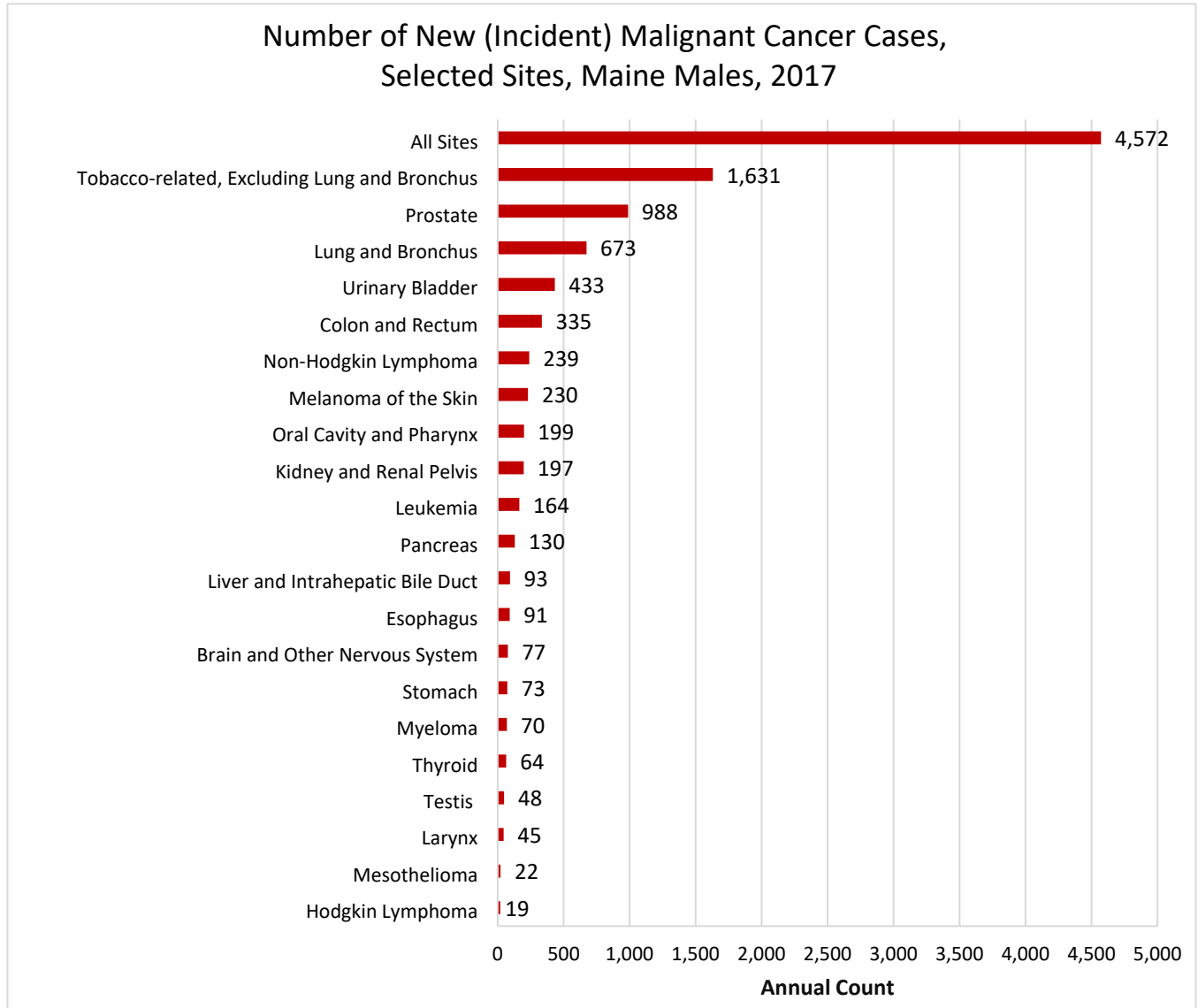
Notes:

- 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 2019 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Analytic File, Public Use, 1994-2017.

Count of New Malignant Cancers, Maine Males, 2017



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 2019 NPCR-CSS data submission

Age-adjusted Cancer Incidence Rates among Females by Site, Maine, 2017

	Female			
	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
All Sites	455.0 (440.9 - 469.3)	4,509	418.4 (417.3 - 419.4)	412.7 (411.7 - 413.6)
Breast	128.5 (121.1 - 136.4)	1,258	125.8 (125.2 - 126.3)	125.1 (124.6 - 125.6)
Tobacco-related, Excluding Lung and Bronchus	92.0 (85.8 - 98.6)	917	90.5 (90.1 - 91.0)	91.7 (91.2 - 92.1)
Lung and Bronchus	67.1 (62.1 - 72.4)	723	51.2 (50.8 - 51.5)	49.5 (49.2 - 49.8)
Uterus (Corpus Uteri and Uterus, NOS)	34.6 (31.1 - 38.5)	373	27.2 (27.0 - 27.5)	27.2 (27.0 - 27.5)
Colon and Rectum	32.6 (29.0 - 36.7)	323	31.9 (31.6 - 32.2)	32.3 (32.1 - 32.6)
Melanoma of the Skin	24.4 (21.1 - 28.2)	215	20.9 (20.7 - 21.2)	18.0 (17.8 - 18.2)
Non-Hodgkin Lymphoma	14.5 (12.1 - 17.3)	150	15.6 (15.4 - 15.8)	15.2 (15.0 - 15.4)
Thyroid	19.4 (16.1 - 23.2)	136	20.2 (20.0 - 20.5)	19.4 (19.1 - 19.6)
Urinary Bladder	11.3 (9.3 - 13.7)	121	8.6 (8.5 - 8.8)	8.2 (8.1 - 8.3)
Leukemia	12.4 (10.1 - 15.2)	114	10.8 (10.6 - 11.0)	10.5 (10.4 - 10.7)
Kidney and Renal Pelvis	11.6 (9.4 - 14.2)	112	11.9 (11.8 - 12.1)	11.8 (11.7 - 12.0)
Pancreas	9.7 (7.9 - 11.8)	108	11.0 (10.8 - 11.1)	11.3 (11.2 - 11.5)
Ovary	9.2 (7.3 - 11.5)	89	10.4 (10.3 - 10.6)	10.2 (10.0 - 10.3)
Oral Cavity and Pharynx	8.1 (6.3 - 10.2)	80	6.5 (6.4 - 6.6)	6.3 (6.2 - 6.5)
Myeloma	5.3 (4.0 - 6.9)	61	4.7 (4.6 - 4.8)	5.5 (5.4 - 5.6)
Brain and Other Nervous System	6.4 (4.7 - 8.6)	52	5.7 (5.6 - 5.9)	5.3 (5.2 - 5.4)
Cervix Uteri	6.5 (4.7 - 8.9)	48	7.3 (7.2 - 7.5)	7.5 (7.3 - 7.6)
Stomach	3.2 (2.2 - 4.7)	34	3.9 (3.8 - 4.0)	4.6 (4.5 - 4.7)
Esophagus	2.3 (1.5 - 3.5)	26	1.7 (1.6 - 1.7)	1.7 (1.6 - 1.7)
Liver and Intrahepatic Bile Duct	2.2 (1.3 - 3.4)	23	4.3 (4.2 - 4.4)	4.6 (4.5 - 4.7)
Hodgkin Lymphoma	2.1 (1.1 - 3.5)	17	2.4 (2.3 - 2.5)	2.3 (2.2 - 2.4)
Larynx	1.5 (0.9 - 2.6)	16	1.2 (1.2 - 1.3)	1.2 (1.2 - 1.2)
Mesothelioma	0.5 (0.1 - 1.2)	5	0.4 (0.4 - 0.4)	0.4 (0.4 - 0.4)

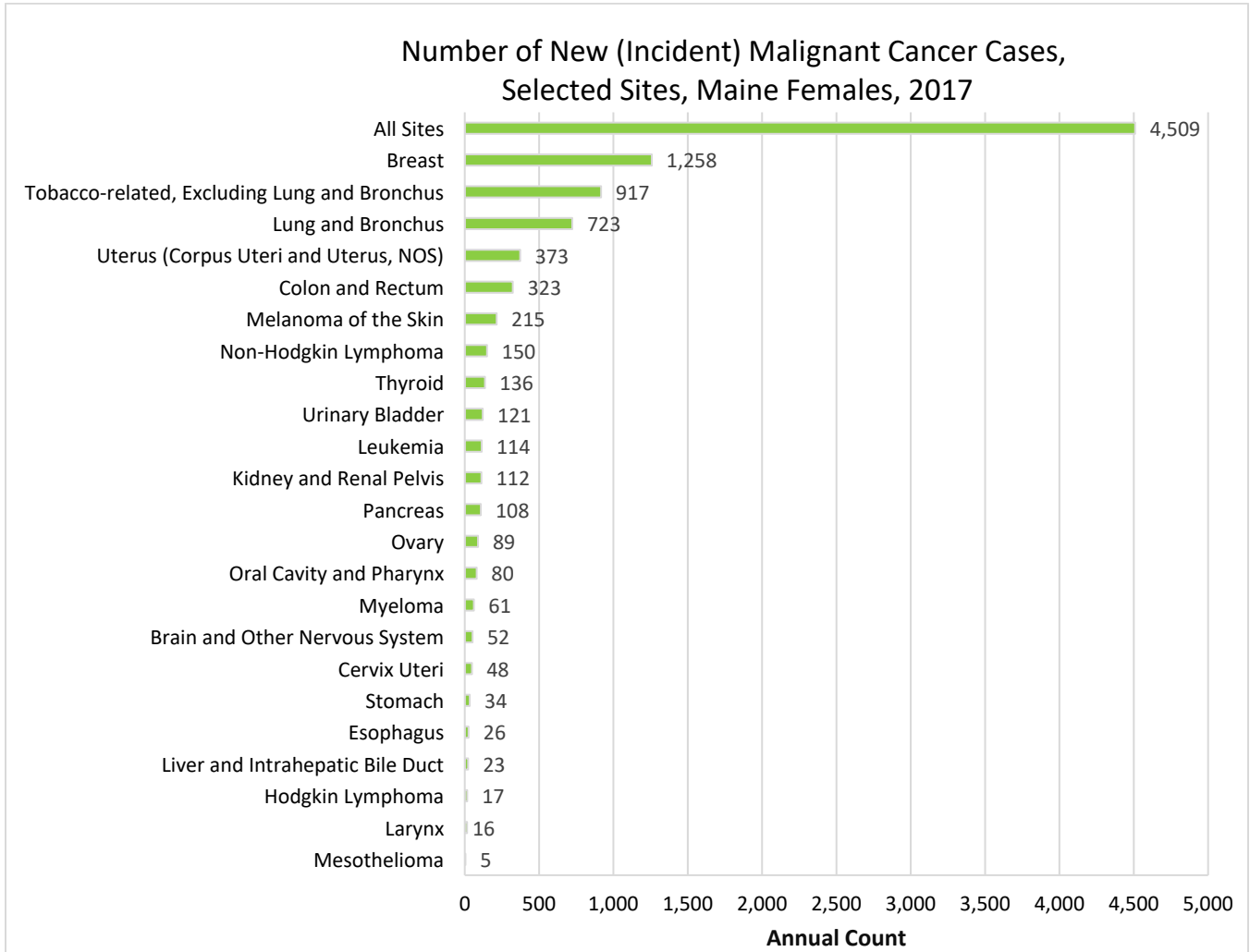
Notes:

- 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 2019 NPCR-CSS data submission
- National Incidence: NAACCR Cancer in North America (CINA) Analytic File, Public Use, 1994-2017.

Count of New Malignant Cancers, Maine Females 2017



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 2019 NPCR-CSS data submission

All Cancers: Incidence by Age, Maine 2015-2017

	Total		Male		Female	
	Crude Rate (95% CI)	Count /Yr	Crude Rate (95% CI)	Count /Yr	Crude Rate (95% CI)	Count /Yr
0-14 years	18.3 (15.1 - 22.0)	38	18.1 (13.8 - 23.4)	19	18.5 (14.0 - 24.0)	19
15-19 years	34.6 (27.6 - 42.9)	28	34.1 (24.6 - 46.0)	14	35.3 (25.3 - 47.8)	14
20-24 years	46.9 (38.5 - 56.6)	36	48.9 (37.1 - 63.2)	19	44.9 (33.4 - 59.1)	17
25-29 years	66.4 (56.4 - 77.6)	52	53.5 (41.2 - 68.3)	21	79.6 (64.2 - 97.5)	31
30-34 years	111.8 (98.5 - 126.3)	86	75.9 (60.8 - 93.6)	29	147.1 (125.9 - 170.9)	57
35-39 years	157.6 (141.7 - 174.9)	119	102.3 (84.4 - 122.9)	38	211.6 (185.8 - 240.0)	81
40-44 years	252.6 (232.5 - 274.0)	194	163.8 (141.0 - 189.2)	62	338.3 (305.8 - 373.3)	132
45-49 years	381.4 (358.3 - 405.5)	340	268.2 (240.9 - 297.8)	117	490.4 (453.9 - 529.0)	223
50-54 years	581.7 (555.0 - 609.5)	591	506.9 (471.4 - 544.4)	251	653.2 (613.7 - 694.6)	339
55-59 years	892.6 (860.4 - 925.7)	967	931.1 (884.1 - 980.1)	489	856.4 (812.7 - 901.9)	479
60-64 years	1,180.7 (1,142.4 - 1,220.0)	1,197	1,280.0 (1,222.7 - 1,339.2)	626	1,088.4 (1,037.5 - 1,141.1)	572
65-69 years	1,664.6 (1,616.1 - 1,714.3)	1,482	1,868.5 (1,794.8 - 1,944.6)	805	1,473.3 (1,409.9 - 1,538.8)	677
70-74 years	2,068.6 (2,004.3 - 2,134.3)	1,308	2,353.7 (2,254.9 - 2,455.7)	712	1,807.1 (1,724.3 - 1,892.9)	596
75-79 years	2,366.2 (2,282.7 - 2,451.9)	1,012	2,763.0 (2,629.6 - 2,901.4)	536	2,036.4 (1,932.1 - 2,144.9)	476
80-84 years	2,531.9 (2,430.3 - 2,636.7)	779	3,163.5 (2,990.7 - 3,343.6)	418	2,057.1 (1,936.5 - 2,183.3)	361
85+ years	2,217.5 (2,125.4 - 2,312.6)	727	3,039.4 (2,856.2 - 3,231.2)	342	1,788.0 (1,686.4 - 1,894.2)	385
Maine All Ages*	672.5 (664.5 - 680.6)	8,956	690.0 (678.4 - 701.7)	4,499	655.8 (644.7 - 667.0)	4,457

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 2019 NPCR-CSS data submission

All Cancers: Incidence by County of Residence, Maine, 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr
Androscoggin	481.0 (459.4 - 503.4)	660	509.9 (477.5 - 544.0)	326	460.1 (430.9 - 490.9)	334
Aroostook	475.9 (450.5 - 502.4)	505	510.0 (473.1 - 549.2)	265	450.7 (415.4 - 488.6)	240
Cumberland	460.4 (447.6 - 473.4)	1,755	484.6 (465.2 - 504.6)	842	451.6 (434.0 - 469.7)	913
Franklin	453.2 (414.9 - 494.4)	198	489.5 (434.2 - 550.7)	107	421.3 (368.9 - 479.8)	91
Hancock	494.7 (466.3 - 524.6)	434	562.2 (518.9 - 608.6)	234	443.4 (405.7 - 484.1)	200
Kennebec	465.9 (446.4 - 486.1)	786	483.6 (455.2 - 513.5)	389	457.4 (430.3 - 486.0)	397
Knox	474.9 (442.5 - 509.4)	306	511.1 (463.8 - 562.6)	158	452.6 (407.4 - 502.2)	149
Lincoln	449.4 (415.6 - 485.7)	265	458.9 (412.2 - 510.4)	133	448.2 (399.2 - 502.3)	132
Oxford	474.2 (446.9 - 502.9)	416	496.3 (456.9 - 538.6)	214	458.5 (420.4 - 499.6)	202
Penobscot	515.7 (496.9 - 535.0)	1,030	559.8 (531.5 - 589.2)	525	486.9 (461.5 - 513.5)	505
Piscataquis	524.3 (472.8 - 580.8)	151	548.6 (476.0 - 631.4)	81	502.1 (430.2 - 584.4)	70
Sagadahoc	397.4 (365.3 - 431.8)	209	396.6 (351.4 - 446.7)	101	405.5 (359.7 - 456.1)	108
Somerset	464.6 (435.1 - 495.7)	338	471.3 (428.7 - 517.3)	166	464.8 (423.7 - 509.3)	173
Waldo	474.2 (440.3 - 510.2)	275	512.7 (462.3 - 567.5)	142	443.8 (398.1 - 493.8)	133
Washington	507.4 (469.7 - 547.8)	259	556.9 (502.2 - 616.8)	142	471.0 (418.5 - 529.0)	117
York	476.6 (461.5 - 492.2)	1,367	501.1 (478.6 - 524.4)	674	463.0 (442.2 - 484.7)	693
Maine	474.5 (468.5 - 480.4)	8,956	503.0 (494.2 - 511.9)	4,499	457.3 (449.1 - 465.6)	4,457

All Cancers: Incidence by Public Health District of Residence, Maine, 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr	AA Rate (95% CI)	Count /Yr
Aroostook	475.9 (450.5 - 502.4)	505	510.0 (473.1 - 549.2)	265	450.7 (415.4 - 488.6)	240
Central	465.4 (449.1 - 482.2)	1,125	479.1 (455.5 - 503.8)	555	460.1 (437.3 - 483.8)	570
Cumberland	460.4 (447.6 - 473.4)	1,755	484.6 (465.2 - 504.6)	842	451.6 (434.0 - 469.7)	913
Downeast	499.0 (476.3 - 522.7)	693	560.1 (525.9 - 596.2)	375	453.0 (422.1 - 485.7)	318
Midcoast	451.0 (434.3 - 468.2)	1,055	473.8 (449.6 - 499.0)	534	438.2 (414.8 - 462.8)	521
Penquis	516.6 (499.0 - 534.7)	1,181	557.8 (531.4 - 585.1)	606	488.7 (464.7 - 513.7)	575
Western	474.4 (458.9 - 490.4)	1,274	502.8 (479.9 - 526.7)	647	453.2 (431.9 - 475.3)	627
York	476.6 (461.5 - 492.2)	1,367	501.1 (478.6 - 524.4)	674	463.0 (442.2 - 484.7)	693
Maine	474.5 (468.5 - 480.4)	8,956	503.0 (494.2 - 511.9)	4,499	457.3 (449.1 - 465.6)	4,457

Notes:

- A shaded cell indicates that the County/District rate is significantly higher than the Maine rate.
- Incidence case definitions are based on SEER Site Recode ICD-O-3 /WHO 2008.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. Standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; Count/Yr = Average Annual Count.
- Maine total includes 9 cases with unknown county of residence.
- Subgroup counts might not sum to Maine total due to rounding.

Data Source:

- Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission

Lung and Bronchus Cancer: Incidence by Age, Maine 2015-2017

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
40-44 years	13.0 (8.8 - 18.6)	10	11.5 (6.1 - 19.7)	4	14.5 (8.5 - 23.3)	6
45-49 years	32.9 (26.4 - 40.5)	29	32.0 (23.1 - 43.3)	14	33.8 (24.7 - 45.0)	15
50-54 years	70.3 (61.2 - 80.3)	71	64.5 (52.3 - 78.8)	32	75.7 (62.7 - 90.7)	39
55-59 years	128.9 (116.8 - 141.8)	140	141.6 (123.7 - 161.5)	74	116.9 (101.1 - 134.5)	65
60-64 years	177.2 (162.5 - 192.8)	180	202.5 (180.2 - 226.9)	99	153.6 (134.8 - 174.2)	81
65-69 years	281.2 (261.4 - 302.0)	250	310.9 (281.3 - 342.8)	134	253.3 (227.4 - 281.3)	116
70-74 years	397.1 (369.2 - 426.5)	251	399.1 (359.0 - 442.4)	121	395.2 (357.0 - 436.4)	130
75-79 years	477.0 (439.9 - 516.3)	204	518.6 (461.8 - 580.5)	101	442.4 (394.5 - 494.5)	103
80-84 years	485.4 (441.4 - 532.5)	149	530.2 (460.9 - 607.0)	70	451.7 (396.1 - 512.8)	79
85+ years	356.9 (320.5 - 396.2)	117	509.5 (436.2 - 591.6)	57	277.1 (238.0 - 320.8)	60
Maine All Ages*	105.9 (102.7 - 109.1)	1,410	108.7 (104.2 - 113.5)	709	103.1 (98.7 - 107.6)	701

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 2019 NPCR-CSS data submission

Lung and Bronchus Cancer: Incidence by County of Residence, Maine 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	79.6 (71.2 - 88.8)	113	80.4 (68.1 - 94.3)	54	78.3 (67.0 - 91.1)	60
Aroostook	77.8 (68.6 - 88.1)	91	84.2 (70.6 - 100.2)	47	71.7 (59.6 - 86.1)	44
Cumberland	60.5 (56.0 - 65.3)	233	65.5 (58.5 - 73.2)	111	57.4 (51.5 - 63.8)	122
Franklin	66.2 (52.5 - 83.0)	29	82.6 (60.9 - 110.3)	18	53.4 (36.3 - 76.8)	11
Hancock	57.9 (49.1 - 68.2)	55	62.3 (49.3 - 78.5)	28	53.8 (42.2 - 68.4)	27
Kennebec	72.8 (65.7 - 80.6)	133	77.7 (67.0 - 89.8)	67	68.9 (59.4 - 79.7)	66
Knox	53.9 (44.3 - 65.5)	39	60.6 (45.7 - 79.8)	20	48.6 (36.6 - 64.7)	19
Lincoln	62.3 (50.9 - 76.1)	39	65.2 (48.3 - 87.4)	19	60.1 (45.3 - 79.8)	20
Oxford	85.2 (74.2 - 97.5)	78	101.2 (84.1 - 121.2)	44	71.2 (57.4 - 87.9)	34
Penobscot	79.8 (72.8 - 87.4)	166	89.2 (78.3 - 101.4)	85	73.6 (64.4 - 84.0)	81
Piscataquis	77.5 (60.5 - 99.4)	25	79.6 (55.4 - 114.4)	13	76.4 (53.5 - 109.5)	13
Sagadahoc	51.9 (40.7 - 65.6)	27	43.9 (29.2 - 64.2)	10	59.8 (43.5 - 81.1)	16
Somerset	91.8 (79.2 - 106.0)	69	92.8 (75.0 - 114.2)	34	91.9 (74.5 - 112.7)	35
Waldo	69.5 (57.6 - 83.5)	43	78.2 (59.9 - 101.0)	22	63.4 (48.0 - 83.1)	21
Washington	88.3 (74.0 - 105.1)	48	100.3 (78.4 - 127.7)	26	77.0 (59.1 - 100.1)	22
York	73.4 (67.8 - 79.4)	222	81.2 (72.5 - 90.8)	111	68.1 (60.8 - 76.3)	111
Maine	71.1 (68.9 - 73.4)	1,410	77.2 (73.9 - 80.7)	709	66.6 (63.7 - 69.7)	701

Lung and Bronchus Cancer: Incidence by Public Health District of Residence, Maine, 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	77.8 (68.6 - 88.1)	91	84.2 (70.6 - 100.2)	47	71.7 (59.6 - 86.1)	44
Central	78.6 (72.3 - 85.4)	201	82.3 (73.0 - 92.6)	101	75.9 (67.4 - 85.4)	101
Cumberland	60.5 (56.0 - 65.3)	233	65.5 (58.5 - 73.2)	111	57.4 (51.5 - 63.8)	122
Downeast	68.9 (61.1 - 77.5)	103	76.1 (64.4 - 89.7)	54	62.3 (52.3 - 74.1)	49
Midcoast	59.5 (53.9 - 65.7)	148	62.0 (53.6 - 71.5)	71	58.1 (50.5 - 66.8)	76
Penquis	79.7 (73.1 - 86.8)	191	87.9 (77.8 - 99.0)	97	74.3 (65.6 - 84.0)	94
Western	78.9 (72.8 - 85.3)	220	87.3 (78.1 - 97.4)	116	71.8 (63.8 - 80.6)	105
York	73.4 (67.8 - 79.4)	222	81.2 (72.5 - 90.8)	111	68.1 (60.8 - 76.3)	111
Maine	71.1 (68.9 - 73.4)	1,410	77.2 (73.9 - 80.7)	709	66.6 (63.7 - 69.7)	701

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 2019 NPCR-CSS data submission

Tobacco-related Cancers, Excluding Lung and Bronchus: Incidence by Age, Maine 2015-2017

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
25-29 years	11.4 (7.5 - 16.6)	9	7.5 (3.4 - 14.3)	3	15.4 (9.1 - 24.3)	6
30-34 years	21.2 (15.7 - 28.1)	16	17.4 (10.7 - 26.9)	7	25.0 (16.7 - 35.8)	10
35-39 years	36.8 (29.3 - 45.6)	28	34.1 (24.1 - 46.8)	13	39.3 (28.7 - 52.7)	15
40-44 years	60.0 (50.4 - 70.9)	46	60.2 (46.7 - 76.3)	23	59.8 (46.6 - 75.6)	23
45-49 years	102.4 (90.7 - 115.3)	91	121.2 (103.1 - 141.5)	53	84.4 (69.7 - 101.3)	38
50-54 years	174.0 (159.5 - 189.5)	177	216.5 (193.5 - 241.5)	107	133.5 (115.9 - 152.9)	69
55-59 years	267.6 (250.1 - 286.0)	290	379.2 (349.4 - 410.9)	199	162.8 (144.1 - 183.3)	91
60-64 years	319.2 (299.4 - 339.9)	324	443.9 (410.5 - 479.4)	217	203.1 (181.4 - 226.6)	107
65-69 years	444.1 (419.1 - 470.1)	395	614.1 (572.1 - 658.3)	265	284.5 (257.0 - 314.1)	131
70-74 years	556.8 (523.7 - 591.4)	352	789.4 (732.6 - 849.4)	239	343.6 (308.1 - 382.2)	113
75-79 years	689.0 (644.3 - 735.9)	295	959.9 (882.0 - 1,042.9)	186	463.8 (414.7 - 517.1)	108
80-84 years	850.5 (792.0 - 912.1)	262	1,254.8 (1,146.9 - 1,370.1)	166	546.5 (485.2 - 613.4)	96
85+ years	794.1 (739.4 - 851.8)	260	1,193.8 (1,080.1 - 1,316.3)	134	585.2 (527.7 - 647.2)	126
Maine All Ages*	192.0 (187.7 - 196.4)	2,557	248.2 (241.3 - 255.3)	1,618	138.1 (133.1 - 143.3)	939

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 2019 NPCR-CSS data submission

Tobacco-related Cancers, Excl. Lung and Bronchus: Incidence by County of Residence, Maine, 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	148.1 (136.3 - 160.8)	203	199.9 (179.8 - 221.8)	127	103.1 (89.6 - 118.3)	75
Aroostook	142.9 (129.6 - 157.4)	157	194.4 (171.9 - 219.3)	99	99.0 (83.9 - 116.6)	58
Cumberland	123.2 (116.7 - 130.0)	475	169.2 (157.9 - 181.3)	292	87.5 (80.0 - 95.5)	183
Franklin	129.9 (110.2 - 152.5)	58	169.3 (137.9 - 206.7)	37	94.5 (70.9 - 124.2)	21
Hancock	143.2 (128.2 - 159.7)	126	209.0 (182.4 - 238.8)	84	89.6 (73.7 - 108.6)	42
Kennebec	128.3 (118.4 - 138.9)	222	173.9 (157.1 - 192.2)	140	90.4 (78.9 - 103.3)	82
Knox	135.9 (118.7 - 155.2)	86	192.7 (163.7 - 226.0)	57	89.9 (70.1 - 114.4)	29
Lincoln	120.2 (103.3 - 139.5)	73	154.5 (128.5 - 185.5)	45	92.6 (70.9 - 120.0)	27
Oxford	147.7 (132.8 - 164.1)	130	191.5 (167.5 - 218.4)	83	106.8 (89.0 - 127.7)	47
Penobscot	143.8 (134.0 - 154.1)	289	197.9 (181.1 - 215.9)	184	98.1 (87.2 - 110.2)	106
Piscataquis	153.5 (127.0 - 185.0)	45	198.7 (156.5 - 251.4)	29	110.2 (79.1 - 152.1)	16
Sagadahoc	109.0 (92.9 - 127.6)	59	144.4 (118.3 - 175.3)	38	78.0 (58.6 - 102.5)	20
Somerset	129.3 (114.2 - 146.1)	95	155.8 (132.1 - 182.9)	55	105.6 (86.7 - 127.9)	39
Waldo	141.5 (123.3 - 161.9)	80	191.2 (160.7 - 226.3)	51	96.6 (76.3 - 121.4)	29
Washington	138.0 (119.0 - 159.6)	72	171.5 (142.6 - 205.7)	46	110.0 (85.1 - 140.6)	27
York	133.7 (125.8 - 142.0)	388	183.9 (170.4 - 198.2)	249	92.3 (83.1 - 102.3)	139
Maine	133.9 (130.8 - 137.1)	2,557	181.6 (176.3 - 187.0)	1,618	94.1 (90.4 - 97.8)	939

Tobacco-related Cancers, Excl. Lung and Bronchus: Incidence by Public Health District of Residence, Maine, 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	142.9 (129.6 - 157.4)	157	194.4 (171.9 - 219.3)	99	99.0 (83.9 - 116.6)	58
Central	128.7 (120.3 - 137.5)	316	168.3 (154.5 - 183.1)	195	95.1 (85.1 - 106.0)	121
Cumberland	123.2 (116.7 - 130.0)	475	169.2 (157.9 - 181.3)	292	87.5 (80.0 - 95.5)	183
Downeast	141.1 (129.3 - 153.9)	198	195.0 (175.0 - 217.1)	130	96.8 (83.0 - 112.6)	68
Midcoast	127.4 (118.7 - 136.7)	298	173.0 (158.5 - 188.6)	192	89.0 (78.6 - 100.6)	105
Penquis	144.8 (135.7 - 154.5)	334	197.9 (182.3 - 214.6)	213	99.4 (89.0 - 110.7)	121
Western	145.1 (136.6 - 154.0)	391	192.1 (178.1 - 207.0)	248	102.9 (93.0 - 113.8)	143
York	133.7 (125.8 - 142.0)	388	183.9 (170.4 - 198.2)	249	92.3 (83.1 - 102.3)	139
Maine	133.9 (130.8 - 137.1)	2,557	181.6 (176.3 - 187.0)	1,618	94.1 (90.4 - 97.8)	939

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 2019 NPCR-CSS data submission

Prostate Cancer: Incidence by Age, Maine 2015-2017

	Male	
	Crude Rate (95% CI)	Count/Yr
40-44 years	4.4 (1.4 - 10.3)	2
45-49 years	15.2 (9.3 - 23.5)	7
50-54 years	83.4 (69.3 - 99.4)	41
55-59 years	181.7 (161.2 - 204.0)	95
60-64 years	339.6 (310.4 - 370.8)	166
65-69 years	547.6 (508.0 - 589.4)	236
70-74 years	535.8 (489.2 - 585.6)	162
75-79 years	528.9 (471.5 - 591.4)	103
80-84 years	350.9 (295.0 - 414.4)	46
85+ years	349.6 (289.3 - 418.6)	39
Maine All Ages*	137.6 (132.5 - 142.9)	897

Prostate Cancer: Incidence by Public Health District of Residence, Maine, 2015-2017

	Male	
	AA Rate (95% CI)	Count/Yr
Aroostook	83.1 (70.0 - 98.7)	50
Central	75.7 (67.0 - 85.3)	97
Cumberland	91.4 (83.6 - 99.8)	177
Downeast	118.0 (103.5 - 134.4)	86
Midcoast	87.0 (77.6 - 97.4)	111
Penquis	105.5 (94.9 - 117.2)	126
Western	83.2 (74.6 - 92.6)	120
York	87.5 (78.8 - 97.0)	130
Maine	90.4 (86.9 - 94.0)	897

Prostate Cancer: Incidence by County of Residence, Maine, 2015-2017

	Male	
	AA Rate (95% CI)	Count/Yr
Androscoggin	79.9 (68.1 - 93.3)	57
Aroostook	83.1 (70.0 - 98.7)	50
Cumberland	91.4 (83.6 - 99.8)	177
Franklin	100.9 (79.3 - 128.1)	26
Hancock	125.8 (107.0 - 147.7)	57
Kennebec	74.4 (64.2 - 86.1)	66
Knox	108.2 (88.4 - 132.2)	37
Lincoln	83.6 (66.3 - 105.8)	28
Oxford	77.6 (63.5 - 94.6)	37
Penobscot	109.7 (97.9 - 122.6)	112
Piscataquis	77.6 (55.7 - 109.5)	14
Sagadahoc	68.4 (51.6 - 90.2)	19
Somerset	78.7 (63.1 - 97.6)	31
Waldo	85.0 (66.8 - 107.5)	27
Washington	105.5 (83.6 - 132.5)	29
York	87.5 (78.8 - 97.0)	130
Maine	90.4 (86.9 - 94.0)	897

Notes:

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

Data Source:

- Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission

Female Breast Cancer: Incidence by Age, Maine, 2015-2017

	Female	
	Crude Rate (95% CI)	Count/Yr
25-29 years	9.4 (4.7 - 16.8)	4
30-34 years	31.0 (21.7 - 42.9)	12
35-39 years	66.5 (52.4 - 83.2)	25
40-44 years	138.4 (117.9 - 161.4)	54
45-49 years	201.2 (178.0 - 226.4)	91
50-54 years	212.4 (190.1 - 236.5)	110
55-59 years	258.2 (234.5 - 283.8)	144
60-64 years	326.2 (298.6 - 355.6)	171
65-69 years	438.4 (404.1 - 474.8)	201
70-74 years	490.2 (447.5 - 535.8)	162
75-79 years	452.4 (403.9 - 505.0)	106
80-84 years	375.7 (325.2 - 431.9)	66
85+ years	292.6 (252.4 - 337.4)	63
Maine All Ages*	178.3 (172.5 - 184.2)	1,212


Female Breast Cancer: Incidence by County of Residence, Maine, 2015-2017

	Female	
	AA Rate (95% CI)	Count/Yr
Androscoggin	113.3 (99.0 - 129.2)	81
Aroostook	124.8 (106.0 - 146.1)	64
Cumberland	137.8 (128.0 - 148.1)	271
Franklin	129.1 (100.9 - 163.5)	28
Hancock	118.8 (99.0 - 141.9)	52
Kennebec	122.8 (108.5 - 138.5)	103
Knox	140.8 (115.3 - 170.9)	44
Lincoln	123.2 (96.9 - 155.2)	34
Oxford	123.2 (104.1 - 145.3)	55
Penobscot	123.3 (110.5 - 137.3)	125
Piscataquis	134.2 (97.2 - 182.6)	18
Sagadahoc	105.8 (83.9 - 132.6)	29
Somerset	104.5 (85.6 - 126.7)	39
Waldo	123.7 (100.0 - 152.1)	37
Washington	120.3 (94.5 - 151.9)	30
York	135.9 (124.7 - 148.0)	202
Maine	126.8 (122.5 - 131.3)	1,212

Female Breast Cancer: Incidence by Public Health District of Residence, Maine, 2015-2017

	Female	
	AA Rate (95% CI)	Count/Yr
Aroostook	124.8 (106.0 - 146.1)	64
Central	117.5 (105.9 - 130.1)	142
Cumberland	137.8 (128.0 - 148.1)	271
Downeast	119.3 (103.4 - 137.3)	81
Midcoast	124.0 (111.5 - 137.7)	144
Penquis	124.5 (112.3 - 137.7)	143
Western	118.7 (107.9 - 130.3)	165
York	135.9 (124.7 - 148.0)	202
Maine	126.8 (122.5 - 131.3)	1,212

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 2019 NPCR-CSS data submission

Colon and Rectum Cancer: Incidence by Age, Maine, 2015-2017

	Total		Male		Female	
	Crude Rate (95% CI)	Count/ Yr	Crude Rate (95% CI)	Count/ Yr	Crude Rate (95% CI)	Count/Yr
20-24 years	3.4 (1.5 - 6.8)	3	3.4 (0.9 - 8.6)	1	3.5 (1.0 - 9.0)	1
25-29 years	5.1 (2.6 - 8.9)	4	4.2 (1.4 - 9.8)	2	6.0 (2.4 - 12.3)	2
30-34 years	5.6 (3.0 - 9.6)	4	9.6 (4.8 - 17.2)	4	1.7 (0.2 - 6.2)	1
35-39 years	10.2 (6.5 - 15.3)	8	10.8 (5.6 - 18.8)	4	9.6 (4.8 - 17.2)	4
40-44 years	18.3 (13.2 - 24.7)	14	15.9 (9.4 - 25.2)	6	20.5 (13.1 - 30.5)	8
45-49 years	38.1 (31.1 - 46.3)	34	37.3 (27.6 - 49.4)	16	38.9 (29.1 - 50.9)	18
50-54 years	60.1 (51.7 - 69.4)	61	65.2 (52.9 - 79.6)	32	55.2 (44.1 - 68.1)	29
55-59 years	67.4 (58.7 - 76.9)	73	88.3 (74.2 - 104.2)	46	47.7 (37.8 - 59.4)	27
60-64 years	71.0 (61.8 - 81.1)	72	86.6 (72.2 - 103.0)	42	56.5 (45.4 - 69.5)	30
65-69 years	102.2 (90.4 - 115.1)	91	110.6 (93.2 - 130.3)	48	94.3 (78.8 - 112.0)	43
70-74 years	122.3 (107.1 - 139.1)	77	136.7 (113.7 - 163.0)	41	109.2 (89.5 - 131.8)	36
75-79 years	181.6 (159.0 - 206.5)	78	197.5 (163.0 - 237.0)	38	168.4 (139.4 - 201.7)	39
80-84 years	229.7 (199.8 - 262.8)	71	239.9 (194.1 - 293.2)	32	222.0 (183.6 - 266.1)	39
85+ years	268.4 (237.0 - 302.8)	88	317.0 (259.8 - 383.0)	36	243.0 (206.5 - 284.2)	52
Maine All Ages*	51.0 (48.8 - 53.3)	679	53.5 (50.3 - 56.9)	349	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 20 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 2019 NPCR-CSS data submission

Colon and Rectum Cancer: Incidence by County of Residence, Maine, 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	34.4 (28.8 - 41.0)	46	37.8 (29.3 - 48.2)	23	31.0 (23.7 - 39.9)	22
Aroostook	48.6 (41.2 - 57.3)	54	56.0 (44.5 - 70.1)	29	42.7 (33.2 - 54.7)	25
Cumberland	33.8 (30.4 - 37.4)	128	37.1 (31.9 - 43.0)	63	31.3 (26.9 - 36.3)	65
Franklin	41.7 (30.7 - 55.9)	18	50.8 (33.8 - 74.3)	11	33.3 (20.0 - 53.0)	7
Hancock	49.0 (40.0 - 59.7)	39	62.2 (47.3 - 80.7)	22	38.3 (27.8 - 52.0)	17
Kennebec	32.8 (27.8 - 38.5)	55	36.9 (29.2 - 46.3)	28	29.4 (23.1 - 37.2)	27
Knox	36.5 (27.6 - 47.8)	23	37.5 (25.1 - 54.7)	11	35.7 (23.5 - 52.8)	12
Lincoln	31.0 (22.6 - 42.1)	18	33.9 (21.7 - 51.7)	9	28.8 (17.7 - 45.6)	9
Oxford	41.5 (33.6 - 50.9)	35	49.2 (37.3 - 64.2)	21	33.7 (23.8 - 46.9)	14
Penobscot	39.0 (34.0 - 44.6)	77	44.3 (36.5 - 53.4)	40	34.3 (28.1 - 41.6)	37
Piscataquis	36.4 (24.6 - 53.6)	11	34.2 (19.4 - 60.5)	6	37.3 (20.7 - 65.5)	5
Sagadahoc	35.4 (26.5 - 46.9)	19	36.1 (23.6 - 53.8)	9	35.3 (22.9 - 52.9)	9
Somerset	35.1 (27.2 - 44.8)	24	23.4 (14.5 - 36.2)	8	45.3 (33.2 - 61.0)	17
Waldo	35.6 (26.7 - 46.9)	19	39.0 (26.0 - 57.1)	10	32.7 (20.9 - 49.4)	9
Washington	42.1 (31.4 - 55.8)	19	38.5 (24.9 - 58.2)	9	48.4 (31.8 - 71.1)	11
York	32.4 (28.6 - 36.7)	92	37.5 (31.5 - 44.4)	50	28.1 (23.2 - 33.8)	43
Maine	36.5 (34.9 - 38.2)	679	40.5 (38.0 - 43.1)	349	33.2 (31.1 - 35.5)	330

Colon and Rectum Cancer: Incidence by Public Health District of Residence, Maine, 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	48.6 (41.2 - 57.3)	54	56.0 (44.5 - 70.1)	29	42.7 (33.2 - 54.7)	25
Central	33.5 (29.3 - 38.3)	80	32.9 (26.7 - 40.1)	36	34.2 (28.3 - 41.0)	44
Cumberland	33.8 (30.4 - 37.4)	128	37.1 (31.9 - 43.0)	63	31.3 (26.9 - 36.3)	65
Downeast	46.5 (39.4 - 54.6)	58	53.4 (42.5 - 66.4)	31	42.0 (32.7 - 53.4)	28
Midcoast	34.8 (30.2 - 39.9)	79	36.9 (30.3 - 44.8)	40	33.3 (27.0 - 40.7)	39
Penquis	38.7 (34.1 - 43.9)	88	43.2 (36.0 - 51.5)	46	34.6 (28.7 - 41.5)	43
Western	38.1 (33.7 - 42.9)	99	43.9 (37.2 - 51.6)	55	32.3 (26.7 - 38.7)	44
York	32.4 (28.6 - 36.7)	92	37.5 (31.5 - 44.4)	50	28.1 (23.2 - 33.8)	43
Maine	36.5 (34.9 - 38.2)	679	40.5 (38.0 - 43.1)	349	33.2 (31.1 - 35.5)	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 2019 NPCR-CSS data submission

Urinary Bladder Cancer: Incidence by Age, Maine, 2015-2017

	Total		Male		Female	
	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr	Crude Rate (95% CI)	Count/Yr
35-39 years	3.1 (1.2 - 6.4)	2	5.4 (2.0 - 11.7)	2	0.9 (0.0 - 4.9)	0
40-44 years	4.3 (2.1 - 8.0)	3	5.3 (1.9 - 11.6)	2	3.4 (0.9 - 8.7)	1
45-49 years	11.6 (7.9 - 16.5)	10	16.8 (10.5 - 25.4)	7	6.6 (3.0 - 12.5)	3
50-54 years	17.7 (13.3 - 23.1)	18	27.6 (19.8 - 37.4)	14	8.3 (4.4 - 14.3)	4
55-59 years	40.3 (33.7 - 47.8)	44	66.1 (54.0 - 80.0)	35	16.1 (10.6 - 23.4)	9
60-64 years	56.5 (48.4 - 65.6)	57	91.4 (76.6 - 108.2)	45	24.1 (17.1 - 33.1)	13
65-69 years	91.7 (80.6 - 104.0)	82	146.2 (126.1 - 168.6)	63	40.6 (30.7 - 52.8)	19
70-74 years	137.1 (120.9 - 154.8)	87	241.4 (210.5 - 275.6)	73	41.4 (29.7 - 56.2)	14
75-79 years	179.3 (156.8 - 204.0)	77	297.1 (254.5 - 344.8)	58	81.3 (61.6 - 105.4)	19
80-84 years	240.5 (209.9 - 274.3)	74	446.9 (383.5 - 517.8)	59	85.4 (62.3 - 114.3)	15
85+ years	210.5 (182.8 - 241.2)	69	426.6 (359.8 - 502.2)	48	97.5 (74.9 - 124.8)	21
Maine All Ages*	39.4 (37.5 - 41.4)	524	62.2 (58.8 - 65.8)	406	17.5 (15.7 - 19.4)	119

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 2019 NPCR-CSS data submission

Urinary Bladder Cancer: Incidence by County of Residence, Maine, 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	33.1 (27.6 - 39.3)	45	57.9 (47.2 - 70.5)	35	12.6 (8.4 - 18.5)	10
Aroostook	26.0 (20.9 - 32.4)	31	43.3 (33.6 - 55.5)	23	12.1 (7.3 - 19.6)	7
Cumberland	24.3 (21.5 - 27.4)	96	43.1 (37.4 - 49.4)	73	10.3 (7.9 - 13.2)	23
Franklin	21.3 (14.4 - 31.2)	10	34.9 (22.4 - 53.5)	8	8.3 (3.0 - 20.6)	2
Hancock	24.7 (19.4 - 31.6)	25	43.1 (32.5 - 56.9)	20	10.3 (5.8 - 18.1)	5
Kennebec	27.4 (23.0 - 32.5)	47	48.0 (39.3 - 58.1)	37	10.8 (7.2 - 15.8)	10
Knox	28.2 (20.9 - 37.6)	18	50.0 (35.8 - 68.8)	14	9.9 (4.9 - 19.8)	4
Lincoln	22.1 (15.9 - 30.7)	15	37.3 (25.5 - 54.5)	11	10.8 (5.2 - 22.3)	4
Oxford	28.1 (22.2 - 35.6)	26	43.8 (32.9 - 57.8)	19	15.0 (9.3 - 23.8)	7
Penobscot	27.4 (23.3 - 32.1)	56	50.4 (42.1 - 60.0)	46	8.4 (5.7 - 12.3)	10
Piscataquis	36.8 (24.6 - 54.5)	11	53.1 (32.3 - 85.5)	7	21.5 (9.7 - 45.6)	3
Sagadahoc	21.4 (14.5 - 30.9)	11	34.4 (21.5 - 52.9)	8	10.8 (4.8 - 22.4)	3
Somerset	29.4 (22.5 - 37.9)	22	51.4 (38.2 - 68.2)	18	10.3 (5.2 - 19.2)	4
Waldo	25.3 (18.2 - 34.7)	15	40.5 (27.6 - 58.2)	12	12.0 (5.6 - 23.5)	4
Washington	21.4 (15.1 - 30.2)	13	32.7 (21.6 - 49.2)	10	11.4 (5.4 - 23.4)	3
York	28.1 (24.6 - 32.0)	82	48.5 (41.8 - 56.2)	64	11.8 (8.8 - 15.7)	18
Maine	26.7 (25.4 - 28.1)	524	46.0 (43.3 - 48.7)	406	11.1 (10.0 - 12.4)	119

Urinary Bladder Cancer: Incidence by Public Health District of Residence, Maine, 2015-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	26.0 (20.9 - 32.4)	31	43.3 (33.6 - 55.5)	23	12.1 (7.3 - 19.6)	7
Central	28.0 (24.3 - 32.2)	69	48.9 (41.6 - 57.3)	55	10.7 (7.6 - 14.7)	14
Cumberland	24.3 (21.5 - 27.4)	96	43.1 (37.4 - 49.4)	73	10.3 (7.9 - 13.2)	23
Downeast	23.6 (19.4 - 28.7)	38	39.5 (31.4 - 49.4)	29	10.7 (6.9 - 16.5)	9
Midcoast	24.6 (20.9 - 28.7)	59	41.1 (34.2 - 49.2)	45	10.9 (7.7 - 15.3)	14
Penquis	28.6 (24.6 - 33.0)	67	50.8 (43.0 - 59.7)	53	9.9 (7.0 - 13.8)	14
Western	29.6 (25.9 - 33.7)	82	49.4 (42.4 - 57.3)	63	12.7 (9.6 - 16.7)	19
York	28.1 (24.6 - 32.0)	82	48.5 (41.8 - 56.2)	64	11.8 (8.8 - 15.7)	18
Maine	26.7 (25.4 - 28.1)	524	46.0 (43.3 - 48.7)	406	11.1 (10.0 - 12.4)	119

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 2019 NPCR-CSS data submission

Brain and Other Nervous System Tumors: Incidence by County of Residence, Maine, 2013-2017

	All Behaviors		Malignant		Non-Malignant	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	17.7 (14.4 - 21.5)	22	7.4 (5.3 - 10.0)	9	10.3 (7.8 - 13.3)	13
Aroostook	14.0 (10.4 - 18.4)	12	8.2 (5.5 - 11.9)	7	5.8 (3.7 - 8.7)	6
Cumberland	16.1 (14.2 - 18.1)	57	6.7 (5.5 - 8.1)	23	9.4 (8.0 - 11.0)	34
Franklin	24.4 (16.7 - 34.4)	7	13.0 (7.5 - 20.8)	4	11.4 (6.4 - 18.7)	4
Hancock	11.9 (8.5 - 16.3)	9	5.9 (3.6 - 9.4)	5	6.0 (3.7 - 9.3)	5
Kennebec	14.5 (11.8 - 17.7)	22	7.1 (5.3 - 9.4)	11	7.4 (5.5 - 9.8)	11
Knox	17.0 (12.3 - 23.1)	10	7.4 (4.5 - 11.7)	5	9.6 (6.1 - 14.5)	6
Lincoln	16.6 (11.3 - 23.7)	8	6.8 (3.7 - 11.8)	3	9.8 (5.8 - 15.7)	4
Oxford	17.8 (13.7 - 22.8)	15	6.9 (4.4 - 10.4)	6	10.9 (7.8 - 14.9)	9
Penobscot	14.4 (11.9 - 17.2)	26	7.4 (5.6 - 9.6)	13	7.0 (5.3 - 9.0)	12
Piscataquis	16.3 (9.0 - 27.4)	4	11.8 (5.4 - 22.5)	2	4.4 (1.9 - 10.6)	2
Sagadahoc	15.3 (10.5 - 21.7)	7	8.1 (4.7 - 13.2)	4	7.2 (4.1 - 12.0)	4
Somerset	23.7 (18.4 - 30.2)	15	10.3 (6.8 - 15.0)	6	13.4 (9.5 - 18.5)	9
Waldo	19.4 (13.5 - 26.9)	8	11.2 (6.7 - 17.3)	4	8.2 (4.7 - 13.4)	4
Washington	13.1 (8.3 - 19.8)	5	6.8 (3.5 - 12.1)	3	6.3 (3.1 - 11.5)	3
York	17.2 (14.8 - 19.8)	42	8.6 (6.9 - 10.6)	20	8.5 (6.9 - 10.5)	21
Maine	16.3 (15.4 - 17.3)	270	7.8 (7.1 - 8.4)	125	8.6 (7.9 - 9.2)	145

Brain and Other Nervous System Tumors: Incidence by Public Health District of Residence, Maine, 2013-2017

	All Behaviors		Malignant		Non-Malignant	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	14.0 (10.4 - 18.4)	12	8.2 (5.5 - 11.9)	7	5.8 (3.7 - 8.7)	6
Central	17.3 (14.7 - 20.1)	37	8.1 (6.4 - 10.1)	17	9.2 (7.4 - 11.4)	20
Cumberland	16.1 (14.2 - 18.1)	57	6.7 (5.5 - 8.1)	23	9.4 (8.0 - 11.0)	34
Downeast	12.3 (9.4 - 15.8)	15	6.2 (4.2 - 8.9)	8	6.1 (4.1 - 8.7)	7
Midcoast	17.2 (14.5 - 20.3)	34	8.5 (6.6 - 10.8)	16	8.7 (6.8 - 11.0)	17
Penquis	14.6 (12.2 - 17.3)	30	7.8 (6.1 - 9.9)	16	6.8 (5.2 - 8.7)	14
Western	18.8 (16.3 - 21.6)	44	8.1 (6.5 - 10.1)	18	10.7 (8.8 - 12.8)	25
York	17.2 (14.8 - 19.8)	42	8.6 (6.9 - 10.6)	20	8.5 (6.9 - 10.5)	21
Maine	16.3 (15.4 - 17.3)	270	7.8 (7.1 - 8.4)	125	8.6 (7.9 - 9.2)	145

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 2019 NPCR-CSS data submission

Age-adjusted Tobacco-associated Cancers: Incidence by Anatomic Site, Maine and U.S., 2017

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
Both Sexes				
Total Tobacco-associated Cancers	201.0 (194.5 - 207.6)	3,944	182.0 (181.5 - 182.5)	181.2 (180.8 - 181.6)
Trachea, Lung, Bronchus	68.4 (64.8 - 72.3)	1,392	56.2 (56.0 - 56.5)	55.4 (55.1 - 55.6)
Tobacco excluding Trachea, Lung, Bronchus	132.5 (127.2 - 138.0)	2,552	125.8 (125.4 - 126.2)	125.8 (125.5 - 126.2)
Lip, Oral Cavity, Pharynx	14.8 (13.1 - 16.8)	279	12.1 (12.0 - 12.3)	11.7 (11.6 - 11.8)
Esophagus	5.8 (4.8 - 7.0)	118	4.6 (4.5 - 4.7)	4.4 (4.3 - 4.5)
Stomach	5.6 (4.5 - 6.8)	107	5.6 (5.5 - 5.7)	6.3 (6.2 - 6.4)
Colon and Rectum	35.4 (32.6 - 38.3)	660	36.3 (36.1 - 36.5)	36.9 (36.7 - 37.1)
Liver	4.8 (3.9 - 5.9)	101	6.3 (6.2 - 6.3)	6.9 (6.8 - 6.9)
Pancreas	11.8 (10.3 - 13.5)	238	12.7 (12.6 - 12.9)	12.9 (12.8 - 13.0)
Larynx	2.9 (2.2 - 3.7)	61	3.0 (2.9 - 3.1)	3.0 (3.0 - 3.1)
Cervix Uteri	6.5 (4.7 - 8.9)	48	7.3 (7.2 - 7.5)	7.5 (7.3 - 7.6)
Kidney and Renal Pelvis	16.0 (14.2 - 18.0)	308	17.0 (16.9 - 17.2)	16.9 (16.7 - 17.0)
Urinary Bladder	28.0 (25.6 - 30.5)	556	20.3 (20.1 - 20.4)	19.0 (18.9 - 19.2)
Acute Myeloid Leukemia	4.2 (3.3 - 5.3)	76	4.1 (4.1 - 4.2)	4.1 (4.0 - 4.2)

Notes:

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

- Tobacco-associated cancers include lung, bronchus and trachea, as well as lip, oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, kidney and renal pelvis, urinary bladder, and acute myeloid leukemia. All are limited to the subsites specified in Appendix 2.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Count = Annual Count.
- Cancer sites are ordered by SEER recode value.
- Subgroup counts might not sum to Maine total due to rounding.

Data Sources:

- SEER*Stat Database: NAACCR Incidence Data - CiNA Analytic File, 1995-2017, Public Use

Age-adjusted Tobacco-associated Cancers: Incidence by Gender and Anatomic Site, Maine and U.S., 2017

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
Male				
Total Tobacco-associated Cancers	251.3 (240.7 - 262.2)	2,306	230.4 (229.6 - 231.2)	230.3 (229.5 - 231.0)
Trachea, Lung, Bronchus	71.0 (65.6 - 76.8)	674	62.8 (62.4 - 63.2)	63.0 (62.6 - 63.4)
Tobacco excluding Trachea, Lung, Bronchus	180.2 (171.3 - 189.6)	1,632	167.6 (167.0 - 168.3)	167.3 (166.6 - 167.9)
Lip, Oral Cavity, Pharynx	22.3 (19.2 - 25.9)	199	18.4 (18.2 - 18.6)	17.7 (17.5 - 17.9)
Esophagus	9.8 (7.9 - 12.1)	92	8.0 (7.9 - 8.2)	7.6 (7.5 - 7.7)
Stomach	8.2 (6.4 - 10.5)	73	7.7 (7.5 - 7.8)	8.5 (8.3 - 8.6)
Colon and Rectum	38.1 (34.0 - 42.6)	334	41.2 (40.9 - 41.6)	42.1 (41.8 - 42.4)
Liver	8.5 (6.7 - 10.7)	83	9.9 (9.8 - 10.1)	10.9 (10.8 - 11.1)
Pancreas	14.1 (11.7 - 16.9)	130	14.8 (14.6 - 15.0)	14.8 (14.6 - 15.0)
Larynx	4.4 (3.2 - 6.0)	45	5.1 (4.9 - 5.2)	5.2 (5.1 - 5.3)
Kidney and Renal Pelvis	21.3 (18.3 - 24.8)	197	22.8 (22.5 - 23.0)	22.7 (22.5 - 22.9)
Urinary Bladder	48.2 (43.7 - 53.2)	434	34.8 (34.5 - 35.1)	32.9 (32.6 - 33.1)
Acute Myeloid Leukemia	5.2 (3.8 - 7.1)	45	5.0 (4.9 - 5.1)	4.9 (4.8 - 5.0)
	Maine		CINA Whites	CINA All races
Female	AA Rate (95% CI)	Count	AA Rate (95% CI)	AA Rate (95% CI)
Total Tobacco-associated Cancers	158.7 (150.7 - 167.1)	1,635	141.8 (141.2 - 142.3)	141.2 (140.6 - 141.7)
Trachea, Lung, Bronchus	66.6 (61.7 - 71.9)	718	51.2 (50.9 - 51.6)	49.5 (49.2 - 49.8)
Tobacco excluding Trachea, Lung, Bronchus	92.1 (85.8 - 98.7)	917	90.5 (90.1 - 91.0)	91.7 (91.2 - 92.1)
Lip, Oral Cavity, Pharynx	8.1 (6.3 - 10.2)	80	6.5 (6.4 - 6.6)	6.3 (6.2 - 6.5)
Esophagus	2.3 (1.5 - 3.5)	26	1.7 (1.6 - 1.7)	1.7 (1.6 - 1.7)
Stomach	3.2 (2.2 - 4.7)	34	3.9 (3.8 - 4.0)	4.6 (4.5 - 4.7)
Colon and Rectum	32.9 (29.2 - 36.9)	325	31.9 (31.6 - 32.2)	32.3 (32.1 - 32.6)
Liver	1.6 (0.9 - 2.7)	18	3.0 (2.9 - 3.1)	3.3 (3.2 - 3.4)
Pancreas	9.7 (7.9 - 11.8)	108	11.0 (10.8 - 11.1)	11.3 (11.2 - 11.5)
Larynx	1.5 (0.9 - 2.6)	16	1.2 (1.2 - 1.3)	1.2 (1.2 - 1.2)
Cervix Uteri	6.5 (4.7 - 8.9)	48	7.3 (7.2 - 7.5)	7.5 (7.3 - 7.6)
Kidney and Renal Pelvis	11.5 (9.3 - 14.1)	111	11.9 (11.8 - 12.1)	11.8 (11.7 - 12.0)
Urinary Bladder	11.2 (9.3 - 13.6)	120	8.6 (8.5 - 8.8)	8.2 (8.1 - 8.3)
Acute Myeloid Leukemia	3.5 (2.3 - 5.1)	31	3.5 (3.4 - 3.6)	3.5 (3.4 - 3.5)

Notes:

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

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

Age-adjusted Obesity-associated Cancers: Incidence by Anatomic Site, Maine and U.S., 2017

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
Both Sexes				
Total Obesity-associated Cancers	169.3 (163.3 - 175.4)	3,320	166.8 (166.3 - 167.3)	168.0 (167.6 - 168.4)
Total Obesity-associated Cancers, excluding Colon and Rectal	134.0 (128.8 - 139.5)	2,662	130.5 (130.1 - 130.9)	131.1 (130.8 - 131.5)
Adenocarcinoma of the Esophagus	4.2 (3.4 - 5.3)	86	3.3 (3.2 - 3.3)	2.9 (2.8 - 2.9)
Gastric Cardia	2.7 (1.9 - 3.6)	48	2.1 (2.1 - 2.2)	2.0 (1.9 - 2.0)
Colon and Rectum	35.2 (32.5 - 38.2)	658	36.3 (36.1 - 36.5)	36.9 (36.7 - 37.1)
Liver	4.8 (3.9 - 5.9)	101	6.3 (6.2 - 6.3)	6.9 (6.8 - 6.9)
Gallbladder	0.7 (0.4 - 1.2)	14	0.9 (0.9 - 1.0)	1.0 (1.0 - 1.1)
Pancreas	11.8 (10.3 - 13.5)	238	12.7 (12.6 - 12.9)	12.9 (12.8 - 13.0)
Multiple Myeloma	5.9 (4.9 - 7.1)	125	5.6 (5.5 - 5.7)	6.4 (6.3 - 6.5)
Post-menopausal Female Breast Cancer	351.0 (330.1 - 373.0)	1,086	340.2 (338.6 - 341.9)	337.0 (335.5 - 338.5)
Uterus (Corpus Uteri and Uterus, NOS)	34.6 (31.1 - 38.5)	373	27.2 (27.0 - 27.5)	27.2 (27.0 - 27.5)
Ovary	9.2 (7.3 - 11.5)	89	10.4 (10.3 - 10.6)	10.2 (10.0 - 10.3)
Kidney	15.5 (13.7 - 17.5)	297	16.1 (15.9 - 16.2)	16.0 (15.9 - 16.1)
Meningioma	0.3 (0.1 - 0.7)	5	0.1 (0.1 - 0.1)	0.1 (0.1 - 0.1)
Thyroid	13.7 (11.8 - 15.9)	200	13.8 (13.6 - 13.9)	13.2 (13.1 - 13.3)

Notes:

- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Obesity-associated cancers defined as adenocarcinoma of the esophagus, multiple myeloma, meningioma and cancers of the gastric cardia, colon, rectum, liver, gallbladder, pancreas, female breast (post-menopausal), corpus uteri, ovary, kidney, and thyroid. Post-menopausal breast cancer cases include malignant breast cancer cases diagnosed among females age 50 years or greater. Further detail provided in Appendix 2.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Count = Average Annual Count, NOS = Not Otherwise Specified.
- Cancer sites are ordered by SEER recode value.
- Subgroup counts might not sum to Maine total due to rounding.

Data Source:

- Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission
- SEER*Stat Database: NAACCR Incidence Data - CINA Analytic File, 1995-2015, Public Use

Age-adjusted Obesity-associated Cancers: Incidence by Gender and Anatomic Site, Maine and U.S., 2017

	Maine		U.S.	
	AA Rate (95% CI)	Count	CINA Whites	CINA All races
Male				
Total Obesity-associated Cancers	109.9 (102.8 - 117.3)	990	112.2 (111.7 - 112.8)	113.7 (113.1 - 114.2)
Total Obesity-associated Cancers, excluding Colon and Rectal	71.6 (66.0 - 77.7)	655	71.0 (70.5 - 71.4)	71.6 (71.2 - 72.0)
Adenocarcinoma of the Esophagus	8.2 (6.4 - 10.3)	75	6.1 (6.0 - 6.2)	5.4 (5.3 - 5.5)
Gastric Cardia	4.7 (3.3 - 6.6)	39	3.6 (3.5 - 3.7)	3.3 (3.3 - 3.4)
Colon and Rectum	38.2 (34.1 - 42.8)	335	41.2 (40.9 - 41.6)	42.1 (41.8 - 42.4)
Liver	8.5 (6.7 - 10.7)	83	9.9 (9.8 - 10.1)	10.9 (10.8 - 11.1)
Gallbladder	0.5 (0.1 - 1.2)	5	0.7 (0.6 - 0.7)	0.8 (0.7 - 0.8)
Pancreas	14.1 (11.7 - 16.9)	130	14.8 (14.6 - 15.0)	14.8 (14.6 - 15.0)
Multiple Myeloma	7.1 (5.5 - 9.2)	67	6.9 (6.8 - 7.1)	7.8 (7.6 - 7.9)
Kidney	20.6 (17.6 - 24.0)	190	21.6 (21.3 - 21.8)	21.6 (21.3 - 21.8)
Meningioma	0.2 (0.0 - 0.9)	2	0.1 (0.1 - 0.1)	0.1 (0.1 - 0.1)
Thyroid	7.8 (5.9 - 10.2)	64	7.3 (7.2 - 7.5)	6.9 (6.8 - 7.1)
Female				
Total Obesity-associated Cancers	223.3 (213.9 - 233.0)	2,330	216.3 (215.6 - 217.1)	216.1 (215.5 - 216.8)
Total Obesity-associated Cancers, excluding Colon and Rectal	190.6 (182.0 - 199.6)	2,007	184.5 (183.8 - 185.1)	183.8 (183.2 - 184.4)
Adenocarcinoma of the Esophagus	0.9 (0.5 - 1.8)	11	0.9 (0.8 - 0.9)	0.8 (0.7 - 0.8)
Gastric Cardia	0.9 (0.4 - 1.8)	9	0.8 (0.8 - 0.9)	0.8 (0.8 - 0.9)
Colon and Rectum	32.6 (29.0 - 36.7)	323	31.9 (31.6 - 32.2)	32.3 (32.1 - 32.6)
Liver	1.6 (0.9 - 2.7)	18	3.0 (2.9 - 3.1)	3.3 (3.2 - 3.4)
Gallbladder	0.8 (0.4 - 1.7)	9	1.2 (1.1 - 1.2)	1.3 (1.2 - 1.3)
Pancreas	9.7 (7.9 - 11.8)	108	11.0 (10.8 - 11.1)	11.3 (11.2 - 11.5)
Multiple Myeloma	5.0 (3.8 - 6.6)	58	4.5 (4.4 - 4.6)	5.3 (5.2 - 5.4)
Post-menopausal Female Breast Cancer	351.0 (330.1 - 373.0)	1,086	340.2 (338.6 - 341.9)	337.0 (335.5 - 338.5)
Uterus (Corpus Uteri and Uterus, NOS)	34.6 (31.1 - 38.5)	373	27.2 (27.0 - 27.5)	27.2 (27.0 - 27.5)
Ovary	9.2 (7.3 - 11.5)	89	10.4 (10.3 - 10.6)	10.2 (10.0 - 10.3)
Kidney	11.1 (9.0 - 13.7)	107	11.2 (11.1 - 11.4)	11.1 (11.0 - 11.3)
Meningioma	0.3 (0.1 - 1.0)	3	0.1 (0.1 - 0.1)	0.1 (0.1 - 0.1)
Thyroid	19.4 (16.1 - 23.2)	136	20.2 (20.0 - 20.5)	19.4 (19.1 - 19.6)

Notes:

- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Obesity-associated cancers defined as adenocarcinoma of the esophagus, multiple myeloma, meningioma and cancers of the gastric cardia, colon, rectum, liver, gallbladder, pancreas, female breast (post-menopausal), corpus uteri, ovary, kidney, and thyroid. Post-menopausal breast cancer cases include malignant breast cancer cases diagnosed among females age 50 years or greater. Further detail provided in Appendix 2.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Count = Average Annual Count, NOS = Not Otherwise Specified.
- Cancer sites are ordered by SEER recode value.
- Subgroup counts might not sum to Maine total due to rounding.

Data Source:

- Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission
- SEER*Stat Database: NAACCR Incidence Data - CiNA Analytic File, 1995-2017, Public Use

Age-adjusted Human Papillomavirus (HPV)-associated Cancers: Incidence by Anatomic Site, Maine and U.S., 2017

	Maine		U.S.	
	AA Rate (95% CI)	Count	CiNA Whites	CiNA All races
Both Sexes				
Total HPV-associated Cancers	14.7 (12.8 - 16.7)	263	12.8 (12.7 - 12.9)	12.3 (12.2 - 12.4)
Squamous cell carcinoma of the oropharynx	7.2 (6.0 - 8.7)	135	5.5 (5.5 - 5.6)	5.1 (5.0 - 5.2)
Squamous Cell Carcinoma of the anus and rectum	2.0 (1.4 - 2.8)	42	2.0 (1.9 - 2.0)	1.9 (1.8 - 1.9)
Male				
Total HPV-associated Cancers	14.6 (12.1 - 17.5)	131	11.7 (11.5 - 11.9)	11.0 (10.9 - 11.2)
Squamous cell carcinoma of the oropharynx	12.0 (9.7 - 14.7)	108	9.6 (9.4 - 9.8)	8.9 (8.8 - 9.0)
Squamous Cell Carcinoma of the anus and rectum	1.2 (0.6 - 2.3)	12	1.3 (1.2 - 1.3)	1.3 (1.3 - 1.4)
Squamous Cell Carcinoma of the penis	1.4 (0.7 - 2.5)	11	0.8 (0.8 - 0.9)	0.8 (0.8 - 0.8)
Female				
Total HPV-associated Cancers	14.8 (12.2 - 17.9)	132	14.0 (13.8 - 14.2)	13.7 (13.5 - 13.8)
Squamous cell carcinoma of the oropharynx	2.9 (1.8 - 4.3)	27	1.8 (1.7 - 1.9)	1.7 (1.6 - 1.7)
Squamous Cell Carcinoma of the anus and rectum	2.7 (1.8 - 4.0)	30	2.6 (2.5 - 2.7)	2.4 (2.3 - 2.4)
Squamous Cell Carcinoma of the vulva	2.4 (1.5 - 3.7)	23	2.2 (2.1 - 2.3)	2.1 (2.0 - 2.2)
Squamous Cell Carcinoma of the vagina	0.4 (0.1 - 1.2)	5	0.4 (0.4 - 0.4)	0.4 (0.4 - 0.4)
Carcinoma of the cervix	6.4 (4.6 - 8.8)	47	7.0 (6.8 - 7.1)	7.1 (7.0 - 7.2)

Notes:

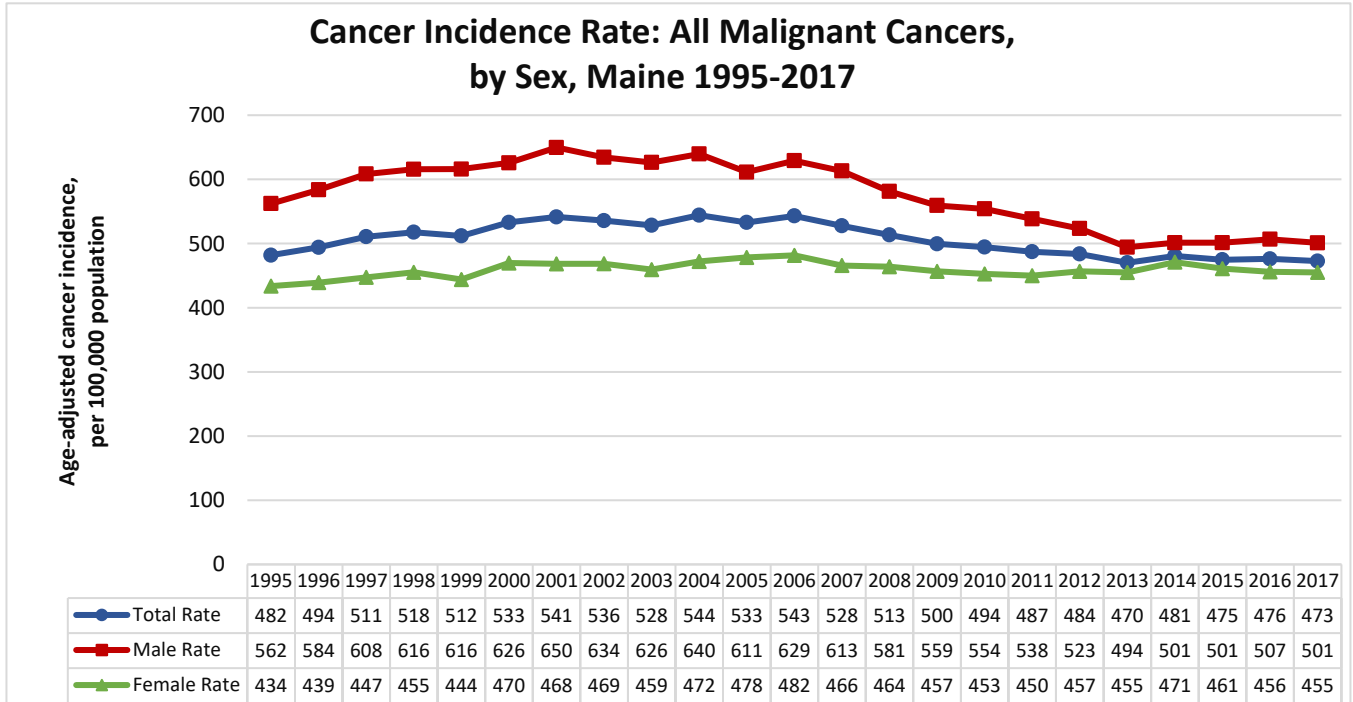
- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- HPV-associated cancers defined as squamous cell carcinomas of the oropharynx, rectum, anus, vulva, vagina, penis, and all carcinomas of the cervix. Oropharynx cancers are limited to the subsites specified in Appendix 2. All HPV-associated cancers are further restricted to those microscopically confirmed.
- Incidence case definitions are based on SEER Site Recode ICD-O-3/WHO 2008.
- Incidence case definitions exclude histologies consistent with Kaposi sarcoma and mesothelioma, where applicable.
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval; SEER = Surveillance, Epidemiology, and End Results; Count = Annual Count.
- Cancer sites are ordered by SEER recode value.
- Subgroup counts might not sum to Maine total due to rounding.

Data Sources:

- Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission
- SEER*Stat Database: NAACCR Incidence Data - CiNA Analytic File, 1995-2015, Public Use

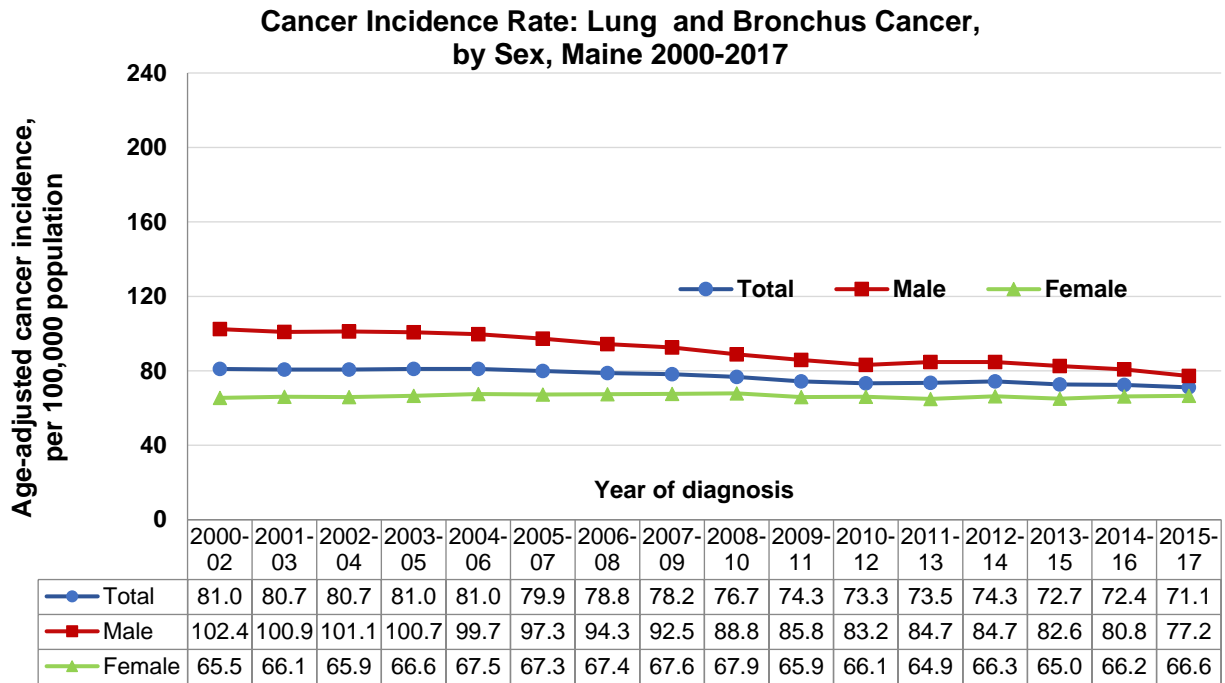
CANCER INCIDENCE TRENDS

Age-adjusted Incidence of all Malignant Cancers, Maine 1995-2017

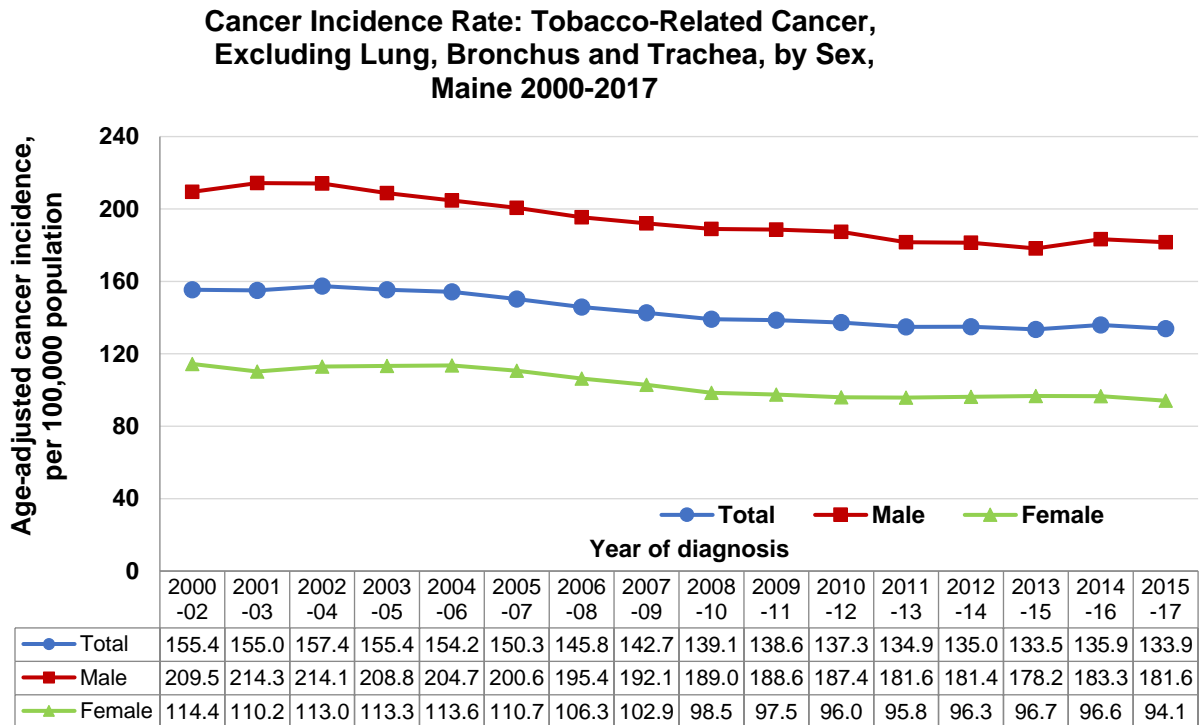


Notes: Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2019

Age-adjusted Incidence of Lung and Bronchus Cancer, Maine 2000-2017



Age-adjusted Incidence of Tobacco-related Cancers, Excluding Lung and Bronchus, Maine 2000-2017



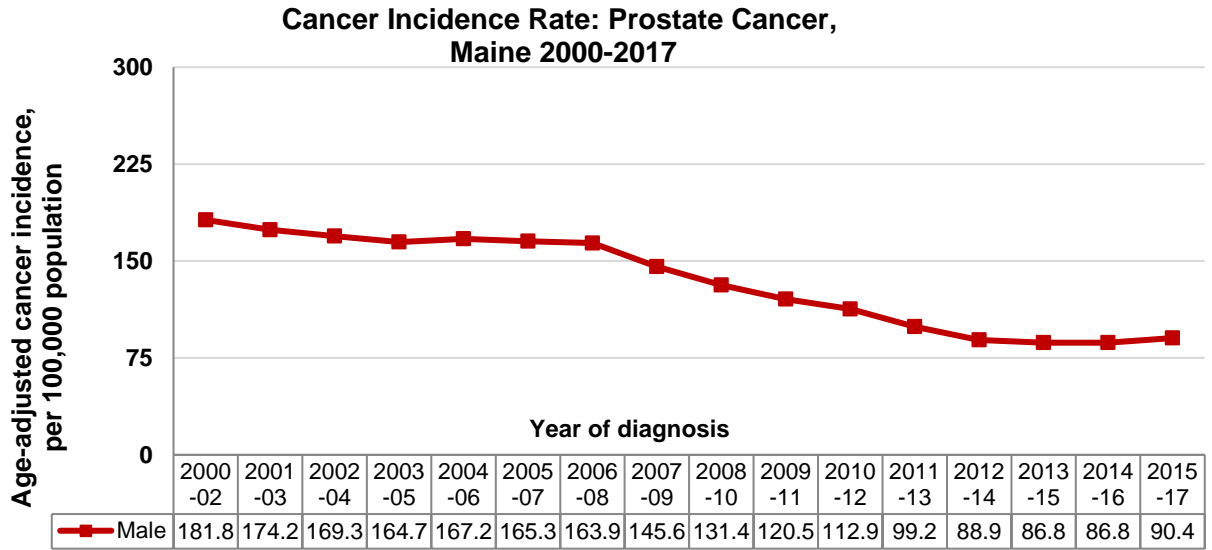
Notes:

- 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 2019 NPCR-CSS data submission

Age-adjusted Incidence of Prostate Cancer, Maine 2000-2017



Notes:

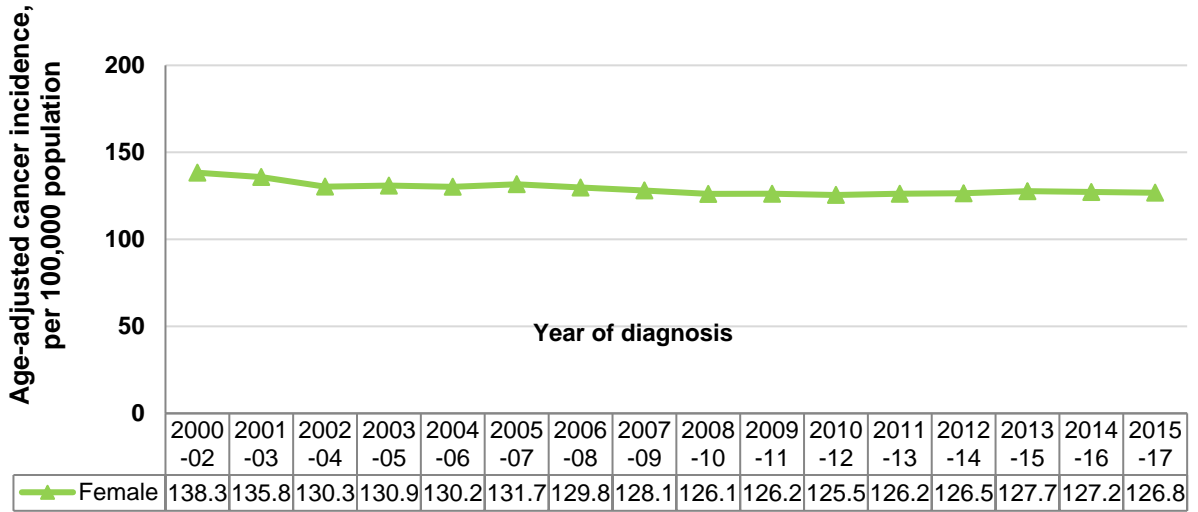
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.

Data Source:

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission

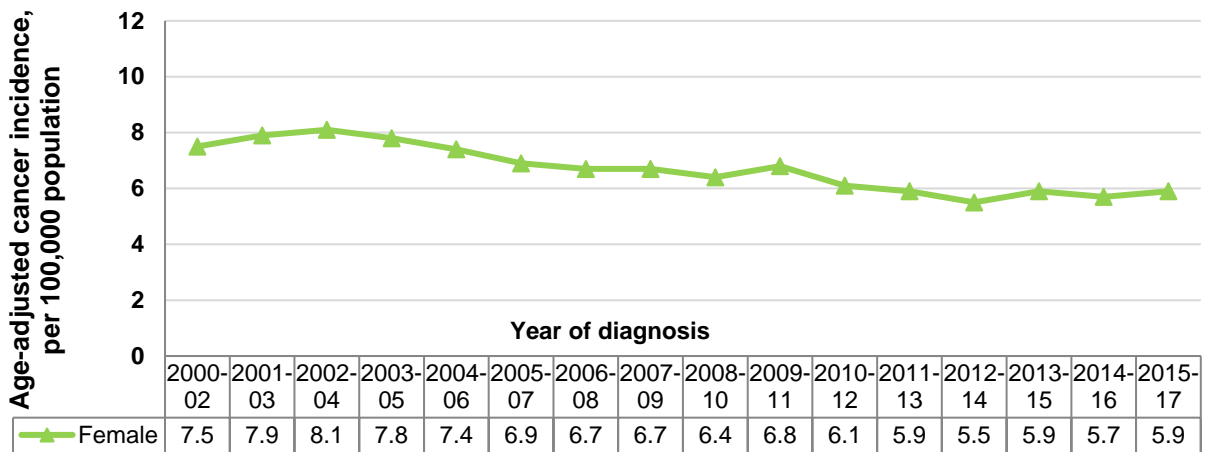
Age-adjusted Incidence of Female Breast Cancer, Maine 2000-2017

Cancer Incidence Rate: Female Breast Cancer, Maine 2000-2017



Age-adjusted Incidence of Cervical Cancer, Maine 2000-2017

Cancer Incidence Rate: Cervical Cancer, Maine 2000-2017



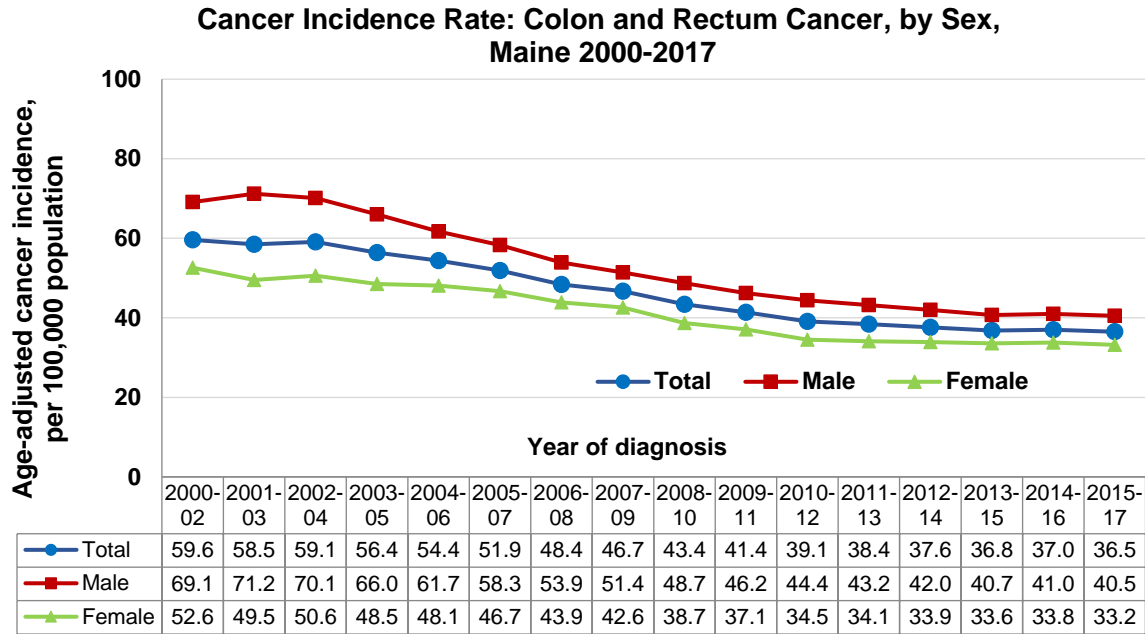
Notes:

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

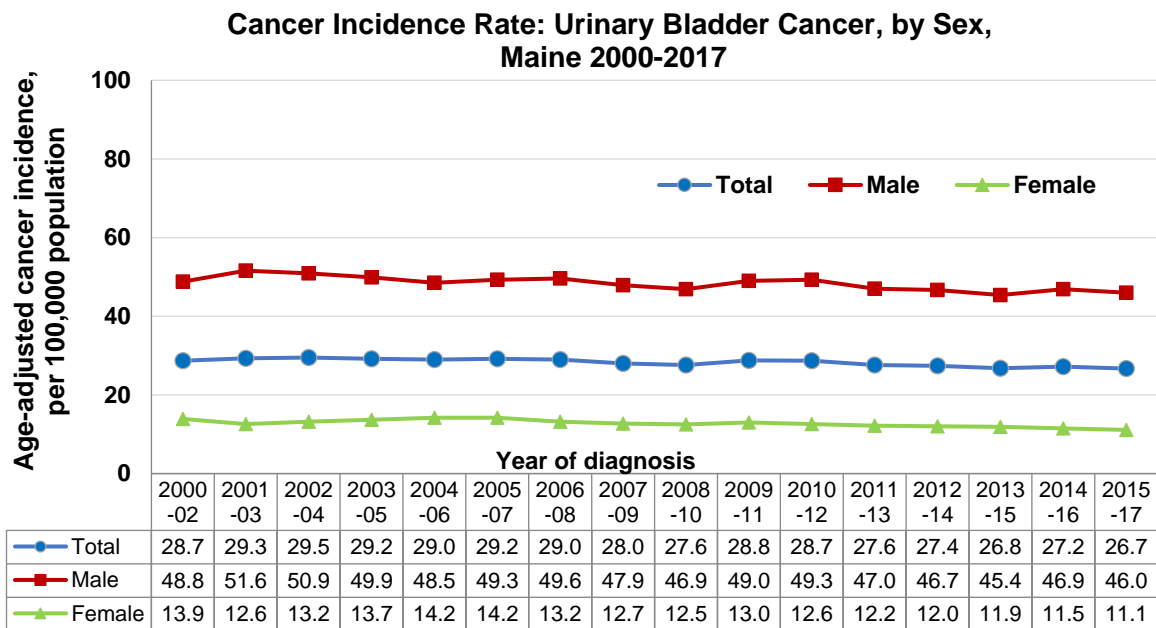
Data Source:

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission

Age-adjusted Incidence of Colon and Rectum Cancer, Maine 2000-2017



Age-adjusted Incidence of Urinary Bladder Cancer, Maine 2000-2017



Notes:

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

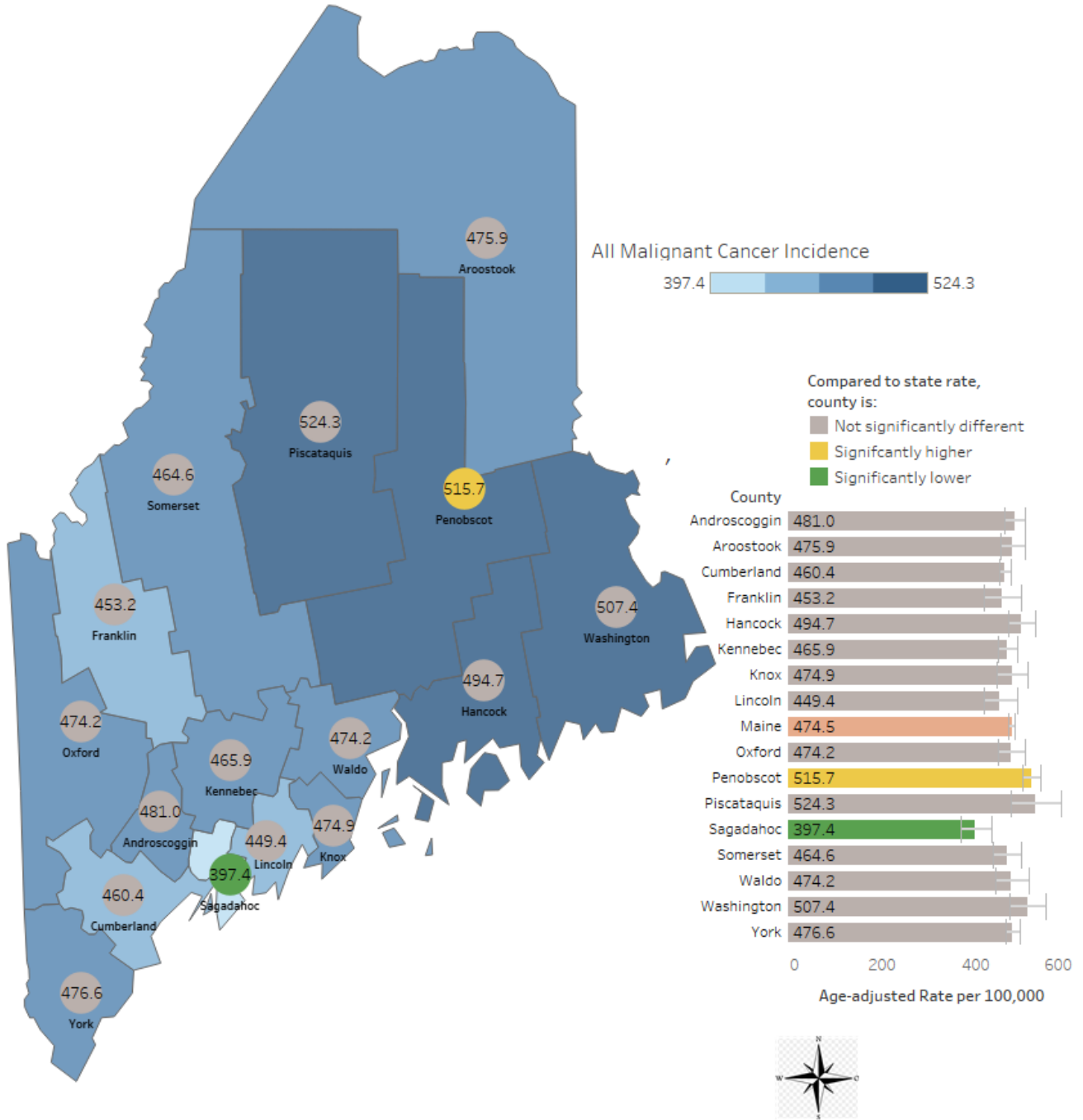
Data Source:

- Data Source: Maine Incidence: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission

CANCER INCIDENCE MAPS

All Malignant Cancer Incidence by County, Maine, 2015-2017

Age-adjusted Rate per 100,000 Population per Year

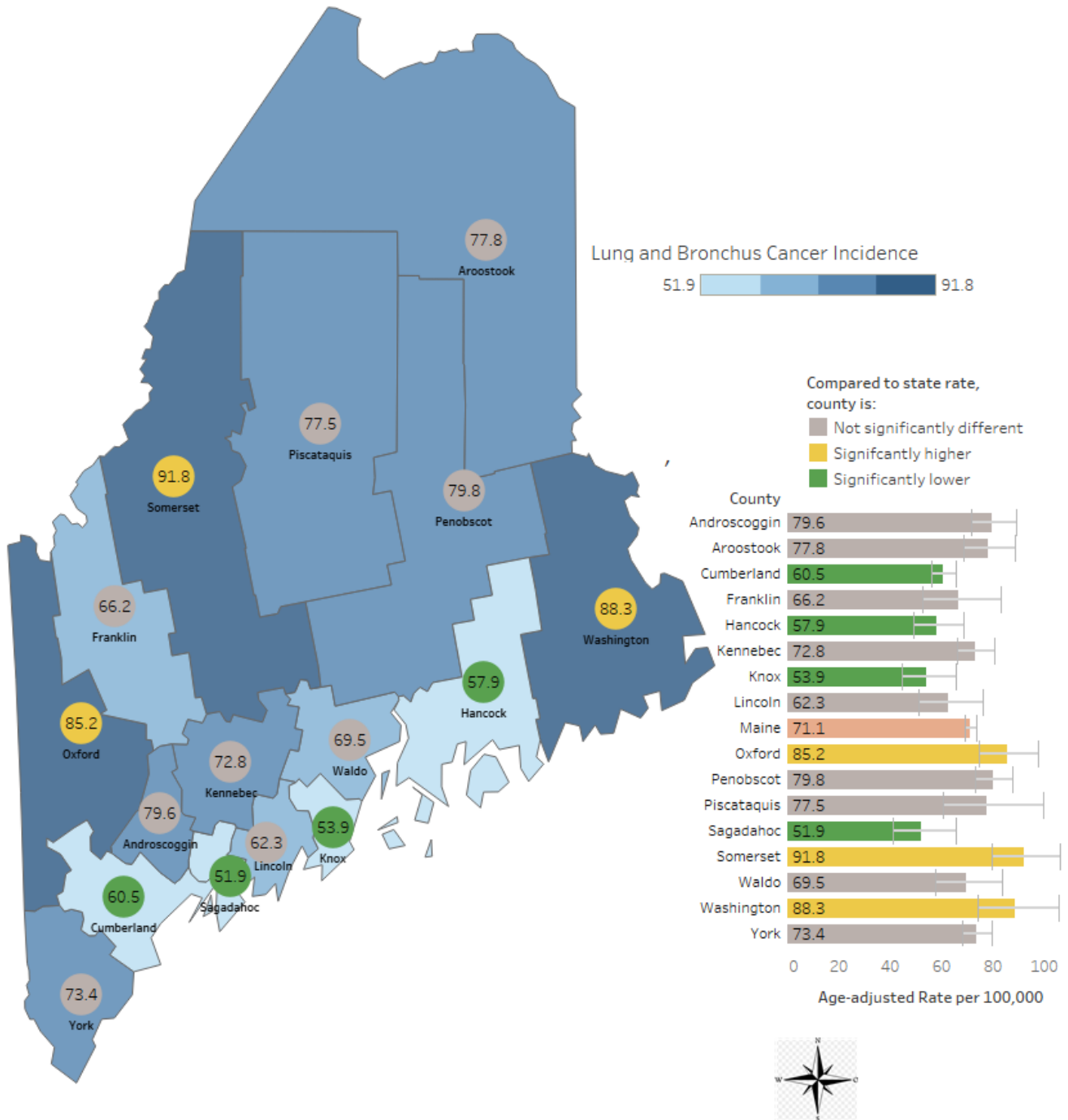


Data Source: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission.
 Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
 Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of All Malignant Cancer Incidence.



Lung and Bronchus Cancer Incidence by County, Maine, 2015-2017

Age-adjusted Rate per 100,000 Population per Year

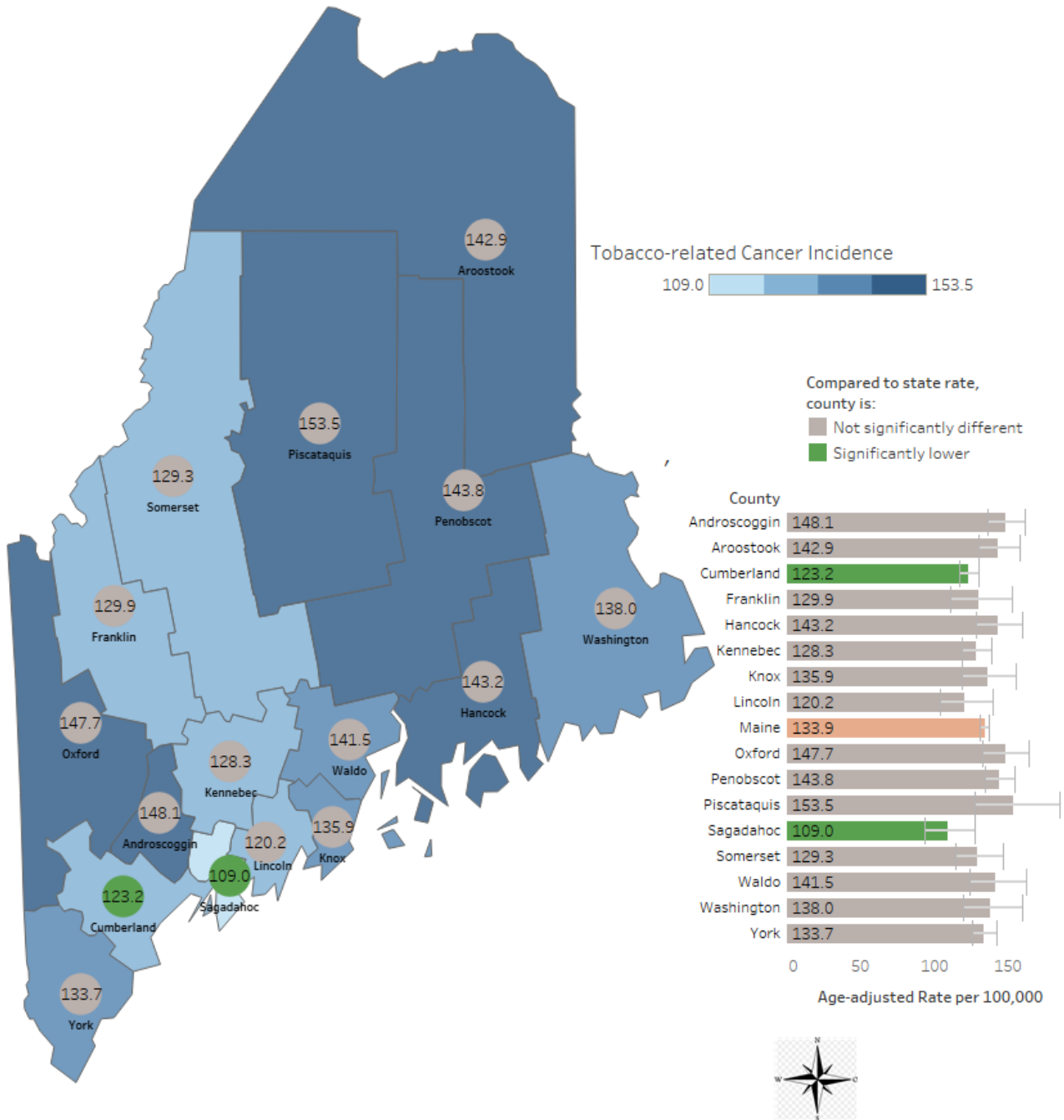


Data Source: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission. Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of Lung and Bronchus Cancer Incidence.



Tobacco-related Cancer Incidence by County, Maine, 2015-2017

Age-adjusted Rate per 100,000 Population per Year

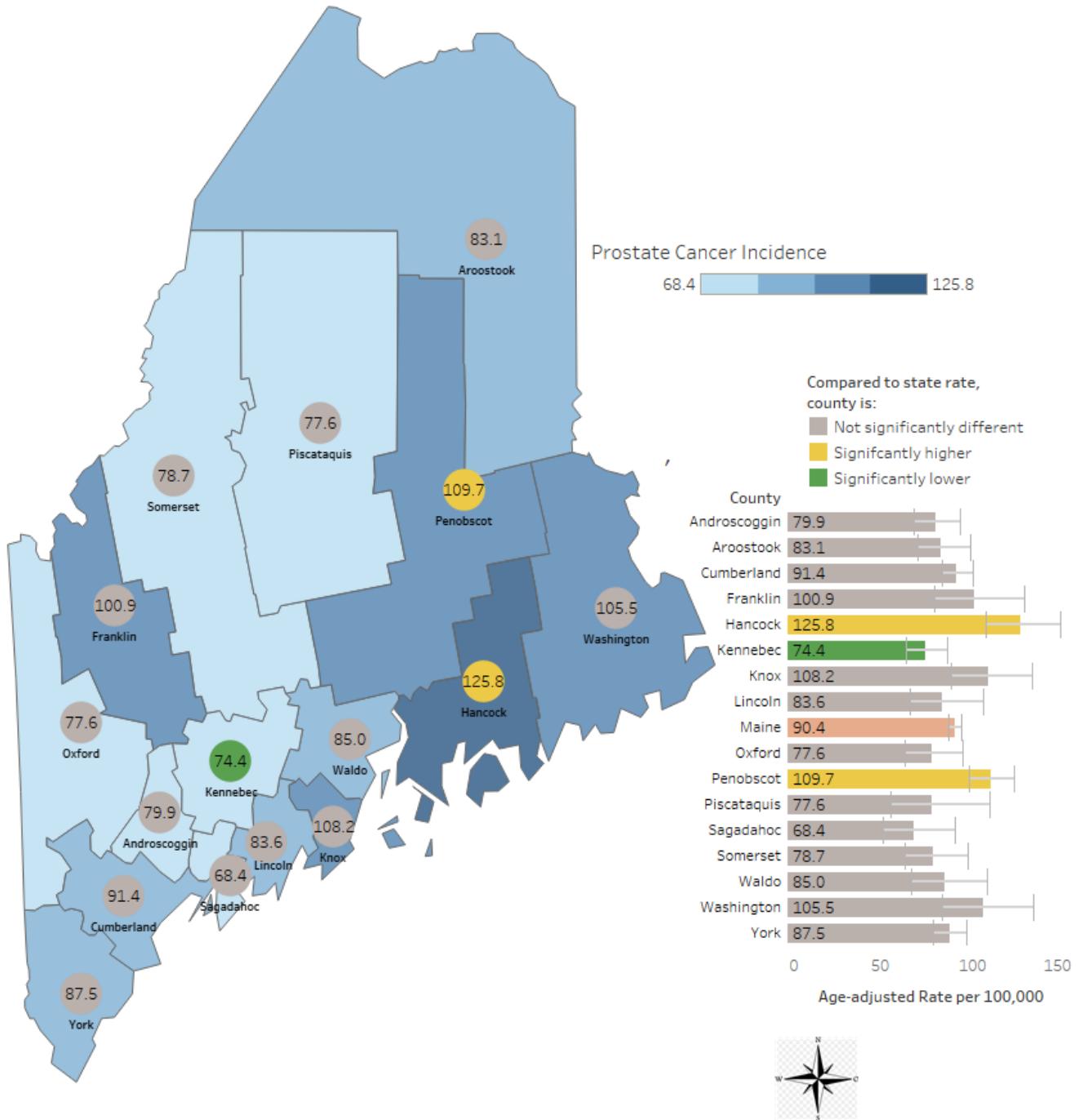


Data Source: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission. Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of Tobacco-related Cancer Incidence.



Prostate Cancer Incidence by County, Maine, 2015-2017

Age-adjusted Rate per 100,000 Population per Year

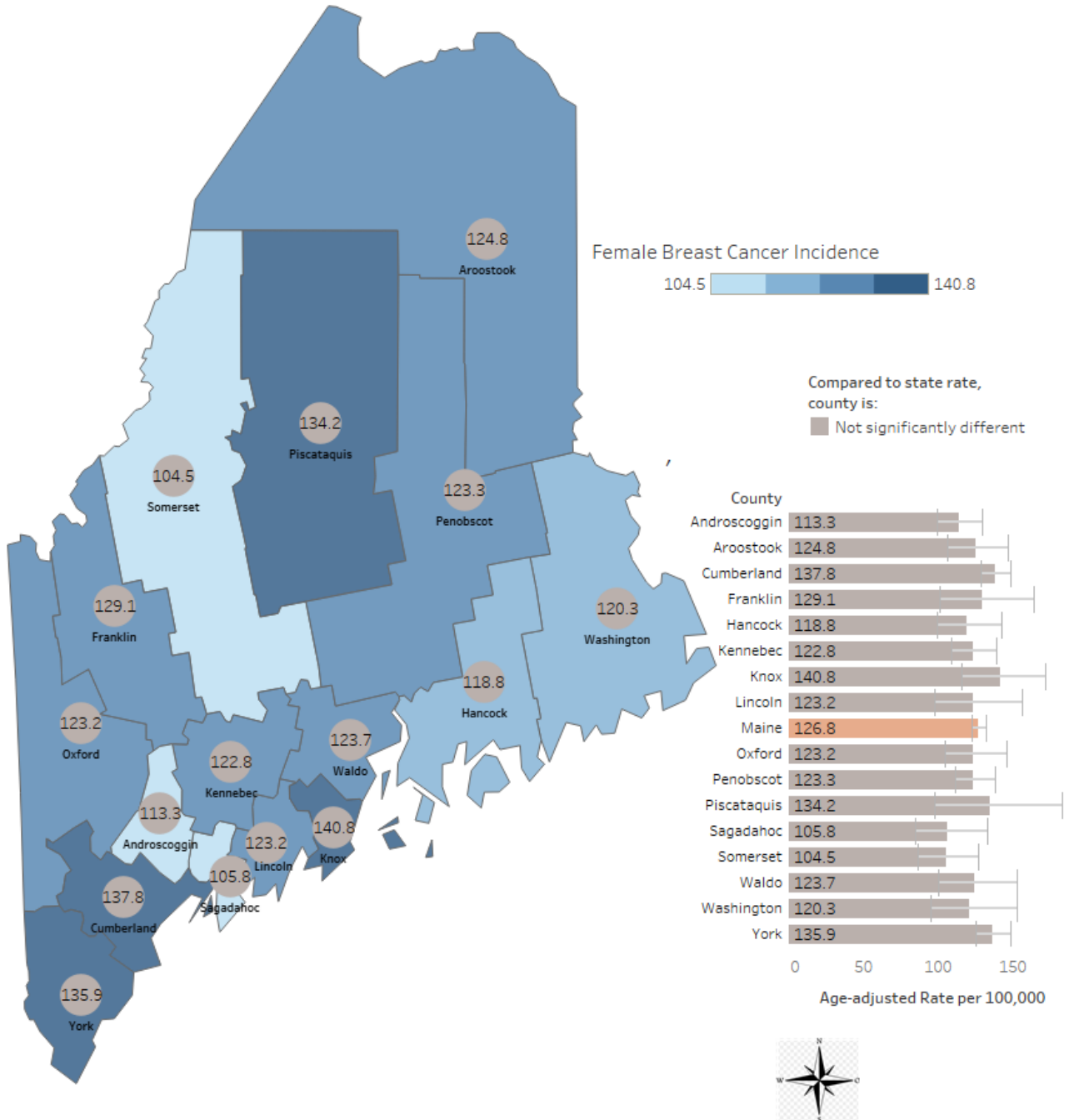


Data Source: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission. Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of Prostate Cancer Incidence.



Female Breast Cancer Incidence by County, Maine, 2015-2017

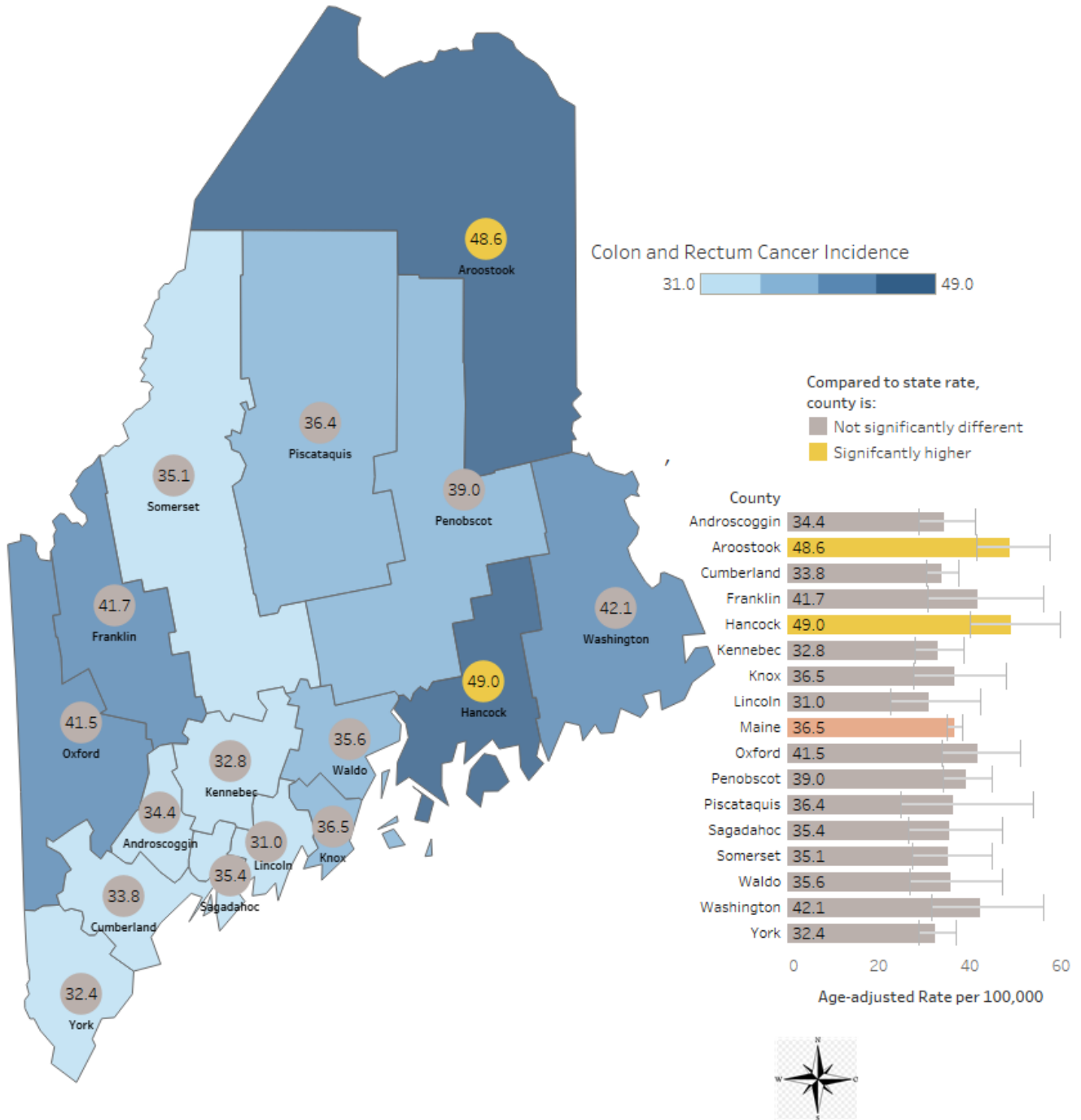
Age-adjusted Rate per 100,000 Population per Year



Data Source: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission. Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of Female Breast Cancer Incidence.

Colon and Rectum Cancer Incidence by County, Maine, 2015-2017

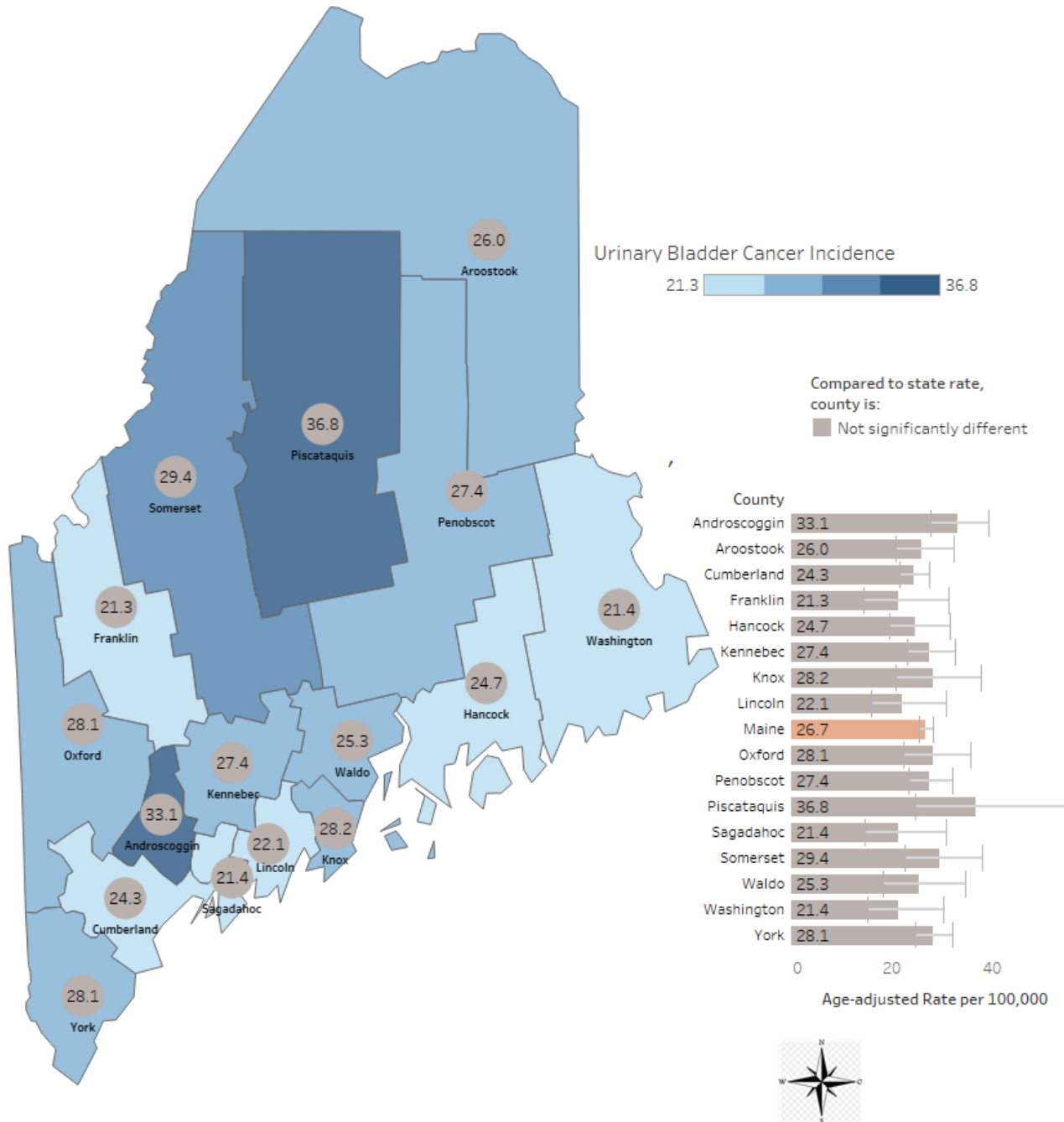
Age-adjusted Rate per 100,000 Population per Year



Data Source: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission. Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of Colon and Rectum Cancer Incidence.

Urinary Bladder Cancer Incidence by County, Maine, 2015-2017

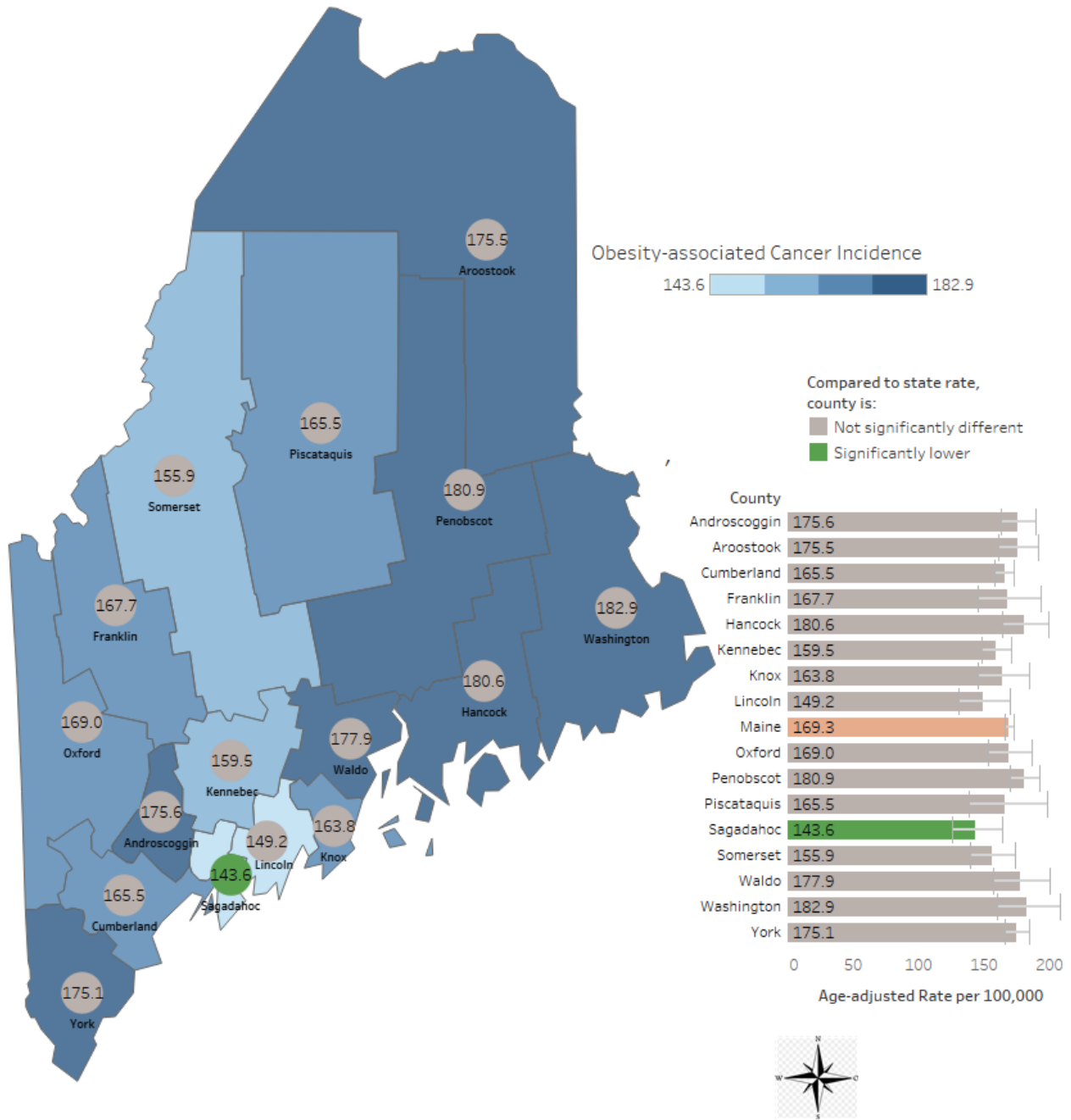
Age-adjusted Rate per 100,000 Population per Year



Data Source: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission. Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of Urinary Bladder Cancer Incidence.

Obesity-associated Cancer Incidence by County, Maine, 2015-2017

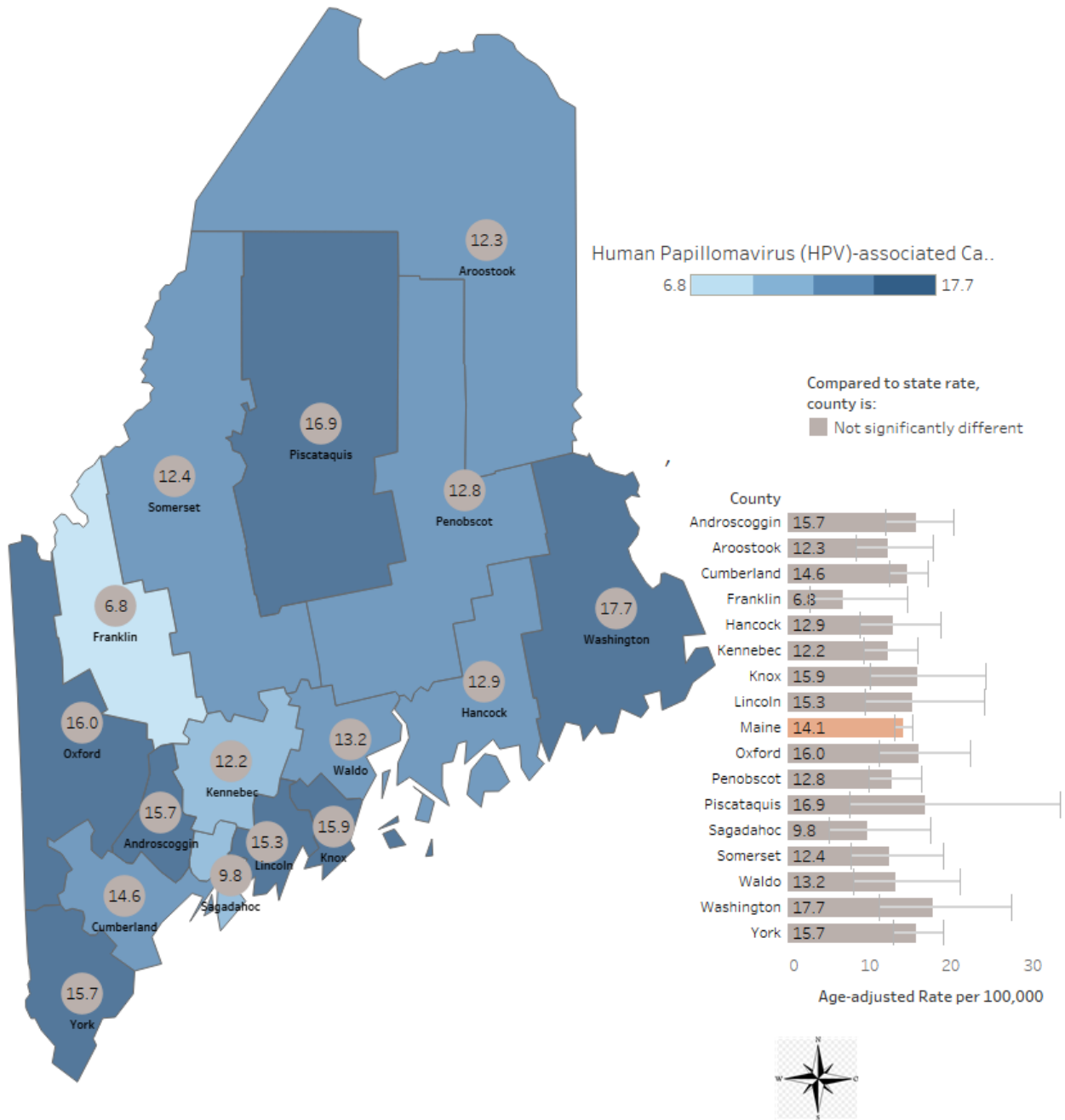
Age-adjusted Rate per 100,000 Population per Year



Data Source: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission. Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of Obesity-associated Cancer Incidence.

Human Papillomavirus (HPV)-associated Cancer by County, Maine, 2015-2017

Age-adjusted Rate per 100,000 Population per Year



Data Source: Maine CDC Cancer Registry, based on November 2019 NPCR-CSS data submission. Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population. Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of Human Papillomavirus (HPV)-associated Cancer.

CANCER MORTALITY

MORTALITY: STATE AND NATIONAL COMPARISONS

Age-adjusted Cancer Mortality Rate by Site, Maine 2017

	Total			
	Maine		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
All Malignant Cancers	170.1 (164.2 - 176.2)	3,382	153.7 (153.2 - 154.1)	152.5 (152.1 - 152.9)
Tobacco-related, Excluding Lung and Bronchus	51.5 (48.3 - 55.0)	1,026	51.1 (50.8 - 51.3)	51.4 (51.1 - 51.6)
Lung and Bronchus	44.9 (42.0 - 48.0)	920	37.5 (37.3 - 37.7)	36.6 (36.4 - 36.8)
Colon and Rectum	12.5 (10.9 - 14.3)	242	13.2 (13.1 - 13.4)	13.5 (13.4 - 13.6)
Female Breast	See page 47 for sex specific rates			
Prostate	See page 46 for sex specific rates			
Pancreas	11.8 (10.3 - 13.5)	240	11.1 (11.0 - 11.2)	11.1 (11.0 - 11.2)
Leukemia	6.9 (5.7 - 8.4)	128	6.5 (6.4 - 6.5)	6.1 (6.0 - 6.2)
Urinary Bladder	6.2 (5.1 - 7.5)	123	4.5 (4.4 - 4.6)	4.3 (4.2 - 4.3)
Non-Hodgkin Lymphoma	6.1 (5.0 - 7.4)	118	5.5 (5.5 - 5.6)	5.3 (5.2 - 5.4)
Liver & Intrahepatic Bile Duct	5.5 (4.5 - 6.7)	113	6.3 (6.2 - 6.4)	6.7 (6.6 - 6.8)
Esophagus	5.5 (4.5 - 6.8)	110	4.1 (4.0 - 4.2)	3.8 (3.8 - 3.9)
Brain and Other Nervous System	5.1 (4.1 - 6.4)	96	4.8 (4.7 - 4.9)	4.3 (4.3 - 4.4)
Kidney and Renal Pelvis	3.5 (2.7 - 4.6)	70	3.7 (3.6 - 3.7)	3.5 (3.5 - 3.6)
Myeloma	3.3 (2.6 - 4.4)	67	2.9 (2.9 - 3.0)	3.2 (3.1 - 3.2)
Acute Myeloid Leukemia	2.9 (2.1 - 3.9)	54	2.9 (2.8 - 3.0)	2.8 (2.7 - 2.8)
Oral cavity and pharynx	2.2 (1.6 - 3.1)	47	2.6 (2.5 - 2.6)	2.5 (2.5 - 2.6)
Melanoma of the Skin	2.4 (1.7 - 3.3)	46	2.4 (2.4 - 2.5)	2.1 (2.1 - 2.1)
Stomach	1.5 (1.0 - 2.3)	30	2.5 (2.5 - 2.6)	2.9 (2.8 - 2.9)
Larynx	1.2 (0.8 - 2.0)	24	0.9 (0.8 - 0.9)	0.9 (0.9 - 1.0)
Thyroid	0.4 (0.2 - 1.0)	8	0.5 (0.5 - 0.5)	0.5 (0.5 - 0.5)
Hodgkin Lymphoma	0.2 (0.1 - 0.8)	5	0.3 (0.3 - 0.3)	0.3 (0.2 - 0.3)
Ovary	See page 47 for sex specific rates			
Corpus Uteri	See page 47 for sex specific rates			
Cervix Uteri	See page 47 for sex specific rates			
Testis	See page 46 for sex specific rates			

Notes:

- A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Mortality case definitions are based on ICD-10 codes (See Appendix 3).
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.
- Cancer sites are ordered by descending Maine mortality counts.


Data Source:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.
- U.S. Mortality: Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2017 on CDC WONDER Online Database, released December 2018.
- U.S. Mortality for Tobacco-related cancer: SEER*Stat Database: Mortality - All COD, Aggregated With State, Total U.S. (1969-2017) <Katrina/Rita Population Adjustment>.

Age-adjusted Cancer Mortality Rates among Males by Site, Maine 2017

	Male			
	Maine		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
ALL MALIGNANT	205.1 (195.5 - 215.2)	1,818	181.9 (181.2 - 182.6)	181.1 (180.5 - 181.8)
Tobacco-related, excl. Lung, Bronchus and Trachea	71.4 (65.8 - 77.5)	639	68.7 (68.2 - 69.1)	68.9 (68.5 - 69.3)
Lung and Bronchus	52.8 (48.1 - 58.0)	491	44.6 (44.3 - 44.9)	44.3 (44.0 - 44.7)
Prostate	19.8 (16.9 - 23.3)	167	17.7 (17.4 - 17.9)	18.7 (18.5 - 19.0)
Colon and rectum	14.5 (12.0 - 17.6)	126	15.6 (15.4 - 15.8)	16.0 (15.8 - 16.2)
Pancreas	12.8 (10.5 - 15.7)	118	13.0 (12.8 - 13.1)	12.9 (12.7 - 13.0)
Esophagus	9.8 (7.8 - 12.3)	90	7.2 (7.1 - 7.4)	6.8 (6.6 - 6.9)
Urinary Bladder	10.3 (8.2 - 13.0)	87	7.7 (7.6 - 7.8)	7.2 (7.1 - 7.4)
Leukemia	10.4 (8.3 - 13.2)	85	8.5 (8.4 - 8.7)	8.1 (8.0 - 8.3)
Liver & Intrahepatic Bile Duct	8.2 (6.4 - 10.6)	77	9.1 (9.0 - 9.3)	9.8 (9.6 - 9.9)
Non-Hodgkin Lymphoma	8.4 (6.5 - 10.9)	69	7.2 (7.1 - 7.3)	6.9 (6.8 - 7.0)
Brain and Other Nervous System	6.1 (4.5 - 8.3)	52	5.8 (5.6 - 5.9)	5.3 (5.2 - 5.4)
Kidney and Renal Pelvis	5.8 (4.3 - 8.0)	51	5.3 (5.2 - 5.4)	5.1 (5.0 - 5.2)
Myeloma	5.0 (3.6 - 7.0)	42	3.8 (3.7 - 3.9)	4.0 (3.9 - 4.1)
Acute Myeloid Leukemia	4.5 (3.2 - 6.5)	38	3.8 (3.7 - 3.9)	3.6 (3.5 - 3.7)
Oral Cavity and Pharynx	3.6 (2.5 - 5.3)	35	4.0 (3.9 - 4.1)	4.0 (3.9 - 4.0)
Melanoma of the Skin	3.0 (1.9 - 4.6)	27	3.6 (3.5 - 3.7)	3.1 (3.0 - 3.2)
Stomach	2.2 (1.3 - 3.7)	20	3.4 (3.3 - 3.5)	3.8 (3.7 - 3.9)
Larynx	2.1 (1.3 - 3.6)	19	1.6 (1.5 - 1.6)	1.6 (1.6 - 1.7)
Thyroid	0.4 (0.1 - 1.5)	3	0.5 (0.5 - 0.6)	0.5 (0.5 - 0.5)
Hodgkin Lymphoma	0.3 (0.1 - 1.4)	3	0.3 (0.3 - 0.4)	0.3 (0.3 - 0.3)
Breast	0.2 (0.0 - 1.3)	2	0.3 (0.3 - 0.3)	0.3 (0.3 - 0.3)
Testis	0.1 (0.0 - 1.1)	1	0.3 (0.2 - 0.3)	0.3 (0.2 - 0.3)

Notes:

-  A shaded cell indicates that the Maine rate is significantly higher than the U.S. White rate.
- Mortality case definitions are based on ICD-10 codes (See Appendix 3).
- Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population
- Abbreviations: AA = Age-adjusted; CI = Confidence Interval.
- Tobacco-related cancers excluding lung and bronchus defined as cancers of the oral cavity and pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, cervix uteri, urinary bladder, kidney and renal pelvis, and acute myeloid leukemia.

Data Source:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.
- U.S. Mortality: Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2017 on CDC WONDER Online Database, released December 2018.
- U.S. Mortality for Tobacco-related cancer: SEER*Stat Database: Mortality - All COD, Aggregated With State, Total U.S. (1969-2017) <Katrina/Rita Population Adjustment>.

Age-adjusted Cancer Mortality Rates among Females by Site, Maine 2017

	Female			
	Maine		U.S.	
	AA Rate (95% CI)	Count	U.S. Whites	U.S. All Races
ALL MALIGNANT	144.1 (136.8 - 151.9)	1,564	132.5 (131.9 - 133.0)	131.4 (130.9 - 131.9)
Lung and Bronchus	38.8 (35.1 - 42.9)	429	32.0 (31.7 - 32.0)	30.6 (30.4 - 30.8)
Tobacco-related, excl. Lung and Bronchus	34.9 (31.5 - 38.9)	387	36.7 (36.4 - 37.0)	37.3 (37.1 - 37.6)
Breast	18.5 (15.8 - 21.8)	185	19.4 (19.2 - 19.6)	19.9 (19.7 - 20.1)
Pancreas	10.7 (8.9 - 13.1)	122	9.5 (9.4 - 9.7)	9.6 (9.4 - 9.7)
Colon and rectum	10.6 (8.7 - 13.1)	116	11.2 (11.1 - 11.4)	11.4 (11.2 - 11.5)
Ovary	7.5 (5.9 - 9.6)	81	6.9 (6.7 - 7.0)	6.6 (6.5 - 6.7)
Corpus Uteri, Uterus NOS	5.4 (4.1 - 7.2)	62	4.7 (4.6 - 4.8)	5.0 (4.9 - 5.1)
Non-Hodgkin Lymphoma	4.3 (3.1 - 5.9)	49	4.2 (4.1 - 4.3)	4.0 (3.9 - 4.1)
Brain and Other Nervous System	4.2 (3.0 - 6.0)	44	3.9 (3.8 - 4.0)	3.6 (3.5 - 3.7)
Leukemia	4.1 (2.9 - 5.8)	43	4.8 (4.7 - 4.9)	4.6 (4.5 - 4.7)
Urinary Bladder	3.2 (2.2 - 4.8)	36	2.2 (2.1 - 2.2)	2.1 (2.1 - 2.2)
Liver & Intrahepatic Bile Duct	3.3 (2.3 - 4.9)	36	3.9 (3.8 - 4.0)	4.1 (4.0 - 4.2)
Myeloma	2.2 (1.4 - 3.5)	25	2.2 (2.2 - 2.3)	2.5 (2.4 - 2.6)
Esophagus	1.9 (1.2 - 3.3)	20	1.4 (1.3 - 1.4)	1.4 (1.3 - 1.4)
Kidney and Renal Pelvis	1.7 (1.0 - 3.0)	19	2.3 (2.3 - 2.4)	2.2 (2.2 - 2.3)
Melanoma of the Skin	2.0 (1.1 - 3.5)	19	1.5 (1.4 - 1.6)	1.3 (1.2 - 1.3)
Acute Myeloid Leukemia	1.5 (0.9 - 2.9)	16	2.2 (2.1 - 2.3)	2.1 (2.1 - 2.2)
Cervix Uteri	1.5 (0.8 - 2.8)	15	2.1 (2.0 - 2.2)	2.2 (2.1 - 2.3)
Oral Cavity and Pharynx	1.0 (0.5 - 2.1)	12	1.4 (1.3 - 1.4)	1.3 (1.3 - 1.4)
Stomach	0.9 (0.4 - 2.1)	10	1.9 (1.8 - 1.9)	2.1 (2.1 - 2.2)
Thyroid	0.4 (0.1 - 1.4)	5	0.5 (0.4 - 0.5)	0.5 (0.4 - 0.5)
Larynx	0.5 (0.1 - 1.5)	5	0.3 (0.3 - 0.4)	0.3 (0.3 - 0.4)
Hodgkin Lymphoma	0.2 (0.0 - 1.2)	2	0.2 (0.2 - 0.3)	0.2 (0.2 - 0.2)

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.

Data Source:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.
- U.S. Mortality: Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2017 on CDC WONDER Online Database, released December 2018.
- U.S. Mortality for Tobacco-related cancer: SEER*Stat Database: Mortality - All COD, Aggregated With State, Total U.S. (1969-2017) <Katrina/Rita Population Adjustment>.

All Cancers: Mortality by County of Residence, Maine 2013-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	175.4 (165.5 - 185.9)	242	198.0 (182.2 - 215.2)	121	158.2 (145.5 - 171.9)	121
Aroostook	171.8 (160.7 - 183.8)	191	206.8 (188.6 - 226.7)	102	145.8 (131.7 - 161.6)	88
Cumberland	158.4 (152.6 - 164.3)	608	191.6 (181.9 - 201.7)	310	136.9 (129.8 - 144.4)	298
Franklin	171.2 (153.9 - 190.5)	76	205.6 (178.4 - 237.2)	44	143.0 (121.1 - 169.1)	32
Hancock	164.3 (152.2 - 177.5)	146	197.1 (177.1 - 219.4)	78	137.4 (122.6 - 154.2)	68
Kennebec	183.7 (174.5 - 193.4)	315	228.5 (213.2 - 245.0)	174	148.5 (137.5 - 160.5)	140
Knox	170.5 (156.1 - 186.3)	114	204.2 (181.5 - 230.1)	62	145.8 (127.4 - 167.3)	52
Lincoln	157.4 (143.3 - 173.3)	99	189.2 (166.6 - 215.5)	54	132.0 (114.3 - 153.3)	45
Oxford	184.3 (171.3 - 198.3)	159	228.4 (207.2 - 251.9)	91	149.8 (133.7 - 168.0)	68
Penobscot	172.8 (164.7 - 181.3)	355	207.3 (194.0 - 221.4)	190	147.4 (137.2 - 158.3)	165
Piscataquis	203.9 (180.8 - 230.6)	61	243.1 (206.1 - 287.7)	34	171.0 (142.6 - 206.7)	27
Sagadahoc	174.4 (158.5 - 191.9)	93	203.5 (177.8 - 233.1)	47	153.5 (133.7 - 176.6)	45
Somerset	199.2 (184.6 - 215.0)	146	222.2 (199.6 - 247.4)	76	180.4 (161.5 - 201.7)	70
Waldo	164.2 (149.1 - 180.9)	94	188.1 (163.9 - 215.7)	48	148.5 (129.2 - 171.0)	46
Washington	204.9 (187.3 - 224.5)	107	259.8 (230.5 - 293.2)	61	161.7 (140.3 - 186.9)	45
York	170.3 (163.5 - 177.5)	488	201.5 (190.3 - 213.4)	254	147.1 (138.5 - 156.2)	234
Maine	172.0 (169.4 - 174.8)	3,295	205.9 (201.5 - 210.4)	1,750	146.9 (143.5 - 150.3)	1,545

All Cancers: Mortality by Public Health District of Residence, Maine 2013-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	171.8 (160.6 - 183.9)	191	206.8 (188.6 - 226.7)	102	145.8 (131.7 - 161.6)	88
Central	188.3 (180.5 - 196.5)	461	226.3 (213.5 - 239.8)	250	158.1 (148.5 - 168.4)	210
Cumberland	158.4 (152.7 - 164.3)	608	191.6 (181.9 - 201.7)	310	136.9 (129.8 - 144.4)	298
Downeast	179.0 (168.9 - 189.8)	252	220.5 (203.8 - 238.8)	140	145.7 (133.5 - 159.3)	113
Midcoast	166.1 (158.6 - 174.0)	400	195.4 (183.5 - 208.2)	212	144.4 (134.9 - 154.7)	188
Penquis	176.7 (169.0 - 184.8)	419	211.8 (199.3 - 225.1)	224	150.3 (140.7 - 160.7)	192
Western	177.3 (170.1 - 184.9)	474	208.7 (197.1 - 221.0)	256	152.7 (143.6 - 162.5)	221
York	170.3 (163.5 - 177.5)	488	201.5 (190.3 - 213.4)	254	147.1 (138.5 - 156.2)	234
Maine	172.0 (169.4 - 174.8)	3,295	205.9 (201.5 - 210.4)	1,750	146.9 (143.5 - 150.3)	1,545

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:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.

Lung and Bronchus Cancer: Mortality by County of Residence, Maine 2013-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	54.3 (48.9 - 60.4)	76	62.6 (54.0 - 72.5)	40	46.7 (40.0 - 54.6)	35
Aroostook	51.8 (45.9 - 58.5)	59	61.3 (51.9 - 72.6)	32	44.4 (37.1 - 53.5)	27
Cumberland	41.3 (38.4 - 44.4)	159	51.2 (46.3 - 56.6)	84	34.7 (31.2 - 38.6)	75
Franklin	46.6 (37.9 - 57.4)	21	54.2 (40.9 - 72.3)	12	40.1 (29.2 - 55.4)	9
Hancock	47.0 (40.7 - 54.5)	42	53.6 (43.6 - 66.0)	22	41.3 (33.4 - 51.5)	20
Kennebec	49.9 (45.3 - 55.1)	87	62.9 (55.2 - 71.8)	51	39.0 (33.4 - 45.5)	37
Knox	46.3 (39.1 - 55.0)	32	53.6 (42.4 - 68.1)	17	41.3 (32.1 - 53.7)	15
Lincoln	38.7 (31.6 - 47.7)	23	43.1 (32.2 - 58.2)	12	34.6 (25.8 - 47.3)	11
Oxford	60.7 (53.5 - 69.0)	54	75.9 (64.1 - 89.9)	32	48.0 (39.4 - 58.9)	22
Penobscot	53.3 (48.8 - 58.1)	110	65.7 (58.4 - 73.9)	62	44.1 (38.5 - 50.4)	48
Piscataquis	51.3 (40.6 - 65.8)	16	54.5 (38.7 - 78.6)	8	50.2 (35.8 - 72.7)	8
Sagadahoc	47.6 (39.5 - 57.4)	26	59.3 (46.0 - 76.6)	14	38.3 (28.9 - 51.4)	11
Somerset	60.5 (52.7 - 69.6)	45	75.0 (62.3 - 90.4)	26	48.5 (39.0 - 60.5)	19
Waldo	43.2 (35.8 - 52.2)	26	58.0 (45.1 - 74.6)	15	33.1 (24.5 - 45.1)	11
Washington	63.2 (53.6 - 74.6)	34	74.3 (59.3 - 93.5)	18	54.5 (42.5 - 70.6)	15
York	48.0 (44.5 - 51.8)	141	58.0 (52.2 - 64.5)	76	40.1 (35.8 - 45.0)	65
Maine	48.8 (47.4 - 50.3)	950	59.2 (56.9 - 61.6)	520	40.8 (39.0 - 42.6)	430

Lung and Bronchus Cancer: Mortality by Public Health District of Residence, Maine 2013-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	51.8 (45.9 - 58.5)	59	61.3 (51.9 - 72.6)	159	44.4 (37.1 - 53.5)	27
Central	53.1 (49.1 - 57.5)	132	66.5 (59.9 - 74.0)	385	41.9 (37.0 - 47.5)	55
Cumberland	41.3 (38.4 - 44.4)	159	51.2 (46.3 - 56.6)	418	34.7 (31.2 - 38.6)	75
Downeast	52.8 (47.4 - 58.8)	75	61.3 (52.8 - 71.3)	202	45.7 (39.0 - 53.9)	35
Midcoast	43.5 (39.7 - 47.6)	106	52.4 (46.3 - 59.3)	288	36.8 (32.2 - 42.3)	49
Penquis	53.1 (49.0 - 57.6)	126	64.2 (57.5 - 71.7)	349	44.9 (39.7 - 50.8)	57
Western	54.9 (51.0 - 59.2)	151	65.2 (59.0 - 72.2)	418	45.9 (41.0 - 51.4)	67
York	48.0 (44.5 - 51.8)	141	58.0 (52.2 - 64.5)	382	40.1 (35.8 - 45.0)	65
Maine	48.8 (47.4 - 50.3)	950	59.2 (56.9 - 61.6)	520	40.8 (39.0 - 42.6)	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:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.

Tobacco-related Cancers, Excluding Lung and Bronchus: Mortality by County of Residence, Maine 2013-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	53.9 (48.5 - 60.0)	75	70.0 (60.7 - 80.6)	43	41.1 (34.8 - 48.5)	32
Aroostook	50.7 (44.9 - 57.4)	58	69.6 (59.3 - 81.7)	35	35.4 (29.0 - 43.5)	23
Cumberland	49.2 (46.0 - 52.6)	190	65.4 (59.9 - 71.4)	108	37.1 (33.4 - 41.1)	81
Franklin	46.1 (37.4 - 57.0)	21	69.8 (54.5 - 89.7)	15	25.4 (16.6 - 38.9)	6
Hancock	50.5 (43.8 - 58.3)	45	65.4 (54.1 - 79.1)	26	37.6 (30.0 - 47.5)	19
Kennebec	58.4 (53.4 - 64.0)	101	77.1 (68.3 - 86.9)	59	43.3 (37.5 - 50.1)	41
Knox	48.9 (41.4 - 57.8)	33	75.0 (61.5 - 91.9)	23	27.1 (20.0 - 37.6)	10
Lincoln	48.3 (40.8 - 57.6)	32	70.0 (57.0 - 86.8)	21	30.6 (22.4 - 42.8)	11
Oxford	58.6 (51.4 - 66.9)	51	83.2 (70.6 - 98.2)	33	37.4 (29.7 - 47.3)	17
Penobscot	49.4 (45.1 - 54.1)	102	68.2 (60.6 - 76.6)	63	34.0 (29.3 - 39.5)	39
Piscataquis	65.8 (53.2 - 82.2)	20	89.2 (68.0 - 118.4)	13	44.5 (30.7 - 66.5)	7
Sagadahoc	40.5 (33.1 - 49.8)	22	53.7 (40.9 - 70.4)	13	30.0 (21.8 - 41.8)	9
Somerset	57.8 (50.2 - 66.7)	43	69.0 (56.9 - 83.7)	25	47.5 (38.1 - 59.4)	19
Waldo	51.4 (43.1 - 61.4)	29	67.6 (53.5 - 85.3)	17	37.3 (28.2 - 49.7)	12
Washington	58.6 (49.5 - 69.6)	31	86.7 (70.4 - 107.2)	21	34.7 (25.6 - 48.0)	10
York	52.6 (48.8 - 56.7)	152	67.1 (60.8 - 74.1)	87	40.7 (36.3 - 45.7)	65
Maine	52.0 (50.6 - 53.5)	1,004	69.9 (67.3 - 72.5)	603	37.5 (35.8 - 39.2)	401

Tobacco-related Cancers, Excluding Lung and Bronchus: Mortality by Public Health District of Residence, Maine 2013-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	50.7 (44.9 - 57.4)	58	69.6 (59.3 - 81.7)	35	35.4 (29.0 - 43.5)	23
Central	58.3 (54.0 - 62.9)	144	74.6 (67.4 - 82.6)	84	44.6 (39.5 - 50.3)	60
Cumberland	49.2 (46.0 - 52.6)	190	65.4 (59.9 - 71.4)	108	37.1 (33.4 - 41.1)	81
Downeast	53.4 (48.0 - 59.5)	76	73.4 (63.9 - 84.3)	47	36.5 (30.5 - 43.9)	29
Midcoast	47.5 (43.6 - 51.8)	116	67.3 (60.4 - 75.1)	74	31.0 (26.8 - 36.0)	42
Penquis	51.5 (47.4 - 55.9)	122	71.1 (63.9 - 79.0)	76	35.2 (30.7 - 40.4)	46
Western	54.1 (50.2 - 58.4)	146	74.0 (67.2 - 81.5)	91	37.4 (33.0 - 42.5)	55
York	52.6 (48.8 - 56.7)	152	67.1 (60.8 - 74.1)	87	40.7 (36.3 - 45.7)	65
Maine	52.0 (50.6 - 53.5)	1,004	69.9 (67.3 - 72.5)	603	37.5 (35.8 - 39.2)	401

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:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.


Prostate Cancer: Mortality by County of Residence, Maine 2013-2017

	Male	
	AA Rate (95% CI)	Count/Yr
Androscoggin	12.8 (8.9 - 18.1)	7
Aroostook	20.3 (14.9 - 27.7)	10
Cumberland	19.3 (16.2 - 22.8)	29
Franklin	23.4 (14.7 - 37.2)	5
Hancock	23.3 (16.7 - 32.5)	9
Kennebec	23.6 (18.7 - 29.7)	17
Knox	21.7 (14.8 - 32.1)	7
Lincoln	19.2 (12.5 - 30.1)	5
Oxford	14.7 (9.6 - 22.4)	5
Penobscot	17.8 (13.9 - 22.6)	15
Piscataquis	22.2 (12.3 - 41.6)	3
Sagadahoc	35.1 (24.7 - 49.7)	8
Somerset	18.9 (12.6 - 28.3)	6
Waldo	17.7 (10.6 - 28.7)	4
Washington	29.7 (20.2 - 43.9)	6
York	22.3 (18.6 - 26.7)	26
Maine	20.5 (19.0 - 22.0)	161

Prostate Cancer: Mortality by Public Health District of Residence, Maine 2013-2017

	Male	
	AA Rate (95% CI)	Count/Yr
Aroostook	20.3 (14.9 - 27.7)	10
Central	22.2 (18.2 - 27.0)	23
Cumberland	19.3 (16.2 - 22.8)	29
Downeast	25.7 (20.1 - 33.0)	15
Midcoast	22.9 (18.9 - 27.7)	24
Penquis	18.4 (14.7 - 22.9)	18
Western	15.2 (12.2 - 19.1)	17
York	22.3 (18.6 - 26.7)	26
Maine	20.5 (19.0 - 22.0)	161

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:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.

Female Breast Cancer: Mortality by County of Residence, Maine 2013-2017

	Female	
	AA Rate (95% CI)	Count/Yr
Androscoggin	17.6 (13.5 - 22.8)	13
Aroostook	18.9 (13.8 - 26.0)	11
Cumberland	18.2 (15.7 - 21.2)	39
Franklin	22.4 (14.5 - 35.0)	5
Hancock	15.4 (10.7 - 22.7)	7
Kennebec	19.1 (15.2 - 24.0)	18
Knox	28.9 (20.4 - 41.0)	9
Lincoln	17.7 (11.3 - 28.4)	6
Oxford	15.8 (10.6 - 23.5)	7
Penobscot	19 (15.4 - 23.4)	21
Piscataquis	15.3 (7.8 - 32.3)	2
Sagadahoc	19.5 (12.6 - 30.4)	5
Somerset	20.3 (14.2 - 29.0)	8
Waldo	14.7 (8.7 - 24.6)	4
Washington	17.5 (10.7 - 28.9)	5
York	19.1 (16.0 - 22.8)	30
Maine	18.6 (17.4 - 19.9)	190

Female Breast Cancer: Mortality by Public Health District of Residence, Maine 2013-2017

	Female	
	AA Rate (95% CI)	Count/Yr
Aroostook	18.9 (13.8 - 26.0)	11
Central	19.5 (16.2 - 23.6)	26
Cumberland	18.2 (15.7 - 21.2)	39
Downeast	16.1 (12.1 - 21.7)	12
Midcoast	20.5 (16.7 - 25.1)	24
Penquis	18.6 (15.2 - 22.6)	23
Western	17.7 (14.7 - 21.5)	25
York	19.1 (16.0 - 22.8)	30
Maine	18.6 (17.4 - 19.9)	190

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:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.

Colon and Rectum Cancer: Mortality by County of Residence, Maine 2013-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Androscoggin	11.1 (8.6 - 14.1)	15	11.8 (8.1 - 16.9)	7	10.4 (7.3 - 14.8)	8
Aroostook	12.6 (9.9 - 16.3)	15	12.4 (8.3 - 18.5)	6	12.8 (9.1 - 18.4)	8
Cumberland	11.1 (9.6 - 12.9)	41	11.6 (9.3 - 14.5)	18	10.7 (8.7 - 13.1)	23
Franklin	11.6 (7.5 - 18.1)	5	19.4 (11.7 - 32.3)	4	5.0 (1.8 - 13.7)	1
Hancock	16.8 (12.9 - 21.8)	14	19.5 (13.2 - 28.5)	7	14.0 (9.6 - 20.9)	7
Kennebec	14.0 (11.5 - 16.9)	24	16.7 (12.6 - 21.9)	12	12.2 (9.2 - 16.2)	12
Knox	9.7 (6.7 - 14.3)	7	12.5 (7.4 - 21.3)	4	7.1 (4.0 - 14.0)	3
Lincoln	14.0 (10.2 - 19.9)	9	19.6 (12.9 - 30.5)	6	10.5 (6.0 - 19.6)	4
Oxford	15.6 (12.0 - 20.4)	13	19.2 (13.2 - 27.8)	7	12.8 (8.6 - 19.4)	6
Penobscot	13.0 (10.8 - 15.6)	26	13.5 (10.2 - 17.8)	12	12.5 (9.7 - 16.1)	14
Piscataquis	15.5 (9.5 - 26.1)	5	18.5 (9.3 - 37.6)	3	11.8 (5.3 - 28.2)	2
Sagadahoc	12.1 (8.3 - 18.0)	7	14.6 (8.1 - 25.6)	3	10.1 (5.9 - 18.4)	3
Somerset	13.4 (9.7 - 18.3)	10	13.0 (8.1 - 20.9)	5	13.1 (8.3 - 20.7)	5
Waldo	13.8 (9.7 - 19.7)	8	18.0 (11.0 - 29.0)	4	11.1 (6.4 - 19.7)	3
Washington	18.5 (13.6 - 25.4)	10	25.3 (16.8 - 38.3)	6	12.1 (7.2 - 21.5)	4
York	12.4 (10.6 - 14.6)	35	14.0 (11.1 - 17.6)	17	11.0 (8.7 - 13.9)	17
Maine	12.9 (12.1 - 13.6)	243	14.7 (13.5 - 16.0)	122	11.3 (10.4 - 12.3)	121

Colon and Rectum Cancer: Mortality by Public Health District of Residence, Maine 2013-2017

	Total		Male		Female	
	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr	AA Rate (95% CI)	Count/Yr
Aroostook	12.6 (9.9 - 16.3)	15	12.4 (8.3 - 18.5)	6	12.8 (9.1 - 18.4)	8
Central	13.8 (11.8 - 16.3)	34	15.7 (12.4 - 19.8)	17	12.5 (9.9 - 15.8)	17
Cumberland	11.1 (9.6 - 12.9)	41	11.6 (9.3 - 14.5)	18	10.7 (8.7 - 13.1)	23
Downeast	17.4 (14.3 - 21.2)	24	21.7 (16.5 - 28.5)	13	13.3 (9.9 - 18.2)	11
Midcoast	12.2 (10.3 - 14.5)	31	15.8 (12.5 - 19.9)	17	9.6 (7.4 - 12.7)	14
Penquis	13.3 (11.2 - 15.7)	31	14.2 (11.1 - 18.2)	15	12.3 (9.7 - 15.7)	16
Western	12.6 (10.7 - 14.8)	33	15.4 (12.3 - 19.2)	18	10.3 (8.1 - 13.3)	15
York	12.4 (10.6 - 14.6)	35	14.0 (11.1 - 17.6)	17	11.0 (8.7 - 13.9)	17
Maine	12.9 (12.1 - 13.6)	243	14.7 (13.5 - 16.0)	122	11.3 (10.4 - 12.3)	121

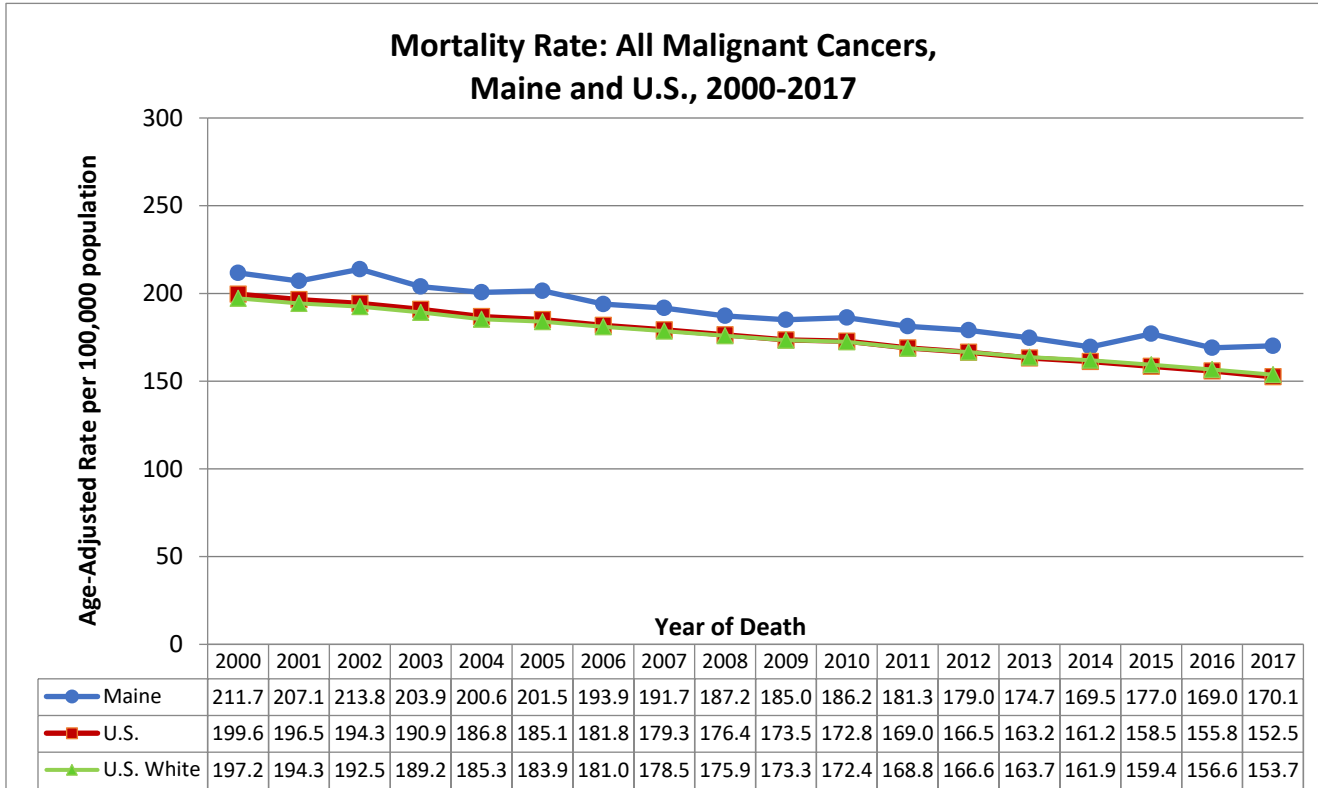
Notes:

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- 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.

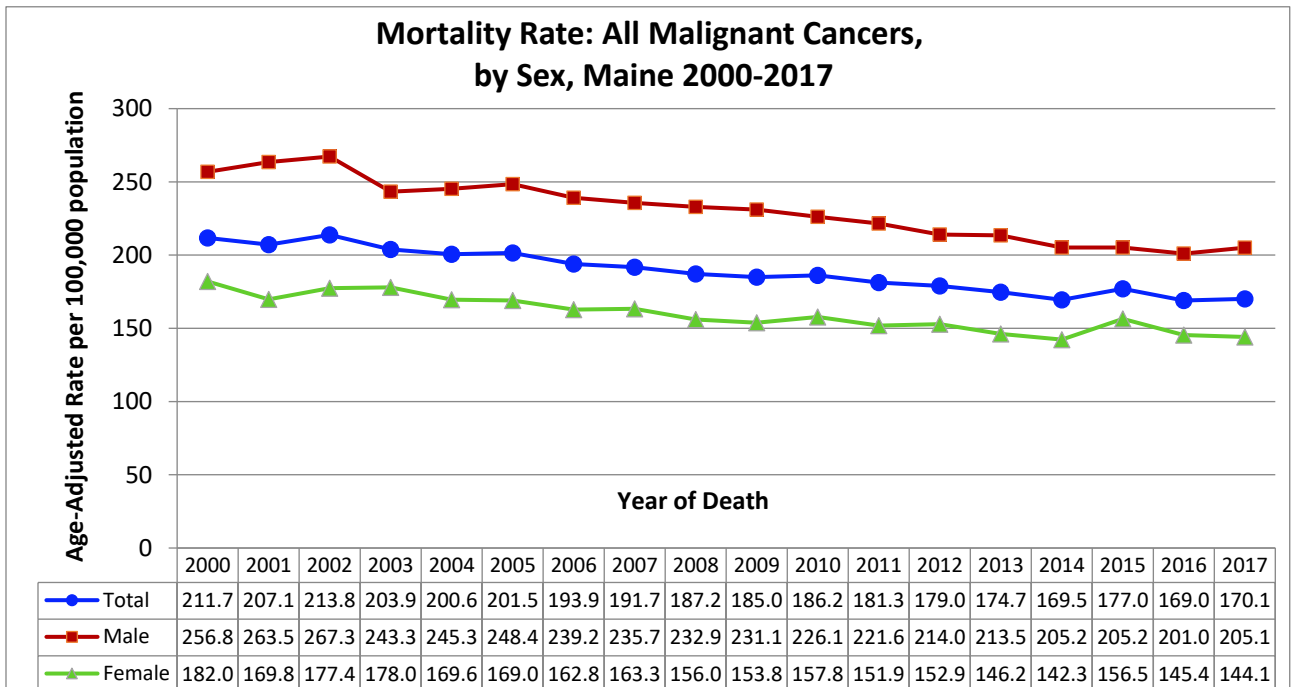
Data Source:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.

Age-adjusted Cancer Mortality Trend: All Malignant Cancers, U.S. and Maine 2000-2017



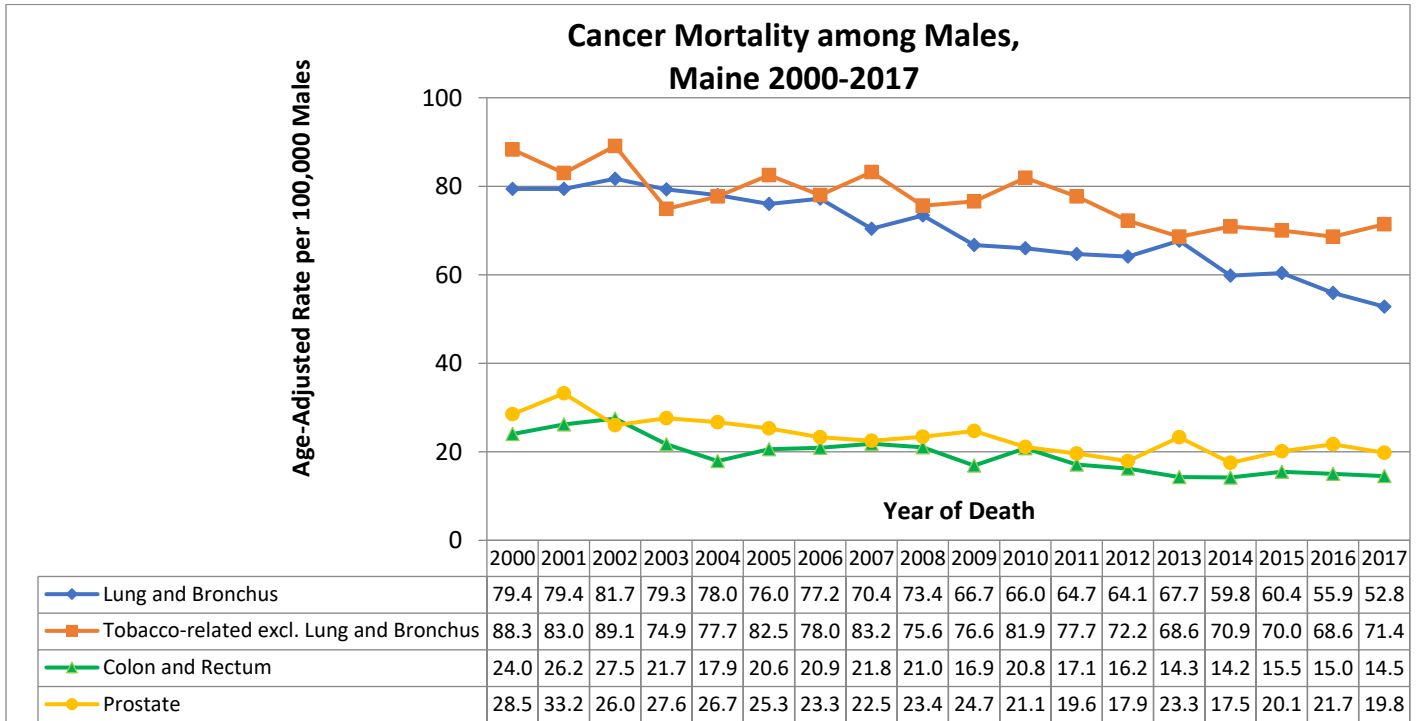
Age-adjusted Cancer Mortality Trend: All Malignant Cancers, Maine 2000-2017



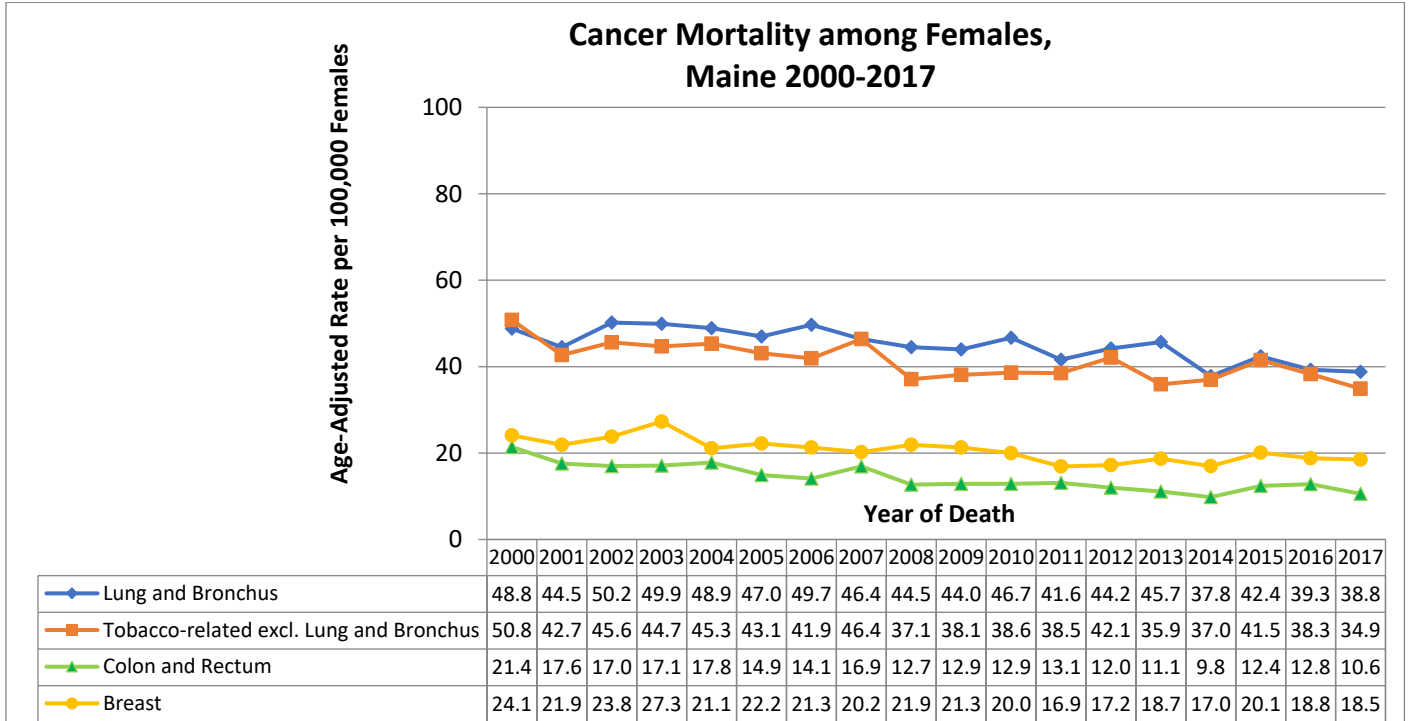
Data Source:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.
- U.S. Mortality: Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2017 on CDC WONDER Online Database, released December 2018.

Age-adjusted Cancer Mortality Trend: Leading Causes among Males, Maine 2000-2017



Age-adjusted Cancer Mortality Trend: Leading Causes among Females, Maine 2000-2017



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.

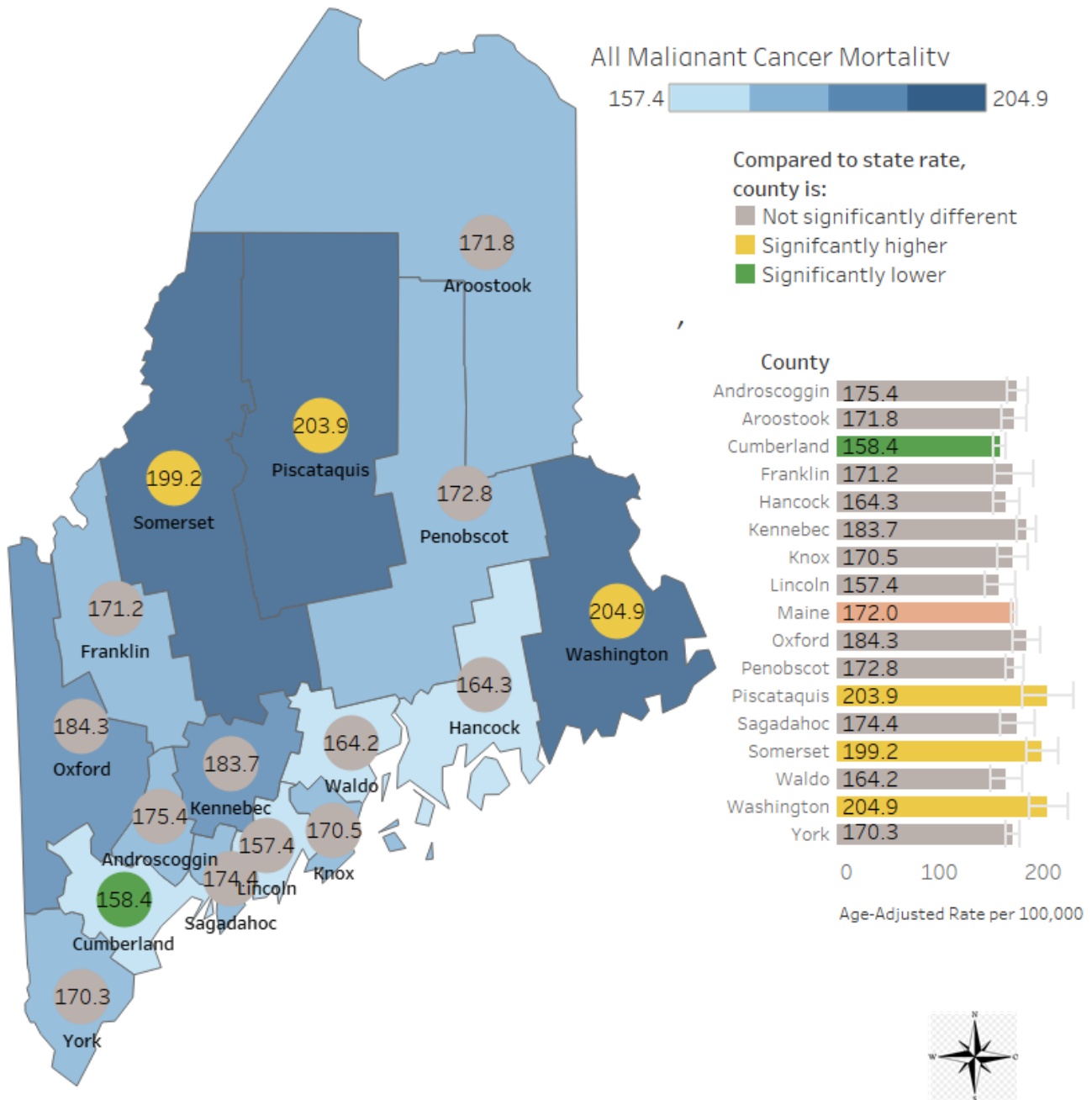
Data Source:

- Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.

CANCER MORTALITY MAP

All Malignant Cancer Mortality by County, Maine, 2013-2017

Age-Adjusted Rate per 100,000 Population per Year



Data Source: Maine Mortality: Maine CDC's Data, Research, and Vital Statistics.
 Rates are calculated per 100,000 population and age-adjusted to the year 2000 U.S. standard population.
 Map was created using Tableau and rates were mapped using quantiles method with 4 categories. Error bars on bar chart depict 95% confidence intervals. See Appendix for definition of All Malignant Cancer Mortality.

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*[^]

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

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

DEFINITIONS OF GROUPS OF RISK-ASSOCIATED CANCERS (TOBACCO, HPV, OBESITY)

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

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

Cancer	ICD-O-3 site codes	ICD-O-3 histology codes	Additional restrictions
Tobacco-associated Cancers			
Lip, oral cavity, pharynx	C00.0–14.8	8000–9049, 9056–9139, 9141–9589	
Esophagus	C15.0–15.9	8000–9049, 9056–9139, 9141–9589	
Stomach	C16.0–16.9	8000–9049, 9056–9139, 9141–9589	
Colon and rectum	C18.0–20.9, C26.0	8000–9049, 9056–9139, 9141–9589	
Liver	C22.0	8000–9049, 9056–9139, 9141–9589	
Pancreas	C25.0–25.9	8000–9049, 9056–9139, 9141–9589	
Larynx	C32.0–32.9	8000–9049, 9056–9139, 9141–9589	
Trachea, lung, bronchus	C33.9–34.9	8000–9049, 9056–9139, 9141–9589	
Cervix uteri	C53.0–53.9	8000–9049, 9056–9139, 9141–9589	Restrict to females

Cancer	ICD-O-3 site codes	ICD-O-3 histology codes	Additional restrictions
Kidney and renal pelvis	C64.9–65.9	8000–9049, 9056–9139, 9141–9589	
Urinary bladder	C67.0–67.9	8000–9049, 9056–9139, 9141–9589	
Acute myeloid leukemia		9840; 9861; 9865–9869; 9871–9874; 9895–9898; 9910–9911; 9920	
Human Papillomavirus-associated Cancers			
Squamous cell carcinoma of the oropharynx	C01.9, 02.4, 02.8, 05.1–05.2, 09.0–09.1, 09.8–09.9, 10.0–10.9, 10.8–10.9, 14.0, 14.2, 14.8	8050–8084, 8120–8131	Restrict to microscopically confirmed
Squamous cell carcinoma of the rectum	C20.9	8050–8084, 8120–8131	Restrict to microscopically confirmed
Squamous cell carcinoma of the anus	C21.0–21.8	8050–8084, 8120–8131	Restrict to microscopically confirmed
Squamous cell carcinoma of the vulva	C51.0–51.9	8050–8084, 8120–8131	Restrict to females, microscopically confirmed
Squamous cell carcinoma of the vagina	C52.9	8050–8084, 8120–8131	Restrict to females, microscopically confirmed
Carcinoma of the cervix	C53.0–53.9	8010–8671, 8940–8941	Restrict to females, microscopically confirmed
Squamous cell carcinoma of the penis	C60.0–60.9	8050–8084, 8120–8131	Restrict to males, microscopically confirmed
Obesity-associated Cancers			
Adenocarcinoma of the esophagus	C15.0–15.9	8140–8575	Restrict to microscopically confirmed
Gastric cardia	C16.0	8000–9049, 9056–9139, 9141–9589	
Colon and rectum	C18.0–20.9, C26.0	8000–9049, 9056–9139, 9141–9589	
Liver	C22.0	8000–9049, 9056–9139, 9141–9589	
Gallbladder	C23.9	8000–9049, 9056–9139, 9141–9589	
Pancreas	C25.0–25.9	8000–9049, 9056–9139, 9141–9589	
Multiple myeloma	C42.1	8000–9049, 9056–9139, 9141–9589, 9732	
Postmenopausal female breast	C50.0–50.9	8000–9049, 9056–9139, 9141–9589	Restrict to females and ≥50 yrs
Corpus and uterus, NOS (not otherwise specified)	C54.0–54.9, C55.9	8000–9049, 9056–9139, 9141–9589	Restrict to females
Ovary	C56.9	8000–9049, 9056–9139, 9141–9589	Restrict to females
Kidney	C64.9	8000–9049, 9056–9139, 9141–9589	
Meningioma	C70.0–70.1, 70.9	9530–9539	
Thyroid	C73.9	8000–9049, 9056–9139, 9141–9589	

Appendix 3

MORTALITY CASE DEFINITIONS:

Based on SEER Cause of Death Recode. SEER major site groupings of cause of death based on the International Classification of Diseases. Accessed from https://seer.cancer.gov/codrecode/1969+_d03012018/index.html

Cancer Causes of Death	ICD-9 (1979-1998)#	ICD-10 (1999+)#	Recode
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
<u>Soft Tissue including Heart[§]</u>	164.1, 171	<u>C47, C49, C38.0, C45.2+</u>	24000
Skin			
Melanoma of the Skin	172	C43	25010
<u>Non-Melanoma Skin</u>	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

Cancer Causes of Death	ICD-9 (1979-1998)#	ICD-10 (1999+)#	Recode
Ovary	183	C56	27040
Vagina	184	C52	27050
Vulva	184.1-184.4	C51	27060
Other Female Genital Organs	181, 183.2-183.5, 183.8-183.9, 184.8-184.9	C57-C58	27070
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	C45 [†]	36010
<u>Kaposi Sarcoma (ICD-10 only)</u> [†]	N/A	C46 [†]	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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